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Date: 9.8.17

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Poster No.	Abstract No.	Title Of The Poster
CP1.	1206	<p>Efficient Photocatalytic Decomposition Of Organic Pollutant Over Erbium Doped Mesoporous TiO₂ Spheres: Enhanced Solar Energy Harvesting And Charge Separation</p> <p>Kamaljeet Singh¹, S. Harish², J. Archana^{1*}, M. Navaneethan², M. Shimomura², Y. Hayakawa²</p> <p>¹Department Of Physics And Nanotechnology, SRM University, Chennai, India. ²Research Institute Of Electronics, Shizuoka University, Hamamatsu Campus, Japan.</p>
CP2.	1203	<p>Ag modified ZnO nanowires as H₂S sensors</p> <p>Komal Avhad³, R. Jishita^{1,2}, N. S. Ramgir^{1*}, R. Navneethan², C. P. Goyal^{2,4}, J. Archana², V. M. Aranke³, M. Navaneethan⁴, S. Ponnusamy², H. Ikeda⁴, A. K. Debnath¹, K. P. Muthe¹, S. C. Gadkari¹</p> <p>¹Technical Physics Division, Bhabha Atomic Research Centre, Mumbai 400 085, India ²Department of Physics and Nanotechnology, SRM University, Chennai 603 203, India ³Dept. of E. & T. Engineering, Vishwakarma Institute of Technology, Pune 411048, India ⁴Research Institute of Electronics, Shizuoka University, Hamamatsu, Japan 432-8011</p>
CP3.	1404	<p>Synthesis, Crystal Growth & Structure And Characterization Of Nonlinear Optical Organic Creatininium Tartrate Monohydrate Single Crystal</p> <p>V. Thayanithi^a, B. Gunasekaran^b And P. Praveen Kumar^{a,*}</p> <p>^Adepartment Of Physics, Presidency College, Chennai – 600005. ^Bdepartment Of Physics & Nano Technology, SRM University, SRM Nagar, Kattankulathur, Kancheepuram Dist, Chennai-603 203.</p>
CP4.	1405	<p>Growth And Characterization Of A New Organic Third Order Non-Linear Optical Guanidinium Fumarate Dihydrate Single Crystal</p> <p>K. Krishnaraj¹, B. Gunasekaran² And P. Praveen Kumar^{1,*}</p> <p>¹Department Of Physics, Presidency College, Chennai-600 005. ²Department Of Physics & Nano Technology, SRM University, SRM Nagar, Kattankulathur, Kancheepuram Dist, Chennai-603 203.</p>
CP5.	1407	<p>Synthesis, Characterization And Optical Properties Of Zns Nanostructures And Their Photocatalytic Activity</p> <p>C. Ramamoorthy^{1*}, V. Rajendran²</p> <p>^{1,2}Department Of Physics, Presidency College, Chennai-600005, India.</p>
CP6.	1409	<p>Impact Of Gd In Mn_{0.8}Cu_{0.2}Gd_{0.02}Fe_{1.98}O₄ Spinel Nanoferrites On structural, Optical And Dielectric Properties</p> <p>R. Rajesh Kanna, N. Lenin, M. Sivabharathy And K. Sakthipandi*</p> <p>Department Of Physics, Sethu Institute Of Technology, Kariapatti 626 115, Tamil Nadu, India</p>
CP7.	1414	<p>Structural, Magnetic And Optical Properties Of Zinc Substituted NiFe₂O₄ nanoparticles In The Application Of Photo-Fenton Degradation</p> <p>Vinsha. P¹, Ansel Mely.L¹ And Jerome Das. S^{1,*}</p> <p>¹Department Of Physics, Loyola College, Chennai-600 034, India ¹Department Of Physics, Loyola College, Chennai-600 034, India ^{1,*} Department Of Physics, Loyola College, Chennai-600 034, India</p>
CP8.	1416	<p>Cyanate Ester Co-Cured Maleimido Terminal Pyrenyl Pyridine Core Skeletal Modified Benzoxazine/Polymer (PBZ/CE) Hybrid Blends</p> <p>Gunasekaran S. G¹, V. Arivalagan. V¹, Devaraj Stephen. L¹ And Dharmendirakumar. M²</p> <p>¹Department Of Chemistry, Valliammai Engineering College, Kattankulathur, 603203, India</p>

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		² Department Of Applied Science And Technology, Anna University, Chennai, 600025, India
CP9.	1419	<p>Influence Of Dislocations On Ingan/Gan Heterostructures Grown On Sapphire Substrate Using Metal Organic Chemical Vapour Deposition K.Prabakaran¹, M. Jayasakthi¹, S. Surender¹, S. Pradeep¹, R. Ramesh³, R. Loganathan⁴, M. Balaji⁵, Shubra Singh¹, K. Baskar^{1,2*}</p> <p>¹ Crystal Growth Centre, Anna University, Chennai, India ² Manonmaniam Sundaranar University, Tirunelveli, India ³Clean Energy And Nano Convergence Centre Hindustan University, Chennai, India ⁴ Micro-Nano Physics And Technologies Of Hunan Province, Hunan University, Changsha, China ⁵ National Centre For Nanoscience And Nanotechnology, University Of Madras, Chennai, India</p>
CP10.	1423	<p>Synthesis of Nano-Structured Tin Oxide Thin Films With Faster Response To LPG And Ammonia By Spray Pyrolysis Prasannakumari K.¹, Boben Thomas²</p> <p>Research Centre In Physics, Mar Athanasius College(Autonomous), Kothamangalam College P.O, Kothamangalam, Kerala 686 666, India</p>
CP11.	1424	<p>CHARACTERIZATION OF GRAPHENE BASED POLYMER NANOCOMPOSITES USING SCANNING TUNNELING MICROSCOPE A. Pooja Shukla^{1,2,*} And Arijit Sen^{1,2}</p> <p>¹Department Of Physics And Nanotechnology, SRM University, Chennai-603203, India ²SRM Research Institute, SRM University, Chennai-603203, India</p>
CP12.	1429	<p>Growth Of Gallium Nitride Nanowires On Al₂O₃ by Chemical Vapor Deposition For Water Splitting Applications Loganathan Ravi^{1,2}, Puspamitra Panigrathi¹, Subra Singh², Baskar Krishnan²</p> <p>¹Clean Energy And Nano Convergence Centre, Hindustan Institute Of Science And Technology, Chennai ²Crystal Growth Centre, Anna University, Chennai</p>
CP13.	1432	<p>Niosomal Drug Delivery Of Antidiabetic Drugs Noufel Samed¹, Dr S. Anandhakumar²</p> <p>¹Dept. Of Physics And Nanotechnology, S.R.M Univeristy, Kattankulathur, Tamil Nadu, India ²SRM Research Institute, SRM University, Kattankulathur, Tamil Nadu, India</p>
CP14.	1433	<p>FUNCTIONALIZATION OF CITRATE-CAPPED SILVER NANOPARTICLES WITH GLYCOPEPTIDE ANTIBIOTIC Amritpal Kaur¹, Divya Goyal², And Rajesh Kumar[*]</p> <p>^{1,2,*}Department Of Physics, Centre Of Advanced Study In Physics, Panjab University, Chandigarh-160 014 (India)</p>
CP15.	1434	<p>A Study On The Effect Of Simple Homogeneous Precipitation Synthesis On Different Solvents Variables On The Degradation Of The Cationic Dye Over Nano-Size Dysprosium Oxide And Its Properties V. Rajendran^a, R. Mekala^{*A}, And B. Deepa^a</p> <p>^Apg And Research, Department Of Physics, Presidency College, Chennai-05, Tamil Nadu, India.</p>
CP16.	1436	<p>Preparation Of Size Controlled Magnesium Oxide Nanoparticles And Evaluation Of Their Optical And Antimicrobial Performance B.Deepa^{1*}, V.Rajendran¹ and R.Mekala¹</p> <p>¹Nano Material Research Lab, Department Of Physics, Presidency College, Chennai-600005.</p>

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CP17.	1437	<p>Sizecontrolled Synthesis Of V_2O_5/Al_2O_3 Nanocomposite And Its Morphological And Optical Properties</p> <p>S. Usharani¹ And V. Rajendran¹</p> <p>¹Presidency College, Chennai-05</p>
CP18.	1439	<p>Synthesis And Electrochemical Behavior Of Graphene Supported Palladium-Nickel Catalyst</p> <p>T. A. Revathy¹, S. Dhanavel¹, T. Sivaranjani¹, V. Narayanan², A. Stephen^{1*}</p> <p>¹Department Of Nuclear Physics, University Of Madras, Guindy Campus, Chennai-25, Tamil Nadu, India</p> <p>² Department Of Inorganic Chemistry, University Of Madras, Guindy Campus, Chennai-25, Tamil Nadu, India</p>
CP19.	1440	<p>Synthesis Of Dual Drug Encapsulated Chitosan/Graphene Nanocomposite For Co-Drug Delivery Against Colon Cancer Cells HT-29</p> <p>S Dhanavel¹, T.A. Revathy¹, P.Praveena¹, V Narayanan² And A Stephen^{1*}</p> <p>¹Material Science Centre, Department Of Nuclear Physics, University Of Madras, Guindy Campus, Chennai-25, India.</p> <p>²Department Of Inorganic Chemistry, University Of Madras, Guindy Campus, Chennai 600 025, India.</p>
CP20.	1441	<p>Influence Of Hydrolyzing Agents In The Synthesis Of TiO_2 nanoparticles For Photoanode In DSSC</p> <p>T Raguram, S Vedavarshniand K S Rajni*</p> <p>Derpartment Of Sciences, Amrita Shool Of Engineering, Amrita Vishwa Vidyapeetham, Amrita Nagar, Ettimadai, Coimbatore – 641112</p>
CP21.	1442	<p>Nitrogen-Doped ZnO Coupled With $BiVO_4$ with High Zn Interstitial Defects and Enhanced Surface Area For Enhanced Photocatalytic Dye Degradation activity</p> <p>Sonal Singh¹ And Rishabh Sharma^{2†}</p> <p>¹Deen Dayalupadhyaya College, Dwarka, University Of Delhi, New Delhi 110078, India</p> <p>^{2†}Thin Film Laboratory, Department Of Physics, Indian Institute Of Technology, New Delhi-110016, India.</p>
CP22.	1443	<p>Enhanced Visible Light Driven Photoelectrochemical Property Of Pd-Carbon Core Shell Nanoparticles Coated TiO_2 Thin Films Owing To Improved Hydrogen Interaction And Surface Plasmon Resonance</p> <p>Rishabh Sharma^{1†}, Nisha Kodan², Vinod Poonia², S. N. Sharma³ and O. P. Sinha^{1†}</p> <p>¹Amity Institute Of Nanotechnology, Amity University, UP, Sector-125, Noida-201303, India</p> <p>²Thin Film Laboratory, Department Of Physics, Indian Institute Of Technology, New Delhi-110016, India.</p> <p>³Electronic Materials Division, CSIR- National Physical Laboratory, New Delhi-110012</p>
CP23.	1444	<p>CTAB Effects On The Structural And Dielectric Properties Of Nanostructured Polypyrrole-ZrO_2 Composites</p> <p>Gaganpreet Kaur Sidhu And Rajesh Kumar*</p> <p>Department Of Physics, Centre Of Advanced Study In Physics, Panjab University, Chandigarh-160 014 (INDIA)</p>
CP24.	1445	<p>EFFECT OF FLUENCE VARIATION OF 200 MeV Ag^{15+} ION BEAM IRRADIATION ON WO_3 THIN FILMS</p> <p>Rathikar¹, Kovendhanm^{2*}, Paul Joseph³, Venkateswaranc⁴, Asokank⁵, And Johnson Jeyakumars^{1*}</p> <p>¹Department Of Physics, TBML College, Porayar – 609307, India.</p> <p>²Department Of Environmental Engineering, Inha University, Incheon 402-751, South Korea.</p> <p>³Department Of Physics, National Institute Of Technology, Warangal, – 506004, India.</p>

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		⁴ Department Of Nuclear Physics, University Of Madras, Chennai – 600025,India. ⁵ Inter University Accelerator Centre, Arunaasaf Alimarg, New Delhi - 110 067, India.
CP25.	1446	Gold Functionalized ZnO Nanowires As A Fast Response / Recovery Ammonia Sensor A. Nancy Anna Anasthasiya ¹ , Kampara Roopa Kishore ¹ , P. K. Rai ² , B.G. Jeyaprakash ^{1*} ¹ Functional Nanomaterials Lab, Centre For Nanotechnology & Advanced Biomaterials (Centab), School Of Electrical & Electronics Engineering SASTRA University, Thanjavur, Tamil Nadu -613401. ² Centre For Fire Explosive And Environment Safety Defence Research & Development Organisation (DRDO) Ministry Of Defence, Timarpur, Delhi-110054.
CP26.	1447	Interaction Study Of Serotonin With Silver Nanoparticles By Using Fluorescence Spectroscopy Bikash Chandra Swain ¹ andUmakanta Tripathy ^{2*} ¹ SRF, Biophysics Research Lab, Department Of Applied Physics, Indian Institute Of Technology (Indian School Of Mines), Dhanbad- 826004 ² Assistant Professor, Biophysics Research Lab, Department Of Applied Physics, Indian Institute Of Technology,(Indian School Of Mines), Dhanbad- 826004
CP27.	1448	Preparation And Characterization Of Hybrid Chitosan/PEO–Silica Membrane Doped With Phosphotungstic Acid For Microbial Fuel Cell Application J. Kalaiselvi ^a , K. Selvakumar ^a , M. Ramesh Prabhu ^{a*} , S. Rajendran ^a And M. Sundararajan ^b ^A department Of Physics, Alagappa University, Karaikudi – 630 004, India. ^B department Of Industrial Chemistry, Alagappa University, Karaikudi – 630 004, India.
CP28.	1449	SURFACTANT ASSISTED ZnCO₂O₄ NANOMATERIAL FOR SUPERCAPACITOR APPLICATION A Juliet Christina Mary And A Chandra Bose* Nanomaterials Laboratory, Department Of Physics, National Institute Of Technology, Tiruchirappalli-620015, Tamil Nadu, India.
CP29.	1450	Thermal, Mechanical And Ablation Properties Of Carbon-Epoxy Based Composites Reinforced By Zirconia Coated Graphene Nanoplatelets Subha S, Dalbir Singh, Srinath S And Battu Sai K School Of Aeronautical Sciences, Hindustan University, Chennai, 603103, India
CP30.	1451	CHARGE TRANSPORT ACROSS QUASI-2D NANOSTRUCTURES FOR THERMOELECTRIC DEVICE APPLICATIONS A. Pooja Shukla ^{1,2,*} And Arijit Sen ^{1,2} ¹ Department Of Physics And Nanotechnology, SRM University, Chennai-603203, India ² SRM Research Institute, SRM University, Chennai-603203, India
CP31.	1453	Multi-Functional Gold Nanocarriers Conjugated With doxorubicin, Polyethylene Glycol and Folic Acid For Cancer Therapy S. Rajkumar And M. Prabakaran* Department Of Chemistry, Hindustan Institute Of Technology And Science, Padur, Chennai – 603103
CP32.	1455	Photoinduced Activation Of Co^{III}(Tn)₂Cl(L)²⁺ On Aqueous TiO₂ Suspensions Under Visible-Light Illumination In Binary Solvent Medium L. Devaraj Stephen ¹ And K. Anbalagan ² ¹ Department Of Chemistry, Valliammai Engineering College, Kattankulathur 603 203 ² Department Of Chemistry, Pondicherry University, Puducherry 605 014

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CP33.	1459	LOW TEMPERATURE , FACILE AND RAPID SYNTHESIS OF Nimoo3 NANORODS WITH REMARKABLE SUPERCAPACITIVE BEHAVIOUR Shubham.C , M.Ramesh
CP34.	1464	Size-Strain Analysis Of Cofe₂o₄ Nanoplatelets By Williamson-Hall And Size-Strain Plot Methods Kamlesh V. Chandekar ¹ , Kalyani Dhabekar ² , K. Mohan Kant ³ Department Of Physics, Visvesvaraya National Institute Of Technology Nagpur,India
CP35.	1465	Low Temperature Synthesis Of Superparamagnetic Cofe₂o₄ And Humic Acid Coated Cofe₂o₄ Nanoparticles By Chemical Co-Precipitation Vibha H. Ojha ¹ ,S. Angappane ² And K. Mohan Kant ¹ ¹ Department Of Physics, Visvesvaraya National Institute Of Technology, Nagpur, India. ² Center For Nano And Soft Mater Sciences, Bangalore, India.
CP36.	1466	Mos₂ Nanosheets As An Effective Fluorescent Quencher For Successive Detection Of Arsenic Ions In Aqueous System Ravikumar Ayyanu ¹ , Panneerselvam Perumal ^{2#} , Radhakrishnan Kothalam ³ , Anand Babu Christus Augustine ⁴ , Anuradha Dhanasekaran ⁵ , Subramanian Sivanesan ⁶
CP37.	1467	Cobalt Ferrite Magnetic Nanoplatelets:Synthesis And Surface Functionalization Kamlesh V. Chandekar, And K. Mohan Kant* Department Of Physics, Visvesvaraya National Institute Of Technology, Nagpur, India
CP38.	1474	Deposition And Characterization Of CZTS Thin Films On Porous Silicon For Energy Applications R. Suriakarthick* ^{1,2} , V. Nirmal Kumar ^{1, 3} , G.R. Dilip ⁴ , T.S. Shyju ⁵ , R. Sivakumar ⁶ . And R. Gopalakrishnan ^{1*} ¹ Crystal Research Lab, Department Of Physics, Anna University, Chennai, India ² Department Of Physics, National Changhua University Of Education, Changhua, Taiwan ³ Research Institute Of Electronics, GSST, Shizuoka University, Hamamatsu, Japan ⁴ School Of Mechanical Engineering And Technology, Yeungnam University, Gyeongsan, South Korea ⁵ Centre For Nano Science And Nanotechnology, Sathyabama University, Chennai, India ⁶ Department Of Physics, Alagappa University, Karaikudi, India
CP39.	1481	Morphology Controlled Nickel Ferrite Nanoplate By Simple Polyol Assisted Citrate Sol-Gel Method For Adsorption Of Malachite Green From Water B.Gayathri Manju And P.Raji Department Of Physics, Mepco Schlenk Engineering College, Sivakasi, Tamilnadu.
CP40.	1486	Development Of Nanofibrous Polyelectrolytes For Lithium Rechargeable Batteries R.Nareendran , J.Shahitha Parveen & S.S.M.Abdul Majeed Department Of Polymer Engineering B.S Abdur Rahman Crescent University, Chennai- 600048
CP41.	1487	Microstructural And Electrochemical Properties Of A – Moo₃ Nanorods Prepared By Solution Combustion Method Guru Prakash. N , Dhananjaya. M, Lakshmi Narayana. A, Dadamiah PMD Shaik ¹ And Hussain. O. M ^{*2} ¹ Sree Vidyanikethan Engineering College, A. Rangampet, Tirupati-517102, India ^{*2} Department Of Physics, Sri Venkateswara University, Tirupati-517502, India.
CP42.	1490	Effect Of Al Substitution On Structural, Magnetic And Optical Properties Of Nickel Ferrite Nanoparticles T.Vigneswari* And P.Raji ¹ *Department Of Physics, Ramco Institute Of Technology, Rajapalayam – 626 117, Tamilnadu, India. ¹ Department Of Physics, Mepco Schlenk Engineering College, Sivakasi - 626 005,

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		Tamilnadu, India.
CP43.	1494	<p>PHOTOCATALYTIC REDUCTION OF P-NITROPHENOL USING ZNO MODIFIED PAN-GO COMPOSITE NANOFIBER K.Lakshmi¹, K.Kadirvelu^{1*} And P.S. Mohan² ¹DRDO-BU Center For Life Sciences Bharathiar University Campus ²Department Of Chemistry, Bharathiar University Coimbatore -641046, Tamil Nadu, India</p>
CP44.	1496	<p>Synthesis And Characterization Of Graphene Quantum Dots For Sensing Application ^{*1}Tharini J, ²Padma P, ²Saraswathi R ¹Rajarajan Institute Of Science, Madurai-625009, India. ²Department Of Materials Science, Madurai Kamaraj University, Madurai-625021, India.</p>
CP45.	1499	<p>Size Controlled Synthesis Of Copper Silver Binary Alloys Ashish Karle¹, Deepa. E², Ibani Kapur¹, Helen Annal Therese^{2*}, ¹Department Of Physics And Nanotechnology, SRM University, Kattankulathur, Tamilnadu- 603203, India ²Nanotechnology Research Center, SRM University, Kattankulathur, Tamilnadu- 603203, India</p>
CP46.	1502	<p>Synthesis Of Multi- Branched Fibrous Root Silver Nanostructures Via Simple Chemical Reduction Method And Their Antibacterial Potential. Jamilajayanthi P^{1*}, Kartharinalpunithavathy I¹, Johnson Jeyakumar S¹ And Elavazhagan T² ¹Department Of Physics, TBML College, Porayar - 609307, India. ²Department Of Biotechnology, Research And Development Centre, Bharathiyar University, Coimbatore, India – 641046</p>
CP47.	1503	<p>Comparativestudy Of The Physical Propertiesof Nanocrystalline Baco_{0.9}Mn_{0.1}O₃ And Srco_{0.9}Mn_{0.1}O₃ Amit Kumar, Meenakshi And Rabindra Nath Mahato* School Of Physical Sciences, Jawaharlal Nehru University, New Delhi-11067</p>
CP48.	1504	<p>Ultra Speed ALU Design Based On Reciprocal Quantum Logic Narendran.S¹, Selvakumar.J² ¹Research Scholar, ECE Department, SRM Unviersity, Chennai ²Assistant Professor (S.G), ECE Department, SRM Unviersity, Chennai</p>
CP49.	1505	<p>Preparation Of Chitin Based Zno-Sno₂/Graphene Oxide Hybrid Nanocomposites For Electrochemical Capacitance Applications Rajiv Gandhi Packirisamy¹, Anandhavelu Sanmugam², Sethuraman Venkatesan³, Chandramohan Govindasamy¹ And Dhanasekaran Vikraman^{4*} ¹Research & Developement Centre, Bharathiar University, Coimbatore 641046, India. ²Department Of Chemistry, Vel Tech Multi Tech Dr.Rangarajan Dr.Sakunthala Engineering College, Avadi, Chennai 600062, India ³Department Of Industrial Chemistry, School Of Chemical Sciences, Alagappa University, Karaikudi, Tamilnadu 630003, India. ⁴Division Of Electronics And Electrical Engineering, Dongguk University-Seoul, Seoul 04620, Republic Of Korea</p>
CP50.	1506	<p>Synthesis And Characterisations Of Polymer- Metal Oxide Hybrid Nanocomposites For Photocatalysis: A Comparative Study Bhabhina N. M, Ajisha P. C, Dharsana M. V, Jyothislakshmi V. P And Sindhu S* Department Of Nanoscience And Technology, University Of Calicut, Kerala 673635, India</p>

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CP51.	1510	<p>Synthesis And Characterization Of Graphene Oxide -Sno₂ – Tio₂ Ternary Nanocomposite In Prediction Of Acetone Gas In The Evaluation Of Diabetes Mellitus K.Ramji¹, U.Snehalatha² ¹Department Of Biomedical Engineering, School Of Bio-Engineering, SRM University, Chennai, India. ²Department Of Biomedical Engineering, School</p>
CP52.	1513	<p>FABRICATION AND CHARACTERISTICS OF Sic BASED RESISTIVE SWITCHING DEVICES Chaitanya Akshara Poreddy¹, Ghanashyam Krishna Mamidipudi^{1*}, Rajaram Guruswamy¹ ¹Centre For Advanced Studies In Electronics Science And Technology, School Of Physics, University Of Hyderabad Hyderabad-500046, Telanagana, India.</p>
CP53.	1514	<p>Hierarchial Nickel Nanowire Synthesis Using Polysorbate 80 As Capping Agent Deepa.E¹, Helen Annaltherese^{1*} ¹Nanotechnology Research Centre, SRM University, Kattankulathur- 603203Tamil Nadu, India</p>
CP54.	1515	<p>Green Synthesis Of Zno/Carbon (Zno/C) As An Electrode Material For Symmetric Supercapacitor Devices C. Sasirekha, S. Arumugam And G. Muralidharan* Department Of Physics, Gandhigram Rural Institute – Deemed University, Gandhigram – 624 302, Dindigul, Tamil Nadu, India</p>
CP55.	1516	<p>Facile And Green Synthesis Of CRG-Ag Nanocomposite Using Custard Apple Leaf Extract Basavaiah Chandu^{1,2} And Hari Babu Bollikolla¹ ¹Department Of Chemistry, Acharya Nagarjuna University, Nagarjuna Nagar, Guntur, AP, India-522510. ²Department Of Nanotechnology, Acharya Nagarjuna University, Nagarjuna Nagar, Guntur, AP, India-522510.</p>
CP56.	1517	<p>A Novel Hg (II) Sensor Based On Fe₃O₄@Zno Nanocomposite As Peroxidase Mimics Anand Babu Christus Augustine¹, Ravikumar Ayyanu², Panneerselvam Perumal^{3#}, Radhakrishnan Kothalam⁴ Sivanesan Subramanian⁵ ¹Department Of Chemistry, SRM University, Ramapuram Campus – 600 089, Tamilnadu, India ^{2,3,4}Department Of Chemistry, SRM University, Kattankulathur – 603 203, Tamilnadu, India. ⁵Department Of Applied Science And Technology, Anna University, Chennai-600 025</p>
CP57.	1518	<p>Facile Green Synthesistechnique For Cobalt Silver Binary Alloys Ibani Kapur¹, Deepa. E², Ashish Karle¹, Helen Annal Therese^{2*}, ¹Department Of Physics And Nanotechnology,SRM University,Kattankulathur,Tamil Nadu, 603203, India ^{2*}Nanotechnology Research Center, SRM University,Kattankulathur, Tamil Nadu, 603203, India</p>
CP58.	1525	<p>Tin Oxide Microrods As Advanced Electrode Material For Asymmetric Supercapacitor Manohara Babu Inbamani, Johnson William Panneer Selvam, Muralidharan Gopalan * Department Of Physics, Gandhigram Rural Institute - Deemed University, Gandhigram-624302, Tamilnadu, India</p>
CP59.	1527	<p>SIMULATION OF MICROTEXTURED THIN FILMS ON GLASS SUBSTRATE Tanay Agarwal¹, Sivasangari Sathiamoorthy², P.Malar^{2,*} ¹Department Of Physics And Nanotechnology, SRM University ²SRM Research Institute, Department Of Physics And Nanotechnology, SRM University</p>

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CP60.	1528	Enhanced UV Protection Of Cufes₂nanoparticles On Cotton Fabric Andtheir Improved Photo-Fenton Degradation Ofthe Cationic Dye Rhodamineb Anselmely L*, Annie Vinosha P, Jerome Das S Department Of Physics, Loyola College, Chennai – 600 034, India.
CP61.	1529	Characterization And Modelling Of Drain Current In Dual Material Double Gate Tunnel Field Effect Transistor A.Maria Jossy ¹ , Dr.T.Vigneswaran ² ,Dr.S.Malarvizhi ² ,Dr. K. K. Nagarajan ³ ¹ Department Of ECE, SRM University, Chennai, India ² School Of Electronics Engineering, VIT University, Chennai, India ² Department Of ECE, SRM University, Chennai, India ² Department Of ECE, SSN College Of Engineering,Chennai, India
CP62.	1531	Vibrational Spectra (FT-IRand FT-Raman), Molecular Structure, NBO And HOMO-LUMO Analysis Of Quercetin On Single Layer Graphene By Density Functional Theory Approach Saranya Murugesan ¹ , Ayyappan ^{2*} ¹ Research Scholar,Department Of Physics, Government College Of Technology, Coimbatore-641013,India ² Assistant Professor, Department Of Physics, Government College Of Technology, Coimbatore-641013,India
CP63.	1533	Structural, Morphological, Optical And Electrical Properties Of E-Beam Deposited Nanocrystalline Cdte:Cu Alloy Thin Films From Mechanical Alloyed Samples Manimozhi Thangaraju ¹ , Archana Jayaram ² , Ramamurthi Kanthasamy ^{1*} ¹ Crystal Growth And Thin Film Laboratory, Department Of Physics And Nanotechnology, SRM University, Kattankulathur 603203, Tamil Nadu, India. ² Center For Materials Science And Nano Devices, Department Of Physics, SRM University, Kattankulathur 603203, Kancheepuram (Dt.), Tamil Nadu, India.
CP64.	1535	Fabrication Of Al Doped Zinc Oxide (AZO) Thin Films For Transparent Electrode Applications. A.Jacquiline Regina Mary* ¹ , S.Arumugam ² ¹ Department Of Physics, Jayaraj Annapackiam College For Women (Autonomous), Periyakulam, Theni Dist, Tamilnadu, India. ² Solar Energy Division, Department Of Physics, The Gandhigram Rural Institute-Deemed University, Gandhigram, Dindigul Dist, Tanilnadu, India
CP65.	1536	Room Temperature Ferromagnetism In Yb Doped Srsno₃ Perovskite System M. Muralidharan ^{1*} , K. Sivakumar ² And K. Sivaji ¹ ¹ Department Of Nuclear Physics, University Of Madras, Guindy Campus, Chennai-600025 ² Department Of Physics, Anna University, Chennai-600025
CP66.	1538	Microwave Assisted Synthesis Of Molybdenum Oxide Nanoflakes Towards Electrochemical Capacitors Johnson William Panneer Selvam,Manohara Babu Inbamani And Muralidharan Gopalan* Department Of Physics, Gandhigram Rural Institute – Deemed University, Gandhigram-624302
CP67.	1540	Ag₂Se QUANTUM DOTSSENSITIZED POROUS TiO₂ NANOFIBERS AS EFFICIENT PHOTOANODE FOR QDSSC Nisha Singh, A.Subramania* Electrochemical Energy Research Lab, Centre For Nanoscience And Technology, Pondicherry University, Puducherry - 605 014, India.
CP68.	1546	Effect Of Three Different Type Of Surfactants On The Synthesis And The Structural Properties Of WO₃nanoparticles

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		Naresh Kumar, Gaganpreet Kaur Sidhu And Rajesh Kumar* Department Of Physics, Centre Of Advanced Study In Physics, Panjab University, Chandigarh-160014 (INDIA)
CP69.	1548	Low Temperature Wet Chemical Synthesis Of Lead Sulfide Nanoparticles For Photovoltaic Application Jyothilakshmi V.P, Bhabhina N.M, Dharsana M.V And Sindhu S* Department Of Nanoscience And Technology, University Of Calicut, Kerala- 673635, India
CP70.	1549	Antimony Selenide Electrodeposition Optimization Over TiO₂ Photoanode For Photovoltaic Application Dharsana M.V, Bhabhina N.M, Jyothilakshmi V.P And Sindhu S.* Department Of Nanoscience & Technology, University Of Calicut, Kerala - 673635, India
CP71.	1550	ANALYTICAL EXPRESSION OF BIODEGRADATION OF HYDROCARBON POLLUTED WATER IN A THREE PHASE FLUIDIZED-BED BIOREACTOR WITH PVC BIOFILM SUPPORT R. Jana Ranjani ¹ And R.Senthamarai ² ^{1,2} Department Of Mathematics, SRM University, Kattankulathur-603 203, Tamil Nadu, India
CP72.	1551	The Catalytic Effect Of Nanosilica Addition On The Geopolymeric Binding Gel Growth In The Fly Ash Based System Revathi T ¹ , Jeyalakshmi R ^{2*} , Rajamane N P ³ , J Baskara Sundraraj ⁴ ¹ Research Scholar, Department Of Chemistry, ^{2*} Professor, Department Of Chemistry, SRM University, Kattankulathur, 603 203 ³ Head, CACR, SRM University, Kattankulathur, 603203 ⁴ Technical Officer, CACR, SRM University
CP73.	1554	POTENTIODYNAMICALLY SYNTHESIZED WORM -LIKE NICKEL OXIDE THIN FILM AS SUPERCAPACITOR ELECTRODE Aswini R, Niveditha C V And Sindhu S* Department Of Nanoscience And Technology, University Of Calicut, Kerala, India-673635
CP74.	1563	Effect Of N-TiO₂ on Thermal Properties Of Alumino-Silicate Inorganic Polymer/Geopolymer Derived From Fly Ash Sivasakthi M ¹ , Jeyalakshmi R ^{2*} , Rajamane N P ³ , Rinu Jose ⁴ ¹ Junior Research Fellow, Centre For Advanced Concrete Research (CACR), SRM University, ^{2*} Professor, Department Of Chemistry, SRM University, ³ Head, Centre For Advanced Concrete Research (CACR), SRM University ⁴ Junior Research Fellow, Centre For Advanced Concrete Research (CACR), SRM University
CP75.	1564	Studies On Pure And Antimony Doped Vanadium Pentoxide Thin Film Deposited By Spray Pyrolysis Technique Larny Mary Jayan ^{1,2} , L.Chinnappa ³ , S.Dhanavel ² , I.Inigovalan ² And A Stephen ^{2,*} ¹ Madras Christian College (Autonomous), Department Of Physics, Chennai – 59, India ² Material Science Centre, Department Of Nuclear Physics, University Of Madras, Guindy Campus, Chennai-25, India. ³ Rajah Serfoji Govt. College (Autonomous), Department Of Physics, Thanjavur - 613005, India.
CP76.	1568	Study Of Magnetic And Magnetocaloric Properties Of Fe-Doped Nanocrystalline La_{0.7}Te_{0.3}Mn_{1-x}Fe_xO₃ Manganite Prepared By Sol-Gel Method Meenakshi, Amit Kumar And Rabindra Nath Mahato* School Of Physical Sciences, Jawaharlal Nehru University, New Delhi – 110067

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CP77.	1570	<p>Synthesis And Characterization Of High Temperature Superparamagnetic Cobalt Ferrite Nanoparticles Kalyani Dhabekar And K.Mohan Kant Department Of Physics, Visvesvaraya National Institute Of Technology, Nagpur, India</p>
CP78.	1572	<p>Strain Engineered Hydrogenated Germanezigzag Nano-Ribbon Double Gate Field Effect Transistor E Meher Abhinav¹, Anuraj Sundararaj¹, Chandrasekarangopalakrishnan^{1*}, S. V.Kasmir Raja² And Saurabh Chokhra³ ¹Nanotechnology Research Centre, SRM University, Kanchipuram – 603203, Tamilnadu,India. ²Directorate Of Research And Virtual Education, SRM University, Tamilnadu, India. ³Department Of Electrical Engineering, IIT Kanpur, Kanpur, India.</p>
CP79.	1574	<p>AQUEOUS DISPERSION OF CNTS USING SDS FOR HEAT TRANSFER APPLICATIONS Kriti Singh¹, S.K.Sharma¹, Shipra Mittal Gupta², Arinjai Kumar¹ ¹ USCT, Guru Gobind Singh Intraprastha University, New Delhi, India ²USBAS, Guru Gobind Singh Intraprastha University, New Delhi, India</p>
CP80.	1577	<p>Effect Of Temperature And Concentration Onthe Particle-Fluid Interactions Ofsno₂nanofluids Using Ultrasonic Technique Leena Mohan* Srinivasan Shanmugam Department Of Physics, Presidency College (Autonomous), Chennai – 600 005.</p>
CP81.	1578	<p>Thermoelectric Behavior In 2D Sic: A First Principle Probe Kulwinder Kaur Department Of Physics, Panjab University Chandigarh, 160014, India</p>
CP82.	1582	<p>Structural And Optical Properties Of Biodegradable Poly(2-Ethyl-2-Oxazoline)/Poly(Vinyl Pyrrolidone) Blends Shubha A¹, S. R. Manohara^{1,*}, And G. Nagaraju² ¹ Nano-Composites And Materials Research Lab, Department Of Physics, Siddaganga Institute Of Technology, Tumakuru – 572 103, Karnataka, India ² Department Of Chemistry, Siddaganga Institute Of Technology, Tumakuru – 572 103, Karnataka, India</p>
CP83.	1583	<p>Synthesis, Characterisation And Antibacterial Performance Of Gd Doped Zno Nanoparticles R. Bomila^{1*}, E. Priyadharshini², S. Srinivasan¹ ^{1,1*,2} Department Of Physics, Presidency College, Chennai, Tamil Nadu, India</p>
CP84.	1585	<p>Antifugal Activity Of Tio₂ Nanoparticle APS.Prasanna^a, R. Thamaraiselvi^b, G. Devanand Venkatasubbu^{c*} ^{A, B} Department Of Physics, SRM University, Kaatankulathur, Tamil Nadu ^C Department Of Nanotechnology, SRM University, Kaatankulathur, Tamil Nadu</p>
CP85.	1590	<p>DESIGN OF LOW POWER LOW AREA MEMRISTOR SRAM FOR ASIC APPLICATIONS Anjo C.A.¹, Dr. Aruna Priya P.² ¹Research Scholar, Department Of Electronics And Communication, SRM University, Kattankulathur-603203, Tamil Nadu, India. ²Professor, Department Of Electronics And Communication, SRM University, Kattankulathur-603203, Tamil Nadu, India.</p>
CP86.	1592	<p>Batio₃:Zn_{1-x}co_xo Multiferroic Nanocomposite Anuraj Sundararaj¹, Prateekshita Mukherjee², Iniyan I J Shivaneri², E Meher Abhinav¹, Gopalakrishnan Chandrasekaran^{1*} ¹Nanotechnology Research Centre, SRM University, Kattankulathur, Tamilnadu - 603203,</p>

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		India. ² Department Of Chemistry, SRM University, Kattankulathur, Tamilnadu - 603203, India.
CP87.	1593	Optical Properties Of Sol Gel Dip Coated SnO_2 Films G. Ramanathan ¹ , K.R.Murali ² ¹ Department Of Physics, Sri Sairam Engineering College, Chennai, 600 044 India ² Department Of Theoretical Physics, University Of Madras, Chennai, India.
CP88.	1595	Characterisation Of TiO_2+PVA Nanofibers By Electrospinning Technique Amrita C,Shilpa Kurian,K S Rajni Derpartment Of Sciences, Amrita Shool Of Engineering, Amrita Vishwa Vidyapeetham, Amrita Nagar, Ettimadai, Coimbatore – 641112
CP89.	1597	Influence Of Sputtering Power On Structural, Microstructure, Magnetic And Electrical Properties Of As-Deposited, ERTA And Annealed Co_2FeSi Films: A Comparative Study L.Saravanan ¹ , M.Sarathbavan ² , K.Ramamurthy ² , M.Manivel Raja ³ , H.A.There ^{1*} ¹ Nanotechnology Research Centre, SRM University, Kattankulathur-603203, India ² Department Of Physics And Nanotechnology, SRM University, Kattankulathur-603203, India ³ Defence Metallurgical Research Laboratory (DMRL), Hyderabad - 500058, India
CP90.	1600	TEMPERATURE AND Ph RESPONSIVE THERAGNOSTIC SYSTEM FOR TUMOR APPLICATIONS Jaison D ¹ , Jansi Rani V ² , Arumugam ⁴ , Gopalakrishnan C ^{3*} ^{1,3} Nanotechnology Research Center, SRM University, Kattankulathur ² Department Of Biotechnology, School Of Bioengineering, SRM University ⁴ Center For High Pressure Laboratory, Bharathidasan University, Trichy
CP91.	1602	Non-Isothermal Decomposition Kinetics Of Pure And Mn Doped Fe_3O_4 Nanoparticles Tasmira J. Malek ¹ , Ankur J. Khimani ¹ , Reena R. Meena ¹ , S. H. Chaki ¹ , M. P. Deshpande ¹ ¹ P. G. Department Of Physics, Sardar Patel University, Vallabh Vidyanagar - 388120, Gujarat, India
CP92.	1603	Clerodendrum Phlomidis Herbal Extract Incorporated Antimicrobial Electrospun Polycaprolactone Nano Fibrous Mat Fabrication. R.Siranjeevi ¹ , R.Jeyalakshmi ^{2*} ¹ Research Scholar, Department Of Chemistry ^{2*} Professor,Department Of Chemistry
CP93.	1604	Electron Migration Risk Aware Voltage Island Floorplanning For Nano Ics Srinath Balasubramanian ¹ , P Aruna Priya ² ^{1,2} Department Of ECE, ^{1,2} SRM University
CP94.	1605	STUDY OF Sb_2S_3 NANOPARTICLES SYNTHESIZED BY CHEMICAL METHOD M. P. Deshpande ¹ , Krishnaben Chauhan ¹ , Kiran N. Patel ¹ , S. H. Chaki ¹ ¹ Department Of Physics, Sardar Patel University, Vallabhvidyanagar388120, India
CP95.	1608	SILVER SUBSTITUTED HYDROXYAPATITE/TiO_2 NANOPOWDERS : FABRICATION,CHARACTERIZATION AND PHOTOCATALYTIC ACTIVITY Mariappan Arumugam ¹ , Pandi Pitchai ² , Rajeshwara Palanichamy Ratnavelu ³ , Neyvasagam Karuppathevar ⁴ 1 – Madurai Institute Of Engineering And Technology, Madurai, T. N. State, India 2 – Department Of Environmental Studies, School Of Energy Science, Madurai Kamaraj University, Madurai, T. N. State, India 3 – P.G And Research Department Of Physics, N.M.S.S.Vellaichamy Nadar College, Madurai,T. N. State, India

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		4 – P.G And Research Department Of Physics, The Madura College, Madurai, T. N. State, India
CP96.	1611	<p>Facile Microwave Assisted Hydrothermal Synthesis Of Nis Nanostructures For Supercapacitor Applications S. Nandhini¹, A. Juliet Christina Mary² And Muralidharan^{1*} ¹Department Of Physics, Gandhigram Rural Institute-Deemed University, Dindigul, Tamil Nadu, India. ²Department Of Physics, National Institute Of Technology, Tiruchirappalli, Tamil Nadu, India.</p>
CP97.	1612	<p>Textile Dye Removal And Antibacterial Activity Of Hydroxyapatite/Graphene Oxide Composite Dhatchayani Surendran¹, Vaseeharan Baskaralingam², Vijayakumar Sekar², Sankaranarayanan Krishnasamy^{1*} ¹Dept. Of Physics, Alagappa University, India ²Dept. Of Animal Health & Management, Alagappa University, India ^{1*}Corresponding Author, Dept. Of Physics, Alagappa University, India</p>
CP98.	1613	<p>Preparation Of Polycaprolactonenanofibers With Novel Molecular Target Thieno[2,3-D]Pyrimidin-4-One Derivative And Its Evaluation For Anti-Inflammatory Activity. Kaliraj.S¹, Jeyalakshmi.R^{1*}, Kathiravan M.K² ¹JRF, Department Of Chemistry, ^{1*}Professor, Department Of Chemistry, SRM Univeristy, ²Professor, Department Of Pharmaceutical Chemistry, SRM College Of Pharmacy.</p>
CP99.	1614	<p>Ultrasonic Decomposition Of Toluene For Deposition Of Carbon Nanostructures In Atmospheric Plasma Carol Roselyn Sequeira¹, Karthikeyan Murugesan¹, Rama B.R¹, Ricardo Rhine¹, Rachith S N^{1,2}, Dr.Habibuddin Shaik² ¹Department Of Mechanical Engginering, NMIT ²Centre For Nano Materials And MEMS, NMIT</p>
CP100.	1616	<p>Effect Of Ph On The Structural Properties Of Tio₂ Nanoparticles For DSSC Applications S Vedavarshni, T Raguramand K S Rajni* Derpartment Of Sciences, Amrita Shool Of Engineering, Amrita Vishwa Vidyapeetham, Amrita Nagar, Ettimadai, Coimbatore – 641112</p>
CP101.	1619	<p>Studies On Surface Properties Of Piston Ring Coated With Mo-Ni Alloy Reinforced With MAX Phase Compound Deepak Davis^{1,2,3}, Malathi M², Meenu Srivastava³, Sheela Singh¹ ¹Department Of Physics & Nanotechnology, SRM University –Chennai, India ²Research & Development Laboratories, IP Rings –MM Nagar, Chennai, India ³Surface Engineering Division, CSIR - National Aerospace Laboratories, Bangalore, India</p>
CP102.	1620	<p>Optimization And Characterization Of The Ultra Fine Sericin/PVA Nanofibers By Electrospinning Technique Abirami Mariappan¹, Rajendran Ramasamy¹, Premasudha Paramasivam², Vanathi Periyasamy³ And Manikandan Arumugam¹ ¹PG & Research Department Of Microbiology, PSG College Of Arts & Science, Coimbatore 641 014 ²Department Of Nanoscience And Technology, Bharathiar University, Coimbatore 641 046 ³Department Of Microbiology, Palanisamy College Of Arts, Perundurai 638052</p>
CP103.	1621	<p>Concentration Of Nitrates On The Structural And Magnetic Properties Of Cobalt</p>

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		<p>Ferrites Nanoparticles By Sol-Gel Technique Nashat Begam CH¹, T Raguram² and K S Rajni^{2*} ¹Department Of Physics, Farook Arts And Science College, Kottakkal(P.O), Malappuram-676503, Kerala ²Department Of Sciences, Amrita Shool Of Engineering, Amrita Vishwa Vidyapeetham, Amrita Nagar, Ettimadai, Coimbatore – 641112, Tamilnadu</p>
CP104.	1623	<p>ANALYSIS AND DESIGN OF Finfet BASED TUNABLE AMPLIFIER Kasthuri Bha J.K ¹, Aruna Priya .P ² Department Of Electronics And Communication Engineering SRM UNIVERSITY, Kattankulathur-603203</p>
CP105.	1625	<p>Effect Of Annealing Temperatures On The Characterisation Of Zinc Ferrite Nanoparticles Swathi P¹, T Raguram² and K S Rajni^{2*} ¹Department Of Physics, Farook Arts And Science College, Kottakkal(P.O), Malappuram-676503, Kerala ²Department Of Sciences, Amrita Shool Of Engineering, Amrita Vishwa Vidyapeetham, Amrita Nagar, Ettimadai, Coimbatore – 641112, Tamilnadu</p>
CP106.	1627	<p>Concentration Of Ferric Nitrate In The Magnetic Properties Of Zincferrite Nanoparticle Prepared By Sol-Gel Technique Rosna¹, T Raguram² and K S Rajni^{2*} ¹Department Of Physics, Farook Arts And Science College, Kottakkal(P.O), Malappuram-676503, Kerala ²Department Of Sciences, Amrita Shool Of Engineering, Amrita Vishwa Vidyapeetham, Amrita Nagar, Ettimadai, Coimbatore – 641112, Tamilnadu</p>
CP107.	1629	<p>Effect Of Annealing Temperatures On The Characterisation Of Nickel Ferrite Nanoparticles Revathi Mana P¹, T Raguram² and K S Rajni^{2*} ¹Department Of Physics, Farook Arts And Science College, Kottakkal(P.O), Malappuram-676503, Kerala ²Department Of Sciences, Amrita Shool Of Engineering, Amrita Vishwa Vidyapeetham, Amrita Nagar, Ettimadai, Coimbatore – 641112, Tamilnadu</p>
CP108.	1630	<p>Aluminum Doped Zno Transparent Conducting Thin Films Prepared By Sol-Gel Dip Coating Technique Forsolar Celland Optoelectronic Applications Balaprakash V^{1*}, Gowrisankar P¹, Rajkumar R² and sudha S¹ ¹Hindusthan College Of Arts And Science, Coimbatore, Tamilnadu, India – 641028. ²CSIR-National Geophysical Research Institute, Hyderabad, Telangana, India - 500 007.</p>
CP109.	1631	<p>Performance And Characterization Of Cellulose Acetate - Poly(Ethersulfone) Blend Membranes Incorporated With Tio₂ Kalaivizhi. R¹, Angeline Little Flower. N², Gopalakrishnan. C³, Mohan. D⁴ ¹Department Of Chemistry, Kattankulathur, SRM University, Chennai - 603203, India. ²Department Of Physics & Nanotechnology, Kattankulathur, SRM University Chennai - 603203, India. ³ Nanotechnology Research Center, Kattankulathur, SRM University, Chennai - 603203, India. ⁴Membrane Laboratory, Department Of Chemical Engineering, Anna University, Channai, 600 025, Tamil Nadu, India.</p>
CP110.	1634	<p>Design Characteristics Of Nonlinear Photonic Crystal Fibers For Telecommunication Applications Madhavi Latha G.¹, Sripriya M.² And Ramesh N.³ (*) ¹Department Of Physics, A.M. Jain College, Meenambakkam, Chennai – 600114, India ²Department Of Physics, A.M. Jain College, Meenambakkam, Chennai – 600114, India</p>

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		³ Department Of Physics, A.M. Jain College, Meenambakkam, Chennai – 600114, India
CP111.	1635	<p>Comparativestudy Of Lithium Ion Storage In Electrochemically Deposited Mn₂O₃ On Stainless Steel Sheet And Mesh S.Padmapriya¹, Sanju Basene², S,Harinipriya^{3*} ¹Electrochemical Systems Laboratory, SRM Research Institute, SRM University, India, 603203. ²Department Of Physics And Nano Technology, SRM University, India,603203. ^{3*}Corresponding Author, Electrochemical Systems Laboratory, SRM Research Institute, SRM University, India, 603203.</p>
CP112.	1637	<p>Synthesis And Electrochemical Performance Of Layered Li [Ni_{0.3}Zn_{0.2}Mn_{0.5}] O₂ Cathode Materials For Lithium Rechargeable Batteries RM. Gnanamuthu¹, V. Kumaran¹, And S. Raghu² ¹SRM Research Institute & Dept. Of Chemistry, SRM University, Kattankulathur-603 203, Chennai, Tamilnadu ²Vels Advanced Energy Research Centre, Vels University, Pallavaram-600117, Chennai</p>
CP113.	1638	<p>Investigations On Structural And Magnetic Properties Of La³⁺ Ion Doped Mg_{1-x}Fe_{2-x}O₄ Ferrite Nanoparticles Sonia, Ashok Kumar*, Pawan S Rana Department Of Physics, DCR University Of Science & Technology, Murthal, Sonapat, Haryana-131039, India</p>
CP114.	1640	<p>Fluorescence Sensor Using A Hybrid Magnetic Nanofibrous Silicafor Highly Sensitive Detection Of Zn (II) Ion Radhakrishnan Kothalam¹, Panneerselvam Perumal^{2#}, Ravikumar Ayyanu³, Anand Babu Chirstus Augustine⁴,Sivanesan Subramanian⁵ ^{1,2,3}Department Of Chemistry, SRM University, Kattankulathur – 603 203, Tamilnadu, India. ⁴Department Of Chemistry, SRM University, Ramapuram Campus -600089, Tamilnadu ,India ⁵Department Of Applied Science And Technology,Anna University, Chennai-600 025</p>
CP115.	1641	<p>Tight-Binding Study Of The Temperature Dependent Anti-Ferromagnetic Order Parameter In AA-Stacked Bilayer Graphene Sivabrata Sahu¹, S.K. Panda² G. C. Rout³ ¹ School Of Basic Sciences, Indian Institute Of Technology, Bhubaneswar-751007, Odisha India ²K.D. Science College , Pochilima, Hinjilicut, Pin-761101 , Odisha, India ³ Condensed Matter Physics Group, Physics Enclave, Plot No-664/4825, Shree Vihar, Bhubaneswar-751031, Odisha, India</p>
CP116.	1643	<p>Theoretical Study Of The Charge Gap Effect On The Thermal Property Of Graphene In Paramagnetic State Rudrashish Panda¹, Sivabrata Sahu¹, G.C. Rout^{2,*} ¹ School Of Applied Sciences (Physics), KIIT University, Bhubaneswar-751024, Odisha, India ² Condensed Matter Physics Group, Physicsenclave, Plot No-664/4825, Shree Vihar, Lane-4(A) P.O-Patia, Bhubaneswar-751031, Odisha, India</p>
CP117.	1645	<p>Non-Inversion Anisotropy Energy In Nio Coral Structure: Asymmetric Hysteresis Loop At Room Temperature Swarupananda Bhattacharjee¹, Gopes Chandra Das¹,Anirban Roychowdhury², Dipankar Das³, Chandan Kumar Ghosh^{4*} ¹Department Of Metallurgical And Material Engineering, Jadavpur University, Kolkata – 700032, India. ²Department Of Physics, Krishnath College, Berhampore-742101, India. E-Mail-</p>

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		³ UGC-DAE Consortium For Scientific Research, Kolkata Centre, Kolkata – 700098, India. ⁴ School Of Materials Science And Nanotechnology, Jadavpur University, Kolkata – 700032, India.
CP118.	1646	Concentration Of Ferric Nitrate In The Magnetic Properties Of Nickel Ferrite Nanoparticles Prepared By Sol-Gel Technique Nasheeda P ¹ , T Raguram ² And K S Rajni ^{2*} ¹ Department Of Physics, Farook Arts And Science College, Kottakkal(P.O), Malappuram-676503, Kerala ² Department Of Sciences, Amrita Shool Of Engineering, Amrita Vishwa Vidyapeetham, Amrita Nagar, Ettimadai, Coimbatore – 641112, Tamilnadu
CP119.	1650	Enhanced Electrochemical Behaviour Of CeO₂- MWCNT Hybrid Nanocomposite For High Performance Supercapacitors N. Maheswari ¹ And G. Muralidharan ¹ ¹ Department Of Physics, Gandhigram Rural Institute- Deemed University, Dindigul, Tamil Nadu, India
CP120.	1652	Structural and optical Investigation Of Combustion Derived Ladoped Copper Oxide Nanocrystallite L. Vimala Devi ^{a*} , T. Selvalakshmi ^b , S. Sellaiyan ^c , K. Sivaji ^d , S. Sankar ^a ^A department Of Physics, MIT Campus, Anna University, Chennai -600044, India, ^B department Of Physics, The Standard Fireworks Rajaratnam College For Women, Sivakasi 626123, India, ^C division Of Applied Physics, University Of Tsukuba, Ibaraki 305-8573, Japan ^D department Of Nuclear Physics, Guindy Campus, University Of Madras, Chennai-600025, India,
CP121.	1653	Investigations On The Xanthene Dye Degradation And UV Protection Activity Of Covellite Cus Nanoparticles Ansel Mely L [*] , Annie Vinosha P, Jerome Das S Department Of Physics, Loyola College, Chennai – 600 034, India.
CP122.	1663	Fabrication Of Manganese Dioxide/Reduced Graphene Oxide Nanocomposites With Enhanced Electrochemical Performance For Supercapacitors D. Muthu Gnana Theresa Nathan ¹ And P. Sagayaraj ^{1*} ¹ Department Of Physics, Loyola College (Autonomous), Chennai – 600034, India
CP123.	1667	Investigation On Air Processed Organic Bulk Heterojunction Solar Cells Arulraj Arunachalam ^{1,3} , Bhuvaneshwari Selvaraj ^{2,3} , Senguttuvan Govindan ¹ And Ramesh Mohan ^{3*} ¹ University College Of Engineering- BIT Campus, Tiruchirappalli, Tamilnadu, INDIA ² Alagappa Government Arts College, Karaikudi, Tamilnadu, INDIA ³ CSIR- Central Electrochemical Research Institute, Karaikudi, Tamilnadu, INDIA
CP124.	1670	Cupric Oxide Magnetic Nanorods: Facile Synthesis And Applications For Enhanced Photo Degradation Of Organic Dye Narender Budhiraja ¹ , Sapna ¹ , Vinod Kumar ¹ , Monika Tomar ² , Vinay Gupta ³ , S.K. Singh ^{1,*} ¹ Department Of Physics, DCR University Of Science And Technology, Murthal, India ² Department Of Physics, Miranda House, University Of Delhi, Delhi, India ³ Department Of Physics And Astrophysics, University Of Delhi, Delhi, India
CP125.	1671	PREPARATION, CHARACTERIZATION AND POTENTIAL USE OF CORAL-LIKE HIERARCHICAL MAGNESIUM OXIDE (MGO) INCORPORATED FLY ASH NANOCOMPOSITE FOR THE ADSORPTION OF REACTIVE BLACK AZO DYE FROM AQUEOUS SOLUTION T.H. Vignesh Kumar ¹ , Hichamabououalid ² ¹ Research Institute, Department Of Chemistry, SRM University, Kattankulathur 603 203,

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		India ² Faculty of Sciences & Techniques, Hassan Iiuniversity, Casablanca B.P. 146, 20650, Morocco.
CP126.	1672	Optical Characterization Of Inverse Opals Jagadeesh Malla ¹ , Hareesh Chavana ¹ , R.Annie Sujatha ¹ , N.Angeline Little Flower ¹ , Pandian Chelliah ¹ , Mani Rahulan ¹ ¹ Affiliation: Department Of Physics And Nanotechnology, SRM University.
CP127.	1673	ELECTROCHEMICAL ANALYSIS OF CHLORINE LEVEL IN DISINFECTANT WATER USING SILVER AND NANO SILVER SCREEN PRINTED ELECTRODE Ashika S ¹ , Shabnam U ² , Smuruthi Kesavan ³ , Dr Kalpana R ⁴ , Mrs. Sudha S ⁵ ¹ Rajalakshmi Engineering College, Thandalam ⁵ Rajalakshmi Engineering College, Thandalam
CP128.	1674	SYNTHESIS OF COBALT NANOPARTICLES Mansiha Julius Ganesh ¹ , Bhaskarrao Yakkala ² ¹ Student ² Assistant Professor
CP129.	1675	Electric Field Induced Optical Gain In A Quaternary Group III-V Nitride Compound Semiconductor Quantum Dot For Fibre Optical Communication P.Uma Mageshwari ¹ , A. John Peter ^{2,*} ¹ Research Scholar, P.G & Research Department Of Physics, Govt.Arts College, Melur-625 106. Madurai. India. ² P.G & Research Department Of Physics, Govt.Arts College, Melur-625 106. Madurai. India.
CP130.	1677	Adsorption Kinetics In The Removal Of Chromium From Its Aqueous Solution Using Vermiculite Chitosan Composite. A.m.Soundarrajan.P.N. Sudha ^b ^A Department Of Chemistry, Valliammai Engineering College, Kattankulathur, 9176310682 ^B P.G.And Research Department Of Chemistry, D.K.M. College For Women, Vellore, India
CP131.	1679	Study On The Structure Dependent Optical Properties Of Solution Grown ZnO Nanostructures Anjana Kothari ¹ ¹ Dr. K C Patel Research And Development Centre (KRADLE), Charotar University Of Science And Technology (CHARUSAT), CHARUSAT Campus, Changa 388421, Anand, Gujarat
CP132.	1683	MORPHOLOGY DEPENDENCY OF ZnFe₂O₄ NANOPARTICLES ON STRUCTURAL, OPTICAL AND MAGNETIC PROPERTIES Sapna, Narender Budhiraja, Vinod Kumar And S.K. Singh* Department Of Physics, Deenbandhu Chottu Ram University Of Science & Technology, Murthal 131039, Haryana, India
CP133.	1684	Investigation On The Properties Of Zn Substituted CoFe₂O₄ nanoparticles In Photo-Fenton Degradation Annie Vinosha. P ¹ , Ansel Mely.L ¹ And Jerome Das. S ^{1,*} ¹ Department Of Physics, Loyola College, Chennai-600 034, India ¹ Department Of Physics, Loyola College, Chennai-600 034, India ^{1,*} Department Of Physics, Loyola College, Chennai-600 034, India
CP134.	1685	Electrochemical Detection Of Isoniazid Using Graphene Nanosheet And Silver

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		<p>Nanoparticle Composite. K. Thileep Kumar¹, E. Senthil Kumar¹, G. Sivagaami Sundari¹, S. Raghu^{2*}, And R.A. Kalaivani^{1*} ¹Department Of Chemistry, Vels University, Chennai, Tamil Nadu, India – 600 117. ²Vels Advance Energy Research Centre, Vels University, Chennai, Tamil Nadu, India – 600 117.</p>
CP135.	1689	<p>FIRST PRINCIPLE STUDY ON TMR EFFECT IN A-Mgo-A (A=Fe, Co AND Ni) MAGNETIC TUNNEL JUNCTION Aadhityan A¹ Preferential Kala C^{1*}, And John Thiruvadigal D¹ ¹Department Of Physics And Nano Technology, Center For Materials Science And Nanodevices, SRM University, Kattankulathur - 603 203. India.</p>
CP136.	1692	<p>Ternary Doping Of Boron, Phosphorus And Nitrogen Into Graphene For Enhancing The Electrochemical Application Of Supercapacitor E.Senthilkumar¹, V.Sivasankar¹, Kohakade R. B¹, M. Ramya¹, G. Sivagaami Sundari¹, K. Thileepkumar², S.Raghu^{2*} and R.A. Kalaivani^{1*} ¹Department of Chemistry, Vels University, Chennai, 600117, India. ² Vels Advanced Energy Research Centre, Vels University, Chennai, 600117, India</p>
CP137.	1693	<p>Finite Size Effect Of Mg²⁺ Ion Doped Mg_xCu_{1-x}Fe₂O₄ (0.0≤x≤1.0) Ferrite Nanoparticles Umang¹, Shruti¹, Neha¹, Suman B. Kuhar², Ashok Kumar¹ ¹Department of Physics, DCR University of Science & Technology, Murthal, Sonapat, Haryana-131039, India ²Institute of Higher Learning, BPS Mahila vishavvidalaya, Khanpur Kalan,131305, Haryan, India</p>
CP138.	1695	<p>SELF-AGGREGATION OF IONIC AQUEOUS SURFACTANTS WITH ADDITIVES MIXED MICELLES – DIELECTRIC SPECTROSCOPIC STUDY T. Kalaivani & S. Krishnan* Department of Physics & Nanotechnology, SRM University, Kattankulathur 603 203 Tamilnadu, India *Department of Physics, Annamalai University, Annamalainagar 608 002. Tamilnadu, India.</p>
CP139.	1699	<p>Optical Properties Of (CH₃NH₃)_{1-x}Cs_xPbI₃ Perovskite R. Mohan¹, Dacha Omprakash¹, Jada Shanker¹, D. Suresh Babu^{1,2,*} ¹Department of physics, Osmania University, Hyderabad-500007, India. ²Avanathi Institute of Engineering and technology, Hyderabad, India.</p>
CP140.	1700	<p>Effect of Fe doping on Structural, Electrical and Optical Properties of Y_{0.9}Bi_{0.1}Mn_{1-x}Fe_xO₃ Poornima S. Sengunthar¹ and U.S.Joshi¹ Department of Physics, School of Sciences, Gujarat University, Ahmedabad-380 009</p>
CP141.	1701	<p>Invention and Development of Miniaturized Low Voltage Triangular RF MEMS Switch for Phased Array Application Anitha Gopalan¹, Usha Kiran Kommuri² ¹VIT University, Chennai Campus, Chennai ²VIT University, Chennai Campus, Chennai</p>
CP142.	1703	<p>Effect Of Thiourea Concentration On Covellite Structured CuS And Its Electrochemical Behaviour S. Shobana Devi¹, S. Nandhini² and G. Muralidharan^{1*} ^{1,2}Department of Physics, Gandhigram Rural Institute- Deemed University, Dindigul, Tamil nadu, India</p>
CP143.	1704	<p>Study of Spray Pyrolysis Deposited Nanocrystalline CdZnS Thin Films for solar cell</p>

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		<p>Applications S Rajathi¹, R Vasuki², N Sankarasubramanian³, and M Senthamizhselvi⁴ ^{1,2,3,d}Thinfilm Research Laboratory, Department of Physics, Thiagarajar College of Engineering, Madurai – 625 015, Tamilnadu, India</p>
CP144.	1706	<p>Synthesize, Characterization and Evaluation of Antibacterial Activity of Electrospun PCL Mats Bio Functionalized With Gymnemagenin for Wound Dressing Applications Raghavendra Ramalingam¹, Sathesh Kumar Annamalai², Kantha Deivi Arunachalam^{3*} Mohammed Kamruddin⁴ Center for Environmental Nuclear Research & Department of Physics and Nanotechnology, SRM University, Kattankulathur- 603203, Tamilnadu. E-mail: Center for Environmental Nuclear Research, SRM University, Kattankulathur- 603203, Tamilnadu. Center for Environmental Nuclear Research, SRM University, Kattankulathur- 603203, Tamilnadu. Nanomaterials & Characterization Section, Surface and Nanoscience Division, MSG, IGAR, Kalpakkam- 603102, Tamilnadu</p>
CP145.	1707	<p>SCAFFOLD LIKE COLLAGEN/Zn-Mg-SUBSTITUTED HYDROXYAPATITE COMPOSITE COATING ON TITANIUM ALLOY FOR ORTHOPAEDIC APPLICATIONS N.Murugan¹, Anandhakumar Sundaramurthy^{1,2} and Ashok K. Sundramoorthy^{1*} ¹SRM Research Institute & Department of Chemistry, SRM University, Kattankulathur- 603203, Tamil Nadu, India ²Department of Physics and Nanotechnology, SRM University, Kattankulathur 603203, Kanchipuram, Tamil Nadu, India</p>
CP146.	1708	<p>ENHANCED CRITICAL TEMPERATURE MODELING AND ANALYSIS OF NIOBIUM AND YTTRIUM BASED JOSEPHSON JUNCTION SUPERCONDUCTING CIRCUITS J.Selvakumar¹, Anshul Tayal² ^{1,2}Department of ECE, SRM University, Kattankulathur 603 203</p>
CP147.	1712	<p>Structural and Optical Properties of Rare-Earth Eu-TiO₂ by Hydrothermal Method Mohamed Zikriya¹, Y F Nadaf², P. Vijai Bharathy³, C G Renuka^{1*} ¹Department of Physics, Bangalore University, Bengaluru-560056. ²Department of Physics and Research Centre, Maharani Science College for women's, Bengaluru-560001. ³Department of Physics, CBM college, Kovaipudur, Coimbatore – 641 042</p>
CP148.	1716	<p>Ultrasonic Decomposition Of Toluene For Deposition Of Carbon Nanostructures In Atmospheric Plasma Carol Roselyn Sequeira¹, Karthikeyan Murugesan¹, Rama B.R¹, Ricardo Rhine¹, Rachith S N^{1,2}, Dr. Habibuddin Shaik² ¹Department of mechanical Engineering, NMIT ²Centre for Nano materials and MEMS, NMIT</p>
CP149.	1723	<p>Electronic properties of Mn Doped GaN homobilayer Venus Sharma^{1*}, Sunita Srivastava^{1#} ¹Department of Physics, Panjab University, Sector 14, Chandigarh, 160014, India</p>
CP150.	1725	<p>Electrodeposition of HNT-M-HAP composite coatings on biocompatible Titanium alloy: <i>In vitro</i> biomineralization behavior M. Chozhanathmisra, R. Rajavel*</p>
CP151.	1729	<p><i>In situ</i> Synthesis of Nickel/Molybdenum carbide Anchored N-doped CNT/Graphitic Carbon Hybrid Nanostructures for Total Water Splitting</p>

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CP152.	1733	Molecular Imprinting Technology Based Biosensor for Digoxin: A Systematic Approach using Electrochemical Impedance Spectroscopy Shirinaz I. Khan^a , Rakesh R. Chillawar ^a , Kiran Kumar Tadi ^a , Ramani V. Motghare ^{a*} ^a Department of Chemistry, Visvesvaraya National Institute of Technology, Nagpur 440010 (M.S.), India
CP153.	1734	PURE AND TRANSITION METALS (Ni,Fe and co-doped Ni-Fe) DOPED TIN OXIDE (SnO₂) NANOPARTICLES Amutha.T¹, P. Lavanya² and K.Prabha³ ^{1,2,3} Department of Physics, Mother Teresa Women's University, Kodaikanal, Tamilnadu, India
CP154.	1737	Visible light Photoconductivity studies of pyrene based tetratopic ligands functionalized ZnO nanorods Surya E ¹ , David C ¹ , Elakia M ¹ , Surya V. J ^{1,2} , Kar J. P, Yuvaraj S ^{1,2*} ¹ Department of Physics and Nanotechnology, SRM University, India ² Research Institute, SRM University, India ³ Department of Physics, National Institute of Technology, Rourkela-769008, India
CP155.	1738	SILK FIBROIN CAPPED Cu, Zn and Cd-DOPED SnO₂ NANOPARTICLES FOR PURIFY THE ORGANIC POLLUTANTS K.Bhuvaneshwari, R. Divya Bharathi & T.Pazhanivel* Department of physics, Periyar University, Salem-11
CP156.	1739	EFFECT OF SELENIUM NANOPARTICLES ON LEVEL OF GLUTATHIONE PEROXIDASE ACTIVITY IN BROILER CHICKEN Aparna.N ¹ , Karunakaran.R ^{2*} , Parthiban.M ³ ^{1,2} Department of Animal Nutrition, Madras Veterinary College, Tamil Nadu Veterinary and Animal Sciences University, Chennai-7 ³ Department of Animal Biotechnology, Madras Veterinary College, Tamil Nadu Veterinary and Animal Sciences University, Chennai-7
CP157.	1740	Investigation of UV light driven ZnO/SnO/CuO hybrid nanoparticles for photocatalytic performance and antibacterial activity S. Vignesh and J. Kalyana Sundar* Materials Science Laboratory, Department of Physics, Periyar University, Salem-636 011
CP158.	1743	Synthesis and Characterization of Ce doped Tin oxide (SnO₂) nanoparticles P.M.R.Mani Bharathi ¹ , M. Rameshbabu ² and K.Prabha ^{3*} ^{1,3} Department of Physics, Mother Teresa Women's University-Kodaikanal-Tamilnadu, India ² Department of Physics, ArulmiguPalaniandavar College for Arts and Culture, Palani, Tamilnadu, India
CP159.	1744	Enhancing the efficiency of Core/shell TiO₂/ZnO nanostructures based dye-sensitized solar cells N. Rajamanickam ^{*1} , S.S. Kanmani ² , K. Jayakumar ¹ , K. Ramachandran ² ¹ Nanostructure Lab, Dept. of Physics, Gandhigram Rural Institute - Deemed University, Dindigul – 624 302, TN, India [*] nrajamku@gmail.com ² Dept. of Physics, Hindusthan College of Engineering and Technology, Coimbatore - 641 032, TN, India
CP160.	1746	SYNTHESIS OF ZNO NANORODS FOR FABRICATION OF

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CP161.	1749	<p>INVESTIGATIONS ON PREPARATION AND CHARACTERISATION OF SULPHIDE NANO THIN FILMS USING DIFFERENT CHEMICAL TECHNIQUES S. Jayasankari¹, Dr. P. Mani², R. Kumar¹, P. Baskaran¹, K. Ramaganesan¹ ¹Research Scholars, Department of Physics, Anna University – BIT Campus, Tiruchirappalli – 620 024 ²Asst. Prof. in Physics, Anna University – BIT Campus, Tiruchirappalli – 620 024</p>
CP162.	1750	<p>Preparation of Graphene Nanoplatelets/Silver Nanorod Based Hybrid Nanocomposite Film for Electrocatalytic Oxidation of Important Biomolecules Varsha Sharma¹, Anandhakumar Sundaramurthy^{1,2} and Ashok K. Sundramoorthy^{1,3*} 1 SRM Research Institute, SRM University, Kattankulathur- 603203, Kanchipuram, India. 2 Department of Physics and Nanotechnology, SRM University, Kattankulathur- 603203, Kanchipuram, India. 3 Department of Chemistry, SRM University, Kattankulathur- 603203, Kanchipuram, India.</p>
CP163.	1751	<p>Theoretical Studies on Protonated POSS-Water Clusters for Fuel Cell Applications <u>Muthuramalingam Prakash*</u>¹, Swaminathan Shanmugan*¹ and Majdi Hochlaf*² ¹Department of Chemistry and Research Institute, SRM University, Kattankulathur 603203, Tamil Nadu, India ²Laboratoire Modélisation et Simulation Multi Echelle, MSME UMR 8208 CNRS, Université Paris-Est, 77454 Marne la Vallée Cedex 2, France</p>
CP164.	1752	<p>A Green Synthesis Of Luminescent Carbon Quantum Dots From Jack Fruit (<i>Artocarpusheterophyllus</i>) And It's Sensing Of Hg (Ii) And Cr (Vi) Ions Rajendiran Nagappan* and <u>Rajendran Kalimuthu</u> Department of Polymer Science, University of Madras, Guindy Campus, Chennai-600 025, Tamil Nadu, India.</p>
CP165.	1755	<p>Synthesis, structural, microstructural and electrical properties of Sr²⁺ and Gd³⁺ co-doped Ceria electrolyte system for LT-SOFC Koteswararao P*¹, M Buchi Suresh², B N Wani³, P V Bhaskara Rao⁴, P. Varalaxmi⁵ ¹Department of physics, Institute of Aeronautical engineering college, Dundigal, Hyderabad, Telangana. ²Center for Ceramic Processing, International Advanced Research Centre for Powder Metallurgy and New Materials (ARCI), Hyderabad-500005, AP, India. ³Chemistry Division, Bhabha Atomic Research Centre, Trombay, Mumbai, Physics Department, ⁴St. Mary's Engineering College, Deshmukhi, R.R (DT), ⁵Department of physics, Anurag engineering college, Hyderabad, Telangana.</p>
CP166.	1756	<p>EFFECT OF <i>IN OVO</i> SUPPLEMENTATION OF NANO TRACE MINERALS ON SERUM MINERAL STATUS IN BROILER CHICKEN P. Patric Joshua,¹ C. Valli,² and V. Balakrishnan³ ¹Veterinary Officer, Central Animal House, Sri Muthukumaran Medical College Hospital and Research Institute, Chikarayapuram, Chennai-69 patricvet@gmail.com ²Professor and Head, Institute of Animal Nutrition, PGRIAS campus, Kattupakkam valliviba@yahoo.co.in ³Retd., Professor and Head, Department of Animal Nutrition, Madras Veterinary College, Chennai – 7</p>

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CP168.	1760	<p>OPTICAL CONSTANTS OF BRUSH ELECTRODEPOSITED CuInTe₂ FILMS A.Panneerselvam^{1*}, P.Muthusamy², K.R.Murali³ ¹Department of Physics, Paavai Engineering College, Pachal, Namakal, India. ²Research Scholar, Department of Physics, Anna University, Chennai, India ³Department of Theoretical Physics, University of Madras, Chennai, India.</p>
CP169.	1761	<p>Photophysical investigation on tungstate based nanocomposites for gas Sensing G. Palanisamy and T. Pazhanivel* Smart materials interface laboratory, Department of Physics, Periyar University, Salem - 636 011</p>
CP170.	1762	<p>Photocatalytic and antibacterial activities of Ce, Ni-doped and Codoped CdS nanoparticles Ranjith Rajendran, Krishnakumar Varadharajan* Department of Physics, Periyar University, Salem, India</p>
CP171.	1763	<p>Nano-scale Lubrication using ionic liquid: A Molecular Dynamics Study Sanchari Bhattacharjee¹, Dr. Sandip Khan² ^{1, 2} Department of Chemical & Biochemical engineering, Indian Institute of Technology Patna</p>
CP172.	1764	<p>Adsorption Of Anionic And Cationic Dyes From Aqueous Solution Unto Phosphoric Acid Modified Eichhornia Crassipes: Equilibrium, Kinetics, Thermodynamic, Regeneration And Reuse Studies S.Kalai Selvi¹, N.Suganthi² ¹Department of Chemistry, Velalar College of Engineering and Technology, Erode ²Department of Chemistry, L.R.G Govt Arts College for Women, Tirupur.</p>
CP173.	1765	<p>Fe₃O₄-Lignin@Pd: A Core-Shell Supported Pd Nanoparticles For Applications in C-C Coupling Reactions Marulasiddeshwara M. B. and Raghavendra Kumar P*. Department of Chemistry, UCS, Tumkur University, Tumkur-572103, Karnataka, India</p>
CP174.	1766	<p>Assembly of Hierarchically Mesoporous ZnSnO₃ Nanorod as a High-Performance Anode Material for Lithium Ion Batteries P. Santhoshkumar¹, K. Prasanna¹, Pandiyarasan Veluswamy², Suk Hyun Kang¹, Hiroya Ikeda², Chang Woo Lee^{1*} ¹Department of Chemical Engineering, College of Engineering, Kyung Hee University, 1732 Deogyong-daero, Gihung, Yongin, Gyeonggi 17104, South Korea. ²Research Institute of Electronics, Graduate School of Science and Technology, Shizuoka University, Hamamatsu, Japan-4328011.</p>
CP175.	1767	<p>Dielectric relaxation of ceria nanocrystals using modulus formalism T. Prakash^{a,*}, T. Subashini^a and S.N. Suraiya Begum^b ^a National Centre for Nanoscience and Nanotechnology, University of Madras, Guindy Campus, Chennai, Tamil Nadu 600 025, India ^b Department of Applied Science and Technology, Anna University, Chennai, Tamil Nadu 600 025, India</p>
CP176.	1771	<p>Single Molecule Transistor: Understanding the role of Metal - Molecule Coupling RM. Hariharan, H. Bijo Joseph and D. John Thiruvadigal</p>

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CP177.	1773	<p>A549 activity of cadmium selenide nanoparticles extracted from cytotoxic effects: Investigation of bio-electronic application</p> <p>K. Kaviyarasu^{1,2*}, K. Kanimozhi³, C. Maria Magdalane⁴, J. Kennedy⁵, M. Maaza²</p> <p>¹Sri Sankara Arts & Science College (Autonomous), Enathur, Kancheepuram – 631561. ²Materials Research Group (MRG), iThemba LABS/NRF, Western Cape, South Africa. ³PG Research & Department of Chemistry, Auxilium College (Autonomous), Vellore, India. ⁴LIFE, Department of Chemistry, Loyola College (Autonomous), Chennai 600034 India. ⁵National Isotope Centre, GNS Science, Lower Hutt 5010, New Zealand</p>
CP178.	1777	<p>Hydrogenation by UV-Illuminated CeO₂/CdO Multilayered Nanoplatelet Arrays: Investigation of Antifungal and Antimicrobial activities</p> <p>C. Maria Magdalane^{a,b}, K. Kaviyarasu^c, J. Judith Vijaya^d, B. Jeyaraj^{b*}</p> <p>^aDepartment of Chemistry, St. Xavier's College (Autonomous), Tirunelveli 627002 India. ^bLIFE, Department of Chemistry, Loyola College (Autonomous), Chennai 600034 India. ^cSriSankara Arts & Science College (Autonomous), Enathur, Kancheepuram – 631561. ^dCatalysis and Nanomaterials Research Laboratory, Department of Chemistry, Loyola College (Autonomous), Chennai 600034 India.</p>
CP179.	1781	<p>Vertical Standing MoS₂ Nanosheets by CVD for high performance Electrocatalytic Hydrogen Evolution Reaction</p> <p>Paulraj Gnanasekar¹, Dharmaraj Periyangounder¹, Anbarasan Nallathambi¹, Jeganathan Kulandaivel¹.</p> <p>Centre for Nanoscience and Nanotechnology, School of Physics, Bharathidasan University, Tiruchirappalli-620024, Tamil Nadu, India</p>
CP180.	1782	<p>Development of Static and Dynamic Magnetic Fluid Seal</p> <p>Saurabh Parmar and Kinnari Parekh*</p> <p>Dr. K C Patel R & D Center, Charotar University of Science & Technology, Changa 388 421, Dist. Anand, Gujarat, India</p>
CP181.	1784	<p>Structural Properties and Electrical Conduction Mechanisms In Bi_{0.9}Sm_{0.5}Tb_{0.5}FeO₃ Thin Films Prepared by Hydrothermal Method</p> <p>S. Ruby^{1,2}, S.S.R. Inbanathan^{1*}, K. Kamala Bharathi^{3,*}</p> <p>¹Post Graduate and Research Department of Physics, The American college, Madurai-625002, India ²Research Scholar, Mother Teresa Women's University, Kodaikanal-624102, India. ³Department of Chennai 603203, India Physics and Nanotechnology, Research Institute, SRM University, Kattankulathur,</p>
CP182.	1785	<p>Search For Thermoelectricity In Li-Based Half-Heulser Compounds: A DFT Study</p> <p>Anuradha¹, Kulwinder Kaur² and Ranjan Kumar Panjab University, Chandigarh-160014</p>
CP183.	1787	<p>Study of Thermal and Magnetic Properties of Cu Doped NiO Nanoparticles</p> <p>Varunkumar K. and Anita Sagadevan Ethiraj*</p> <p>Centre for Nanotechnology Research, VIT University, Vellore 632014, Tamil Nadu, India</p>
CP184.	1789	<p>Optical Properties of Dip Coated Titanium-di-oxide (TiO₂) Thin Films Annealed at Different Temperature</p> <p>Sayari Biswas*, Asit Kumar Kar</p> <p>Micro and Nano-science Laboratory, Department of Applied Physics, Indian Institute of Technology (Indian School of Mines), Dhanbad-826004, Jharkhand, India.</p>
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CP186.	1793	<p>Structural and magnetic property modulation in Y:Ni amorphous alloy Gopalakrishnan Chandrasekaran^{1*}, Kanasani Venkat Vishak Naidu², Surabhi Shaji³, Anuraj Sundararaj¹, E Meher Abhinav¹ ¹Nanotechnology Research Centre, SRM University, Kanchipuram – 603203, Tamilnadu, India. ²SATIE, Ecole normale supérieure, Cachan Cedex - 94235, France ³Mechanical department, North Carolina Agricultural and Technical State University, Greensboro, NC 27401, USA</p>
CP187.	1794	<p>Synthesis and Characterization of Polyaniline/Co_{0.5}Zn_{0.5}Fe₂O₄ Nanocomposites for Electromagnetic Interference Shielding Applications Gurusiddesh .M¹, Madhu .B .J^{2*}, Shankaramurthy.G .J³, Jayanna .H.S ¹Department of Physics, Visvesvaraya Technological University RRC, Belagavi – 590018, India. ²Post Graduate Department of Physics, Government Science College, Chitradurga- 577 501, India. ³Department of Physics, UBDT College of Engineering, Davanagere – 577 004, India. ⁴Department of Physics, Kuvempu University, Shankaraghatta -577 451, India.</p>
CP188.	1796	<p>200 MeV Ag¹⁵⁺ SWIFT HEAVY ION BEAM INDUCED PROPERTY MODIFICATIONS OF Nb₂O₅ THIN FILMS BY FLUENCE VARIATION Rathika R¹, Kovendhan M^{2*}, Paul Joseph D³, Venkateswaran C⁴, Asokan K⁵, and Johnson Jeyakumar S^{1*} ¹Department of Physics, TBML College, Porayar – 609307, India. ²Department of Environmental Engineering, Inha University, Incheon 402-751, South Korea. ³Department of Physics, National Institute of Technology, Warangal, – 506004, India. ⁴Department of Nuclear Physics, University of Madras, Chennai – 600025, India. ⁵Inter university Accelerator Centre, Aruna Asaf Ali Marg, New Delhi - 110 067, India.</p>
CP189.	1802	<p>Fabrication and characterization of Chitosan/PVA/Methyl Cellulose-nanocellulose composite films K. Kanimozhi^a, S. KhaleelBasha^b, V. SuganthaKumari^{a*}, a Department of Chemistry, Auxilium College, Vellore 632 006, India b Department of Chemistry, C. Abdul Hakeem College, Melvisharam 632 509, India</p>
CP190.	1803	<p>Chemical Oxidative Synthesis and Characterization of Camphor Sulfonic Acid Doped Polycarbazole P.Praveena¹, T.Sivaranjani¹, D.Sangamithirai¹, T. A. Revathi¹, S. Dhanavel¹, V. Narayanan², and A. Stephen¹ ¹Department of Nuclear Physics, University of Madras, Guindy Campus, Chennai-25, India. ²Department of Inorganic Chemistry, University of Madras, Guindy Campus, Chennai-25, India.</p>
CP191.	1804	<p>Supercritically Dried Silica Aerogel Films Swati Gupta, Anil Gaikwad and Ashok Mahajan[*] Materials and Devices Laboratory for Nanoelectronics, Department of Electronics, School of Physical Sciences, North Maharashtra University, Jalgaon (MS), India</p>
CP192.	1809	<p>Synthesis of Allicin Loaded Chitosan Nanospheres and its Drug Release Study for the Reduction of Blood Cholesterol Level</p>

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CP193.	1810	INFLUENCE OF HEAT TREATMENT TEMPERATURE ON THE PROPERTIES OF SPIN COATED ZnO THIN FILMS M. Senthamizh Selvi ¹ , N. Sankarasubramanian ² , S. Rajathi ³ & R. Vasuki ⁴ ^{1,2,3,4} Department of Physics, Thiagarajar College of Engineering, Madurai 625 015. India
CP194.	1814	Superficial Synthesis of Monodispersed Silver Nanoparticles as a Candidate for Therapeutic Applications G. Aarthi ¹ , K.D. Nisha ¹ and S. Ponnusamy ^{1*} ¹ Department of Physics and Nanotechnology, SRM University, Kattankulathur, India
CP195.	1816	BCN based oil coatings for mild steel under aggressive chloride ion environment S Arunkumar, V Jegathish, R Soundharya, M JesyAlka and Sundar Mayavan* CSIR – Central Electrochemical Research Institute, Karaikudi.
CP196.	1822	Effect of annealing temperature and annealing duration on the physical properties of Nickel Ferrite nanoparticles synthesized by co-precipitation method Sarathbavan Murugan ¹ , Ramamurthi Kandasamy ^{1*} , Mudaliar Mahesh Margoni ¹ , Mathuri Selvarajan ¹ , Kamala Bharathi K ² ¹ Crystal Growth and Thin Film Laboratory, Department of Physics and Nanotechnology, SRM University, Kattankulathur – 603 203, Kancheepuram Dt., Tamil Nadu, India. ² Research Institute, Department of Physics and Nanotechnology, SRM University, Kattankulathur -603203, Kancheepuram Dt., Tamil Nadu, India.
CP197.	1824	Concentration of Citric Acid in the Synthesis and Characterization of Cobalt Ferrite (CoFe₂O₄) Nanoparticles by Sol –Gel Technique. Gangothri.S.Kumar, Anugraha.A., Lakshmi.V.K, K S Rajni* Department of Sciences, Amrita School of Engineering, Amrita Vishwa Vidyapeetham, Amrita Nagar, Ettimadai, Coimbatore – 641 112
CP198.	1826	Studies on Dislocations and Surface Morphologies of Gallium Nitride Epilayer Grown on Sapphire Substrates by Wet Chemical Etching S. Sanjay ¹ , K. Prabakaran ¹ , K. Baskar ^{1,2*} ¹ Crystal Growth Centre, Anna University, Chennai – 600 025, Tamil Nadu, India
CP199.	1827	Influence of O₂-Ar partial pressure on the Structural, Morphological and Transport Properties of Sputter Deposited ITO Nano-rods T. Arockiadoss ¹ , M. Kovendhan ² , D. Paul Joseph ^{3*} , A. Sendilkumar ⁴ , Byung Chun Choi ⁵ and K.S. Shim ⁶ ¹ Department of Physics, Directorate of Distance Education, Madurai Kamaraj University, 625021, India. ² Department of Physics, Presidency College, Chennai – 600005, India. ³ Department of Physics, National Institute of Technology, Warangal, Telangana, 506004, India. ⁴ School of Physics, University of Hyderabad, Gachibowli, Hyderabad 500046, India. ⁵ Department of Physics, Pukyong National University, Busan-608 737, South Korea. ⁶ Cooperative Laboratory Center, Pukyong National University, Busan-608 737, South Korea
CP200.	1830	HIGHLY POROUS CeO₂ NANOSTRUCTURES PREPARED VIA COMBUSTION SYNTHESIS FOR SUPERCAPACITOR APPLICATIONS

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		K. Prasanna, I. NirmalSivagami, P. Santhoshkumar, Suk Hyun Kang, Yong Nam Jo, YounCheol Joe, Chang Woo Lee* Department of Chemical Engineering, College of Engineering, Kyung Hee University, 1732 Deogyong-daero, Gihung, Yongin, Gyeonggi 17104, South Korea
CP201.	1834	Photonic Delay Lines based on Silicon Coupled Resonator Optical Waveguide Structures Rohan Katti ¹ , Shanthi Prince ² ¹ Research Scholar, Department of Electronics and Communication Engineering SRM University, SRM Nagar, Kattankulathur – 603203, Tamilnadu Email: rohankatti23@gmail.com ² Professor, Department of Electronics and Communication Engineering SRM University, SRM Nagar, Kattankulathur – 603203, Tamilnadu
CP202.	1835	COMPARATIVE STUDY OF XEROGEL, AEROGEL AND POROGEN BASED POROUS LOW-k FILMS Anil Gaikwad, Swati Gupta and Ashok Mahajan* Materials and Devices Laboratory for Nanoelectronics, Department of Electronics, School of Physical Sciences, North Maharashtra University, Jalgaon (MS), India
CP203.	1836	Structural and Optical Properties of CdS, CdZnS and CdAIS thin films deposited by Chemical Spray Pyrolysis Technique S Rajathi ¹ , R Vasuki ² , N Sankarasubramanian ³ , and M Senthamizhselvi ⁴ ^{1,2,3,d} Thinfilm Research Laboratory, Department of Physics, Thiagarajar College of Engineering, Madurai – 625 015, Tamilnadu, India
CP204.	1837	Microwave absorption studies of novel isocyanurates toughened epoxy Nanocomposites for stealth application Santhosh Jeferson ¹ , Mandhakini ¹
CP205.	1840	Vo_x@CNanofibers As A Promising Anode Material For Lithium-Ion Batteries JeevaniRagupathi and Helen Annal Therese* Nanotechnology Research Centre, SRM University, Kattankulathur, Kancheepuram(dt)-603203, Tamilnadu, India.
CP206.	1841	MoO_x@C Nanofibers For Energy Storage Application Helen Annal Therese ^{1*} , Ramesha Kannadka ² and Kumuthini Ramachandran ¹ ^{1*} Nanotechnology Research Centre, SRM University, Kattankulathur-603203, Tamil Nadu, India ² CSIR CECRI-MadrasUnit, CSIR Madras Complex, Taramani, Chennai - 600113, Tamil Nadu, India
CP207.	1845	Nanostructured Co₃O₄/CNT and Co₃O₄/rGO hollow spherical composites as high capacity anodes for lithium ion batteries T. Kesavan, ^a C. Senthil, ^a T. Partheeban, ^a Nanda Gunawardhana ^b and M. Sasidharan ^{a*} ^a SRM Research Institute, Department of Chemistry, SRM University, Kattankulathur, Chennai 603 203, India. ^b International Research Center, Senate Building, University of Peradeniya, Peradeniya, 20400, Sri Lanka
CP208.	1846	Salvinia Inspired Fluorine Free Superhydrophobic Coatings Anitha Chandrasekaran, ^{1,2} Syed Azim Syed Sulthan ^{1,2} and Sundar Mayavan ^{3,*} ¹ Corrosion and Materials Protection Division, CSIR – Central Electrochemical Research Institute, Karaikudi. Academy of Scientific and Innovative Research, New Delhi.

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		^{3,*} Lead Acid Battery Section, Electrochemical Power Sources Division, CSIR – Central Electrochemical Research Institute, Karaikudi
CP209.	1847	Gamma-irradiation Effects on AlInGaN/AlN/GaN heterostructures grown by MOCVD Pradeep Siddham ¹ , Surender Subburaj ¹ , Prabakaran Kandhasamy ¹ , Loganathan Ravi ¹ , Shubra Singh ¹ , Asokan Kandasami ³ and Baskar Krishnan ^{1,2} ¹ Crystal Growth Centre, Anna University, Chennai, India ² Manonmaniam Sundaranar University, Tirunelveli, India ³ Inter-University Accelerator Centre, New Delhi, India
CP210.	1849	BINDING ENERGY OF A DONOR IN CONCENTRIC DOUBLE QUANTUM RING STRUCTURE A.Esther Lidiya ¹ , I. Janet Sherly ² and P. Nithiananthi ³ Nanostructure Lab, Department of Physics, The Gandhigram Rural Institute – Deemed University, Gandhigram – 624 302, Tamil Nadu, India
CP211.	1850	Effect of Aluminum Doping on the Opto-Electronic Properties of SnO₂ Thin Films P. Karthick ^{1,2} , Archana Seshadri ² , C. Gopalakrishnan ³ , C. Sanjeeviraja ⁴ and K. Jeyadheepan ^{1,2,*} ¹ Multifunctional Materials & Devices Lab, Anusandhan Kendra – II, SASTRA University, Tirumalaisamudram, Thanjavur – 613 401, India ² School of Electrical and Electronics Engineering, SASTRA University, Tirumalaisamudram, Thanjavur – 613 401, India ³ Nanotechnology Research Centre, SRM University, Kattangulatur, Kancheepuram – 603 203, India. ⁴ Department of Physics, AlagappaChettiar College of Engineering and Technology, Karaikudi – 630 004, India
CP212.	1851	EFFECTS OF SONICATION TIME AND VOLUME CONCENTRATION OF Al₂O₃/WATER NANOFLUID ON THE EFFICIENCY OF PV/T SOLAR SYSTEM Gangadevi.R ¹ , Vinayagam B.K ² , Senthilraja.S ³ ¹ Department of Mechatronics Engineering, SRM University, Kattankulathur, Chennai. ² Department of Mechatronics Engineering, SRM University, Kattankulathur, Chennai. ³ Department of Mechatronics Engineering, SRM University, Kattankulathur, Chennai
CP213.	1854	INFLUENCE OF Ce DOPING ON CuO NANOPARTICLES SYNTHESIZED BY MICROWAVE IRRADIATION METHOD M. Ponnar, C.Thangamani and K. Pushpanathan* <i>Nanomaterials Research Laboratory, Department of Physics, Government Arts College, Karur -639 005, India</i>
CP214.	1860	Synthesis and Electrochemical Properties of Cu / Activated Carbon Nanocomposites Murali Gunasekaran^a, S. Ponnusamy^{b,*}, Niraj Kumar^b ^a Nanotechnology Research Centre, SRM University, Kattankulathur-603203, India ^b Department of Physics and Nanotechnology, SRM University, Kattankulathur-603203, India
CP215.	1861	Synthesis and Characterization of La_{0.6}Sr_{0.4}Co_{0.2}Fe_{0.8}O_{3-δ} – Ce_{0.8}Gd_{0.1}Sm_{0.1}8O_{1.9} Perovskite Nanocomposite Cathode Material for Solid Oxide Fuel Cells Ajith Kumar Soman ¹ , Kuppusami Parasuraman ^{1,2} and Arul Maximus Rubel ² ¹ Centre of Excellence for Energy Research, Sathyabama University, Chennai, India ² Centre for Nanoscience and Nanotechnology, Sathyabama University, Chennai, India
CP216.	1866	Hydrothermally Grown Vertically Aligned Nanorod Structured Vanadium Pentoxide Thin Films for Electrochromic Application Mudaliar Mahesh Margoni ¹ , S. Mathuri ¹ , K. Ramamurthi ^{1,*} , R. Ramesh Babu ² , K. Sethuraman ³ ¹ Crystal Growth and Thin Film Laboratory, Department of Physics and Nanotechnology,

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		Faculty of Engineering and Technology, SRM University, Kattankulathur – 603 203, Kancheepuram Dt., Tamil Nadu, India. ² Crystal Growth and Thin Film Laboratory, Department of Physics, Bharathidasan University, Tiruchirappalli – 620024, Tamil Nadu, India. ³ School of Physics, Madurai Kamaraj University, Madurai – 625 021, Tamil Nadu, India.
CP217.	1867	Microwave Assisted Annealing of Metal Organic Decomposed Lanthanum Cerium Oxide: A Case Study Viral N. Barhate, Khushabu S. Agrawal, Vilas S. Patil, Sumit R. Patil, Ashok M. Mahajan* Department of Electronics, North Maharashtra University, Jalgaon, M.S, India-425001
CP218.	1868	Thermally Stable Al-doped Silver Films with High Reflectivity for LED BackReflectors ChadrasekharLoka, Kwang Lee, Sin Yong Joo, and Kee-Sun Lee* Department of Advanced Materials Engineering & Smart Natural Space Research Center, Kongju National University, Cheonan-331080, Republic of Korea
CP219.	1869	Hydrothermal Assisted Growth of Vertically Aligned Platelike structures of WO₃ Films on Transparent Conducting FTO Substrate for Electrochromic Performance S. Mathuri ¹ , Mudaliar Mahesh Margoni ¹ , K. Ramamurthi ¹ , R. Ramesh Babu ² ¹ Crystal Growth and Thin Film Laboratory, Department of Physics and Nanotechnology, Faculty of Engineering and Technology, SRM University, Kattankulathur – 603 203, Kancheepuram Dt., Tamil Nadu, India, ² Crystal Growth and Thin Film Laboratory, School of Physics, Bharathidasan University, Tiruchirappalli - 620024, Tamil Nadu, India
CP220.	1871	Superparamagnetic Behaviour of Iron Storage Protein Ferritin Navneet Kaur ¹ , S.D. Tiwari ² ¹ School of Physics & Materials Science, Thapar University, Patiala 147004, India navneetkaur@thapar.edu ² School of Physics & Materials Science, Thapar University, Patiala 147004, India
CP221.	1872	Effective Control on Redox Reaction to Enhance Photocatalytic Dye Degradation Using ZnO Nanorods Kumaresan Natesan ¹ , Maria Angelin Sinthiya ¹ , Ramamurthi Kandasamy ^{1*} , Ramesh Babu Ramraj ² ¹ Crystal Growth and Thin Film Laboratory, Department of Physics and Nanotechnology, Faculty of Engineering and Technology, SRM University, Kattankulathur-603 203, Kancheepuram Dt., Tamil Nadu, India ² Crystal Growth and Thin Film Laboratory, School of Physics, Bharathidasan University, Tiruchirappalli-620 024, Tamil Nadu, India
CP222.	1873	Lithium Intercalation Studies in Titanium Carbide Thin Films Vishnu Dev ¹ ¹ Research Assistant, Indian Institute of Science, Bangalore – 560 012
CP223.	1876	D-LEVULOSE MEDIATED SYNTHESIS OF SILVER NANOPARTICLES AND THEIR CHARACTERIZATION. Ms.A.J.Patricia, Dr.M.Umadevi Mahalingam Department Of Physics, Mother Teresa Women's University, Kodaikanal.
CP224.	1878	Origin of Ferromagnetism in Co-Fe codoped SnO₂ Nanoparticles RenuRajan and R. EzhilVizhi* <i>Materials Research Laboratory, Department of Physics, School of Advanced Sciences, VIT University, Vellore, Tamilnadu, India</i>

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CP225.	1880	<p>Initial Stages of Film Formation by Size-selected Ag-Clusters in Softlanding approximation</p> <p>Debasree Chowdhury^{1*}, Pintu Barman¹, Shyamal Mondal^{1,2}, S. R. Bhattacharyya¹</p> <p>¹SP&MS Division, Saha Institute of Nuclear Physics, Sector-1, Block-AF, Bidhan Nagar, Kolkata- 700064, India</p> <p>²Dept. Of Physics, M. M. C. College, 20 Ramkanto Bose Street, Kolkata- 700101, India</p>
CP226.	1881	<p>Fabrication and photovoltaic studies of SnS/ZnO Hybrid Structure Based Thin Film Solar Cells</p> <p>Benjamin Hudson Baby¹, Namita Behera¹, Anil Kumar Pal¹, K. Sreejith² and D. Bharathi Mohan¹</p> <p>¹Department of Physics, School of Physical, Chemical and Applied Sciences, Pondicherry University, Kalapet, Pondicherry -605014, India</p> <p>²Department of Physics and Nanotechnology, SRM University, Chennai - 603203</p>
CP227.	1882	<p>Au⁷⁺ Ion Induced Nano-hillocks Formation in ZnO Thin Films</p> <p>Vidya U. Kondkar¹, Deepti Rukade¹, D. Kanjilal² and Varsha Bhattacharyya¹</p> <p>¹Department of Physics, University of Mumbai, Mumbai-400098, India. vidya.kondkar@gmail.com, deepti.rukade@gmail.com, varsha@physics.mu.ac.in</p> <p>²Inter University Accelerator Centre, Aruna Asaf Ali Marg, New Delhi-11006, India.</p>
CP228.	1883	<p>Polyelectrolyte Capsules Preloaded with Interconnected Alginate matrix: An Effective Capsule System for Cancer Drug Delivery</p> <p>Anandhakumar Sundaramurthy^{1,2*}, Ashok K Sundramoorthy^{2,3}</p> <p>¹SRM Research Institute, SRM University, Kattankulathur- 603203, Kanchipuram, India.</p> <p>²Department of Physics and Nanotechnology, SRM University, Kattankulathur- 603203, Kanchipuram, India.</p>
CP229.	1884	<p>Dendritic Fibrous Nanosilica Supported Gold Nanoparticles (DFNS/Au) as Artificial Enzymes</p> <p>Rajesh Belgamwar,^{1,2} Rustam Singh,¹ Mahak Dhiman,¹ Vivek Polshettiwar^{1*}</p> <p>¹Nanocatalysis Laboratories (NanoCat), Department of Chemical Sciences, Tata Institute of Fundamental Research (TIFR), Mumbai, India.</p>
CP230.	1887	<p>Phase Formation, Surface Morphology and Optical Properties of Ag incorporated SnS nanocomposite films for Plasmonic Solar Cell Application</p> <p>Namita Behera and D. Bharathi Mohan*</p> <p>Department of Physics, School of Physical, Chemical and Applied sciences, R.V. Nagar, Kalapet, Puducherry-605014, India</p>
CP231.	1888	<p>Bandgap Tailored ZnO:InN Oxynitride for Photocatalytic Applications</p> <p>Sumithra Sivadas Menon^{1*}, Bhavana Gupta², K.Baskar^{1,3}, Gopal Bhalerao⁴, Shamima Hussain⁴, Shubra Singh^{1*}</p> <p>¹Crystal Growth Centre, Anna University, Chennai – 600025</p> <p>²Accelerator & Nanoscience Group-Materials Science Group, Indira Gandhi Centre for Advance Research, Kalpakkam - 603102</p>
CP232.	1889	<p>Electronic-transport Properties of XO (X=Fe, Cu, Eu, Mg) Monowire-based Molecular Device – A First-Principles Investigation</p> <p>Gowri Sankar PA¹</p> <p>¹Jeppiaar Engineering College, Anna University, Chennai, Tamilnadu, India</p>
CP233.	1891	<p>CTAB Assisted Solvothermal Preparation of Cu Doped SnS Nanoparticles for Thin Film Solar Cells</p> <p>Amrutha E G, Benjamin Hudson Baby and D. Bharathi Mohan</p> <p>¹ Department of Physics, School of Physical, Chemical and Applied Sciences, Pondicherry University, Kalapet, Pondicherry -605014, India</p>
CP234.	1892	<p>Donor Impurity In Spherical Core/ Shell Nanostructures: Effect</p>

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		<p>Of Impurity Location B. Anitha and P. Nithiananthi * Nanostructure Lab, Department of Physics, The Gandhigram Rural Institute-Deemed University, Gandhigram – 624302, Tamilnadu, India.</p>
CP235.	1894	<p>Dielectric and thermal analysis of Ni/NiO nanoparticles prepared by sol-gel method Ratchagar Vincent¹ and Jagannathan Karthikeyan² 1,2 Department of Physics, SRM University, City Campus, Vadapalani, Chennai-600026\</p>
CP236.	1895	<p>Investigation Of The Influence Of Tempertaure On The Structure And Surface Properties Of Layered Double Hydroxides Sreepriya P.S.^{1,2}, Shilpa Elza Sam^{1,2}, Sujata Mandal¹ 1 Central Sophisticated Instruments Facility, Inorganic and Physical Chemistry Division CSIR-Central Leather Research Institute, Chennai, India 2 Department of Chemistry, Marthoma College, Thiruvalla, Kerala</p>
CP237.	1897	<p>Preparation and Characterization of Silver Coated TiO 2 Nano Crystallites for Photovoltaic (Dssc) Applications Sakthivel Thirupathi¹, Rajajeyaganthan Ramanathan¹, Jagannathan Karthikeyan¹ 1 Department of Physics, SRM university, Vadapalani campus. Chennai-26</p>
CP238.	1898	<p>Enhanced dielectric constant and energy density of quenched PVDF- CCTO nanocomposite films Shobhneek kaur¹, Amit Lochan Sharma², Ashok kumar³ and Dwijendra Pratap Singh¹ 1 School of Physics and Materials Science, Thapar University, Patiala-147004, India 2 Thin Film Group, CSIR-CSIO, Chandigarh (160030), India 3 CSIR-National Physical Laboratory, Delhi (110012), India</p>
CP239.	1899	<p>Catalytic Effect on Pyrolytic Growth of Carbon Nanospheres for Application in Lithium-Ion Batteries Sonal Singhal, Saurabh Dixit and A.K. Shukla Laser Assisted Material Processing and Raman Spectroscopy Laboratory, Department of Physics, Indian Institute of Technology Delhi Hauz Khas, New Delhi 110016, India</p>
CP240.	1900	<p>Effect of Sm doping and annealing on magnetic, structural and optical properties of sputtered SnO 2 thin films Bakiya Lakshmi R¹, Anuraj Sundararaj², Vimala Juliet A¹, E Meher Abhinav², S Arumugam³, Gopalakrishnan Chandrasekaran² 1 Department of EIE, SRM University, Kanchipuram – 603203, Tamilnadu, India. 2 Nanotechnology Research Centre, SRM University, Kanchipuram – 603203, Tamilnadu, India. 3 Centre for High Pressure Research, Bharathidasan University, Tiruchirappalli - 603203, Tamil Nadu, India.</p>
CP241.	1901	<p>Structural, Optical and Electrical Behavior of Solvothermally Grown SbAs Nanorods for Optoelectronic Applications V. Asvini, G. Saravanan, R.K. Kalaiezhily and K. Ravichandran Department of Nuclear Physics, University of Madras, Chennai 600 025, Tamil Nadu, India</p>
CP242.	1905	<p>Photo-to- thermal Conversion in Solid State MWCNT Nishaina Sahadev, Aji A. Anappara Dept. Of Physics, NIT Calicut</p>
CP243.	1906	<p>Enhanced Photo Catalytic Activity Of Graphene Oxide /MoO 3 Nanocomposite In The Degradation Of Victoria Blue Dye Under Visible And Sun Light Irradiation M.Beaula Ruby Kamalam 1,2, S.S.R Inbanathan 2, K.Sethuraman 1 1 School of Physics, Madurai Kamaraj University, Madurai-625021 2 Post Graduate and Research Department of Physics, The American College, Madurai-625007</p>

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CP244.	1907	<p>Synthesis Of Anionic Bile Acid Dimer And Encapsulation Of Silver And Gold Nano Particels For The Evaluation Of Biological Studies Rajendiran Nagappan, Santhana Panneer Devendrapandi¹, Muthukumarasamyvel Thangavel² 1,2 Department of Polymer science, University of Madras, Guindy Campus, Chennai-25, India.</p>
CP245.	1910	<p>Synthesis Of Zinc Stannate Nanowires For Optoelectronic Applications Shalu Sharma¹, Sandeep Chhoker¹ 1 Department of Physics and Material Science and Engineering, Jaypee Institute of Information Technology, Sector-128, Noida, Gautam Buddha Nagar, India-201307</p>
CP246.	1911	<p>Effect of Morphology on Photocatalytic Activity of Zinc Oxide Nanostructures on Natural Dye I. John Peter¹, E. Praveen¹, G. Vignesh¹ and P. Nithiananthi^{1,2} 1,2 Nanostructure Lab, Department of Physics, The Gandhigram Rural Institute – Deemed University, Gandhigram-624 302, Tamilnadu, India.</p>
CP247.	1914	<p>Acceptor Impurity in a GaAs/Al_xGa_{1-x}As Quantum Well: Effect of Confinement Potential G. Vignesh¹ and P. Nithiananthi² 1,2 Nanostructure Lab, Department of Physics, The Gandhigram Rural Institute - Deemed University, Gandhigram – 624302, Tamilnadu, India.</p>
CP248.	1915	<p>Green Synthesis of In₂O₃ Nanoparticles using Aloe Barbadensis Miller Gel for Hydrogen Sensing Application Shyam S. Tongaonkar¹, Parmeshwar Wadkar² and P.P.Patil 1 Department of Physics, Moolji Jaitha College, Jalgaon 425 001, Maharashtra, India. 2 Department of Physics, North Maharashtra University, Jalgaon 425 001, Maharashtra, India.</p>
CP249.	1920	<p>Synthesis And Characterization Of Zinc Oxide Nanoparticles Using Zinc Sulphate By Precipitation Method Keerthika Venkidusamy¹ and Rajan Muthuswami Ruby² 1 Research Scholar, Department of biology, Gandhigram Rural Institute – Deemed University, Gandhigram - 624302, Dindigul District, Tamil Nadu, India. 2 Professor and Head, Department of biology, Gandhigram Rural Institute – Deemed University, Gandhigram - 624302, Dindigul District, Tamil Nadu, India.</p>
CP250.	1921	<p>Effects On Behavioral Changes In Freshwater Fish Oreochromis mossambicus Ananth Angamuthu¹ and Rajan Muthuswami Ruby² 1 Research Scholar, Department of biology, The Gandhigram Rural Institute – Deemed University, Gandhigram - 624302, Tamil Nadu. 2 Professor and Head, Department of biology, The Gandhigram Rural Institute – Deemed University, Gandhigram - 624302, Tamil Nadu.</p>
CP251.	1923	<p>Biosynthesis And Characterization Of Zinc Oxide Nanoparticles And Its Influence On Seed Germination In Green Gram Vigna radiate Suganya Paulraj¹ and Sangeetha Gopi Krishna² Mahalingam Pambayan Ulagan³ 1 Department of Biology, The Gandhigram Rural Institute-Deemed University, 2 Department of Biology, The Gandhigram Rural Institute-Deemed University, 3 Department of Biology, The Gandhigram Rural Institute-Deemed University,</p>
CP252.	1925	<p>CoFe₂O₄ Modified TiO₂ Nanocomposite Supported by Reduced Graphene Oxide and Its Photocatalytic Hydrogen Production Activity Hafeez Yusuf Hafeez¹, Sandeep Kumar Lakhera², Bernardshaw Neppolian¹ 1 SRM Research Institute, SRM University, Kattankulathur, Chennai- 603203, Tamil Nadu, India. 2 Department of Physics and Nanotechnology, SRM University, Kattankulathur, Chennai-603203, Tamil Nadu, India.</p>
CP253.	1926	<p>Investigations on Inverse Spinel Zn₂TiO₄ nano photocatalyst synthesized by</p>

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		<p>Microwave Assisted solvothermal method Gopal Krishna Purushan¹, S. Haranatha Sarma², Anindita Chatterjee³, G. Kiran Kumar⁴, N.V. Suresh Kumar⁵ 1,4,5 Department of Physics, KL University, Green Fields, Guntur-522502, A.P., India 2 Department of Physics, Osmania College, Kurnool-518001, A.P., India 3 Department of Chemistry, KL University, Green Fields, Guntur-522502, A.P., India</p>
CP254.	1928	<p>Structural And Electrochemical Investigations On Manganese Nitride Electrodes Prepared By Reactive Dc Magnetron Sputtering Durai Govindarajan¹ and Kuppusami Parasuraman² 1 Centre of Excellence for Energy Research, Sathyabama University, Chennai-600119, India. 2 Centre of Excellence for Energy Research, Sathyabama University, Chennai-600119, India.</p>
CP255.	1931	<p>Formaldehyde-Assisted Hydrothermal Synthesis of CeO₂ Nanorods for the Humidity Sensing Applications V. R. Khadse¹, Sharada Thakur², S.P.Patil³ and Pradip Patil² 1 Department of Physics, Moolji Jaitha College, Jalgaon 425 001, Maharashtra, India. 2 Department of Physics, North Maharashtra University, Jalgaon 425 001, Maharashtra, India. 3 Department of Physics, Sathaye College, Mumbai-400057, Maharashtra, India.</p>
CP256.	1932	<p>Effect of quenching on the dielectric and energy storage behavior of Ba_{0.7} Sr_{0.3} TiO₃ /Poly (vinylidene fluoride) composites Pallavi Gupta¹, Ashok Kumar², Monika Tomar³, Vinay Gupta⁴, Dwijendra P. Singh¹ 1 School of Physics and Materials Science, Thapar University, Patiala 147001, India 2 CSIR-National Physical Laboratory, Dr. K. S. Krishnan Marg, New Delhi 110012, India 3 Department of Physics, Miranda House, University of Delhi, Delhi 110007, India 4 Department of Physics and Astrophysics, University of Delhi, Delhi 110007, India</p>
CP257.	1933	<p>Synthesis and photocatalytic properties of graphitic carbon nitride Nanofibers using Porous Anodic Alumina templates Suchitra S.M¹ and N. K. Udayashankar¹ 1 Nanomaterials and Crystal Growth Laboratory, Department of Physics, National Institute of Technology Karnataka, Surathkal, Mangalore, India-575025. Tel: +91 824-2474000. Corresponding Author</p>
CP258.	1935	<p>Effect of Titanium alloys coating with Hap Nano ceramics on the Osseo integration response in Vitro technique S. Gnanavel¹, S. Ponnusamy², C. Muthamizhchelvan, L. Mohan³ 1 Department of Biomedical Engineering, SRM University, Chennai, Tamilnadu, India 2 Center for Materials Science and Nano Devices, SRM University, Chennai, Tamilnadu, India 3 Surface Engineering Division, CSIR-National Aerospace Laboratories, Bangalore, Karnataka, India</p>
CP259.	1936	<p>Physical, Mechanical and antibacterial studies of chitosan-iron oxide thin films for food packaging Applications Sharath R¹, Chandraprabha M N¹, Samrat K¹, Ramya L¹, Swarna S¹, R Hari Krishna² 1 Department of Biotechnology, M S Ramaiah Institute Technology, Bangalore, Karnataka, India –560054 2 Department of Chemistry, M S Ramaiah Institute Technology, Bangalore, Karnataka, India – 560054</p>
CP260.	1937	<p>Impact of Process Variation on Multiple-Tube GAA CNTFETs Singh Rohitkumar Shailendra¹, Chitra P², Dr. V.N. Ramakrishnan³ 1 Student (M.Tech. by Research), VIT University, Vellore, TN-632014 2 Assistant Professor, Department of Embedded Technology, VIT University, Vellore,</p>

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		3 Associate Professor, Department of Micro & Nanoelectronics, VIT University, Vellore, TN
CP261.	1938	Surface Modification of La₂O₃ High-k Dielectric Thin Films Deposited on Si and Ge: A Comparative Study Khushabu Agrawal, Vilas Patil, Viral Barhate, Sumit Patil and Ashok Mahajan Department of Electronics, North Maharashtra University, Jalgaon M.S. India-425001
CP262.	1939	Electroenzymatic Sensing Of Urea Using CP/MWCNT-Inulin- TiO₂ /Ur Bioelectrode G. Jayanthi Kalaivani ¹ , S. K. Suja ² , H. Gurumallesh Prabhu ³ 1,2 Department of Chemistry, Lady Doak College, Madurai 3 Department of Industrial Chemistry, Alagappa University, Karaikudi.
CP263.	1940	Non-Enzymatic Sensing of Kidney Dysfunction Biomarker Using Pectin – MWCNT Nanocomposite J. Bagyalaksmi ¹ , S. Pavalamalar ² , K. Yazhini ³ , S. K. Suja ^{4*} 1, 2, 3, 4 Department of Chemistry, Lady Doak College
CP264.	1941	Zinc Oxide Nanoparticles Reinforced Chitosan Membrane as a Potential Wound Dressing Material Samrat K ^{1*} , Chandraprabha M N ¹ , Sharath R ¹ , Pradeepa K ¹ , Sudhesh L Shastri ² 1 Department of Biotechnology, M S Ramaiah Institute Technology, Bangalore, India – 560054 2 Department of Biotechnology, Kuvempu University, Shankaraghatta, Shivamogga, Karnataka, India-577451
CP265.	1942	Structural and Thermoelectric Studies on InGaN/GaN Heterostructures Grown by MOCVD Surender.S ¹ , Pradeep. S ¹ , Prabakaran. K ¹ , Shubra Singh ¹ , Baskar.K, ^{1,2} 1 Crystal Growth Centre, Anna University, Chennai-600025. 2 Manonmanium Sunderanar University, Tirunelveli-627012
CP266.	1943	Synthesis and Characterization of Tin oxides thin films using SILAR method for supercapacitor Application P.Immanuel ¹ , S.Pravinraj ¹ , G.Senguttuvan ^{1*} 1 Department of physics, Anna university, Trichy, BIT campus
CP267.	1946	Experimental investigation of Nano filler TiO₂ doped composite polymer electrolytes for lithium ion batteries R.Premila ^{1,2} , S.Rajendran ¹ 1 School of Physics, Alagappa University, Karaikudi-630003, Tamilnadu, India. 2 Department of Physics, ArulmiguPalaniandavar College of Arts and Culture, Palani - 624601. Tamilnadu, India.
CP268.	1947	MHD Effects On Natural Convective Flow Of A Nanofluid Past An Inclined Plate With Heat Generation/Absorption Selva rani M a , A. Govindarajan a a Department of Mathematics, SRM University, Kattankulathur, Tamil Nadu, India
CP269.	1950	Controlled Hydrothermal Synthesis Of Copper Oxide Nanorice Structures On Carbon Fibres And Their Morphological, Optical, Electrical And Thermoelectric Properties Saipriya Ramalingam ¹ , Pandiyarasan Veluswamy ² , Helen A. Therese ^{3*} 1 Center for Materials Science and Nanodevices, Department of Nanotechnology, SRM University, Kattankulathur, India-603203. 2 Research Institute of Electronics, Graduate School of Science and Technology, Shizuoka University, Hamamatsu, Shizuoka, Japan – 4328011.

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		3* Nanotechnology Research Center, SRM University, Chennai, India – 603203
CP270.	1952	Investigation Of The Influence Of Temperature On The Structure And Surface Properties Of Layered Double Hydroxides Sreepriya P.S. 1,2 , Shilpa Elza Sam 1,2 , Sujata Mandal 1* 1 Central Sophisticated Instruments Facility, Inorganic and Physical Chemistry Division CSIR-Central Leather Research Institute, Chennai, India 2 Department of Chemistry, Marthoma College, Thiruvalla, Kerala
CP271.	1953	Li 0.5 M x Fe 2.5-x O 4 (M=Ce, Al) and Li 0.5 Ce 0.025 Al 0.025 Fe 2.45 O 4 : Hydrothermal Synthesis,Electrical and Magnetic Properties Viswarupa Mohanty, G. Govindaraj* Department of Physics, School of Physical, Chemical and Applied Sciences, PondicherryUniversity, Pondicherry-605 014, India
CP272.	1954	Synthesis of Copper Oxide nanosheets anchored on Graphene for Supercapacitor Application Vivek Elamgovan 1 , Vetha photheher. I 1* 1 University College of Engineering- BIT Campus, Tiruchirappalli, Tamilnadu, INDIA
CP273.	1955	Preparation And Characterization Of Indium Chalcogenide Thin Films Pandian Mannu 1 , Matheswaran Palanisamy 1 * , Gokul Bangaru 1 , Sathyamoorthy Ramakrishnan 1 , Asokan Kandasamy 2 1 Department of Physics, Kongunadu Arts and Science College, Coimbatore, Tamilnadu - 641029
CP274.	1957	Preparation and Characterization of Nickel oxides thin films by SILAR method for supercapacitor Application S.Pravinraj 1 , P.Immanuel 1 , G.Senguttuvan 1 * 1 Department of physics, Anna university, Trichy, BIT campus
CP275.	1959	Aqueous Sol-Gel Synthesis of ZnO Nanoparticles: Effect of Precursors on LPG Sensing Sujata Shinde 1* , Parmeshwar Wadkar 2 and Pradip Patil 3 1 University Institute of Chemical Technology, North Maharashtra University, Jalgaon, India 2 Department of Physics, School of Physical Sciences, North Maharashtra University, Jalgaon, India 3 Vice-Chancellor North Maharashtra University, Jalgaon, India
CP276.	1960	STUDY OF PHYSIOCHEMICAL PROPERTIES OF IRON CARBOHYDRATE COMPLEX AT ROOM TEMPERATURE FOR INTRAVENOUS DRUG DELIVERY APPLICATIONS Gobinath Marappan 1 , Mousumi Sen Biswas 1 , Pankaj Poddar 1* 1 Physical & Materials Chemistry Division, CSIR-National Chemical Laboratory, Pune, India.
CP277.	1962	Analysis And Design Of High Gain And Low Noise Figure Cmos Low Noise Amplifier At Q Band Frequency K. Suganthi * , S.Malarvizhi ** * Research Scholar, SRM University, Chennai ,suganthi.k@ktr.srmuniv.ac.in . ** Professor , Senior IEEE and IETE member, SRM University, Chennai ,
CP278.	1968	Optoelectronic Properties of CN-substituted Nitrogen rich Benzo- and Naphthodiselenophene : A DFT Study Smruti Ranjan Sahoo 1,* , Labanya Bhattacharya 1 , and Sridhar Sahu 2 1,* Department of Applied Physics, IIT(ISM), Dhanbad, Jharkhand-826004 2 Department of Applied Physics, IIT(ISM), Dhanbad, Jharkhand-826004

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CP279.	1969	<p>Investigations of doping of Sn with Ag 2 O thin film on glass plate for the Influence of Texture Coefficient on Surface Morphology studies S. Nivetha 1,2 , A. Ayeshamariam 1,2* , K. Kaviyarasu 3,4 , M.P. Srinivasan 5 , N. Punithavelan 5 , M. Jayachandran 6 1 Research and Development Centre, Bharathidasan University, Tiruchirappalli - 620024, India. 2 Department of Physics, Khadir Mohideen College, Adirampattinam - 614701, India. 3 UNESCO-UNISA Africa Chair in Nanoscience's/Nanotechnology Laboratories, College of Graduate Studies, University of South Africa (UNISA), Muckleneuk Ridge, P O Box 392, Pretoria, South Africa. 4 Nanosciences African network (NANOAFNET), Materials Research Group (MRG), iThemba LABS-National Research Foundation (NRF), 1 Old Faure Road, 7129, P. O. Box 722, Somerset West, Western Cape Province, South Africa. 5 School of Advanced Sciences in Physics, Vellore Institute of Technology, Chennai Campus, Chennai, Tamil Nadu, India.</p>
CP280.	1970	<p>Investigation of the Interfaces under the Influences of TiO 2 and SiO x interlayers on a Micromorph Tandem Solar Cell for Efficient Light Management Manikandan AVM 1 , Shanthi Prince 2 1 Department of ECE, SRM University, Kattankulathur-603203, Tamilnadu, India 2 Department of ECE, SRM University, Kattankulathur-603203, Tamilnadu, India</p>
CP281.	1971	<p>Lithium substituted Nanohydroxyapatite: Synthesis, characterization, antimicrobial and Hemolytic studies Varun Prasath Padmanabhan, Subha Balakrishnan and Ravichandran Kulandaivelu* Department of Analytical Chemistry, University of Madras, Chennai - 600 025, India.</p>
CP282.	1974	<p>Effect of Silver Nanoclusters on Fracture Toughness of Epoxy Polymer Composites Praveen Kumar Balguri a , D.G.Harris Samuel b * , UdayabhaskararaoThumu c * a School of Aeronautical Sciences, Hindustan University Chennai – 603103, INDIA; b Department of Mechanical Engineering, Hindustan University, Chennai – 603103, INDIA; c Department of Organic Chemistry, Weizmann Institute of science, Rehovot –76100, ISRAEL</p>
CP283.	1977	<p>Physico-Chemical Analysis On Cetylpyridinium Chloride (Cpc) With Alcohol Solutions At Different Temperatures - Ultrasonic, Uv And Ftir Analysis A.Panneerselvam 1 and V. Karikalan 2* 1 Department of Physics, Paavai Engineering College , Pachal, Namakkal, India- 637018 2 PG Assistant in Physics, Government Model School, Mallur, Tamil Nadu, India - 636203</p>
CP284.	1978	<p>A High Sensitive Nanophosphor for Carbon Beam Dosimetric Application Karan Kumar Gupta 1 ,S.P. Lochab 2 and S.J. Dhoble 1 1 Department of Physics, RTM Nagpur University, Nagpur -440033, India 2 Inter University Accelerator Center, ArunaAsaf Ali Marg, New Delhi -110067, India</p>
CP285.	1979	<p>Polyester/Banana fiber/Silicate/ZnOnanorod hybrid nano composite for automotive applications Chinnappa Arumugam 1, 2 , Senthilkumar Arumugam 3 and Sarojadevi Muthusamy 1 * 1 Department of Chemistry, Anna University, Chennai-600 025. 2 Paavai college of Technology, Pachal, Namakkal-637 018. 3 National Center for Flexible Electronics, IIT Kanpur, Kanpur-208 016</p>
CP286.	1980	<p>Studies on Electrical and Optical Propertise of Antimony Doped Tin Oxide thin films by Spin Coating and Nebulized Spray Pyrolysis</p>

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		Karuppasamy Balasubramanian and Gayathri Venkatachari Nanomaterials Laboratory, Department of Physics, Thiagarajar College of Engineering, Madurai-625015
CP287.	1982	Enhancement In Structural And Optical Properties Of ZnO Doped PVA/PVP Polymer Nanocomposites Rajesh K 1 , Vincent Crasta 1* , Rithin Kumar N B 2 , B M Praveen 3 1 Department of Physics, St Joseph Engineering College, Mangaluru, Karnataka, India 2 Department of Physics, A J Institute of Engineering and Technology, Mangaluru, Karnataka, India 3 Department of Chemistry, Srinivas School of Engineering, Mukka, Mangaluru, Karnataka, India
CP288.	1402	Thermal, Mechanical, Optical And Dielectric Properties Of Piperazinium Hydrogen Phosphite Monohydrate Single Crystal Rajkumar. R, Praveen Kumar. P* Department Of Physics, Presidency College, Chennai-5, Tamilnadu, India.
CP289.	1408	Investigation On Structural, Optical, Magnetic And Electrical Properties Of Ferrite (Mfe₂O₄, M= Ni, Sr, Mn And Cu) Nanoparticles and Their Application In Photo-Fenton Degradation Annie Vinosha. P¹, Ansel Mely.L¹ And Jerome Das. S^{1,*} ¹ Department Of Physics, Loyola College, Chennai-600 034, India ¹ Department Of Physics, Loyola College, Chennai-600 034, India ^{1,*} Department Of Physics, Loyola College, Chennai-600 034, India
CP290.	1415	Conductive Mechanism Of PVA (Mowiol 10-98) Doped With Zno and Mwcnts Nanoparticles Rithin Kumar N B ^{1*} , Vincent Crasta ² , B M Praveen ³ , Sadananda Kumar N ¹ ^{1*} Department Of Physics, A J Institute Of Engineering And Technology, Mangaluru, Karnataka, India ² Department Of Physics, St Joseph Engineering College, Mangaluru, Karnataka, India ³ Department Of Chemistry, Srinivas School Of Engineering, Mukka, Mangaluru, Karnataka, India
CP291.	1417	EFFECT OF SUBSTRATE TEMPERATURE ON Cu₂ZnSnS₄ THIN FILMS V. Parthibaraj, K. Tamilarasan, K. S. Pugazhvidivu And C. Rangasami Department Of Physics, Kongu Engineering College, Perundurai – 638052 Erode, Tamil Nadu, India
CP292.	1421	PHASE PREFERENCE AND EFFECT OF LASER IRRADIATION IN SOME AG-IN-SB-TE ALLOYS SYNTHESIZED BY MELT-QUENCH METHOD C. Rangasami Department Of Physics, School Science And Humanities, Kongu Engineering College, Perundurai, Erode – 638060, Tamil Nadu
CP293.	1422	SYNTHESIS OF ZNO NANORODS FOR FABRICATION OF SEMICONDUCTOR-SEMICONDUCTOR HETEROJUNCTION Prakhar Bhargava ¹ , S. Vinayak ² ¹ Department Of Physics And Nanotechnology, SRM University ² Research Institute, SRM University
CP294.	1425	Ultrasonic Decomposition Of Toluene For Deposition Of Carbon Nanostructures In Atmospheric Plasma Carol Roselyn Sequeira¹, Karthikeyan Murugesan¹, Rama B.R¹, Ricardo Rhine¹, Rachith S N^{1,2}, Dr.Habibuddin Shaik² ¹ Department Of Mechanical Enggining, NMIT ² Centre For Nano Materials And MEMS, NMIT

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CP295.	1428	<p>Effect Of Cr On Structural, Morphological And Electrical Properties Of Nanoparticles By Co-Precipitation Method</p> <p>Vishwanath D. Mote^{1*}, B. N. Dole²</p> <p>¹Thin Films And Material Science Research Laboratory, Department Of Physics, Dayanand Science College, Latur - 413 512, Maharashtra, India</p> <p>²Advanced Materials Research Laboratory, Department Of Physics, Dr. B. A. M. University, Aurangabad – 431 004, Maharashtra, India</p>
CP296.	1430	<p>Selective and Sensitive Detection of Hypochlorite in Water Samples Using Gold/Silver Alloy Nanoparticles as a Colorimetric Probe</p> <p>Shanmugarajkrishnamoorthy^{1,2} and Ilanchelianmalaichamy¹</p> <p>¹Department Of Chemistry, Bharathiar University, Coimbatore – 641046, Tamil Nadu, India.</p> <p>²Centre For Nanoscience And Nanotechnology, Department Of Chemistry, The Gandhigram Rural Institute Gandhigram-624 302, Dindigul, Tamilnadu, India</p>
CP297.	1456	<p>A-Mn₂O₃ And Rgo A-Mn₂O₃ Cubic Particles For Supercapacitor Application</p> <p>V.Govindan, S.Dhatchayani, P.Thavamani, K.Sankaranarayanan *</p> <p>Department Of Physics, Alagappa University, Karaikudi-630003, India.</p>
CP298.	1458	<p>Analysis Of Transport Properties Of DNA Base Molecular Junctions</p> <p>Milanpreetkaur¹, Payal Nayyar², Rupanpreet Kaur³, Ravinder Singh Sawhney⁴</p> <p>^{1,2,3,4}Guru Nanak Dev University, Amritsar 143005</p>
CP299.	1461	<p>CO₂ Reforming Of CH₄ Over Ni/γ-Al₂O₃ Nano Catalyst: Effect Of Cold Plasma Surface Discharge</p> <p>L. Sivachandiran^{1,2*}, P. Da Costa³, A. Khacef¹</p> <p>¹GREMI, UMR 7344, CNRS-Université d'Orléans, 14 Rue d'Issoudun, BP 6744, 45067 Orléans Cedex 02, France.</p> <p>²SRM Research Institute, Depart. Of Chemistry, SRM University, Kattankulathur, Kancheepuram 603203 (D.T.), India.</p> <p>³Univ Paris 6, UMR 7190 Sorbonneuniv-CNRS, Institut Jean Le Rond d'Alembert, 2 Pl Gare Ceinture, 78210, France.</p>
CP300.	1468	<p>TO ELUCIDATE THE ELECTRON TRANSPORT PROPERTIES OF DNA BY VARYING MILLER ORIENTATIONS</p> <p>Yogita Bhat¹, Rajan Vohra², Milanpreet Kaur³, Ravinder Singh Sawhney⁴</p> <p>Department Of Electronics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India</p>
CP301.	1470	<p>Synthesis And Characterization Of Undoped And Al Substituted Nano Zinc Ferrite Using Ligands</p> <p>Soumya Mukherjee¹</p> <p>¹Department Of Mechanical & Automation Engineering, Amity University Kolkata, Kolkata-700135, India</p>
CP302.	1475	<p>Room Temperature Multiferroicity In A New Ba₂FeMnO₆ Double Perovskite Material</p> <p>S. Ravi, C. Senthilkumar</p> <p>Department Of Physics, Mepco Schlenk Engineering College, Sivakasi 626005 India</p>
CP303.	1480	<p>Synthesis, Characterization And antimicrobial Activity Of Mn Doped Nionanoparticles</p> <p>G.Bharathy¹, P.Raji^{2*}</p> <p>¹Department Of Physics, Kamaraj College Of Engineering & Technology, Virudhunagar-626001.Tamilnadu, India, ²Department Of Physics, Mepcoschlenk Engineering College, Sivakasi-626005.Tamilnadu, India</p>
CP304.	1482	<p>Synthesis, Characterization And Antibacterial Activity Of Ti Doped Zno Nanoparticles By Co-Precipitation Method</p>

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		P.Raji ^a , B.Gayathri Manju ^a , G.Mahara Thibthi ^b And K.Balachandra Kumar ^c Department Of Physics, Mepco Schlenk Engineering College, Sivakasi - 626 005. Department Of Physics, Idhaya College For Women, Sarugani - 630411 Department Of Physics, Raja Duraisingam College, Sivagangai- 630 561
CP305.	1483	Comparative Studies Of Ag Ultra Thin Film And Ag/FTO Multilayer Swati Pandya Department Of Physics, Sardar Patel University, Vallabhvidyanagar (Gujarat) 388120, India
CP306.	1491	FINFET Based High Frequency Voltage Controlled Oscillators For The Next Generation PLL. Prithviraj R ¹ , Selvakumar.J ² ^{1,2} Assistant Professor, Department Of ECE, SRM University, Kattankulathur
CP307.	1493	Improved Electrochemical Performance Of Mn₃O₄ Microelectrodes For Supercapacitors Dadamiah PMD Shaik ¹ , P. Rosaiah ³ , K. Sivajeeganesh ² And O. M. Hussain ^{2*} 1. Department Of Physics, Sreevidyanikethan Engineering College, A. Rangampet-517 102, India 2. Thin Films Laboratory, Department Of Physics, Sri Venkateswara University, Tirupati-517 502, India 3. Shenzhen Engineering Lab Of Flexible Transparent Conductive Films, Department Of Materials Science Andengineering, Shenzhen Graduate School, Harbin Institute Of Technology, University Town, Shenzhen, 518 055, China
CP308.	1497	Structural Stability And Electrochemical Cycling Studies Of Gadolinium-Substituted Spinel Lig_xMn_{2-x}O₄ (X=0.0, 0.5) Asa Positive Electrode Materials For Rechargeable Li-Ionbatteries Kumaran Vediappan ^{1,2*} , Prasanna Kadirvelayutham ¹ , RM. Gnanamuthu ^{1,2} , Swaminathan Shanmugan ² , Chang Woo Lee ^{1*} ¹ Department Of Chemical Engineering And Green Energy Centre, College Of Engineering, Kyung Hee University, 1 Seochun, Gihung, Yongin 446-701, S. Korea ² SRM Research Institute And Dept. Of Chemistry, SRM University, Kattankulathur-603203, Tamilnadu, India
CP309.	1500	Development Of A Lab On-Chip Device For Preventing Hyperbilirubinemia PK Rohit ¹ , Helen Annal Therese ^{2,*} ¹ Department Of Physics And Nanotechnology,SRM University,Kattankulathur, Tamil Nadu, 603203, India ^{2*} Nanotechnology Reasearch Center, SRM University, Kattankulathur, Kattankulathur, Tamil Nadu, 603203, India
CP310.	1507	Ferromagnetism In Pure And Mn-Doped Telluride Nanoparticles As Wide Bandgap Dilute Magnetic Semiconductors S. Ravi, F. Winfred Shashikanth Department Of Physics, Mepco Schlenk Engineering College, Sivakasi 626005 India
CP311.	1509	The Effect Of Concentration Of Citric Acid In The Synthesis And Characterization Of Cobalt Ferrite (Cofe₂o₄) Nanoparticles By Sol –Gel Technique. Gangothri.S.Kumar, Anugraha.A, ,Lakshmi.V.K, K S Rajni* Amrita School Of Engineering, Coimbatore-641112, Tamil Nadu, India
CP312.	1534	Structural And Optical Behaviour Of Conducting Polymer Based ‘Polymeric-Inorganic’ Nanocomposites: Polyaniline/Zro₂ Rajesh Kumar*,Gaganpreet Kaur Sidhuand Naresh Kumar Department Of Physics, Centre Of Advanced Study In Physics, Panjab University, Chandigarh-160014 (INDIA)
CP313.	1541	Strain Engineered Hydrogenated Germananezigzag Nano-Ribbon Double Gate Field

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		<p>Effect Transistor E Meher Abhinav¹, Anuraj Sundararaj¹, Chandrasekarangopalakrishnan^{1*}, S. V. Kasmir Raja² And Saurabh Chokhra³ ¹Nanotechnology Research Centre, SRM University, Kattankulathur, Kanchipuram – 603203, Tamil Nadu, India. ²Directorate Of Research And Virtual Education, SRM University, Kattankulathur, India. ³Department Of Electrical Engineering, IIT Kanpur, Kanpur, India.</p>
CP314.	1542	<p>An Investigation On Enhanced photocatalytic Degradation Of Organic Dyes Using WO₃/A-Fe₂O₃/Rgo Ternary Nanohybrid Structures A. Priyadharsan,^A V. Vasanthakumar,^B V. Raj,^{B,C} S. Karthikeyan,^D V. Karthika,^A And P. M. Anbarasan,^{*A} ^Adepartment Of Physics, Periyar University, Salem 636 011, Tamil Nadu, India. ^Bdepartment Of Chemistry, Periyar University, Salem 636 011, Tamil Nadu, India. ^Ccentre For Nanoscience And Nanotechnology, Periyar University, Salem - 636 011, Tamil Nadu, India. ^Ddepartment Of Chemical Engineering And Applied Chemistry, Aston University, Aston Triangle, Birmingham B4 7ET, United Kingdom</p>
CP315.	1552	<p>Phyto And Hydrothermal Synthesis Of Fe₃O₄@Zno Core-Shell Nanoparticles Using Azadirachta Indica And Its Antibacterial Activity V. Madhubala^a, T. Kalaivani^b ^{A,B}department Of Physics And Nanotechnology, SRM University, Kattankulathur, Chennai-603203.</p>
CP316.	1555	<p>DEGRADATION OF DYE BY NANO Fe₃O₄ –ACTIVATED CARBON COMPOSITE Sivaprakasam.A¹, Venugopal.T¹, Surya.K², Anbuselvi. S², Andkannan. K¹. ¹Department Of Chemistry, Government College Of Engineering(Autonomous), Salem-636011, Tamilnadu, India ²Department Of Chemistry, Sri Sarada College For Women (Autonomous), Salem-636016, Tamilnadu, India</p>
CP317.	1558	<p>Non- Enzymatic Photoluminescent Detection Of Glucose Molecules Using Oleic Acid Infused Ag₂S Nanoparticles I. Phebe Kokila¹ And Helen Annal Therese^{1,*} ¹Nanotechnology Research Center, SRM University, Kattankulathur- 603203</p>
CP318.	1559	<p>Search For Thermoelectricity In Li-Based Half-Heusler Alloys: A DFT Study Anuradha¹, Kulwinder Kaur² And Ranjan Kumar Panjab University, Chandigarh-160014</p>
CP319.	1562	<p>High Capacity Na_{0.5}Bi_{0.5}TiO₃ anode Material For Sodium-Ion Battery applications Lignesh Durai¹, Brindha Moorthy², Do Kyung Kim² and K Kamala Bharathi¹ ¹Research Institute, Department Of Physics And Nanotechnology, SRM University, Chennai. ²Department Of Materials Science And Engineering, Korea Advanced Institute Of Science And Engineering (KAIST), Daejeon 305-701, Republic Of Korea</p>
CP320.	1565	<p>TUNNEL MAGNETORESISTANCE EFFECT IN COFE/MGO/COFE STRUCTURE - FIRST PRINCIPLE STUDY Aadhityan A¹ Preferential Kala C^{1*}, And John Thiruvadigal D¹ ¹Department Of Physics And Nano Technology, Center For Materials Science And Nanodevices, SRM University, Kattankulathur - 603 203. India.</p>
CP321.	1576	<p>Structure And Magnetism In Nanocrystalline Ba_{1-x}Sr_xCo_{0.9}Mn_{0.1}O₃: Importance Of Ba-Site Substitution Amit Kumar And Rabindra Nath Mahato*</p>

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CP322.	1581	Inspecting The Role Of Temperature Towards The Thermoelectric Performance Of Half Heusler Compounds Nacax (X= N, P, As) Kulwinder Kaur ¹ And Deepak Kumar ² Department Of Physics, Panjab University, Chandigarh,160014, India
CP323.	1586	ANTIBACTERIAL ACTIVITY OF Tio₂ NANOPARTICLES R. Thamarai Selvi ^a , APS. Prasanna ^b , G. Devanand Venkatasubbu ^{c*} ^{A, B} Department Of Physics, SRM University, Kaatankulathur, Tamil Nadu ^C Department Of Nanotechnology, SRM University, Kaatankulathur, Tamil Nadu
CP324.	1591	ANALYTICAL MODELING OF DRAIN CURRENT AND ANALYSIS OF RF PERFORMANCE OF NARROW CHANNEL NANO SCALE FULLY DEPLETED SOI Mosfets Prashant Mani ¹ , Manoj Kumar Pandey ² ^{1,2} Department Of Electronics & Communication Engineering,SRM Univesity,NCR Campus
CP325.	1594	Biological Synthesis And Characterisation Of Cobalt Ferrite Nanoparticles H. Vignesh ¹ , V. Vishnu ² , P. Balakumar ³ , T. Raguram ⁴ And K. S. Rajni ^{5*} Department Of Sciences, Amrita School Of Engineering, Amrita Vishwa Vidyapeetham, Amrita Nagar, Ettimadai, Coimbatore – 641 112, Tamilnadu, India
CP326.	1615	FLUIDS IN MICRO-NANO-SCALE Bhavani Sasank ¹ ; Dileep Mampallil ² ¹ Department Od Physics And Nanotechnology,SRM University. ² Department Of Physics,Indian Institute Of Science Education &Research Tirupati.
CP327.	1617	Influence Of Ferric Nitrate In The Magnetic Property Of Cobalt Ferrite Nanoparticles Synthesized By Sol-Gel Technique Chitra ¹ , T Raguram ² and K S Rajni ^{2*} ¹ Derpartment Of Physics, Farook Arts And Science College, Kottakkal(P.O), Malappuram-676503, Kerala ² Derpartment Of Sciences, Amrita Shool Of Engineering, Amrita Vishwa Vidyapeetham, Amrita Nagar, Ettimadai, Coimbatore – 641 112, Tamilnadu
CP328.	1626	In-Vitro And Antibacterial Study Of Ag Doped Strontium Lime Silica Glass-Ceramic Nanoparticles Narender Ranga ¹ , Ashok Kumar ² ¹ Department Of Material Science & Nanotechnology, DCR Univeristy Of Science & Technology, Murthal-131039, Haryana, India ² Department Of Physics, DCR University Of Science & Technology, Murthal-131039, Haryana, India
CP329.	1632	Enhanced Critical Temperature Modeling And Analysis Ofniobium And Yttriumbased Josephson Junctionsuperconducting Circuits J.Selvakumar ¹ , Anshul Tayal ² ^{1,2} Department Of ECE, SRM University, Kattankulathur 603 203
CP330.	1636	Towards A Practical Solution For Detecting And Degrading Organic Pollutants From Soil Using Zno Modified Gold Nanocomposites D.Arockia Jency¹, M. Umadevi^{1*}G.V. Sathe² ¹ Department Of Physics, Mother Teresa Women's University, Kodaikanal 624101, India ² UGC-DAE Consortiums For Scientific Research, University Campus, Khandwa Road, Indore.452 017, India
CP331.	1644	Fabrication Of Partially Covered Top Electrode For Pyroelectric Energy Harvester By Laser Ablation ¹ E.Manikandan, ¹ B.S.Sreeja, ¹ G.Padmalaya, ¹ S.Radha

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		¹ Department Of Electronics And Communication Engineering,SSN College Ofengineering
CP332.	1648	Cui As Nobel Catalyst For CO₂ Hydrogenation: First-Principles Study Anand Kumar ¹ , Ranjit Thapa ^{1,2} ¹ Department Of Physics And Nanotechnology, SRM University, Kattankulathur-603203, Tamil Nadu, India ² SRM Research Institute, SRM University, Kattankulathur-603203, Tamil Nadu, India
CP333.	1654	EQUAL-MOLAR RATIO OF BARIUM TITANATE DOPED WITH COBALT OXIDES, TANPHI, PHI, CAPACITANCE(CS), TAN DELTA SPECIFIC RESISTANCE, DELTA UNDER THE HIGH CALCINATION OF LOW MILLING HOURS K. Samuvel, ¹ K. Ramachandran, ² E.Padmini, ³ G. Saravanan ⁴ And M.Gurumoorthy ⁵ ^{1,2,3,4} Dept Of Physics, Faculty Of Engineering And Technology, Vadapalani Campus, SRM University, Chennai-600026, Tamilnadu, India ⁵ Department Of Physics, Poompuhar College(Automous), Melaiyur 609107, Tamilnadu
CP334.	1658	Preparation Of Poly(Vinyl Pyrrolidone)-Graphene Nanocomposites With Enhanced Dielectric Properties Shubha A And S. R. Manohara* Nano-Composites And Materials Research Lab, Department Of Physics, Siddaganga Institute Of Technology, Tumakuru – 572 103, Karnataka, India
CP335.	1661	Temperature Dependence Of Fe₃O₄ /Pvp Magnetic Nanoparticle Prepared By Solid State Reaction Method M.Gurumoorthy ¹ , K.Parasuraman ² K.Samuvel ³ ¹ Department Of Physics,Poompuhar College(Automous),Melaiyur 609107, Tamilnadu ² Department Of Physics,Poompuhar College(Automous), Melaiyur 609107,Tamilnadu ³ Department Of Physics,SRM University,Vadapalani Campus, Chennai 600026, Tamilnadu
CP336.	1662	Defect Studies On Yttrium Doped CuO By Positron Annihilation Spectroscopy S. Sellaiyan ^a , L. Vimala Devi ^b , A. Uedono ^a , K. Sivaji ^c ^A division Of Applied Physics, University Of Tsukuba, Ibaraki 305-8573, Japan ^B department Of Physics, MIT Campus, Anna University, Chennai -600044, ^C department Of Nuclear Physics, University Of Madras, Chennai-600025
CP337.	1664	Green Synthesis Of Silver Nanoparticles And Investigations On Its Antibacterial And Anticancer Activity J. Emima Jeronsia a , R.Thangamathi a , D.J.Vidhya Raj a , C. Justin Raj b , S.Jerome Das a* a Department of Physics, Loyola College, Chennai – 600034, India. b Department of Chemistry, Dongguk University-Seoul, Jung-gu, Seoul-100715, South Korea
CP338.	1681	Temperature Effect On The Synthesis And Sulfurization Of Cu₂ZnSnS₄(CZTS) S.Sarveshvaran ¹ , E.Indubala ² , V.Sudha ³ , Aamir.Y.Mamajiwala ¹ ,S.Harinipriya ^{2*} ¹ departmentofphysics&Nanotechnology,Srmuniversity,Kattankulathur,Tamilnadu, India-603203, ² electrochemicalsystems lab,Srmresearchinstitute,Srmuniversity,Kattankulathur,Tamil Nadu, India-603203, ^{2*} Correspondingauthor,Electrochemicalsystems lab,Srmresearchinstitute,Srmuniversity, Kattankulathur,Tamilnadu,India-603203 ³ Department Of Chemistry, SRM University, Kattankulathur, Tamil Nadu, India603203.
CP339.	1686	Biosynthesis Of TiO₂ Nanoparticles Using Musa

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		<p>Acuminatavarnedunendran(Banana) Peel Extract And Evaluation Of Its Anticancer Property M.Karthigailakshmi Andk.Geetha* Centre For Research, Department Of Biotechnology, Kamaraj College Of Engineering And Technology, Virudhunagar</p>
CP340.	1688	<p>Covalently Incorporated Swcnts In Biodegradable Polyurethane Films: Synthesis, Physicochemical And Mechanical Studies Senthil A. Gurusamy-Thangavelu,^{A,*} A.Murali,^Bsharanyam.,^Asellamuthu N. Jaisankar^band Asit B. Mandal^{c*} ^Asrm Research Institute And Chemistry Department, SRM University, Kattankulathur 603203, India. ^Bpolymer Division And ^Cchemical Laboratory, Council Of Scientific And Industrial Research (CSIR)-Central Leather Research Institute, Adyar, Chennai-600 020, Tamil Nadu, India.</p>
CP341.	1690	<p>Effect of Dopants (Ga, Bi, Sb) on the Optical and Electrical Properties of Spray Deposited ZnO Thin Films Sadananda Kumar N^{1,2}, Kasturi V. Bangera², Rithin Kumar N B¹, Shivakumar G K² ¹A J Institute of Engineering & Technology Mangaluru, India, 575006 ²National Institute of Technology Karnataka, Surathkal, India – 575025</p>
CP342.	1702	<p>Rapid construction of porous ZnO nanoflowerson carbon fibers with thermally induced and their thermoelectric properties Pandiyyarasan Veluswamy[*], P. Santhoshkumar², Suhasini Sathiyamoorthy³, Chang Woo Lee², Hiroya Ikeda¹, ¹Research Institute of Electronics, Graduate School of Science and Technology, Shizuoka University, Hamamatsu, Shizuoka, Japan – 4328011. ²Department of Chemical Engineering, College of Engineering, Kyung Hee University, 1732 Deogyong-daero, Gihung, Yongin, Gyeonggi, South Korea – 17104. ³Department of Electronics and Communication Engineering, SRM University, Chennai, India– 603203.</p>
CP343.	1705	<p>Defect Induced Room Temperature Ferromagnetism in Fe-Doped CeO₂ Nanomaterials Probed Through X-Ray Photoemission Spectroscopy Swati Soni¹, M. Dave¹, P.A. Alvi², S. Dalela^{1*} ¹Department of Pure & Applied Physics, University of Kota, Kota-324005, India ²Department of Physics, Banasthali vdiyapith, Newai-302022, India ^{1*}Department of Pure & Applied Physics, University of Kota, Kota-324005, India</p>
CP344.	1710	<p>Electrochemical Parameters of Nano-carbon-spheres/Polyaniline Nano-composite Sushant Haladkar¹, Sanghamitra Acharya², Suwarna Datar³, Prashant Alegaonkar⁴ Department of Applied Physics, Defence Institute of Advanced Technology, Girinagar, Pune - 411025, MS, India</p>
CP345.	1720	<p>High Capacity Na_{0.5}Bi_{0.5}TiO₃ Anode Material For Sodium-Ion Battery Applications Lignesh Durai¹, Brindha Moorthy², Do Kyung Kim² and K Kamala Bharathi¹ ¹Research Institute, Department of Physics and Nanotechnology, SRM University, Chennai. ²Department of Materials Science and Engineering, Korea Advanced Institute of Science and Engineering (KAIST), Daejeon 305-701, Republic of Korea</p>
CP346.	1741	<p>On The Structural, Optical And Electrical Behaviour in BaSnO₃ Nanomaterials By The Effect Of Interstitial Ce N. Rajamanickam[#], K. Jayakumar[*], K. Ramachandran Nanostructure lab, Dept. of Physics, Gandhigram Rural Institute - Deemed University, Dindigul – 624 302, TN, India</p>
CP347.	1747	<p>Ab-initio Growth Prediction of PbS Nanotubes and their Applicability in Solar Cell</p>

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		M. Kaur ¹ , K. Kabra ¹ and G. Sharma ^{1*} ¹ . Department of Pure & Applied Physics, University of Kota, Kota-324005, India
CP348.	1757	SYNTHESIS AND CHARACTERIZATION OF PURE TiO₂ AND AMINE PASSIVATED TiO₂ BY HYDROTHERMAL METHOD AT DIFFERENT pH CONDITIONS AND THEIR PHOTOCATALYTIC ACTIVITY K.Santhi ¹ , J.Archana ¹ , S.Ponnusamy ¹ , C.Muthamizhchelvan ¹ ¹ Center for Materials Science and Nano Devices, Department of Nanotechnology, SRM University, Kattankulathur..
CP349.	1768	COMPARATIVE STUDY BETWEEN PLASMONIC MATERIALS AND NANOSTRUCTURES FOR SENSOR AND SERS APPLICATION Jyoti Katyaj Amity University, Noida
CP350.	1774	Assessing Various Properties of Sputter Deposited Zirconia Films Riddhi Prajapati ^a , Kamlesh V. Chauhan ^a , Sushant K. Rawal ^{b*} ^a CHAMOS Matrusanstha Department of Mechanical Engineering, Chandubhai S. Patel Institute of Technology (CSPIT), Charotar University of Science and Technology (CHARUSAT), Changa- 388421, Gujarat, India. ^b McMaster Manufacturing Research Institute, Department of Mechanical Engineering, McMaster University, 1280 Main Street West, Hamilton, ON, L8S 4L7, Canada,
CP351.	1783	Origin of Room -Temperature Ferromagnetism in pristine and p-Type Na-Doped ZnO Nanocrystalline Thin Films Shyamsundar Ghosh ^{1*} and Kalyan Mandal ² ¹ Department of Physics, Bejoy Narayan Mahavidyalaya, P.O.: Itachuna, Hooghly 712 147, ² Department of Condensed Matter Physics and Material Sciences, S. N. Bose National Centre for Basic Sciences, Salt Lake City, Kolkata 700 098, India
CP352.	1786	DEVELOPMENT OF NOVEL ANTIMICROBIAL SCAFFOLD IMPREGNATED WITH GREEN SYNTHESIZED SILVER NANOPARTICLE D. Daisy Jasmine^a, Kantha Devi Arunachalam^{b*}, Raghavendra Ramalingam^c, Sathesh Kumar Annamalai^d ^a Department of Physics and Nanotechnology, ^{b*} Center for Environmental Nuclear Research SRM University, Kattankulathur- 603203, Tamilnadu. ^c Center for Environmental Nuclear Research, & Department of Physics and Nanotechnology, SRM University, Kattankulathur- 603203, Tamilnadu. E-mail: ^d Center for Environmental Nuclear Research, SRM University, Kattankulathur- 603203
CP353.	1788	Preparation of Biomass-Derived Graphitic Activated Carbon Utilizing Iron Salts as Activating Agents for Supercapacitor Applications G. Sivagaami Sundari ¹ , E.Senthilkumar ¹ , M.Ramya ¹ , K.Thileep Kumar ¹ , S.Ragh ^{2*} and R.A. Kalaivani ^{1*} ¹ Department of Chemistry, School of Basic Sciences, Vels University, Chennai -117. ² Vels Advanced Energy Research Centre, Vels University, Chennai -117
CP354.	1797	Synthesis and Microstructure of cd-doped SrTiO₃ ceramics prepared by high-energy ball milling E. Padmini, K.Samuvel ^a and K. Ramachandran ^{*b} ^{ab} Department of Physics, Faculty of Engineering and Technology, Vadapalani Campus, SRM University, Chennai-600026, Tamilnadu, India
CP355.	1798	Hydrothermal Synthesis Of Ruthenium Dioxide Decorated On silver phosphate Nanocrystal With Tunable Morphologies With Good Photo Catalytic, Antibacterial And Lithium Ion Battery Performances

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		<p>Ashwini Ashok¹, Pandiyarasan Veluswamy², Abilarasu Annamalai¹, P. Santhoshkumar³, Ramya Meganathan¹, Senthil Elumalai¹, Varsha Pawar¹, Raghu Subashchandrabose^{1*}, and Kalaivani Raman^{1*}</p> <p>¹Department of Chemistry, Vels University, Pallavaram, Chennai-6000117, Tamil Nadu, India. Vels University, Pallavaram, Chennai-6000117, Tamil Nadu, India</p> <p>²Research Institute of Electronics, Graduate School of Science and Technology, Shizuoka University, Hamamatsu, Shizuoka, Japan – 4328011.</p> <p>³Department of Chemical Engineering, College of Engineering, Kyung Hee University, 1732 Deogyong-daero, Gihung, Yongin, Gyeonggi, South Korea – 17104</p>
CP356.	1799	<p>Synthesis and Microstructure of cd-doped SrTiO₃ ceramics prepared by high-energy ball milling</p> <p>E. Padmini, K.Samuvel^a and K. Ramachandran^{*b}</p> <p>^{ab}Department of Physics, Faculty of Engineering and Technology, Vadapalani Campus, SRM University, Chennai-600026, Tamilnadu, India</p>
CP357.	1800	<p>Molecular interaction studies of nonafluorobutylmethylether with methanol binary mixtures using Time domain reflectometry technique</p> <p>C.Sengodan¹, L.Sudha^{1*}, K. Ramachandran², M.Malathi³ and A..Mohan³</p> <p>¹Department of Physics, Faculty of Engineering and Technology, Ramapuram Campus, SRM University, Chennai-600089, Tamilnadu, India</p> <p>². Department of Physics, Faculty of Engineering and Technology, Vadapalani Campus, SRM University, Chennai-600026, Tamilnadu, India</p> <p>³. Department of Physics, School of Advanced Sciences, VIT University, Vellore 632014, TamilNadu, India</p>
CP358.	1801	<p>Mechanical Activation Of Synthesis Reaction For Ga₂O₃ Doped SrTiO₃ Ceramic</p> <p>G. Saravanan^a, K. Samuvel^b and K. Ramachandran^{*c}</p> <p>^aJaya Sakthi Engineering College, Asst professor in physics, Thiruninravur, Chennai.</p> <p>^{bc}Department of Physics, Faculty of Engineering and Technology, Vadapalani Campus, SRM University, Chennai-600026, Tamilnadu, India</p>
CP359.	1805	<p>Exchange Bias and interfacial magnetic phenomena in mechanically milled Ferromagnetic/antiferromagnetic nanocomposites</p> <p>SatyaPrakashPati^{1*} and Dipankar Das²</p> <p>¹Department of Electronic Engineering, Tohoku University, Sendai 980-8579, Japan.</p> <p>²UGC-DAE Consortium for Scientific Research, Kolkata Centre III/LB-8, Bidhannagar, Kolkata 700 098, India</p>
CP360.	1813	<p>Investigations on Structural and Magnetic Properties of Ce³⁺ Substituted Nano Cobalt Ferrite Derived by Sol-gel Route</p> <p>Syed Ismail Ahmad[*]</p> <p>[*]Department of Basic Sciences, Physics Division. Ibn Sina National College for Medical Studies, Jeddah, Kingdom of Saudi Arabia.</p>
CP361.	1817	<p>NANOMEDICINE : An emerging trend of therapy.</p> <p>Ramgadiya Aditee Dhanraj</p>
CP362.	1818	<p>ENVIRONMENT FRIENDLY CROSSLINKABLE ACRYLATE LATEX</p> <p>Sweta Shukla¹ and J.S.P.Rai²</p> <p>¹Assistant Professor Applied Science Department KIET Ghaziabad, India</p> <p>²Vice chancellor, Jaypee university, India</p>
CP363.	1820	<p>Synthesis and Characterization of Dy₂O₃ doped Na₂O-Al₂O₃-B₂O₃-SiO₂-TiO₂Glasses Containing TiO₂Nanoparticles</p> <p>PravinPawar¹, Sudhir Munishwar² and Rupesh S. Gedam^{3,*}</p> <p>Department of Applied physics, Visvesvaraya National Institute of Technology, Nagpur- 440001, India</p>

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		Department of Applied physics, Visvesvaraya National Institute of Technology, Nagpur- 440 001, India Department of Applied physics, Visvesvaraya National Institute of Technology, Nagpur- 440 001, India
CP364.	1825	Spectral, Optical, Etching, Second Harmonic Generation (SHG) and Laser Damage Threshold Studies of Nonlinear Optical Crystals of L-Histidine Bromide M.Krishna Mohan[*], S. Ponnusamy and C.Muthamizhchelvan Centre for Materials Science and Nanodevices, Department of Physics and Nanotechnology, SRM University, Kattankulathur, Kancheepuram-603 203, India
CP365.	1829	Graphene oxide influence the release of protein from Layer-by-Layer self assembled electrospun PCL fiber Elayaraja Kolanthai and Luiz Henrique Catalani [*] Departamento de Química Fundamental, Instituto de Química, Universidade de São Paulo, Av. Prof. Lineu Prestes, 748, CP 26077, 05513-970 São Paulo.
CP366.	1831	Influence of Precursor Concentration on the Physical Properties of SnO₂ Thin Films Synthesized by Nebulized Hydrolysis P. Karthick ^{1,2} , Divya Vijayanarayanan ² , R. T. Ananth Kumar ³ , C. Sanjeeviraja ⁴ and K. Jeyadheepan ^{1,2*} ¹ Multifunctional Materials & Devices Lab, Anusandhan Kendra – II, SASTRA University, Tirumalaisamudram, Thanjavur – 613 401, India ² School of Electrical and Electronics Engineering, SASTRA University, Tirumalaisamudram, Thanjavur – 613 401, India ³ Department of Physics, UAE University, Al Ain, United Arab Emirates. ⁴ Department of Physics, Alagappa Chettiar College of Engineering and Technology, Karaikudi – 630 004, India
CP367.	1832	Structural, Optical and Photocatalytic of Au decorated ZnO: Nanostructures T.V.Pragathi ¹ , G.Nivetha ¹ , C.Siva ^{1*} ¹ Department of Physics & Nanotechnology, SRM University, Kattankulathur
CP368.	1833	Pentagonal Shaped ZnTiO₃ Ceramics for Microwave Dielectrics Application B. Santhosh Kumar ¹ , M. Manikandan ² , P. Manimuthu ³ , N. Aparna devi ⁴ , T. Mukilraj ¹ , N. Praveen Shanker ¹ , M. Malarselvi ¹ and C. Venkateswaran ^{1*} 1. Department of Nuclear Physics, University of Madras, Guindy campus, Chennai – 600 025, India. 2. Centre for Nanoscience and Technology, Anna University, Chennai – 600 025, India. 3. Nanostructures and Functional Materials, Centre for Materials Science and Nanotechnology, University of Oslo, Norway 4. Department of Physics, Ethiraj College for Women, Egmore, Chennai, India – 600 008.
CP369.	1838	SYNTHESIS AND CHARACTERIZATION OF Fe³⁺ DOPED 2[Hg(SCN)₂] NANOPARTICLE BY CHEMICAL CO PRECIPITATION METHOD. ¹ Ramesh. V and ² Rajarajan.K ¹ Department of Physics, SRM University Vadapalani campus, Chennai 600 026, India. ² Department of Physics, R.V. Govt. Arts college, Chengalpet, 603 001, India
CP370.	1844	Ag-Au and Cu-Au Bimetallic Nanoparticles Fabricated by Femtosecond Ablation for SERS Based Detection of Picric Acid Bharati M.S.S., Chandu. B, Venugopal Rao. S* Advanced Center of Research in High Energy Materials (ACRHEM), University of Hyderabad, Prof. C. R. Rao Road, Hyderabad 500046, India
CP371.	1848	Dye excitation and surface defects mediated visible light photocatalytic behaviour of vertically aligned zinc oxide nanorods P. Sundara Venkatesh ^{a,b} , K. Jothivenkatachalam ^c and K. Jeganathan ^{a*} ^a Centre for Nanoscience and Nanotechnology, School of Physics, Bharathidasan

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		University, Tiruchirappalli - 620 024, Tamilnadu, India. ^b Department of Physics, Sri S. Ramasamy Naidu Memorial College, Sattur - 626 203, Tamilnadu, India. ^c Department of Chemistry, Anna University, BIT Campus, Tiruchirappalli - 620 024, Tamilnadu, India
CP372.	1858	A.C. IMPEDANCE, XRD, DSC AND TG/DTA STUDIES ON SUPER ACIDICALLY MODIFIED AL₂O₃, TiO₂ AND SiO₂ DISPERSOID LIPF₆ BASED PVC/PVDF-CO-HFP COMPOSITE ELECTROLYTES BY PHASE INVERSION 1.BLENDING EFFECT OF HOST, 2.ACIDIC EFFECT OF FILLERS P .Vickraman* , A.Simon Justin <i>Solid State Ionics Lab, Department of Physics, Gandhigram Rural Institute- DU, Gandhigram, Dindigul-624302, Tamilnadu, India</i>
CP373.	1859	Green Synthesis of ZnSnO₃ Nanoparticles And Evaluation Of Their Ethanol Sensing Performance ParmeshwarWadkar and PradipPatil* Department of Physics, North Maharashtra University, Jalgaon 425 001, Maharashtra, India
CP374.	1862	Influence of Cerium Doping on Dielectric Properties of Palmierite [K₂Pb(SO₄)₂] Sarala Natarajan ¹ , Dhatchayani Surendran ² , Govindan Vadivel ² and Sankaranarayanan Krishnasamy ^{1*} ^{1,2} Department of Physics, Alagappa University, Karaikudi 630 003, India
CP375.	1864	Enhanced dielectric constant and energy density of quenched PVDF-CCTO nanocomposite films Shobhnekkaur * , Amit L. Sharma, Ashok kumar and D.P. Singh* <i>School of Physics and Materials Science, Thapar University, Patiala-147004</i>
CP376.	1874	Effect of Rapid Thermal Annealing on structural properties of Sol-Gel based Lanthanum Doped Cerium Oxide Thin films SumitPatil, Vilas Patil, KhushabuAgrawal, Viral Barhate and Ashok Mahajan* Department of Electronics, North Maharashtra University, Jalgaon - 425001 (M.S.) India
CP377.	1885	LSPR Studies Of Silver Nanosphere Aggregates Anitha Raj ¹ , Angeline Little Flower ² , Sam Richard Cornelius ² , Annie Sujatha ² , Trilochan Sahoo ² , Aruna Priya ¹ , Pandian Chelliah ^{2,3} ¹ Department of Electronics and Communication Engineering, SRM University E-mail: arunapriya.p@ktr.srmuniv.ac.in ² Department of Physics and Nanotechnology, SRM University
CP378.	1904	MoS₂ cold cathodes on flexible substrates: Electrode separation for tuned performance R. Khan ¹ , N. S. Das ¹ , N. Besra ² , U. K. Ghorai ² and K. K. Chattopadhyay a,b 1 Thin film and Nanoscience laboratory, Dept. of Physics, Jadavpur University, Kolkata 2 School of Materials Science and Nanotechnology, Jadavpur University, Kolkata
CP379.	1909	Formulation and Evaluation of Nanoemulsion of Queriapine Fumarate for the Treatment Psychotic Disorders Sneh Priya, Marina Koland NGSM Institute of Pharmaceutical Sciences, Paneer, Deralakatte, Mangalore- - 575018,
CP380.	1916	STUDIES ON STRUCTURAL, OPTICAL, ELECTRICAL AND SURFACE PROPERTIES OF LiCoO₂ THIN FILMS T. BALAKRISHNAN ¹ , and N. SANKARASUBRAMANIAN ¹ 1 Thin Film Research Laboratory, Department of Physics, Thiagarajar college of Engineering,

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		Madurai – 625 015, Tamil Nadu State, India.
CP381.	1918	STUDIES ON STRUCTURAL AND OPTICAL PROPERTIES OF LiFePO₄ THIN FILMS . BALAKRISHNAN ¹ , N. SANKARASUBRAMANIAN ¹ and S. RAJATHI ¹ 1 Thin Film Research Laboratory, Department of Physics, Thiagarajar college of Engineering, Madurai – 625 015, Tamil Nadu State, India.
CP382.	1919	MODIFICATION ON THE STRUCTURAL, MORPHOLOGICAL AND OPTICAL PROPERTIES OF COBALT OXIDE NANOPARTICLES BY DIFFERENT ANNEALING TEMPERATURES Swetha J.V ¹ , Geetha A ¹ , Swathi Aruna U ¹ , Ramamurthi K ¹ Crystal Growth and Thin Film Laboratory 1, Department of Physics and Nanotechnology, SRM University, Kattankulathur 603203, Tamil Nadu, India.
CP383.	1922	STUDIES ON RHEOLOGICAL, STRUCTURAL, OPTICAL, ELECTRICAL AND SURFACE PROPERTIES OF LiMn₂O₄ THIN FILMS BY VARIED SPIN RATES T. BALAKRISHNAN ¹ , N. SANKARA SUBRAMANIAN ¹ , 1 Thin Film Research Laboratory, Department of Physics, Thiagarajar college of Engineering, Madurai – 625 015, Tamil Nadu State, India.
CP384.	1927	Comparative Study On The Conductivity Behavior Of XO (X=Cu, Mg) Incorporated Nano Composite Polymer Electrolytes Ravindran. D ¹ , Vickraman. P ² 1 Department of Physics, Thiagarajar College of Engineering, Madurai, India 2 Department of Physics, Gandhigram Rural University, Dindigul, India
CP385.	1929	Investigation of functional properties of polyurethane foam with nanodispersions of carbon nanofiber Pandiyarasan Veluswamy ¹ , Greeshma Girijakumrai ² , Prashanth Kannan ² , SuhasiniSathiyamoorthy ³ , Karthikeyan krishnamoorthy ⁴ , Hiroya Ikeda ¹ 1 Research Institute of Electronics, Graduate School of Science and Technology, Shizuoka University, Hamamatsu, Shizuoka, Japan – 4328011. 2 Center for Materials Science and Nanodevices, Department of Nanotechnology, SRM University, Kattankulathur, India-603203. 3 Department of Electronics and Communication Engineering, SRM University, Chennai, India – 603203. 4 Nanomaterials laboratory, Department of Mechatronics Engineering, Jeju National University, Jeju 690-756, South Korea.
CP386.	1930	Preliminary Investigation into the Effects of Carbonation on Cement- solidified Household Hazardous Waste treated with different curing media R. Gopalakrishnan ¹ , R. Jeyalakshmi ² 1 Department of Physics and Nanotechnology, Faculty of Science and Humanities, SRM University, Kattankulathur-603203, India. 2 Department of Chemistry, Faculty of Science and Humanities, SRM University, Kattankulathur- 603203, India.
CP387.	1934	NANOCOMPOSITES IN BIOMEDICAL APPLICATIONS V.Durga Prasad Pothukuchi ¹ , Syam Sundar Lingala ² 1 Department of Mechanical Engineering, M.V.S.R.Engineering College, Nadargul, Hyderabad, Telangana, India. 2 Department of Mechanical Engineering, University of Aveiro, 3810-131, Aveiro, Portugal.
CP388.	1945	Synthesis of cobalt oxide nanostructures for High performance Super capacitors Kannagi.K 1 1 PG department of physics, cauvery college for woman, Trichy-18, India. Praveena. 2 2 PG department of chemistry, cauvery college for woman, Trichy-18, India.

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CP389.	1948	<p>Facile fabrication of freestanding three-dimensional NiO nanostructures on carbon cloth for wearable device properties</p> <p>Pandiyarasan Veluswamy 1 , Kathirvel Venugopal 2* , Paulraj S 3 , Suhasini Sathiyamoorthy 4 , Hiroya Ikeda 1 ,</p> <p>1 Research Institute of Electronics, Graduate School of Science and Technology, Shizuoka University, Hamamatsu, Shizuoka, Japan – 4328011.</p> <p>2 Center for Materials Science and Nanodevices, Department of Physics and Nanotechnology, SRM University, Kattankulathur, India-603203.</p> <p>3 Department of Physics, School of Basic Sciences, Vels University, Chennai, India -600 117.</p> <p>4 Department of Electronics and Communication Engineering, SRM University, Chennai, India – 603203</p>
CP390.	1949	<p>Study of structural, morphological and optical properties of HCl based vanadium/tin oxide nanocomposites by using sol-gel method</p> <p>Mohana Priya Subramaniam, A. Geetha*, K. Ramamurthi</p> <p>Crystal Growth and Thin Film Laboratory, Department of Physics and Nanotechnology, SRM University, Kattankulathur 603203, Tamil Nadu, India</p>
CP391.	1951	<p>Investigation of SnO₂ Nanoparticles Decorated MWCNT Synthesized by Simple Impregnation Method for Hydrogen Storage Applications</p> <p>Lathapriya Vellingiri 1 , A. Karthigeyan 1* , K. Ramamurthi 1, 2 , K. Iyakutti 1</p> <p>1 Hydrogen Storage and Sensing Laboratory, 2 Crystal Growth and Thin Film Laboratory, Department of Physics and Nanotechnology, Faculty of Engineering and Technology, SRM University, Kattankulathur -603203, Kancheepuram Dt., Tamil Nadu, India.</p>
CP392.	1958	<p>SYNTHESIS OF CELLULOSE NANOFIBERS FROM SUGARCANE BAGASSE, IRON OXIDE NANOCUBES, AND THEIR COMPOSITE FOR OIL SPILL REMEDIATION</p> <p>Sruja Dave 1 , Dr. Uma V 2 , Chaitra V 2 and Pradeep N 2*</p> <p>1,2 Department of Nanoscience and Technology, Mount Carmel College, Bangalore-560052, India</p>
CP393.	1966	<p>AlGaN GaN High Electron Mobility Transistors with Boron Nitride passivation</p> <p>Gun Hee Lee, 1 Tae Hoon Seo, 2 Hee Su Kim, 1 Dong Kyu Yeo, 1 and Eun-Kyung Suh 1</p> <p>1 School of semiconductor and Chemical Engineering, Semiconductor Physics Research Center, Chonbuk National University, Jeonju 561-756, Korea</p> <p>2 Applied Quantum Composites Research Center, Korea Institute of Science and Technology, Jeonbuk 565-905, Korea</p>
CP394.	1973	<p>NANO ENHANCED ELASTOMER TO ENHANCE FRICTION FOR ROBOTIC VEHICLE WHEEL LINING</p> <p>R.SaravanaGoutham 1,*</p> <p>1 Department of Physics and Nanotechnology, SRM University, Chennai-603203, India</p>
CP395.	1975	<p>45 keV N⁵⁺ IONS INDUCED MODIFICATION ON CDS THIN FILMS</p> <p>Bakiyaraj G 1 , Kannappan R 2 , Krishna J B M 3 , Dhannasekaran R 4</p> <p>1 Department of Physics and Nanotechnology, SRM University, Chennai</p> <p>2 Department of Physics, Bannari Amman Institute of Technology, Erode</p> <p>3 UGC-DAE Consortium for Scientific Research , Kolkata</p> <p>4 Crystal Growth Centre, Anna University, Chennai</p>
CP396.	1990	<p>Synthesis and Characterisation of lipase immobilised magnetic nanoparticles and its application in biotransformation reactions</p>

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		S.Micheal Donatus 1 , S.Vijayalakshmi 1 , Ranjitha J *1 1 CO2 Research and Green Technologies Centre, VIT University, Vellore-14
CP397.	1993	Phase Formation, Surface Morphology, Optical and Electrical Properties of Ag doped SnS Thin Films For Photovoltaics Benjamin Hudson Baby and D. Bharathi Mohan* Department of Physics, School of Physical, Chemical and Applied Sciences Pondicherry University, Kalapet, Pondicherry -605014, India
CP398.	1995	SYNTHESIS OF NEODYMIUM DECORATED POLYDOPAMINE- REDUCED GRAPHNE OXIDE NANOCOMPOSITE AND ITS SENSITIVE ELECTROCHEMICAL DETECTION OF PARACETAMOL Jayaraman Vinayagam 1 , Adhimoorthy Prasannan 1 ,Sivakumar Mani 2 , Hsieh Chih Tsai 1 * 1 Graduate Institute of Applied Science and Technology, National Taiwan University of Science and Technology, Taipei, 106, Taiwan, ROC. 2 Department of Chemical Engineering and Biotechnology, National Taipei University of Technology, Taipei 106, Taiwan, ROC
CP399.	1996	Nanocarriers and anticancer drug delivery Dr. S. Lal, I.E.C. Group of Institutions, Greater NOIDA
CP400.	1998	A Supercritical processed different colored "Anatase TiO 2 " for photocatalytic applications Seethalakshmi Selvaraj 1 and Ramesh Mohan 1 1 CSIR- Central Electrochemical Research Institute(CECRI), Karaikudi, Tamilnadu, INDIA
CP401.	2001	Effect of Al substitution on Structural, Magnetic and Optical properties of Nickel Ferrite nanoparticles T.Vigneswari* and P.Raji 1 *Department of Physics, Ramco Institute of Technology, Rajapalayam – 626 117, Tamilnadu, India. 1 Department of Physics, Mepco Schlenk Engineering College, Sivakasi - 626 005, Tamilnadu, India
CP402.	2008	IMPACT OF BIOSYNTHESISED COPPER OXIDE NANOPARTICLES ON GROWTH PARAMETERS, BIOCHEMICAL CHARACTERISTICS AND YIELD OF TOMATO PLANT SPECIES (LYCOPERSICUM ESCULANTUM) Dr. Muthuswami Ruby Rajan 1 , Head and professor, The Gandhigram Rural Institute - Deemed University, Gandhigram- 624 302 Dindigul District, Tamil Nadu, India J.mekala 2 , Research Scholar. The Gandhigram Rural Institute - Deemed University, Gandhigram- 624 302 Dindigul District, Tamil Nadu, India B. Mathu Bala 3 , M.Sc Zoology Department of Biology The Gandhigram Rural Institute - Deemed University, Gandhigram- 624 302 Dindigul District, Tamil Nadu, India
CP403.	2018	Myristicaandamanicamediated antioxidant nano sol-gel as topical drug to improve cutaneous wound healing Kantha Deivi Arunachalam 1* , Sathesh Kumar Annamalai 2 1 Center for Environmental Nuclear Research, SRM University, Kattankulathur, Chennai -603203, INDIA 2 Center for Environmental Nuclear Research, SRM University, Kattankulathur, Chennai - 603203, INDIA
CP404.	2021	Enhancement of corrosion inhibition effect of ZnO nanoparticles coated mild

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		<p>steel by flame techniques K.Jeyasubramanian 1* , N.Saranya devi 1 , V.Pandiyarasan 2* , R.V.William 1 & N.Selvakumar 1 1 Centre for Nano Science and Technology, Department of Mechanical Engineering, MepcoSchlenk Engineering College, Sivakasi-626005, India. 2 Research Institute of Electronics, Graduate School of Science and Technology, Shizuoka University, Hamamatsu, Shizuoka, Japan – 4328011.</p>
CP405.	2022	<p>Facile Preparation of Nitrogen and Sulfur Co-Doped Graphene Electrocatalyst for Oxygen Reduction Reaction In Alkaline Medium Gokuladeepan.P and Karthigeyan.A* Department of Physics and Nanotechnology, Faculty of Engineering and Technology SRM University, Kattankulathur-603203, Tamilnadu, India</p>
CP406.	2025	<p>Effect Of Precursor Concentration On The Structural And Optical Properties Of Mn 2 O 3 Nanoparticles Synthesized By Facile Hydrothermal Method Swetha J.V. 1 , Geetha A 1* , Ramamurthi K 1 Crystal Growth and Thin Film Laboratory 1 , Department of Physics and Nanotechnology, SRM University, Kattankulathur 603203, Tamil Nadu, India</p>
CP407.	2039	<p>Synthesis and applications of Ruthenium Dioxide Doped zinc oxide Nanocomposite With fine Photo Catalytic, Antibacterial And Lithium Ion Battery Performances Ashwini Ashok 1 , Pandiyarasan Veluswamy 2 ,AbilarasuAnnamalai 1 ,P. Santhoshkumar 3 , Ramyameganathan 1 , VarshaPawar 1 ,Raghu Subashchandrabose 1*, and KalaivaniRaman 1* 1 Department of Chemistry, Vels University, Pallavaram, Chennai-6000117, Tamil Nadu,India.Vels University, Pallavaram, Chennai-6000117,Tamil Nadu,India 2 Research Institute of Electronics, Graduate School of Science and Technology, Shizuoka University, Hamamatsu, Shizuoka, Japan – 4328011. 3 Department of Chemical Engineering, College of Engineering, Kyung Hee University, 1732 Deogyong-daero, Gihung, Yongin, Gyeonggi, South Korea – 17104</p>
CP408.	2041	<p>NanoSpinel Ferrites for Alcohol Sensing Anu Rana 1 , Vinod Kumar 2 , Preeti Hooda 1 , O. P. Thakur 3 1 Department of Physics, SRM University, Sonapat, Haryana 2 Department of Physics, Deenbandhu Chhotu Ram Univ. of Sci. & Tech., Murthal, Haryana 3 Department of Physics, NSIT, Dwarka, New Delhi, India</p>
CP409.	2047	<p>FABRICATION OF SILVER CURCUMIN NANOCOMPOSITE AND THEIR ANTI-FUNGAL STUDIES R. Niranjana , G. Devanand Venkatasubbu a,# a Department of Nanotechnology, SRM University, Kaatankulathur, Tamil Nadu</p>
CP410.	2049	<p>EFFECT OF ANNEALING TEMPERATURE ON STRUCTURAL AND MAGNETIC PROPERTIES OF NiFe 2 O 4 NANOPARTICLES Priyadharshini, P 1 . Monisha, P 2 . Gomathi, S.S 2 , Pushpanathan, K 1 , 1 Nanomaterials Research Laboratory, Department of Physics, Government Arts College, Karur -639 005, India 2 Department of Physics, Sri Sarada College for Women, Fairlands, Salem – 636 016, India</p>
CP411.	2050	<p>FABRICATION OF CHITOSAN/TITANIUM DIOXIDE (TiO 2)/ CURCUMIN NANOCOMPOSITE FOR WOUND HEALING M. Kaushik a , G. Devanand Venkatasubbu a,# a Department of Nanotechnology, SRM University, Kaatankulathur, Tamil Nadu</p>

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CP412.	2056	<p>NON-AUXILIARY HYDRODYNAMIC MICROFLUIDIC BIOCHIP: MICROWELL (SIZE AND SHAPE) CHARACTERIZATION FOR SINGLE CELL ANALYSIS</p> <p>Jasper James A 1 , Sushmitha M 2 , Vigneswaran Narayanamurthy 3 , Premkumar R 4 , Kalpana R</p> <p>1 Student, Department of Biomedical Engineering, Rajalakshmi Engineering College, Chennai,</p> <p>2 Student, Department of Biomedical Engineering, Rajalakshmi Engineering College, Chennai,</p> <p>3 Faculty of Electrical and Electronics Engineering, University Malaysia Pahang, Malaysia,</p> <p>4 Assistant professor, Department of Biomedical Engineering, Rajalakshmi Engineering College, Chennai.</p> <p>5 Head and Dean, Department of Biomedical Engineering, Rajalakshmi Engineering College, Chennai.</p>
CP413.	2057	<p>DESIGNING A NON-AUXILIARY HYDRODYNAMIC MICROFLUIDIC BIOCHIP TO CHARACTERIZE VARIOUS CHANNEL SHAPE AND SIZE WITH LATERAL TRAPPING FOR SINGLE CELL ANALYSIS</p> <p>M.Sushmitha 1 , A. Jasper James 2 , Vigneswaran Narayanamurthy 3 , N. Padmasini 4 , R. Kalpana 5</p> <p>1 Student, Department of Biomedical Engineering, Rajalakshmi Engineering College, Chennai.</p> <p>2 Student, Department of Biomedical Engineering, Rajalakshmi Engineering College, Chennai.</p> <p>3 Faculty of Electrical and Electronics Engg., University Malaysia Pahang, Malaysia.</p> <p>4 Assistant Professor, Department of Biomedical Engineering, Rajalakshmi Engineering College, Chennai.</p> <p>5 Head and Dean, Department of Biomedical Engineering, Rajalakshmi Engineering College, Chennai.</p>
CP414.	2062	<p>NANOCELLULOSE - A NATURAL POLYMER ON THE ADSORPTIVE – REMOVAL OF DYES IN AQUEOUS MEDIUM</p> <p>R.Saravanakumar and M.Kottaisamy</p> <p>Department of Chemistry, Thiagarajar College of Engineering, Madurai – 625 015</p>
CP415.	2066	<p>Hydrothermal Synthesis Of Graphene Doped Cobalt Oxide Nanostructure For Oxygen Reduction Electrocatalyst In Alkaline Fuel Cells</p> <p>Gokuladeepan.P and Karthigeyan.A *</p> <p>Department of Physics and Nanotechnology, Faculty of Engineering and Technology, SRM University, Kattankulathur-603203, Tamilnadu, India</p>
CP416.	2071	<p>BIOCHAR AS A NANO BIO-ADSORBENT FOR WASTEWATER TREATMENT IN CONSTRUCTED WETLAND.</p> <p>1 M. Vidhya Vijay, 1 J.S. Sudarsan , 2 S.Nithiyanantham, 1 B.Anishaa Harshinee, 1 Devansh.S.Saraf, 1 Isha Shah, and 1 Rajitha.J.Rajan.</p> <p>1 Department of Civil Engineering, SRM University, Kattankulathur, Kancheepuram District, Tamilnadu, India – 603203.</p> <p>2 PG & Research Department of Physics, Thiru. Vi. Ka. Govt Arts and Science College, Thiruvavur, Tamilnadu, India – 610003</p>
CP417.	2072	<p>Thermoelectric Effect of ZnTe thin films and its characterization of photoelectrochemical applications</p> <p>M. Karunanithy 1,2 , K. Kaviyarasu 3,4 , K. Mikila Vaahini 5 , S. Kathoon Sanofar 6 , A.Ayeshamariam 1, 7* , M. Jayachandran 8</p>

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		<p>1 Research and Development Center, Bharathidasan University, Thiruchirappalli, 620024, India.</p> <p>2 Department of Physics, SKPD College, Chennai, 600 001, India.</p> <p>3 UNESCO-UNISA Africa Chair in Nanoscience's/Nanotechnology Laboratories, College of Graduate Studies, University of South Africa (UNISA), Muckleneuk Ridge, P O Box 392, Pretoria, South Africa.</p> <p>4 Nanosciences African network (NANOAFNET), Materials Research Group (MRG), iThemba LABS-National Research Foundation (NRF), 1 Old Faure Road, 7129, P. O. Box 722, Somerset West, Western Cape Province, South Africa.</p> <p>5 Department of EEE, St. Joseph's College of Engineering, Chennai-119, India.</p> <p>6 Department of ICE, St. Joseph's College of Engineering, Chennai-119, India</p> <p>7 Department of Physics, Khadir Mohideen College, Adirampattinam, 614701, India</p> <p>8 Department of Physics, Sethu Institute of Technology, Pullor, Kariapatti, 626115, India</p>
CP418.	2073	<p>PLANT-EXTRACT MEDIATED SYNTHESIS OF ZINC OXIDE NANOPARTICLES AND THEIR ANTIBACTERIAL ACTIVITY</p> <p>J. Duraimurugan 1,* , G. Suresh Kumar 1 , V. Vasudevan 2 and P. Maadeswaran 3</p> <p>1 Department of Physics, K.S. Rangasamy College of Arts and Science, Tiruchengode 637215, Tamilnadu, India.</p> <p>2 Department of Physics, K.S. Rangasamy College of Technology, Tiruchengode 637215, Tamilnadu, India.</p> <p>3 Department of Physics, Periyar University 636011, Tamilnadu, India.</p>
CP419.	2075	<p>Synthesis and Characterization of Indium Tin Oxide nanoclusters for Bio-Sensing and Antimicrobial applications</p> <p>R. Perumalsamy 1,2 , K. Kaviyarasu 3,4 , P.Ponsurya 5 , B.H. Abbas ShahulHameed 6 , A. Ayeshamariam 7,1* , M. Jayachandran 8</p> <p>1 Research and Development Center, Bharathidasan University, Thiruchirappalli, 620024, India.</p> <p>2 Department of Physics, Sir Thiyagaraya College, Chennai,600 021 India.</p> <p>3 UNESCO-UNISA Africa Chair in Nanoscience's/Nanotechnology Laboratories, College of Graduate Studies, University of South Africa (UNISA), Muckleneuk Ridge, P O Box 392, Pretoria, South Africa.</p> <p>4 Nanosciences African network (NANOAFNET), Materials Research Group (MRG), iThemba LABS-National Research Foundation (NRF), 1 Old Faure Road, 7129, P. O. Box 722, Somerset West, Western Cape Province, South Africa.</p> <p>5 Department of Mechanical Engineering, Loyola ICAM College of Engineering and Technology, Nungambakkam, Chennai-34, India.</p> <p>6 Department of Mechanical Engineering, SMR East Coast College of Engineering and Technology, Somanathapattinam, Thanjavur District, India.</p> <p>1,7* Department of Physics, Khadir Mohideen College, Adirampattinam, 614701, India.</p> <p>8 Department of Physics, Sethu Institute of Technology, Pulloor, Kariapatti, 626115 India.</p>
CP420.	2082	<p>Fabrication, Characterization And Study Of Mechanical Properties Of Graphene / Acrylonitrile Butadiene Styrene (ABS) Nano-Composites</p> <p>Vikas Sharma 1 , Meenakshi Goyal 2 and Prashant Jindal 3</p> <p>Dr. S.S. Bhatnagar University Institute of Chemical Engineering and Technology, Panjab University, Chandigarh – 160014, India 1,2 , University Institute of Engineering and Technology, Panjab University, Chandigarh 3</p>
CP421.	2083	<p>Sways of Social Media and Mobile Applications in Connected Learning: A Review</p>

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		<p>Sutherland Subitha G 1 ,Wilfred Blessing N.R 2 , Dr. Brilly Sangeetha S. 3 , Dr. Anto Kumar R.P 4 1 Assistant Professor, Maria Group of Institutions, Tamil Nadu. 1 Research Scholar, Anna University, Tamil Nadu. 3 Senior Assistant Professor, IES College of Engineering, Kerala. 4 Associate Professor, St. Xavier's Catholic College of Engineering, Tamil Nadu</p>
CP422.	2084	<p>Synthesis of NiCd-ferrite/Polyaniline Nanocomposite And Their Magnetic And Microwave Absorption Properties Ravindra N Kambale 1 * Alka Pandey 1 , Lalit C Borde 2 , K G Suresh 3 , Vaishali Bambole 1 * 1 Dept. of Physics, University of Mumbai, Mumbai, India 2 Tata Institute of Fundamental Research, Mumbai, India 3 Dept. of Physics, I I T Bombay, Mumbai, India</p>
CP423.	2086	<p>SYNTHESIS, CHARACTERIZATION AND CONDUCTIVITY STUDIES OF SOLUTION CASTED POLYMER AS A POLYMER ELECTROLYTE FOR LITHIUM ION BATTERIES Ratnakar Arumugam 1,3* , Suwathi Jain 3 , Vivekanandhan Sadaiyandi 2 , Karthika Chandrababu 2 ,Satyanarayana Nallani 3 1 Centre for Nanoscience and Technology, Pondicherry University, Pondicherry, India 2 Department of Physics and Nanotechnology, SRM Univeristy, Kattankulathur, India</p>
CP424.	1431	<p>Freeze-Casted TiO₂ Photoelectrodes with Hierarchical Porous Structures for Strong Light Harvesting Ability in Dye-Sensitized Solar Cells Seok-Min Yong 1 , Dong Seok Kim 1,2 , Wook Ki Jung 1 , K. Kamala Bharathi 1,3 , Do Kyung Kim 1 * 1 Department of Materials Science and Engineering, Korea Advanced Institute of Science and Technology (KAIST), 291 Daehak-ro, Yuseong-gu, Daejeon, Republic of Korea 2 Nuclear Fuel Safety Research Division, Korea Atomic Energy Research Institute, 111, Daedeok-daero, Yuseong-gu, Daejeon Republic of Korea 3 Department of Physical Sciences, S.R.M. University, Chennai 603203, Tamil Nadu, India</p>
CP425.	1457	<p>To Envisage Charge Transport Attributes Of Doped Porphine Devices Payal Nayyar 1 , Milanpreet Kaur 2 , Rajan Vohra 3 , Ravinder Singh Sawhney 4 1,2,3,4 Guru Nanak Dev University, Amritsar 143005</p>
CP426.	1112	<p>Dye sensitized solar cell sensitized using natural dyes and ZnO nanorods on ITO glass substrate as photoanode C.Manoharan, P.Dhamodharan* Department of Physics, Annamalai university, Annamalai nagar 608002, Tamilnadu, India</p>
CP427.	1167	<p>Diameter dependent Electronic properties of TiC Nanotubes Puspa Raj Adhikari a,d , Om prakash upadhyay a , Gopi Chandra kaphle a,b and Anurag Srivastava c*</p>
CP428.	1118	<p>Synthesis of Perovskites for Supercapacitor Application N.Gouthami a and Gunasekaran Venugopal b* a Department of Sciences and Technology, School of Engineering and Technology, Karunya University, Coimbatore -641114, Tamil Nadu, India b Department of Materials Science, School of Technology, Central University of Tamil Nadu, Thiruvavur-610 005 , Tamil Nadu, India</p>
CP429.	1124	<p>SYNTHESIS AND CHARACTERIZATION OF SILVER DOPED GRAPHITIC CARBON NITRIDE FOR BIOSENSOR APPLICATON N. Kavimozhiyan and M. Alagiri* Center for Material Science and Nano Devices, Department of Physics and Nanotechnology,</p>

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CP430.	1214	<p>Organic additives assisted synthesis of hollow ZnO/CuO hexagonal nanodisks with improved photocatalytic properties by synergetic interaction</p> <p>V. Shivani b , S. Harish a , J. Archana b , M. Navaneethan a , S. Ponnusamy b , Y. Hayakawa a</p> <p>a Research Institute of Electronics, Shizuoka University, 3-5- 1 Johoku, Naka-ku, Hamamatsu, Shizuoka 432-8011, Japan</p> <p>b Department of Physics and Nanotechnology, SRM University, Kattankulathur, Chennai, 603203, Tamil Nadu, India.</p>
CP431.	1216	<p>Effects of Metal Nanoparticles on Optical and Luminescence Properties of ITO/OLED Interface</p> <p>* M. Sridevi 1) 2) , C. Muthamizhchelvan 2) , N. Wakiya 1) , P. Gangopadhyay 3) , M. Navaneethan 4) , P. Justin Jesuraj 5) , S. Ponnusamy 2)</p> <p>1) Graduate School of Science and Technology, Shizuoka University, 3–5–1 Johoku, Naka-ku, Hamamatsu 432–8561, Japan</p> <p>2) Department of Physics and Nanotechnology, SRM University, Kattankulathur 603203, India</p> <p>3) Materials Science Group, IGCAR, Kalpakkam 603102, India</p> <p>4) Research Institute of Electronics, Shizuoka University, 3–5–1 Johoku, Naka-ku, Hamamatsu 432–8561, Japan</p> <p>5) School of Physics, Bharathidasan University, Tiruchirappalli, 620 024, India</p>
CP432.	1217	<p>Mechanical Properties and Corrosion Resistance of Plasma Spray Coatings</p> <p>A. Arulmozhia, K. Vishistab</p> <p>a Department of Physics, St..Joseph’s college of Engineering, Chennai-600 119, India</p> <p>b Department of Physics, Anna University, CEG campus, Chennai-600 025, India</p>
CP433.	1431	<p>Freeze-Casted TiO₂ Photoelectrodes With Hierarchical Porous Structures For Strong Light Harvesting Ability In Dye-Sensitized Solar Cells</p> <p>Seok-Min Yong¹, Dong Seok Kim^{1,2}, Wook Ki Jung¹, K. Kamala Bharathi^{1,3}, Do Kyung Kim^{1*}</p> <p>¹Department Of Materials Science And Engineering, Korea Advanced Institute Of Science And Technology (KAIST), 291 Daehak-Ro, Yuseong-Gu, Daejeon, Republic Of Korea</p> <p>²Nuclear Fuel Safety Research Division, Korea Atomic Energy Research Institute, 111, Daedeok-Daero, Yuseong-Gu, Daejeonrepublic Of Korea</p> <p>³Department Of Physical Sciences, S.R.M. University, Chennai 603203, Tamil Nadu, India</p>
CP434.	2470	<p>Materials for Wide Bandgap Thin film Photovoltaics</p> <p>Sreejith Karthikeyan 1,2 , Mandip Sibakoti 1 , Seyhun Hwang 1 , Tim Bontager 1 , Stephen Campbell 1</p> <p>1 Department of Electrical and Computer Engineering, University of Minnesota, MN 55455, USA</p> <p>2 Department of Physics and Nanotechnology, SRM University, Kattankulathur, India</p>
CP435.	2471	<p>Effect of Beta Carotene on Photocurrent of MEH:PPV-PCBM Bulk Heterojunction Organic Solar Cells</p> <p>Rosemary Davis¹, P.Predeep^{2*}</p> <p>¹Dept.of Physics, National Institute of Technology, Calicut, Kerala</p> <p>^{2*}Dept.of Physics, National Institute of Technology, Calicut, Kerala</p>
CP436.	2477	<p>Preparation of Nano Aluminium Metal Matrix Composites Reinforced with</p>

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		<p>Borocarbide, Hexagonal Boron Nitride And Evaluation Of Its Mechanical Properties. Anil kumar Bodukuri¹ and Eswaraiah K² ¹Department of Mechanical Engineering, Kakatiya University, Warangal, Telangana-506009 anil.kucet@gmail.com ²Department of Mechanical Engineering, Kakatiya Institute of Technology & Science, Warangal, Telangana-506009</p>
CP437.	2499	<p>Crystal growth, morphological, dielectric and microhardness studies of single crystals of Piperazinium L-tartrate B. Dhanalakshmi b , S. Ponnusamy *a and C. Muthamizhchelvan a a Center for Materials science and Nano devices, Department of Physics, SRM University, Kattankulathur-603 203. Tamil Nadu, India b Department of Physics, Asan Memorial College of Engg. & Tech., Chengalpattu - 603 203. Tamil Nadu, India</p>
CP438.	2519	<p>Electrochemical study on NiCo₂O₄ nanoparticles for high performance Energy storage applications Apurba Ray¹, Prasenjit Maji², Atanu Roy³, Priyabrata Sadhukhan⁴, Sachindranath Das^{5*} ^{1,2,3,4,5}Department of Instrumentation Science, Jadavpur University, Kolkata 700032, India</p>
CP439.	2528	<p>Extracellular Synthesis Of Iron Oxide Nanoparticle Using Endophytic Fungi And Their Application In Controlled Release Enzyme By Immobilization Techniques Divya Gopalakrishnan 1 , Nisha Elizabeth Sunny 2 , Rajeshkumar S 3 , Venkat Kumar Shanmugam</p>
CP440.	2529	<p>Influence of Rare Earth (Nd⁺³) Doping and γ Radiations on Structural and Magnetic Properties of Manganese Zinc Ferrite Nanoparticles Pranav P. Naik^{1,*}, R. B. Tangsali¹, S. S. Meena³, Pramod Bhat³ ¹Department of Physics, Goa University, Taleigao Plateau, Goa 403206, India ² Goa Medical College, Bambolim Goa 403201, India ³Solid State Physics Division, Bhabha Atomic Research Centre, Mumbai 400085, India</p>
CP441.	2538	<p>Comparative study on the heating efficiency of CTAB coated superparamagnetic MnFe₂O₄, NiFe₂O₄ and ZnFe₂O₄ nanoparticles for Hyperthermia application RD. Raland and J.P. Borah* National Institute of Technology Nagaland, India, 797103</p>
CP442.	1462	<p>Self-assembly of PTFE Particles into Fractal Pattern for the Generation of Superhydrophobic surface Authors - Nainsi Saxena¹, Dr Santanu Paria Interfaces and Nanomaterials Laboratory National Institute of Technology, Rourkela, Odisha-769008, India</p>
CP443.	1473	<p>Multi-walled Carbon Nanotube/Orthoconic Antiferroelectric Liquid Crystal Composite For Faster Display Devices Kartick Ch. Dey^{1*}, Pradip Kumar Mandal² ¹Achrya Prafulla Chandra Roy Govt. College, Siliguri-734010, WB, India ²University of North Bengal, Siliguri – 734013, WB, India</p>
CP444.	1478	<p>Facile synthesis of Hydroxyapatite doped Graphitic carbon nitride (g-C₃N₄/HAp) Nanoparticles for Enhanced Photocatalytic and Antibacterial applications. R. Nithyaa, S. Ayyappana*, M. Saranya b a,bDepartment of Physics, Government College of Technology, Coimbatore, India.</p>
CP445.	1519	<p>Ni_xCo_{1-x} layered double hydroxides on Ni foam as an electrode for high performancesupercapacitor</p>

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		<p>Monojit Mondal¹, Biswajit Das¹ and Kalyan Kumar Chattopadhyay^{1*} ¹School of Material Science and Nanotechnology, Jadavpur University, Kolkata 700032 Email: monojitmondal@ieee.org; Phone-8017395239 [*]Department of Physics, Jadavpur University, Kolkata 700032, India</p>
CP446.	1520	<p>Charge Compensation Modulated Enhanced Photoluminescence originated From K+ Co-Doped BaAl₂O₄:Eu³⁺ Nanophosphors For Solid State Lighting Applications Rituparna Chatterjee^{1*}, Subhajit Saha¹, Kalyan Kumar Chattopadhyay^{1,2}, Email-rituparna.smk@gmail.com ¹School of Materials Science and Nanotechnology, Jadavpur University, Kolkata – 32 ²Thin film and Nanoscience lab., Dept. of Physics, Jadavpur University, Kolkata</p>
CP447.	1522	<p>Carrier Tunneling across Cellulose from Polyaniline: Paper Based Field Effect Device K. Sarkar^{1,2}, K. Deb¹, A. Bera¹, A. Debnath¹ and B. Saha¹ ¹Department of Physics, National Institute of Technology Agartala, Jirania 799046, West Tripura, India ²Department of Electronics and Communication Engineering, National Institute of Technology Agartala, Jirania 799046, West Tripura, India</p>
CP448.	1523	<p>Rapid and enhanced ultrasonic assisted adsorption of binary toxic anionic dyes onto Fe-Mn-Zr trimetal oxide polyaniline nanocomposite: Optimization through Response Surface Methodology K. L. Bhowmik¹, N. H. Singh², A. Debnath², R. K. Nath³, B. Saha^{1,*} ¹Department of Physics, National Institute of Technology Agartala, Jirania, West Tripura 799046, India ²Department of Civil Engineering, National Institute of Technology Agartala, Jirania, West Tripura 799046, India ³Department of Chemistry, Tripura University, Suryamaninagar 799022, West Tripura, India</p>
CP449.	1539	<p>HIGHLY POROUS CeO₂ NANOSTRUCTURES PREPARED VIA COMBUSTION SYNTHESIS FOR SUPERCAPACITOR APPLICATIONS I. Nirmal Sivagami, P. Santhoshkumar, Suk Hyun Kang, K. Prasanna, Yong Nam Jo, Youn Cheol Joe, Chang Woo Lee* Department of Chemical Engineering, College of Engineering, Kyung Hee University, 1732 Deogyong-daero, Gihung, Yongin, Gyeonggi 17104, South Korea</p>
CP450.	1544	<p>NANOSTRUCTURED COBALT DOPED CuS FOR THERMOELECTRIC APPLICATION Anju Paulson¹, Maneesha.P¹, Muhameed Sabeer N A¹, P.P. Pradyumnan¹ ¹ Department of Physics, University of Calicut</p>
CP451.	1561	<p>SYNTHESIS OF SILVER NANOPARTICULAR FROM POMEGRANATE PEEL. Shraddha Upadhyay Assistant Profesor</p>
CP452.	1599	<p>Fe doped BaTiO₃ sensitized by Fe₃O₄ nanoparticles for improved photoelectrochemical Response</p>
CP453.	1601	<p>GROWTH AND SPECTROSCOPIC STUDIS OF MAGNESIUM ADIPATE SINGLE CRYSTALS Jumanath.E.C*, P.P. Pradyumnan Department of Physics, University of Calicut, Malappuram-673 635, Kerala, India</p>
CP454.	1606	<p>PREPARATION OF CHITIN/CHITOSAN BASE Co-Fe₂O₃/GRAPHENE</p>

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		<p>OXIDE HYBRID NANO COMPOSITES FOR SUPER CAPACITOR APPLICATION Vanitha and Chokkalingam 1 , Anandhavelu and Sanmugam 2 □ , Yogananth and Anbalagan 2 1 Research Scholar, Anna University, Chennai-600025.Tamilnadu, India. 2 Department of Chemistry, Vel Tech Multi Tech Dr.Rangarajan Dr.Sakunthala EngineeringCollege, Avadi, Chennai-600062.</p>
CP455.	1607	<p>Studies on Behavior of Nano Sized Bipolar Migrating Corrosion Inhibitors in the OPC With and Without Pozzolanic Additive. BASKAR SUNDARARAJ J 1 , REVATHI.T 1 , DHINESH M 1 , RAJAMANE N.P 2 1 Technical Officer, Center for Advanced Concrete Research SRM University, 1 Project Officer (Science), Center for Advanced Concrete Research SRM University, 1 Scientific Officer, Center for Advanced Concrete Research SRM University 2 Head CACR, Center for Advanced Concrete Research SRM University,</p>
CP456.	1609	<p>PREPARATION OF CHITIN/CHITOSAN BASE Co-Fe₂O₃/GRAPHENE OXIDE HYBRID NANO COMPOSITES FOR SUPER CAPACITOR APPLICATION Vanitha And Chokkalingam¹, Anandhavelu And Sanmugam^{2*}, Yogananth And Anbalagan² ¹ Research Scholar, Anna University, Chennai-600025.Tamilnadu, India. ²Department Of Chemistry, Vel Tech Multi Tech Dr.Rangarajan Dr.Sakunthala Engineering College, Avadi, Chennai-600062.</p>
CP457.	1610	<p>Studies On The Surface Nature Of Reinforcing Steel Bars Of Concrete In The Presence Of Vapor Generated Modifications From The Bi- Polar Chemical Additives. DHINESH M1,BASKARSUNDARARAJ J1, REVATHI.T1,RAJAMANE N.P2 1 Scientific Officer, Center For Advanced Concrete Research SRM University, 1Technical Officer, Center For Advanced Concrete Research SRM University, 1Project Officer (Science), Center For Advanced Concrete Research SRM University 2Head CACR, Center For Advanced Concrete Research SRM University</p>
CP458.	1618	<p>Electrochemical Performance of Dual Chambered Cu 2+ /Cu + -[Fe(CN) 6] 3- / [Fe(CN) 6] 4- Redox Couple Battery M. Abarna 1 , M.Sindhuja 2 , Dr.S.Harinipriya 3* 1 Department of Physics and Nanotechnology, SRM university, Kattankulathur, Chennai 603203, India 2 Electrochemical Systems Lab, SRM university, Kattankulathur, Chennai 603203, India 3 Corresponding Author, Electrochemical Systems Lab, SRM university, Kattankulathur, Chennai 603203, India</p>
CP459.	1639	<p>Tight-Binding Hubbard Model Calculation For Graphene With Local and Non-Local Coulomb Interactions Sivabrata Sahu 1 , G. C. Rout 2 1 School of Basic Sciences, Indian Institute of Technology, Bhubaneswar-751007, Odisha India 2 Condensed Matter Physics Group, Physics Enclave, Plot No-664/4825, Shree Vihar, Bhubaneswar-751031, Odisha, India</p>
CP460.	1655	<p>Activated Carbon Based Flexible Supercapacitor Shabeeba P 1 , Mohamed Shahin Thayyil 1 , M P Pillai 2 1 Department of Physics, University of Calicut-Kerala 2 Department of Electronics NIELIT-Calicut- Kerala</p>
CP461.	1660	<p>Electric Field Effect on Dopant Bands in Silicon 2D Esaki Tunnel Diodes G. Prabhudesai, 1,2 G. Greeshma, 1 M. Manoharan, 3 H. Mizuta, 3 M. Tabe, 1 and D.</p>

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		<p>Moraru 1*</p> <p>1 Research Institute of Electronics, Shizuoka University, Japan</p> <p>2 Graduate School of Science and Technology, Shizuoka University, Japan</p> <p>3 School of Materials Science, Japan Advanced Institute of Science and Technology, Japan</p>
CP462.	1669	<p>Influence of La 3+ ion on Structural, Microstructural, Electrical and Magnetic Investigations of Ni-Zn ferrites for high frequency applications</p> <p>Anupama.M.K, Srinivasamurthy.K.M, Jagadeesha Angadi.V and Rudraswamy.B *</p> <p>Department of Physics, Bangalore University, Bangalore-560056 India</p>
CP463.	1697	<p>Observation of reduced A-B superexchange interaction in Sm 3+ -Gd 3+ Substituted nanocrystalline Mn-Zn ferrites</p> <p>Jagadeesha Angadi V. 1,2 , Srinivasmurthy K.M 2 , Anupama M.K 2 , Nagireddi. K 1 , Raju B Katti 1</p> <p>Shidaling Matteppanavar 3 , Rudraswamy B. 1 , Praveena K 4</p> <p>1 Department of PG Studies in Physics, K.L.E's S.Nijalingappa College, Bangalore-10, India</p> <p>2 Department of Physics, Bangalore University, Bangalore-560056, India</p> <p>3 Department of Condensed Matter Physics & Material Science, Tata Institute of Fundamental Research, Mumbai-400005, India</p> <p>4 Department of Physics, National Taiwan Normal University, Taipei-11677, Taiwan</p>
CP464.	1718	<p>Facile One-pot Synthesis of Chain-like Titanium Dioxide Nanostructure Arrays for Self-powered Ultraviolet Sensors</p> <p>Youqing Wang 1 , Mingxiang Zhang 2 , Xiaojing Liu 1 , Yuvaraj Sivalingam 3 , Erqing Xie 2 and Weihua Han 2 *</p> <p>1 Department of Physics, Shaanxi University of Science and Technology, Xi'an 710021, China</p> <p>2 School of Physical Science and Technology, Lanzhou University, Lanzhou 730000, China</p> <p>3 SRM Research Institute, Department of Physics and Nanotechnology, SRM University, Kattankulathur 603203, Tamil Nadu, India</p>
CP465.	1719	<p>Effect of Li Concentration and Growth Temperature on Ionic Conductivity of the Epitaxial Li x La 0.55 TiO 3 (x = 0.33 and 0.66) Solid Electrolyte Thin Films</p> <p>K. Kamala Bharathi 1, * , H. Tan 2 , I. Takeuchi 3 and Leonid A. Bendersky 4,*</p> <p>1 Department of Physics and Nanotechnology, Research Institute, SRM University, Kattankulathur, Chennai – 603203</p> <p>2 FEI Company, 5350 NE Dawson Creek Drive, Hillsboro, Oregon 97124, USA</p> <p>3 Department of Materials Science and Engineering, University of Maryland, College Park, Maryland 20742, USA</p> <p>4 Material Measurement Laboratory, National Institute of Standards and Technology, Gaithersburg, Maryland 20899, United States</p>
CP466.	1726	<p>Visible light Photoconductivity studies of pyrene based tetratopic ligands functionalized ZnO nanorods</p> <p>Surya E 1 , David C 1 , Elakia M 1 , Surya V. J 1,2 , Kar J. P, Yuvaraj S 1,2*</p> <p>1 Department of Physics and Nanotechnology, SRM University, India</p> <p>2 Research Institute, SRM University, India</p> <p>3 Department of Physics, National institute of Technology, Rourkela-769008, India</p>
CP467.	1742	<p>Photophysical investigation on tungstate based nanocomposites for gas Sensing</p>

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		G. Palanisamy and T. Pazhanivel* Smart materials interface laboratory, Department of Physics, Periyar University, Salem - 636 011
CP468.	1748	INVESTIGATIONS ON PREPARATION AND CHARACTERISATION OF SULPHIDE NANO THIN FILMS USING DIFFERENT CHEMICAL TECHNIQUES S. Jayasankari 1, Dr. P. Mani 2, R. Kumar 1, P. Baskaran 1, K. Ramaganesan 1 1 Research Scholars, Department of Physics, Anna University – BIT Campus, Tiruchirappalli – 620 024 2 Asst. Prof. in Physics, Anna University – BIT Campus, Tiruchirappalli – 620 024.
CP469.	1758	Nanostructured Perovskite Catalysts Synthesized by Reactive Grinding for Diesel Soot Oxidation Anupama Mishra 1, Ram Prasad 2 1 Department of Chemical Engineering, University of Petroleum and Energy Studies, Dehradun-248007, Uttarakhand, India amishra@ddn.upes.ac.in Department of Chemical Engineering and Technology, Indian Institute of Technology (BanarasHindu University), Varanasi 221005, Uttar Pradesh, India
CP470.	1770/2335	Supercapacitor Application of Nickel Phthalocyanine Nanofiber and Reduced Graphene Oxide Composite K. Priya Madhuri and Neena S. John Centre for Nano and Soft Matter Sciences, Jalahalli, Bangalore 560013, India
CP471.	1902	Optical and Transport Properties of Ir Doped ZnO T S Suraj 1, K Adithya 1, K Sethupathy 2, M S Ramachandra Rao 1 1 Nano Functional Materials Technology Centre (NFMTC), Department of Physics, Indian Institute of Technology Madras (IITM), Chennai -600036 2 Low temperature physics Laboratory, Department of Physics, Indian Institute of Technology Madras (IITM), Chennai -600036
CP472.	1956	Synthesis, Structural, Microstructural And Electrical Properties Of Sr²⁺ And Gd³⁺ Co-Doped Ceria Electrolyte System For LT-SOFC Koteswararao P *1, M Buchi Suresh 2, B N Wani 3, P V Bhaskara Rao 4, P.Varalaxmi 5 1 Department of physics, Institute of Aeronautical Engineering College, Dundigal, Hyderabad, Telangana. 2 Center for Ceramic Processing, International Advanced Research Centre for Powder Metallurgy and New Materials (ARCI), Hyderabad-500005, AP, India. 3 Chemistry Division, Bhabha Atomic Research Centre, Trombay, Mumbai, Physics Department, 4 St. Mary's Engineering College, Deshmukhi, R.R (DT), 5 Department of physics, Anurag engineering college, Hyderabad, Telangana.