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Table 1: Selected Abstracts for Oral Presentations (Page 2-21)

Table 2: Selected Abstracts for Poster Presentations (Page 22 - 77)

**Irrespective of Oral and Poster presentation, all paper will be considered for
Journal Publications.**

Sl.NO	Author's name	Affiliation of Author's	Abstract title	Abstract No
1	Gajalakshmi Sekara, Amaravathy Sivakumarb, Amitava Mukherjeea, Natarajan Chandrasekarana,	a Centre for Nanobiotechnology, VIT University, Vellore 632014, Tamil Nadu, India b School of Advanced Sciences, VIT University, Vellore 632014, Tamil Nadu, India	Interaction studies of hog and bacillus amylase with metal and metal oxide nanoparticles	AB008
2	Ahmed Suhail, Kamrul Islam, Genhua Pan,* David Jenkins and Nick Fry	Wolfson Nanomaterials & Devices Laboratory, School of Computing, Electronics and Mathematics, Faculty of Science & Engineering, Plymouth University, Devon, PL4 8AA, UK	Shaping of graphene using Argon plasma	AB009
3	Ruwaidah A. Musstaf ¹ , David Jenkins ¹ , Awadhesh Jha ²	1School of Computing, Electronics & Mathematics, Plymouth University, UK. 2School of Biological Sciences, Plymouth University, UK	Fluence of low level laser therapy affects proliferation and DNA damage in THP-1 cells	AB012
4	Dr. D. Kalpana	Senior Scientist CECRI-Madras unit, CSIR Madras Complex	Nanostructured catalysts and support materials for PEMFCs	AB019
5	G.O. Obaiah ^{1, a} , K.H. Shivaprasad ^{*1} , K. Srikanth bhat ¹	1Research centre, Talent development centre, IISC, Kudhapur, Chitradurga. aDept. of chemistry, Vijayanagara Sri Krishna Devaraya University, Bellary.	A Potential Use γ -Al ₂ O ₃ Coated Cordierite Honeycomb Reinforcement of Ti _{0.97} Pd _{0.03} O ₂ Catalyst for Selective High Rates in H ₂ +O ₂ Recombination	AB031

6	Shiji R ¹ , Manu M Joseph ^{1,2} , Unnikrishnan BS ¹ , Preethi GU ¹ , Sreelekha TT ¹	1. Laboratory of Biopharmaceutics & Nanomedicine, Division of Cancer Research, Regional Cancer Centre, Thiruvananthapuram-695011, Kerala, India 2. Chemical Sciences & Technology Division, Organic Chemistry Section, CSIR-National Institute for Interdisciplinary Science & Technology (CSIR-NIIST), Pappanamcode, Thiruvananthapuram-695019, Kerala, India.	Synthesis of highly fluorescent galactomannan - gold nanoclusters for cellular imaging	AB041
7	Liji John ^a , Israr Ul Hassan ^b , Rajendran Sobhana. Amritha ^a , Issac Hubert Joe ^c , Raphael Selwin Joseyphus ^{a,*}	aDepartment of Chemistry, Mar Ivanios College (Autonomous), Thiruvannathapuram-695015, Kerala, India bDepartment of Physics, Mar Ivanios College (Autonomous), Thiruvananthapuram-695015, Kerala, India cDepartment of Mathematics and Sciences, Dhofar University, Salalah, Sultanate of Oman	SYNTHESIS, STRUCTURAL CHARACTERIZATION AND MORPHOLOGICAL STUDIES OF NANOCRYSTALLINE CADMIUM OXIDE BY WET-CHEMICAL METHOD	AB047
8	K. Shwetha, V. Deepa, S. Prasanna Kumar, K. Santhosh Kumar, Meduri Ravi	Microwave Tube Research and Development Cetnre, DRDO, Ministry of Defence, BE complex, Jalahalli, Bangalore - 560093	Porous pellets of tungsten Nano powder: Investigation of surface porosity of Machined Surfaces	AB057

9	M. Shiva Prasad, D. Karthik and S. Sakthivel*	a Centre for Solar energy materials, International Advanced Research Centre for Powder Metallurgy and New Materials, Balapur P.O., Hyderabad - 500005, Telangana, India.	Development of novel tandem absorber layer with high optical performance and high weather stability for medium temperature Concentrated solar thermal power applications using nanostructure materials.	AB058
10	Gounder Thangamani J ^a , Kalim Deshmukh ^b , K. Chidambaram ^a , Basheer Ahamed ^b , Kishor Kumar Sadasivuni ^c , Deepalekshmi Ponnamma ^d , Mariam Al-Ali AlMaadeed ^d , S. K. Khadheer Pasha ^{a*} ,	aDepartment of Physics, School of Advanced Sciences, VIT University, Vellore - 632014, TN, India. bDepartment of Physics, B. S. Abdur Rahman University, Chennai - 600048, Tamil Nadu, India. cMechanical & Industrial Engineering Department, Qatar University, P.O. Box 2713, Doha, Qatar. dCenter for Advanced Materials, Qatar University, P.O. Box 2713, Doha, Qatar.	Synergistic Effect of Copper Oxide Nanoparticles and Graphene Oxide on the Structural, Morphological and Gas Sensing Properties of Polyvinyl alcohol Nanocomposites	AB066
11	Kalvakunta Paul Reddy and A. Murugadoss*	aNational Center for Nanosceicne and Nanotechnology, University of Madras, Guindy Campus, Chennai – 600 025, Tamil Nadu, India.	One-Pot High Yield synthesis of Branched gold Nanoparticles as Excellent catalysts toward the Reduction of Nitroarenes	AB070
12	Arun K Prasad ^{a,*} and S. Dhara ^a	^a Nanomaterials and Sensors Section, Materials Science Group, Indira Gandhi Centre for Atomic Research, HBNI, Kalpakkam 603102, Tamil Nadu, India.	Growth and NO ₂ sensing of Vanadium Oxide Nanorods	AB074

13	Meenakshi . M, Krisnendu Biswas *	School of Advanced sciences, Chemistry division, VIT University, Chennai Campus Chennai-127, Tamilnadu, India.	Antimicrobial studies of copper-chitosan nanocomposite prepared by green method	AB089
14	Ruma Ghosh ^{a*} , Sumita Santra ^b , M. K. Deshmukh ^a , Prasanta Kumar Guha ^c	aDepartment of Electrical and Electronics Engineering, BITS Pilani, K. K. Birla Goa Campus, Zuarinagar, Goa – 403 726, India. bDepartment of Physics, IIT Kharagpur, Kharagpur, West Bengal – 721 302, India. cDepartment of Electronics and Electrical Communication Engineering, IIT Kharagpur, Kharagpur, West Bengal – 721 302, India.	Highly Efficient H ₂ Sensors using Reduced Graphene Oxide–Pt Nanocomposites at Room Temperature	AB096
15	Kuwar Mausam ¹ , Dr.Kamal Sharma ² , Pradeep Kumar Singh, Aniruddha ⁴	1,2,3,4 Mechanical Engg. Deptt. GLA University, Mathura	Optimization of Process Productivity for Multi Phase Carbon Nanotubes(CNT) Reinforced Nanocomposites using Taguchi-Fuzzy Model	AB098
16	Thanusu Parandhaman, Baskaran Ramalingam and Sujoy K. Das [*]	Biological Materials Laboratory, Council of Scientific and Industrial Research (CSIR) Central leather Research Institute (CLRI), Chennai-600020, India.	Antibacterial Effects of Biogenic Silver Nanoparticles on Surface Ultrastructure and Nanomechanical Properties of Gram-Negative Bacteria viz. Escherichia coli and Pseudomonas aeruginosa	AB100
17	S. Saravanan [*]	Centre for Photonics and Nanotechnology, Sona College of Technology, Salem - 636 005, Tamil Nadu, India.	Stacking of InAs QDs with different spacer layer thickness on GaAs substrate by Molecular Beam Epitaxy	AB101

18	D.V. Awale, S.C. Bhise, S. K. Patil, and S.S. Kolekar*	Analytical Chemistry and Material Science Research Laboratory, Department of Chemistry, Shivaji University, Kolhapur 416004, Maharashtra, India	Supercapacitor Application of 3-(3'-Hydroxypropyl)-1,2-Dimethylimidazolium Chloride Electrolyte Using Copper Oxide Prepared By Chemical Bath Deposition Method	AB109
19	D. Saritha , U.V. Varadaraju*	Malla Reddy engineering college, Hyderabad-500072, India Materials Science Research Centre and Department of Chemistry, IIT Madras, Chennai-600036, India	Sol- Gel synthesis and electrochemical studies on $\text{Mo}_3\text{Nb}_2\text{O}_{14}$	AB113
20	D Rithesh Raj and C Sudarsanakumar*	School of pure and Applied Physics, Mahatma Gandhi University, Kottayam – 686560, India	Surface Plasmon Resonance based fiber optic dopamine sensor using BSA- gold nano-cluster/polymer composite	AB116
21	V P Rameesha ¹ , T Raguram ² , K S Rajni ^{2*}	1 MESKVM College, Valanchery, Kerala, India 2 Dept. of Sciences, Amrita School of Engineering, Amrita Vishwa Vidyapeetham, Amrita Nagar, Ettimadai, Coimbatore – 641 112, Tamilnadu, India	Synthesis and Characterization of Nickel Ferrite Nanoparticle prepared by Sol-Gel Technique.	AB120
22	Lakkanna S.Chougala ^a , M. S. Yatnatti ^a , Ravi K. Linganagoudar ^b , J.S.Kadadevarmath ^{a*}	aDepartment of Physics, Karnatak University, Dharwad-580 003 bDepartment of Electronics, Karnatak University, Dharwad-580 003	Synthesis and characterization of ZnO nanoparticles and its application to Dye sensitized solar cell	AB131

23	Parvathy Venu M ^a , Shrisha B. V ^a , Dushyant Kushavah ^b , K. M. Balakrishna ^a , K. Gopalakrishna Naik ^{a*}	aDepartment of studies in Physics, Mangalore University, Konaje- 574199, Karnataka, India. bIndian Institute of Technology, Powai, Bombay-400076, Maharashtra, India.	Fabrication of n-ZnO:Al/p- Si(100) Heterojunction diode and its Characterisation	AB135
24	Sunil Kumar*, Sweety Supriya, and Manoranjan Kar	Department of Physics, Indian Institute of Technology, Patna, Bihta- 801103, India.	Electrical properties and Relaxation Behavior of Zinc Substituted Cobalt Ferrite	AB136
25	Sweety Supriya*, Sunil Kumar and Manoranjan Kar	^a Department of Physics, Indian Institute of Technology Patna, Patna- 801103, India.	Electrical Behavior of Nanocrystalline Mn substituted Cobalt Ferrite	AB137
26	M. K. Mohanapriya ¹ , Kalim Deshmukh ² , G. Thangamani ¹ , K. Chidambaram ¹ , M. Basheer Ahamed ² , S. K. Khadheer Pasha ^{1*}	1Department of Physics, School of Advanced Sciences, VIT University, Vellore-632014, TN, India 2Department of Physics, B. S. Abdur Rahman University, Chennai- 600048, TN, India	Enhanced Quality Factor of Polyvinyl formal (PVF) Based Nanocomposites Filled with Zinc Oxide and Carbon Black Nanoparticles for High-Q Capacitor Applications	AB138
27	Aruna Chandra Singh ^{1#} , Souvik Pal ¹ , R. Balasubramaniam ² , Sunil Bhand ^{1*}	1Biosensor Lab, Department of chemistry, BITS, Pilani-K.K. Birla Goa Campus, Goa- 403726, India 2Precision Engineering Division, Bhabha Atomic Research Centre, Trombay, Mumbai- 400085, India	Zinc oxide nanoparticles enhanced sensitive detection of Organophosphates residues in water	AB144
28	K. Rajavel ¹ , R. T. Rajendra Kumar ^{2*}	1Advanced Materials and Devices laboratory, Department of Physics, Bharathiar University, Coimbatore -6410 46, Tamil Nadu, India. 2Department of NanoScience and Technology, Bharathiar University, Coimbatore - 641046, Tamil Nadu, India.	Role of Functional Groups on Methanol Sensing Properties of Multiwalled Carbon Nanotubes	AB147

29	C.Venkatesh ^{*a} , , N.Sundaramoorthy ^b , V.Aswinprasad ^c	^{*a} Associate Professor,Department of Mechanical Engineering, Dhirajlal Gandhi College of Technology, Salem ^b ,Professor ,Department of Mechanical Engineering, Dhirajlal Gandhi College of Technology, Salem ^c Graduate student,Department of Mechanical Engineering, Knowledge Institute of Technology, Salem	Optimization of Process Parameters of Pulsed Electro Deposition Technique for Nanocrystalline Nickel Coating using Grey Relational Analysis (GRA)	AB148
30	Dr. Uma Nerle ^{1*} , Dr. M. K. Rabinal ²	1 Associate Professor, (Department of Physics KLE's S.K. Arts & H.S.K.Science Institute , Hubballi, Karnatak, India) 2Professor (Department of studies in Physics, Karnatak University, Dharwad, Karnatak, India)	Efficient Solution Processed Thin films: Impact of thiol treatment on the conductivity, mobility in CdS thin films	AB153
31	Mohan A ^a , Rajesh S ^{b*} , Srikesh. G ^c	^a Thin film laboratory, Department of Physics, Karunya University, Coimbatore – 641114. ^b Department of Nanoscience and Technology, Karunya University, Coimbatore – 641114. ^c Department of Chemistry, Karunya University, Coimbatore – 641114.	CuInSe ₂ formation through Cu ₂ Se-In ₃ Se ₂ multilayer Structures prepared for Solar cell applications	AB155

32	S. K. Suresh Babu a, Jackuline Moni b* S. Lokesh a, S. Rajesh a	a Centre for Research in Nanotechnology, b VLSI Laboratory, Dept. of Electrical Technology, Karunya University, Coimbatore, Tamil Nadu, India.	Fabrication of P-Channel ZnO / ZnO Gate Dielectric Thin Film FET using Pulsed Laser Deposition	AB160
33	Elamathi. P, Murali Krishna Kolli, G. Chandrasekar*	Chemistry Division, School of Advanced Sciences, VIT Chennai.	Ecofriendly Synthesis of Vanillin using FeMCM-41 Nano Catalytic Reactor	AB163
34	Vipin Kumar*a,b	a Department of Physics, Indian Institute of Technology, Guwahati – 781 039, Assam, India. bDepartment of Metallurgical Engineering and Materials Science, Indian Institute of Technology, Bombay, Mumbai – 400 076, Maharashtra, India.	Relaxation Dynamics of Carriers in Monolayer Graphene	AB167
35	V. Chandrakala, Neena Bachan, P. Naveen Kumar, K. Pugazhendhi, B. Praveen, Tenzin Tenkyong and J. Merline Shyla*	Department of Physics, Energy Nanotechnology Centre (ENTeC), Loyola Institute of Frontier Energy (LIFE), Loyola College, Chennai 600 034.	Investigation of the morphology based properties of multidimensional Titanate Nanostructures for application as proficient Photoanodes	AB168
36	K. Nithiya Priya, S. Dhanalakshmi, N. Ganesh, A. Kumarasamy, P. Sivakumar, V. Srinivasa	Combat Vehicles Research & Development Establishment (CVRDE), Ministry of Defence, DRDO, Avadi, Chennai 600 054. aGITAM University, Visakhapatnam 530 045.	Thermophysical properties and corrosion characteristics of water-ethylene glycol based MWCNT coolants for diesel engines	AB169
37	K. M. Smita, L. Stanley Abraham*, R. Vasantharaja and R. Thirugnanasambandam	Centre for Ocean Research, Sathyabama University, Jeppiaar Nagar, Rajiv Gandhi Road, Chennai 600119, India.	Synthesis of Reduced Graphene oxide using methanolic extract of Sargassum ilicifolium and characterization of bioactive compounds for its anticancer activity against HT 29 cell line	AB174

38	Sumithra Sivadas Menona, R. Janania, K. Baskarb, Shubra Singha*	a Crystal Growth Centre, Anna University, Chennai - 600025. b Manonmaniam Sundaranar University, Thirunelveli - 627012.	Developing ZnO based (oxy)nitrides by solution combustion technique and realization of photocatalytic activity by dye degradation.	AB177
39	Abdo Hezam ^{a, *} , Q.A. Drmash ^b , K. Namratha ^a and K.Byrappa ^a	a Centre for Materials Science and Technology, University of Mysore, Vijaya Bhavan, P.B.No.21, Manasagangothri, Mysuru-570006, India b Physics Department and Center of Research Excellence in Nanotechnology, King Fahd University of Petroleum and Minerals, Dhahran 31261, Saudi Arabia	Facile Synthesis of Heterostructured Bi ₂ O ₃ -CeO ₂ -ZnO Photocatalyst with Enhanced Visible-Light Photocatalytic Activity	AB182
40	R. Anitha, Vavilapalli Durga Sankar and Shubra Singh*	Crystal Growth Centre, Anna University, Chennai - 600025, Tamil Nadu, India.	Silicon doped Gallium Nitride/PEDOT:PSS polymer hybrid heterojunction for Light Emitting Diodes	AB185
41	Bikram Keshari Das, Tanushree Das, Kajal Parashar, S.K.S. Parashar*	School of Applied Sciences, Nano Sensor Lab, KIIT University, Bhubaneswar-751024, Odisha, India	Band gap tuning and ac conductivity of nanocrystalline Nickel doped ZnO synthesized by High Energy Ball Milling	AB187

42	Ann Rose Abraham a, B. Raneesh c, Sabu Thomas b, Nandakumar Kalarikkal*a,b	aSchool of Pure and Applied Physics, Mahatma Gandhi University, Kottayam-686 560, India bInternational and Inter University Centre for Nanoscience and Nanotechnology, Mahatma Gandhi University, Kottayam-686 560, India cDepartment of Physics, Catholicate College, Pathanamthitta, Kerala-689 645, India.	Design, Development and Surface engineering of Superparamagnetic Magnesium Ferrite Nanoparticles with Biocompatible Polymeric Shell for Biomedical Applications	AB189
43	Lagen Kumar Pradhan*, Rabichandra Pandey, Rajnish Kumar and Manoranjan Kar	aPhysics Department, Indian Institute of Technology Patna, Patna-801 103, Bihar, India.	Composition driven magneto-electric coupling in CFO-PZT multiferroic nanocomposite	AB200
44	V. Manjunath, and V. Rajagopal Reddy*	Department of Physics, Sri Venkateswara University, Tirupati 517 502, Andhra Pradesh, India	Electrical properties of Au/n-GaN Schottky contacts with Sm ₂ O ₃ interlayer	AB201
45	Arpan Maiti a*, Achyut Maity a and Tapas Kumar Chini a	a Surface Physics and Material Science Division, Saha Institute of Nuclear Physics, Kolkata - 700064, West Bengal, India.	Plasmonic Response of Individual Gold Nano-Octahedra using Cathodoluminescence Spectroscopy and Imaging	AB205
46	G.R. Devi (a), T.N. Sairam(b), S. Subramanian(b), S. Abhaya(b), G. Amarendra(b), and M.S. Ramachandra Rao(a)*	a Department of Physics, Nano Functional Materials Technology Centre and Materials Science Research Centre, Indian Institute of Technology (IIT) Madras, Chennai 600036, India b Materials Science Group, Indira Gandhi Centre for Atomic Research, Kalpakkam 603102, India	Effect of Li and Mn codoping in ZnO: A study of defect distribution and complex formation in the system	AB213

47	S. K. Suresh Babu a, Jackuline Moni b*, Naveen Kumar T R a, Zipporah Rini Benher b, Prasanth Raj Benjamin J a, S. Rajesh a	a Centre for Research in Nanotechnology, b VLSI Laboratory, School of Electrical Technology, Karunya University, Coimbatore, Tamil Nadu, India.	Fabrication of Carbon Nano Tube Film Field Effect Transistor	AB215
48	Dushyant Kushavah1, P. K. Mohaptra2, Pintu Ghosh2, P. Vasa2, D. Bahadur3 and B. P. Singh2,	1Centre for Research in Nanotechnology & Science, IIT Bombay-400076, Mumbai, India 2Department of physics, IIT Bombay, Mumbai-400076, India 3Department of Metallurgical Engineering and Materials Science, IIT Bombay, Mumbai-400076, India	Size Dependent Study of Exciton-Phonon Coupling and Role of Interfacial States in CdSe Quantum Dots	AB226
49	Sabina Rahamana*, M. Anantha Sunilb, K.G. Deepab, Kaustab Ghoshc and Habibuddin Shaikd	a Department of ECE, BMS Institute of Technology, Bangalore-560064, Karnataka, India. b Department of Instrumentation & Applied Physics, Indian Institute of Science, Bangalore - 560012, Karnataka, India. c Department of SENSE, VIT Chennai campus, Chennai-600127, Tamilnadu, India. d Department of Physics, Nitte Meenakshi Institute of Technology, Bangalore-560064, Karnataka, India	The Effect of Cu/Sn ratio on the Cu ₂ SnS ₃ Films by Low Cost Ultrasonic Spray Pyrolysis Technique	AB238
50	Rohini.Ba, Kingson Solomon Jeevaraj.Ab	aKarunya University, Coimbatore-641114, Tamilnadu, India bArignar Anna government arts college, Nammakal- 637002, Tamilnadu, India.	Comparative Study of Thermal conductivity and Viscosity Measurement on Binary fluid (DEA +THF) and Hybrid CuO Nano fluid (CuO + DEA +THF)	AB241

51	Sai Praneeth Thota a*, Sai Manoj Kaja a,b, Aditya Kurdekar b,V. Sai Muthu Kumar b, Praveen V Vadlanic, Belliraj Siva Kumar. A	a Department of Chemistry, Sri Sathya Sai Institute of Higher learning, Prasanthi Nilayam, A.P-515134. b Department of Physics, Sri Sathya Sai Institute of Higher learning, Prasanthi Nilayam, A.P-515134. c Bioprocessing and Renewable Energy Laboratory, Departments of Grain Science and Industry & Chemical Engineering, , Kansas State University, Manhattan, KS 66506	Facile one-pot hydrothermal synthesis of carbon dots from medicinal, parasitic and edible plant biomass.	AB242
52	Madhihalli Basavaraju Divakaraa,b, Chunchanakuppe Renukaprasad Ravi Kumarc, Bhadrapura Lakkappa Dhananjayad, Narendra Reddy and Mysore Sridhar Santosha*	aCentre for Incubation, Innovation Research and Consultancy, Jyothy Institute of Technology, Tataguni, Off Kanakapura Road, Bengaluru- 560 082, India. bVisvesvaraya Technological University- Research Resource Centre, Jnana Sangama, Belagavi-590 018, India. cDepartment of Basic Sciences, East West Institute of Technology, Bengaluru-560 091, India. dToxicology and Drug discovery Unit, Centre for Emerging Technologies, Jain Global Campus, Jakkasandra Post, Kanakapura Taluk, Ramanagara District-562 112, India.	Insulin Modulated Self- Assembled Nanostructures of IAPP under the Amyloid Disease State	AB257

53	Saroj Vernekar ¹ , S V H N Krishna Kumari ² , Y. V K. Ravi Kumar ³	Asst. Professor, Stanley College of Engineering and Technology for Women, Hderabad, India ¹ Professor, Department of Mathematics, Vidya Jyothi Institute of Technology, Hyderabad, India ² Asst. Professor, Practice School Division, Birla Institute of Technology & Science- Pilani, Hyderabad, India ³	A Study of Optically Thick Nanofluid Flow Past an Oscillating Vertical Plate in The Presence of Magnetic field with Porous medium in an Inclined Channel	AB261
54	Nandimalla Vishnu, Mansi Gandhi and Annamalai Senthil Kumar*	a Nano and Bioelectrochemistry Research Laboratory, Department of Chemistry, School of Advanced Sciences, Vellore Institute of Technology University, Vellore-632014, India.	Low-Cost Pencil Graphite Electrodes for Simultaneous Electrochemical Sensing of Tea Polyphenols	AB267
55	Ananya Deb, Vimala R*	School of Biosciences and Technology, VIT University, Vellore-632014, Tamil Nadu, India	Biofilm formation by Pseudomonas species onto graphene oxide-TiO ₂ nanocomposite coated catheters: in-vitro analysis	AB268
56	Ajith James Josea, ^{b*} , Sam John ^b , George Jacob ^c , Runcy Wilson ^d , Muthukaruppan Alagara,	aDepartment of Chemical Engineering, Anna University, Chennai- 600 025, India. bPostgraduate & Research Department of Chemistry, St.Berchmans College (Autonomous), Changanassery, Kerala-686101, India cCenter for Nanotechnology Research, VIT University, Vellore, Tamil Nadu – 632014 dSchool of Chemical Science, Mahatma Gandhi University, Kottayam, Kerala, 686560, India.	Development and Characterization of Organoclay Filled Polyetherimide Nanocomposites for Anticorrosive coatings	AB274

57	Malavika Ca, Paulose Thomasa and Ajith James Joseb	aOptoelectronic Lab, St.Berchmans College (Autonomous), Changanassery, Kerala- 686101. bPostgraduate & Research Department of Chemistry, St.Berchmans College (Autonomous), Changanassery, Kerala- 686101, India	Exploring Optoelectronic Applications of Chitosan Nanocomposites	AB277
58	V. Vignesh ¹ , R. Nirmala ² , Heon Ju Lee ³ , and R. Navamathavan ^{1*}	¹ Division of Physics, School of Advanced Sciences, VIT University Chennai Vandalur – Kelambakkam Road, Chennai 600 127, India ² Department of Organic Materials and Fiber Engineering, Chonbuk National University, Jeonju 561 756, South Korea ³ Department of Nuclear and Energy Engineering, Jeju National University, Jeju – 690 756, South Korea	A study on the mechanical properties of low-dielectric constant SiOC(-H) thin films	AB285
59	Marulasiddeshwara M. B, P. Raghavendra Kumar.	Department of Chemistry, UCS, Tumkur University, Tumkur-572 103, Karnataka, India.	Hydrogenation of carbonyl compounds to alcohol reaction catalyzed by lignin supported palladium nanoparticles	AB289
60	Shijo Thomas*, and Umasankar. V	aSchool of mechanical and Building Sciences, VIT University Chennai campus, Chennai-600 127, Tamil Nadu, India	Influence of MWCNT on Precipitation Hardenable Aluminium Alloy Matrix on Age Hardening and Solutionizing	AB292
61	Niketha Konikkaraa and L. John Kennedy*	a Materials Division, School of Advanced Sciences, Vellore Institute of Technology (VIT) University, Chennai Campus, Chennai - 600 127, India	Leather waste/sugar derived graphitizable carbon for high performance supercapacitor applications	AB299

62	P. Bharath Kumar and S. Srinivas*	a Department of Mathematics, VIT University, Vellore - 632 014, Tamil Nadu, India.	Pulsating flow of non-Newtonian nanofluid in porous channel with magnetic field	AB318
63	Suresh Kumar Kailasa, ^{a*} Mittal L. Desai, ^a Hirakendu Basu, ^b P. K. Sharma, ^b and Rakesh Kumar Singhal ^b	aDepartment of Applied Chemistry, S. V. National Institute of Technology, Surat 395007, India bAnalytical Chemistry Division, Bhabha Atomic Research Center, Trombay, Mumbai 400085, India	Influencing Factors on Fluorescence Properties of Mn ²⁺ -doped ZnS Quantum Dots with Glutathione for Cu ²⁺ and Hg ²⁺ ions sensing	AB320
64	R.Nanthakumar* ¹ , C.Rose ² , K.Chitra ¹ , S.Seethalakshmi ³	1. Faculty of Pharmacy, Sri Ramachandra University, Porur, Chennai-600116 2. Chief Scientist & Chairman Biology Cluster, CSIR- Central Leather Research Institute, Adyar, Chennai-600020 3. Department of Pharmacology, ESI Medical College & PGIMSR, K. K. Nagar, Chennai	SEAWEED MEDIATED BIOFABRICATION OF SILVER NANOPARTICLES AND ITS CHARACTERISATION	AB325
65	R.Karthick ^a , and R.Srinivasan ^{b*}	aDepartment of Physics, PSNA College of Engineering and Technology, Dindigul - 624307, Tamil Nadu, India. bDepartment of Physics, Thiagarajar College, Madurai - 625009, Tamil Nadu, India.	A study on the magneto-optic properties of Co _{1-x} Zn _x Fe ₂ O ₄ nanoferrofluids	AB330
66	S.M.Kabbur ^{a*} , U.R.Ghodake ^a , S.S.Suryavanshi ^b	aDepartment of Physics and Electronics, Shri Shivaji Mahavidyalaya, Barshi-413411, Solapur, Maharashtra, India b School of Physical Sciences, Solapur University, Kegaon,	Dysprosium-substitution induced changes in structural,morphological and electrical properties of novel NiCuZn ferrites	AB334

		Solapur-413255, Maharashtra, India		
67	Shivangi Kosta, ^a Prerna Bansal, ^b N. K. Sahu ^{*a} and D. Bahadur ^{*b}	aCentre for Nanotechnology Research, VIT University, Vellore -632014, Tamil Nadu, India bDepartment of Metallurgical Engineering and Materials Science, Indian Institute of Technology Bombay, Mumbai 400 076, India	Reduced Graphene Oxide/Poly(N- vinylpyrrolidone) Nanocomposite for Ultralow Detection of Ascorbic acid	AB346
68	Ritu Singha*, Avyakt Kumar Pathaka, Sanjeev Kumara,b	aDepartment of Environmental Science, School of Earth Sciences, Central University of Rajasthan, Kishangarh, Ajmer – 305801, Rajasthan, India. bSchool for Environmental Sciences, Babasaheb Bhim Rao Ambedkar University, Lucknow-226025, Uttar Pradesh, India	Application of Nanoparticles for Remediation of Textile Industry Wastewater	AB349
69	Kalaiselvan C ^a and Lokavarapu Bhaskara Rao ^{b,*}	a, b School of Mechanical and Building Science, VIT University-Chennai Campus, Vandalur- Kelambakkam Raod, Chennai - 600 127, Tamil Nadu, India	Highly Accelerated Life Testing of Nano Ceramic Capacitors using Capacitor Test Board by Lognormal Method and Integrated with PLM Solutions	AB355

70	V. Sathiyaraj ¹ , G. Balakrishnan ^{2*} , M. Dinesh ² , P. Naveen Chandran ¹ , C. Thamotharan ¹	1Department of Automobile Engineering, Bharath Institute of Science and Technology, Bharath University, Chennai-600073, India 2Department of Nanotechnology, Centre of Excellence in Patterned Multiferroics & Nanotechnology, Bharath Institute of Science and Technology, Bharath University, Chennai-600073, India	Microstructural and Mechanical Properties of Nanostructured WN Thin films Prepared by DC reactive Magnetron sputtering	AB357
71	Pravin Khandekar*, Kanishka Biswas ² , Dhusyant Kothari ¹ , H. Muthurajan ³	1Department of Physics, University of Mumbai, Mumbai, 400 098, India 2Research Centre Imarat, Vignyana Kancha, Hyderabad – 500069, India 3National Centre for Nanosciences and Nanotechnology, University of Mumbai, Mumbai–400098	Nano Mechanical Properties of Ceramic Polymer Composite Micro Thruster Developed Using 3D Printing Technology	AB361
72	Shruti Sunil Ranade and Padma Thiagarajan*	*School of Biosciences and Technology, VIT University, Vellore-632014, Tamil Nadu, India.	Nanoremediation of Acid Red 2 with alumina nanoparticles and Klebsiella pneumoniae	AB370
73	V. Parthiban [†] , SrinuAkula, and A. K. Sahu*	CSIR - Central Electrochemical Research Institute-Madras Unit, CSIR Madras Complex, Taramani, Chennai - 600113, INDIA	Nafion-Sulfonated Graphene Hybrid Membranes for Direct Methanol Fuel Cells with Reduced Methanol Crossover	AB379

74	Pinapeddavari Mayuri, ^a Chandran Hema Gayathri, ^b Annamalai Senthil Kumar ^{a,*} and Krishnan Sankaran ^b	a Nano and Bioelectrochemistry Research Laboratory, School of Advanced Sciences, Vellore Institute of Technology University, Vellore-632 014, Tamil Nadu, India b Centre for Biotechnology, Anna University, Guindy, Chennai-600 025, Tamil Nadu, India	A Thionine/functionalized-MWCNT+Chitosan Chemically Modified Electrode Based Electrochemical Immunosensor Platform for Rapid Detection of Uropathogenic E.coli	AB384
75	B. Priyadarshini, U. Anjaneyulu and U. Vijayalakshmi*	Department of Chemistry, School of Advanced Sciences, VIT University, Vellore-632 014. Tamil Nadu, India.	Development and Characterization of Ce doped Hydroxyapatite-Fe ₃ O ₄ nanocomposites and its in vitro biological evaluations for biomedical applications	AB390
76	*Penchalaiah Palla, and Taraprasanna Saha Babu	Centre for Nanotechnology Research, VIT University, Vellore - 632 014, Tamil Nadu, India.	Hexagonal Boron Nitride Encapsulated Nano perforated Graphene Field Effect Transistor for logic applications	AB400
77	Anuraj S. Kshirsagar, Priyesh V. More and Pawan K. Khanna*	Nano Chemistry and Quantum Dots R & D Lab, Department of Applied Chemistry, Defence Institute of Advanced Technology (DIAT), Ministry of Defence, Govt. of India, Girinagar, Pune- 411025, India	Synthesis of Copper Indium Diselenide (CuInSe ₂) by using Organoselenium Precursor	AB405
78	K.Venkatesan, D.Rajan Babu , Vidya.R	School of Advanced Sciences, VIT University, Vellore-632014, Tamil Nadu, India. bSchool of BioSciences and Technology, VIT University, Vellore-632014, Tamil Nadu, India.	Nanosized cobalt ferrite for evaluation against the clinical samples in the form of emulsion	AB410

79	1RKNR Manepalli, 1K.Sivaram, 2K. Pandian, 3G.Giridhar, 4BTP Madhav, 1M. Tejaswi & 4V.G.K.M Pisipati	1Dept. of Physics, The Hindu College, Krishna University, Machilipatnam, AP, India, 2Dept.of Inorganic Chemistry,University of Madras,Guindy campus,Chennai, Tamilnadu,India, 3Dept. of Nanotechnology, Acharya Nagarjuna University, Nagarjuna Nagar, Guntur, AP, India, 4LCRC-R&D, Department of ECE, K L University, Guntur Dt., AP, India.	Synthesis, Characterisation of Thiol capped Silver nanoparticles and its Effect on liquid crystals	AB425
80	Chaitanya Hiragond, Priyesh V. More* and P. K. Khanna* (DRDO)		Synthesis of HgS and CdS/HgS core/shell nanoparticles by cation exchange reaction of CdS quantum dots	AB427
81	Rajan Vohra ¹ , Ravinder Singh Sawhney ²	Department of Electronics Technology,Guru Nanak Dev University, Amritsar	EXPOUNDING TRANSPORT PROPERTIES OF DEOXYRIBONUCLEIC ACID FOR ELECTRONIC APPLICATIONS	AB447
82	<i>S. Harikrishnana*</i> , P. Sivasamy, A. Devarajua, and S. Kalaiselvamb	aDepartment of Mechanical Engineering, Adhi College of Engineering and Technology, Sankarapuram, Kancheepuram, India bDepartment of Applied Science and Technology, Anna University, Chennai, India	Experimental investigation of improved thermal characteristics of SiO ₂ /myristic acid nanofluid as phase change material (PCM)	AB458

83	S. Harikrishnana*, G. Rajesh Kumara, A. Devarajua, and S. Kalaiselvamb	aDepartment of Mechanical Engineering, Adhi College of Engineering and Technology, Sankarapuram, Kancheepuram, India bDepartment of Applied Science and Technology, Anna University, Chennai, India	Enhanced thermal energy storage behavior of newly prepared nanofluid as phase change material (PCM)	AB459
84	A. Nithya Deva Krupa and R. Vimala*	School of Biosciences & Technology, VIT University, Vellore, Tamil Nadu, 632 014, India	AgNPs doped TEOS sol-gel coatings to prevent the adhesion of marine fouling organisms	AB478
85	Chella Santhosh,a,c Pratap kollu,b Andrews Nirmala Grace a* and Amit Bhatnagar c*	a* Centre for Nanotechnology Research, VIT University, Vellore, Tamil Nadu – 632014, India. b DST-INSPIRE Faculty, Department of Metallurgical Engineering and Materials Science, Indian Institute of Technology Bombay, Mumbai 400076, India c* Department of Environmental and Biological Sciences, University of Eastern Finland, FI-70211 Kuopio, Finland	Role of carbon based magnetic nanocomposites for environmental remediation	AB487
86	T.Narendra Reddy ¹ , Vithun S.N ² , Prakash Vinod ³ , Shrikantha S.Rao ⁴ , Mervin Herbert ⁵	Scientist, Nono Manufacturing Technology Centre(NMTC), Central Manufacturing Technology Institute (CMTI), Bangalore-560022	Development of high bandwidth closed loop flexure based Nanopositioning system	AB491

87	Y.Narendra Babu*1, M.Venkateswara Rao2, A.Gopala Krishna3	*1,2, Department of Mechanical Engineering, Bapatla Engineering College, Bapatla 522101 3Department of Mechanical Engineering, JNTUK, Kakinada 533001	Enhancement of Mechanical Properties of ABS/PC - HNT NANO Composites	AB495
88	P. Sathiyaraj*1, E.JJ Samuel1, S.R Manohara2 L. Gerward	1 Medical Gel Dosimetry Laboratory, Department of Physics, School of Advanced Sciences, VIT University 2Department of Physics, Gulbarga University, Gulbarga-585 106, Karnataka, India 3Department of Physics, Technical University of Denmark, DK-2800 Lyngby, Denmark	Calculation of Effective atomic number, electron density and Buildup factor for Methacrylic acid based polymer gel dosimeter	AB498
89	N. JayachandraReddy, and S. Sudha Rani	Department of Biochemistry and Molecular Biology, School of Life Sciences, Pondicherry University, Pondicherry 605 014, India	Multifunctional role of green synthesized Nano Silver and their in vivo toxicity study	AB502

Sl.NO	Author's name	Affiliation of Author's	Abstract title	Abstract No
1	Sapna Rangarajan ^{1,3} , Shilpa Verekar ² , Sunil Deshmukh ² , J Bellare ⁵ , Arun Balakrishnan ² , Veena Agarwal ¹ , Somesh Sharma ⁴ , , Geetanjali Chimote ^{1*} , R .Vidya ³	¹ Pharmacology group, Piramal Life Sciences Ltd, Mumbai – 400063, India ² Natural Products group, Piramal Life Sciences Ltd, Mumbai – 400063, India ³ School of Biosciences and Technology, VIT University , VELLORE - India ⁴ NCE division, Piramal Lifesciences ⁵ Department of Chemical Engineering, IIT Bombay, Mumbai- 4000, India	Synthesis of Silver Nanoparticles by a novel strain of coprophilous fungus PM0651419 and their impact on antibacterial activity of different antibiotics and on wound dressings	AB003
2	C.Venkatesh ^{*a} , R.Boopathy Pradeep ^b , S.Balasubramani ^c , A.Dinesh ^d	^{*a} Associate Professor, Department of Mechanical Engineering, Dhirajlal Gandhi College of Technology, Salem b,c,d Graduate Scholars, Department of Mechanical Engineering, Dhirajlal Gandhi College of Technology, Salem	Design, Development and Performance Evaluation of Bio-Degradable Nano Cutting Fluid	AB005
3	C. Umamaheswari, A. Lakshmanan and N.S. Nagarajan [*]	Department of Chemistry, Gandhigram Rural Institute-Deemed University Gandhigram-624 302, Tamilnadu, India	Phyto- mediated synthesis of gold nanoparticles and their antioxidant, anti-inflammatory and catalytic activity studies	AB006
4	R. Radha Lakshmi ¹ , D. Sruthi ² , K. Prithiv ² , S. Harippriya ² and K.R.Aranganayagam ^{3*}	1Department of Aeronautical Engineering, Kumaraguru College of Technology, Coimbatore 2Department of Fashion Technology, Kumaraguru College of Technology, Coimbatore 3Department of Chemistry, Kumaraguru College of Technology, Coimbatore	Synthesis of ZnO and Ag/ZnO nanorods: Characterization and Synergistic invitro Biocidal Studies	AB007

5	Manikandan E , Padmalaya.G, Sreeja.B.S	^{1,2} Research Scholar , ³ Associate Professor, Department of ECE ,SSN College of Engineering Kalavakkam,Chennai- 603110	Laser Surface Textured Metal Structure for Terahertz Absorption	AB011
6	Jessyamma Kurian ¹ ,Jacob Mathew M. ²	1.B.A.M.College, Thuruthicad 2.Mossbauer Research group, S.B.College, Changanassery	Structural, Magnetic and Mossbauer studies of Magnesium ferrite nanoparticles prepared by Hydrothermal Method	AB014
7	P.E.Saranya ^{a,*} and S.Selladurai ^a	^a Ionics lab, Department of Physics, Anna University, Chennai 600025, India	Facile Synthesis of Self-Assembled Flower like Mesoporous Zinc Oxide Nanoflakes for Energy Applications	AB018
8	S.Sumithra and N. Victor Jaya	Department of Physics, Anna University, Chennai, Tamil Nadu - 600025	Structural, Optical and Magnetization studies of Fe-doped CaSnO ₃ nanoparticles via hydrothermal route	AB020
9	Sravani.K ^{*a} , Jhansi.S ^a , SVN.Pammi ^b , R.Muralikrishna ^a , T.Vishala ^c	^a School of chemistry, AndhraUniversity, Visakhapatnam- 533003,India. ^b NanoThin Film Research Lab(NTFRL), Chungnam National University, Korea South- 30564 ^c Pharmacy department, AndhraUniversity, Visakhapatnam- 533003,India.	Synthesis, characterization of Ag@ZnO Core Shell nanoparticles and their wound healing activity in rats	AB022
10	Krishnaprabha M, Manjunatha Pattabi*	Department of Materials Science, Mangalore University, Mangalagangothri- 574199, India.	Melastoma Malabathricum Flower Extract Mediated Green Synthesis of Gold Nanoparticles	AB024

11	Suganya N ¹ , Sivakumar EKT ² and Jaisankar V ^{1*}	1PG and Research Department of Chemistry, Presidency College (Autonomous), Chennai-600005, Tamilnadu, India. 2Centre for Nanoscience & Technology, Anna University, Chennai-600025, Tamilnadu, India.	Conducting polymeric hydrogel electrolyte based on Carboxymethylcellulose and Polyacrylamide\ Polyaniline for Supercapacitor applications.	AB025
12	D. Badmapriya and I.V. Asharani *	Department of chemistry, School of Advanced Sciences, VIT University, Vellore - 632 014	Catalytic reduction of 4- nitrophenol using Actinodaphne Madraspatna Bedd leaves mediated palladium nanoparticles	AB026
13	S. Noormohammad Shareef and K. Chidambaram*	Sensor Laboratory, Department of Physics, School of Advanced Sciences, VIT University, Vellore - 632 014, Tamil Nadu, India.	Influence of Hexagonal Boron Nitride and BaTiO ₃ as Hybrid Fillers on the Structural, Morphological and Dielectric Behaviour of Polyvinyl alcohol nanocomposites	AB027
14	Chidambara Kumar K N ^{a,*} , Khadeer Pasha S K ^{b*} , KalimDeshmukh ^c , Chidambaram K ^b , Shakil Muhammad G ^a	aThin Films Lab, Department of Physics, Islamiah College, Vaniyambadi 635752, TN, India bSensors Laboratory, Materials Physics Division, School of Advanced Science, Vellore Institute of Technology, Vellore 632014, TN, India. cDepartment of Physics, B S AbdurRehman University, Chennai – 600 048, TN, India	Optical analysis of iron doped lead sulfide thin films for Opto-electronic applications	AB028

15	Sowmya Sankaran ^a , Kalim Deshmukh ^a , M. Basheer Ahamed ^{a*} , S. K. Khadheer Pasha ^b , Kishor Kumar Sadasivuni ^c , Deepalekshmi Ponnamm ^d , Mariam Al-Ali AlMaadeed ^d , K. Chidambaram ^b	aDepartment of Physics, B. S. Abdur Rahman University, Chennai - 600048, Tamil Nadu, India. bDepartment of Physics, School of Advanced Sciences, VIT University, Vellore - 632014, TN, India. cMechanical & Industrial Engineering Department, Qatar University, P.O. Box 2713, Doha, Qatar. dCenter for Advanced Materials, Qatar University, P.O. Box 2713, Doha, Qatar.	Investigation on the Electrical Properties of Lithium Ion Conducting Polymer Electrolyte Films Based on Biodegradable Polymer Blends	AB029
16	Kalim Deshmukh ^a , Sowmya Sankaran ^a , M. Basheer Ahamed ^{a*} , S. K. Khadheer Pasha ^b , Kishor Kumar Sadasivuni ^c , Deepalekshmi Ponnamm ^d , Mariam Al-Ali AlMaadeed ^d , K. Chidambaram ^b	aDepartment of Physics, B. S. Abdur Rahman University, Chennai - 600048, Tamil Nadu, India. bDepartment of Physics, School of Advanced Sciences, VIT University, Vellore - 632014, TN, India. cMechanical & Industrial Engineering Department, Qatar University, P.O. Box 2713, Doha, Qatar. dCenter for Advanced Materials, Qatar University, P.O. Box 2713, Doha, Qatar.	Studies on the Electrical Properties of Graphene Oxide Reinforced Poly (4-styrenesulfonic acid) and Polyvinyl alcohol Blend Composites	AB030
17	D.Arthisree ¹ , Annamalai Senthil Kumar ² , Girish M.Joshi ^{1*}	1Polymer Nanocomposite Laboratory, Centre for Crystal growth, School of Advanced Sciences, VIT University, Vellore-632014, TN, India. 2Nano and Bioelectrochemistry Research Laboratory, Department of Chemistry, School of Advanced Sciences, Vellore Institute of	Morphology and Admittance spectroscopy of Cellulose acetate/Graphene Quantum Dots Nanocomposites	AB032

		Technology University, Vellore 632 014, India.		
18	S. Maria Dhivya ¹ , S.M. Sathiya ¹ , Subramanian Mugesh ² , Maruthamuthu Murugan ² , M. A. Jothi Rajan*	¹ ,*Department of Physics, Arul Anandar College (Autonomous), Karumathur, Madurai– 625 514, India ² Department of Microbial Technology, School of Biological Sciences, Madurai Kamaraj University, Madurai, 625 021, India	Evaluation of Antibacterial Potential of CS/Fe ₃ O ₄ Nanocomposite based Plate Count Method	AB035 M
19	Srinivasarao. Udara, and H .C Hadimani*	^a Electronics & Communication, S T J Institute of Technology, Ranebennur - 581115, Karnataka, India.	Fabrication of MEMS/NEMS material coating Systems for the Detection of Response and Analysis with Analytes Using Omnicant Experimentation	AB037
20	Kamala Priya M. R. and Priya R. Iyer	Postgraduate and Research Department of Biotechnology Womens Christian College, College Road, Chennai- 600006	APPLICATIONS OF THE GREEN SYNTHESIZED GOLD NANOPARTICLES – ANTIMICROBIAL ACTIVITY, WATER PURIFICATION SYSTEM, DRUG DELIVERY SYSTEM	AB038

21	G. Apsana ^{ab} , P. P. George ^{a*} , N. Devanna ^b	aDepartment of chemistry, Madanapalle Institute of Technology and Science, (Affiliated to JNTUA, Ananthapur and approved by AICTE, New Delhi) Post Box No. 14, Angallu, Manapalle-517325, Andhra Pradesh, India bDepartment of chemistry, JNT University, Ananthapuram	Optical properties of biosynthesized $Mg_3(PO_4)_2$ nanoparticles using plant extract of <i>Ocimum sanctum</i>	AB039
22	B.Shalini ¹ , A.Ruban Kumar ² , A.Mary Saral ²	School of Advanced sciences, VIT University, Vellore 632014, India	Synthesis of pure hydroxyapatite ($Ca_{10}(PO_4)_6(OH)_2$) by Sol-gel method and the drug loaded in presence and absence of natural polymer for the application of drug delivery.	AB049
23	Venkatesh D and Jaisankar V [*]	PG & Research department of chemistry, Presidency College(Autonomous), Chennai-600 005, Tamil Nadu, India.	Synthesis and Characterisation of Polyurethane nanocomposite from Vegetable Oil with different Diisocyanates	AB050
24	C. Subashini ^a , D. Prabhakaran ^{b,*} and M. Akhila Maheswari ^b	a School of Advanced Sciences, Chemistry Division, Vellore Institute of Technology – University, Chennai 600 127, India. b School of Advanced Sciences, Department of Chemistry, Vellore Institute of Technology – University, Vellore 632 104, India.	Synthesis of Mesoporous Silica Monoliths –A Novel Approach towards Fabrication of Solid-State Optical Sensors for the Smart Naked Eye Sensing of Ultra Trace Copper Ions	AB054
25	Mary Thangam M.A, Chellapandian Kannan [*]	Department of Chemistry, Manonmaniam Sundaranar University, Tirunelveli-627 012, Tamilnadu, India.	A novel Iron substituted bimetallic Aluminosilicate molecular sieves synthesis & its characterization	AB059

26	R. Senthilkumar ^{a,b} , Mohan Raj S ^{a,b} , Dileep V Raj ^{a,b} , S. Ramakrishnan ^{a,b} , Duraisamy Kumaresan ^{a,b*} , Nikhil K. Kothurkar ^{a,b*} .	aCenter of Excellence in Advanced Materials & Green Technologies (CoE – AMGT) Amrita School of Engineering, Coimbatore, Amrita Vishwa Vidyapeetham, Amrita University, India bDepartment of Chemical Engineering and Materials Science, Amrita School of Engineering, Coimbatore, Amrita Vishwa Vidyapeetham, Amrita University, India	Characteristics of low temperature thermally reduced graphene oxide and its application as dye sensitized solar cell counter electrode	AB061
27	S.M. Sathiya ^a , G.S. Okram ^b , S. Maria Dhivya ^a , Subramanian Mugesh ^c , Maruthamuthu Murugan ^c , M.A. Jothi Rajan [*]	a,*Department of Physics, Arul Anandar College (Autonomous), Karumathur, Madurai – 625 514, Tamil Nadu, India. bUGC DAE Consortium for Scientific Research, University campus, Kandva Road, Indore – 452 001, Madhya Pradesh, India. cDepartment of Microbial Technology, School of Biological Sciences, Madurai Kamaraj University, Madurai - 625 021, Tamil Nadu, India.	Antimicrobial Resistance and Mechanism of Gram Positive Bacteria Staphylococcus aureus MTCC 3160 in CS/ZnO Nanocomposites	AB064
28	S.Magibalan a*, P.Senthilkumar b, C.Senthilkumar c, M.Prabu d and T.V.Chirsty e	a,b,d Department of Mechanical Engineering, K.S.R. College of Engineering, Tiruchengode, Tamil Nadu, India c Department of Manufacturing Engineering, Annamalai University, Chidambaram, Tamil Nadu, India e School of Mechanical Sciences, Karunya	TRIBOLOGICAL BEHAVIOUR OF ALUMINIUM ALLOY 8011	AB071

		University, Coimbatore, Tamil Nadu, India		
29	M. Prakasam ^{a,b} and P. M. Anbarasan ^{a,b*}	aDepartment of Physics, Periyar University, Salem - 636 011, Tamil Nadu India. bCentre for Nanoscience and Nanotechnology, Periyar University, Salem - 636 011, Tamil Nadu, India	Stilbene Based Organic Dye as Efficient Sensitizer for NLO and Dye-Sensitized Solar Cells: A First Principle Study	AB072
30	Aldin Justin Sundararaj, Austin Lord Tennyson, Allison Edward, Bhaskar Gupta, Shruti Panicker	Propulsion and High Enthalpy Laboratory, Aerospace department, Karunya University, Coimbatore, Tamil Nadu 641114, India	NUMERICAL INVESTIGATION OF THE CONVECTIVE HEAT TRANSFER OF REFINED KEROSENE- ALUMINA NANOFLUID UNDER LAMINAR AND TURBULENT REGIME.	AB073
31	E. Monisha, ^a Arun K Prasad, ^{b,*} A. Das, ^b S. Muthuraja, ^a S.Dhara ^b	a Sensor System Technology, VIT University, Vellore - 632 014, Tamil Nadu, India. bNanomaterials and Sensors Section, Materials Science Group, Indira Gandhi Centre for Atomic Research, HBNI, Kalpakkam 603102, Tamil Nadu, India.	Portable alcohol sensor module based on SnO ₂ and CuO Nanoparticles	AB075

32	S.Helen, A. Ruban Kumar [*]	Centre for Crystal Growth, Department of Physics, School of Advanced sciences, VIT University, Vellore 632014, India	MORPHOLOGY STUDIES ON HYDROXYAPATITE WITH POLYMER BLENDS USING SOL-GEL METHOD	AB082
33	Ramasamy Ganesamoorthy ^a , Radhakrishnan Vidya ^b and Pachagounder Sakthivel ^{a*} .	aDepartment of Chemistry, School of Advanced Sciences, VIT University, Vellore-632014, Tamil Nadu, India. bSchool of BioSciences and Technology, VIT University, Vellore-632014, Tamil Nadu, India.	Synthesis and studies of bay substituted D-A-D type perylenediimide based small molecule acceptor derivatives for organic solar cell and its antimicrobial applications	AB083
34	Upasana Gulati, U. Chinna Rajesh and Diwan S. Rawat [*]	^a Department of Chemistry, University of Delhi, Delhi-110007, India, Fax: 91-11-27667501; Tel: 91-11-27662683	RGO/CuO Catalysed Decarboxylative Tandem Coupling among Proline, Aldehydes and Alkynes	AB084
35	S. Narasimman a, K. Harish Babu a, L. Balakrishnan b, *, S.R. Meher b, R. Sivacoumar c and Z.C. Alex c	aSchool of Electronics Engineering, VIT University, Vellore 632 014, India. bDepartment of Physics, School of Advanced Sciences, VIT University, Vellore 632 014, India. cDepartment of Sensor and Biomedical Technology, School of Electronics Engineering, VIT University, Vellore 632 014, India.	Fabrication of Fiber Optic Based Temperature Sensor	AB087
36	G .Vanitha Kumari ¹ , S.Asha ¹ , A. Nimrodh Ananth ² T. Mathavan ³ M. A. Jothi Rajan ^{1*}	1 PG and Research Department of physics, Arul Anandar College, Madurai, India 2 MOE Key Lab for Macromolecular synthesis and Functionalization, Department of polymer Science and Engineering, Zhejiang University, P.	Chitosan-Silver incorporated Graphene Oxide based Aerogel for Biomedical Applications	AB088

		R. China 3 PG and Research Department of physics, NMSSVN College Madurai.		
37	P. Lokanatha Reddya, Kalim Deshmukhb, K. Chidambarama, Basheer Ahamedb, Kishor Kumar Sadasivunic, Deepalekshmi Ponnammad, S. K. Khadheer Pashaa*	aDepartment of Physics, School of Advanced Sciences, VIT University, Vellore - 632014, TN, India. bDepartment of Physics, B. S. Abdur Rahman University, Chennai - 600048, Tamil Nadu, India. cMechanical & Industrial Engineering Department, Qatar University, P.O. Box 2713, Doha, Qatar. dCenter for Advanced Materials, Qatar University, P.O. Box 2713, Doha, Qatar.	Effect of Poly ethylene glycol on Structural, Thermal and Photoluminescence properties of CdO Nanomaterials for optoelectronic applications	AB090
38	Durgesh Kumar Singh ^a , S. Suresh ^a	^[a] Department of Mechanical Engineering, National Institute of Technology, Tiruchirappalli- 620015, Tamil Nadu, India	EFFECT OF THERMAL CYCLING ON NANO ENHANCED MYO-INOSITOL FOR SOLAR THERMAL ENERGY STORAGE	AB092
39	S. S. Bandgar, K. V. Zipare and G. S. Shahane *	Department of Electronics, DBF Dayanand College of Arts and Science, Solapur-413002, MS, India	Temperature Sensitive Ferrofluid for Smart Cooling	AB093
40	K. V. Zipare, S. S. Bandgar and G. S. Shahane *	Department of Electronics, DBF Dayanand College of Arts and Science, Solapur-413002, MS, India	Structural, Magnetic and Rheological Behaviour of Mn-Zn Ferrofluid	AB094

41	Khairujjaman Laskar and Abdul Rauf [*]	Department of Chemistry, Aligarh Muslim University, Aligarh, 202002, Uttar Pradesh, India	Synthesis of nano-silver, characterization and their antibacterial properties	AB095
42	K. Johnson ^{a*} , J. Puspharajan ^{b*} , Mareena Joseph ^c	a,b,c Research and Development Department, Travancore Titanium Products Ltd., Kochuveli, Thiruvananthapuram-695021, India	Synthesis, physical and morphological characterization of Titanium dioxide nanoparticles by wet chemical method for catalytic applications	AB099
43	P. Rubalajyothi ^a and L.C. Nehru ^{a,*}	aDepartment of Medical Physics, School of Physics, Bharathidasan University, Tiruchirappalli-620 024, Tamilnadu, India.	Structural and Photoluminescence Properties of BaCaSO ₄ :Dy ³⁺ Phosphor By Combustion Techniques	AB105
44	R. Padma [*] , and V. Rajagopal Reddy	Semiconductor Devices Lab, Department of Physics, Sri Venkateswara University, Tirupati, India.	Statistical Analysis of the Current-Voltage (I-V) and Capacitance-Voltage (C-V) characteristics of the Au/Ir/n-InGaN Schottky Barrier Diodes	AB108
45	S. C. Bhisea, D. V. Awalea, M. M. Vadiyara, S. K. Patila, B. N. Kokarea, A.V. Ghuleb, and S. S. Kolekara [*]	aAnalytical Chemistry and Material Science Research Laboratory, Department of Chemistry, Shivaji University, Kolhapur-416004, Maharashtra, India bGreen Nanotechnology Laboratory, Department of Chemistry, Shivaji University, Kolhapur 416004, Maharashtra, India.	Controlled Synthesis of Nanostructured Nickel oxide Thin Film for Supercapacitor Application	AB110
46	S. Ponmudi ¹ , R. Sivakumar ^{2*} and C. Sanjeeviraja ¹	1Department of Physics, Alagappa Chettiar College of Engineering and Technology, Karaikudi-630003, India 2Department of Physics, Alagappa University, Karaikudi-630003, India	Effects of sputtering power and substrate temperature on the optical properties of Al ₂ O ₃ :Cr ₂ O ₃ thin films	AB114

47	Varsha Kozhissheri ¹ , T Raguram ² , K S Rajni ^{2*}	1 Majlis Arts and Science College Puramannur, Malappuram, Kerala, India 2 Dept. of Sciences, Amrita School of Engineering, Amrita Vishwa Vidyapeetham, Amrita Nagar, Ettimadai, Coimbatore – 641 112, Tamilnadu, India	Synthesis and Characterization of Zinc Ferrite Nanoparticle Prepared by Sol-Gel Technique.	AB117
48	H. Vignesh ¹ , V. Vishnu ² , P. Balakumar ³ , T. Raguram ⁴ and K. S. Rajni ^{5*}	Department of Sciences, Amrita Vishwa Vidyapeetham, Amrita School of Engineering, Amrita nagar, Ettimadai, Coimbatore, Tamilnadu, India	Structural, Compositional and Morphological Analysis of Cobalt Ferrite (CoFe ₂ O ₄) Nanoparticles by Biological Synthesis Method	AB118
49	A K Rameesa ¹ , T Raguram ² , K S Rajni ^{2*}	1 Majlis Arts and Science College Puramannur, Malappuram, Kerala, India 2 Dept. of Sciences, Amrita School of Engineering, Amrita Vishwa Vidyapeetham, Amrita Nagar, Ettimadai, Coimbatore – 641 112, Tamilnadu, India	Synthesis and Characterization of Cobalt Ferrite Nanoparticle Prepared by Sol-Gel Technique	AB119
50	Manjunath Hullikere M, and Chandrashekhar G. Joshi [*]	Department of Biochemistry, Mangalore University, Chikka Aluvara, Kushalnagar, Kodagu, Karnataka, India- 571 232.	Characterization, antioxidant and antimicrobial activity of Silver nanoparticles synthesized using marine endophytic fungus- Cladosporium cladosporioides	AB122

51	C.A.R. Maria Sahayaraj ^a , Mohan A ^b , Rajesh. S ^{c*} Rathes Kannan R ^b	aDepartment of physics, St. Joseph's College, Bangalore – 560027, India bThin film laboratory, Department of physics, Karunya University, Coimbatore -641 114. cDepartment of Nanoscience and Technology, Karunya University, Coimbatore - 641 114.	Investigation on Impact of annealing in the SnSe films by thermal evaporation method	AB124
52	R.Kesavamoorthi, A.N.Vigneshwaran and C.Ramachandra Raja [*]	Department of Physics, Government Arts College (Autonomous), Kumbakonam - 612 002. India.	Synthesis and characterization of Mg mixed Zn ferrite nanoparticles	AB126
53	S. Punitha and L.C. Nehru [*]	Department of Medical Physics, School of Physics, Bharathidasan University, Tiruchirappalli-620 024, Tamilnadu, INDIA	Direct Synthesis of Iron Oxide (α - Fe ₂ O ₃) Nanoparticles by the Combustion Approach	AB128
54	Vallem Sowjanya ^a , Kasturi V. Banger ^{a,*} and G. K. Shivakumar ^b	aDepartment of Physics, National institute of technology, Sutathkal- 575025, Karnataka, India bDepartment of Physics, NMAM Institute of Technology, Nitte- 574110, Karnataka, India	Effect of annealing and substrate temperature on the structural properties of In ₂ Te ₃ thin films	AB129
55	Anita Rajkumar Ghandhe ^{1*} and Basavaraja Sannakki ²	1Department of Soil Science & Agriculture Chemistry, University of Horticultural Science, Bagalkot-587 104 2Department of Post Graduate Studies and Research in Physics, Gulbarga University, Gulbarga- 585 106, Karnataka.	The Mechanical Properties of Poly (Methyl Methacrylate) (PMMA)/ZrO ₂ Nanocomposite Polymer Films	AB130
56	Riju K Thomas, S. Prasanth and C. Sudarsanakumar ^a	a School of Pure and Applied Physics, Mahatma Gandhi University, Kottayam, Kerala India, 686560.	Calorimetric and Spectroscopic Study: the interaction of L – Cysteine functionalised Selenium	AB132

			Nanoparticles with calf Thymus DNA	
57	V.K.Stalina, M.Kirithikab* and T.Prabuc	a Professor, Department of Civil Engineering, CEG, Anna University, Chennai – 600025, Tamil Nadu, India. b Research Scholar, Department of Civil Engineering, CEG, Anna University, Chennai – 600025, Tamil Nadu, India. c Assistant Professor, Department of Civil Engineering, EBET Institutions, Tiruppur - 638108, Tamil Nadu, India.	Study on the Strength behavoiur of Soil with Nano Flyash and Nano Cement	AB139
58	P. Swapna, and S. Venkatramana Reddy*	Department of Physics, Sri Venkateswara University, Tirupati-517502, A.P. India.	Synthesis and Structural properties of (Co, Al) co-doped ZnO nanoparticles	AB140
59	B. Sreenivasulu, S. Venkatramana Reddy* and P. Venkateswara Reddy	Department of Physics, Sri Venkateswara University, Tirupati-517502, A.P. India.	STRUCTURAL, OPTICAL AND MAGNETIC PROPERTIES OF Ni DOPED ZnS NANOPARTICLES	AB141
60	Manasi Manoj Karkare *, Chaitanya Vivek Bhawe	SIES Graduate School of Technology, Sri Chandrasekaendra Saraswathy Vidyapuram, Plot1-C, D & E, Sector V, Nerul, Navi Mumbai.	Synthesis of transition metal doped titanium dioxide nanoparticles	AB146
61	K. Kumara a*, and S.M. Dharmaparakasha	aDepartment Of Studies in Physics, Mangalore University, Mangalagangothri – 574 199, Karnataka, India.	Surface Modification of Rare Earth Ion (Dy ³⁺) Doped YVO ₄ Nanoparticles Using Natural Surfactant Saponin	AB151
62	P. Naveen Kumar, Neena Bachan, V. Chandrakala, D. J. Sharmila, J. Sahaya Selva Mary, W. Jothi Jeyarani and J. Merline Shyla*	Department of Physics, Energy Nanotechnology Centre (ENTeC), Loyola Institute of Frontier Energy (LIFE),	Relative Analysis of Plasmonic Impact of Silver and Aluminium Nanoparticles on SnO ₂ Nanoparticles	AB157

		Loyola College, Chennai - 600 034.	for Photovoltaic Applications	
63	Saranya Ramachandran and A. Sivasamy*	Chemical Engineering Area, CSIR-Central Leather Research Institute, Adyar, Chennai-600020.	Nanocrystalline ZnO as a visible active photocatalyst for the degradation of Benzene-1,4-diol	AB158
64	Arun Kumar Prusty#, Sunil Bhand*	Biosensor Lab, Department of chemistry, BITS, Pilani-K.K. Birla Goa Campus, Goa- 403726, India	An electrochemical sensor for 2,4-D estimation in water based on Molecular imprinted polymer	AB159
65	B. Saravanakumar,* V. Saravanan, V. Umadevi, and S. Maruthamuthu	^a Department of Physics, Mahalingam College of Engineering and Technology, Pollachi, Tamilnadu, India-64203	Preparation of CTAB assisted V2O5 nanostructures and its supercapacitive features	AB162
66	Chaitra.V*, N. Pradeep ¹ , A Nirmala Grace ² , Uma.V ¹ , Raja Sellappan ³	[*] 1Department of Nanoscience and Technology, Mount Carmel College, Bengaluru ² Centre for Nanotechnology Research, VIT University, Vellore ³ Department of Micro and Nanoelectronics, School of Electronics Engineering (SENSE), VIT University, Vellore	Surface modification of PANI films using Ag nanoparticles to enhance the sensing properties to detect the foodborne microorganisms	AB171
67	Midhun Mohan Va, *, and Sajeeb A Ma	^a Department of Mechanical Engineering, Government Engineering College, Kozhikode - 673 005, Kerala, India.	Improving the Efficiency of DASC by Adding CeO ₂ /CuO Hybrid Nanoparticles in Water	AB172
68	R Janani, Sumithra Sivadas Menon and Shubra Singh	Crystal Growth Centre, Anna University, Chennai – 600 025, Tamil Nadu, India.	An approach to improve the Photocatalytic activity of Ga _{1-x} Zn _x N _{1-x} O _x oxynitride with Graphene oxide	AB176

69	R. Deepak Selvakumar, and S. Dhinakaran*	aThe Center for Fluid Dynamics, Discipline of Mechanical Engineering, Indian Institute of Technology Indore, Khandwa Road, Simrol, Indore – 453 552, Madhya Pradesh, India.	A new model for effective viscosity of nanofluids based on particle size distribution (PSD) analysis	AB178
70	Suchitra S.M*, P. Ramana Reddy. and N. K. Udayashankar	a) Nanomaterials and Crystal growth Laboratory, Department of Physics, National Institute of Technology, Surathkal, Mangalore, Karnatak.,	Synthesis and characterization of graphitic carbon nitride nanotubes using Porous Anodic Alumina templates	AB193
71	Mina Zare, K. Namratha, K. Byrappa *	Centre for Materials Science and Technology, Vijnana Bhavan, University of Mysore, 570006, Mysore, India	Facile One-step Fabrication of Green Synthesized ZnO- Ag Nanocomposite Under Mild Hydrothermal Conditions by Thymus vulgaris	AB194
72	N.Pradeep ¹ *, V.Chaitra ¹ , Uma.V ² , A. Nirmala Grace ³	1Department of Nanoscience and Technology, Mount Carmel College, Bengaluru-560052, India. 2Department of Electronics, Mount Carmel College, Bengaluru-560052, India. 3 Center for Nanotechnology Research, VIT University, Vellore-632014, India.	Synthesis of catalyst - substrate free MgO nanocubes used as flexible gas sensor on over head projector (OHP) sheet	AB195
73	Shilpa C ¹ *, N.Pradeep ¹ , Uma.V ²	1Department of Nanoscience and Technology, Mount Carmel College, Bengaluru-560052, India. 2Department of Electronics, Mount Carmel College, Bengaluru-560052, India.	Synthesis and characterization of Silver coated multi walled carbon nanotubes for water purification	AB196

74	Amruta U. Badnore, and Prof. A. B. Pandit*	aInstitute of Chemical Technology, Matunga, Mumbai, India-400019	Synthesis and characterization of iron oxide nanoparticles using conventional and acoustic cavitation method	AB202
75	Venkatesh Shankar* and Vishista Kurapati	aDepartment of Physics, College of Engineering, Guindy, Anna University, Chennai-25, Tamil Nadu, India.	Studies on the effects of Chemical equivalent ratio variation in oxidation state of Polyaniline synthesized using Ferric Chloride in a biphasic medium	AB209
76	Sathisha D, and K.Gopalakrishana Naik*	Department of Studies in Physics, Mangalore University, Mangalagangothri-574199, India	Synthesis and Characterization of Nickel Oxide Nanostructures by Hydrothermal Method	AB211
77	aD.Jackuline Moni, and bT.Jaspar vinitha sundari*	a Department of Electrical technology, Karunya University, Coimbatore - 641114, Tamil Nadu, India. bDepartment of ECE, Kumaraguru college of technology, Coimbatore - 641049, Tamil Nadu, India.	Junctionless Tunneling Nanowire for steep Subthreshold slope	AB217
78	Karuppasamy B and Gayathri V*	Nanomaterials Laboratory, Department of Physics, Thiagarajar College of Engineering, Madurai - 625 015, Tamil Nadu, India.	Low-cost dye sensitized solar cells based on sensitizers and counter electrode	AB218
79	a)Santhosh TCM*, a)Kasturi V Bangera, b)GK Shivakumar	a)Thin Film Laboratory, Physics Department National Institute of Technology Karnataka, Surtahkal, Mangalore - 575025, India. b)Department of Physics, NMAM Institute of Technology, Nitte - 574110 Karnataka India.	a)Thin Film Laboratory, Physics Department National Institute of Technology Karnataka, Surtahkal, Mangalore -575025, India. b)Department of Physics, NMAM Institute of Technology, Nitte -	AB220

			574110 Karnataka India.	
80	Nikhar Khanna and Prof. A Ruban Kumar	Centre for Crystal Growth School of Advanced Sciences VIT University, Vellore-632014,Tamil Nadu	Preparation and characterization of MgO nanoparticles by sol-gel method and the study of its properties	AB227
81	Praveen Anchupogua*, G Lakshmi Narayana raob, B. Balakrishnac and B. Ravi sankard	a,dDepartment of Mechanical Engineering, Bapatla Engineering College, Bapatla - 522101,Andra Pradesh, India. bDepartment of Mechanical Engineering, QIS Institute of Technology, Ongole-523001,Andra Pradesh, India. c Department of Mechanical Engineering, JNTU College of Engineering, JNTUK, Kakinada-533001,Andra Pradesh,India.	Effect Tio2 Nano additives on the Combustion and Emission Characteristics of DI Diesel Engine	AB228
82	Nazia Fathima a*, N. Pradeep b, Jyothi Balakrishnan a	a Dept. of Electronic Science, Bangalore University, Bangalore - 560009, Karnataka, India. b Dept. of Nanoscience and Technology, Mount Carmel College, Bangalore-560052, Karnataka, India.	Growth and Characterization of ZnO Nanocones on flexible substrates by Hydrothermal Method	AB230

83	M. Sharmaa*, P.K. Mohapatrab and D. Bahadura	aDepartment of Metallurgical Engineering and Materials Science, Indian Institute of Technology, Bombay, Powai, Mumbai 400076, India. bDepartment of Physics, Indian Institute of Technology, Powai Mumbai-400076	Supercapacitive Performance of Chemically Exfoliated and CVD Grown MoS ₂ : A Comparative Study	AB231
84	B.Shenbagabalakrishnan and V.Gayathri*	a Nanomaterials Research Laboratory, Department of Physics, Thiagarajar College of Engineering, Madurai - 625 015, Tamil Nadu, India.	Rechargeable Aluminum Ion Battery with Aqueous Electrolyte	AB234
85	C. Pavithra, W. Madhuri*	Ceramic Composite Laboratory, CCG, SAS, VIT University, Vellore-632014, TN, India.	Hydrothermal Synthesis and Characterization of Microwave Processed Lithium Titanate	AB237
86	B.H.Nanjunda Reddy ¹ , a, V.Venkata Lakshmi ^{*2} , K.R.Vishnu Mahesh ^{**3} , M.Mylarappa ² , a	1 Department of Chemistry, Amrita School of Engineering, Bengaluru, Campus, Amrita Vishwa Vidyapeetham University, Bangalore-560035, Karnataka, India aDepartment of Studies and Research in Chemistry, B.H Road, Tumkur University, Tumkur-572103, Karnataka, India 2 Research center, Department of Chemistry, AMC Engineering College.Bengaluru-560083 3 Department of Chemistry, Dayananda Sagar College of Engineering, Sahvige Malleshwara Hills, Kumara Swamy Layout,	Synthesis and Characterization of Modified Sodium Alginate-Bentonite Clay Biocomposites for Anti-Bacterial Activities	AB244

		Bangalore, 560 083, Karnataka, India		
87	B Guruswamy, V Ravindracharya*, S D Praveenab, Sri Datta Hegdea, C Shruthia ,Rohan N Sagara	aDepartment of Physics, Mangalore University,Mangalagang otri-574199 ,India bDepartment of Physics, K V G College of Engineering ,kurunjibhag, Sullia - 574327 , India	Optical, thermal and morphological study of PVA-NaAlg/ZnO Nanocomposites	AB248
88	P. Shubha, K. Namratha, K.C. Mithali, V. Divya, M. S. Thakur, K. Byrappa*	Centre for Materials Science and Technology, Vijnan Bhavan, Manasagangotri, Mysuru-570006	Green Technology Enabled Graphene Oxide Reduction Using Justichia Wynaadensis Extract and Assessment of In vitro Antioxidant and Antibacterial Activity	AB249
89	Md Shahbaz Alam1, Chandan Kumar Ghosh2, Nillohit Mukherjee3, Sk. Faruque Ahmed1,*	1Nanoscience Laboratory, Department of Physics, Aliah University, IIA/27, New Town, Kolkata- 700 156, India. 2School of Material Science and Nanotechnology, Jadavpur University, Kolkata 700 032, India. 3Center of Excellence for Green Energy and Sensor Systems, Indian Institute of Engineering Science	Nanostructure evolution and optical properties of silver doped diamond like carbon thin film on soft polymer	AB250

		and Technology, Howrah 711103, India		
90	Jaculin Raiza Anasdassa, Raghunathan Raghavacharyb and Pandian Kannaiyana,*	aDepartment of Inorganic Chemistry, University of Madras, Guindy Campus, Chennai-25, India. bDepartment of Organic Chemistry, University of Madras, Guindy Campus, Chennai-25, India.	Biogenic synthesis of Palladium nanoparticles decorated polydopamine modified halloysite using Coniferous tree gum extract and study of its application for synthesis of biaryl compounds	AB253
91	Sayandip Basaka , M.Helen Santhi b* and Caroline Ponraj c	a,bSchool of Mechanical and Building Sciences, cSchool of Advanced Sciences, VIT University, Chennai 600 127, Tamilnadu, India Phone: 044-3993 1144; Fax: 044-3993 2555	Performance of Concrete with Waste Tyre and Nano ZrO ₂	AB255
92	S. Gowreesan, A. Ruban Kumar*	Centre for Crystal Growth, School of Advanced Sciences, VIT University, Vellore – 632 014.	Preparation of Cobalt-Magnesium ferrites (Co _{1-x} Mg _x Fe ₂ O ₄) nanoparticles by sol- gel Auto combustion Method	AB256
93	Pawan S Rana, Ashok Kumar, Ravita, Amita,	D.C.R. University of Science and Technology, Murthal, Sonapat	Effect of Annealing on Structural Properties of Iron Oxide Ferrite Nanoparticles	AB259

94	J.Baalamurugana, V.Ganesh Kumar ^a , V.K.Bupesh Rajab, R.Padmapriyac	aNanoscience Division, Centre for Ocean Research, Sathyabama University, Chennai – 600 119 bDepartment of Automobile Engineering, Sathyabama University, Chennai – 600 119. cDepartment of Civil Engineering, Sathyabama University, Chennai – 600 119.	Slag based nanomaterial in the removal of hexavalent chromium	AB260
95	P. A. Savale	Department of Physics, Arts & Science College, Bhalod Dist Jalgaon 425 304 Maharashtra State, India	POA-PVS-DBS- GOD electrode for Determination of Glucose: A Comparative Study in Acetate and Phosphate Buffers	AB262
96	G Padmalaya ^a , E Manikandan ^b , BS Sreeja ^{c*} , M Arivanandan ^d	a,b,cDepartment of Electronics and Communication Engineering, SSN College of Engineering, Kalavakkam, Chennai- 603 110, Tamil Nadu, India dCentre for Nanoscience and Technology, Anna University, Chennai- 600025, Tamil Nadu, India.	Synthesis, Characterization of Magnetite Nanocomposites and their behaviour in adsorbing chromium ions	AB263
97	Abhinav K Nair, P. E. JagadeeshBabu [*]	Department of Chemical Engineering, National Institute of Technology Karnataka, Surathkal, Mangalore 575 025, Karnataka, India,	Ag-TiO ₂ NANOFIBER MEMBRANES FOR PHOTOCATALYTIC DEGRADATION OF DYES	AB264
98	Dr. GNK Ganesh [*] , Ms. Vianni Chopra	Department of pharmaceutics, JSS College of Pharmacy (A Constituent college of JSS University, Mysore), Ooty, India (Affiliated JSS University,Mysore)	Development and Characterization of Core-Shell Nanoparticles for Anticancer Therapy	AB265
99	P. Uma Sathyakam [*] , Paridhi Singh, Priyamanga Bhardwaj, and P. S. Mallick	School of Electrical Engineering, VIT University, Vellore - 632 014, Tamil Nadu, India.	Geometry induced crosstalk reduction techniques in Carbon	AB266

			nanotube interconnects	
100	A. Mani ^{a, b} , K. Rajesh ^c and P. Praveen Kumar ^{a,*}	a Department of Physics, Presidency College, Chennai- 600005, India. b Department of Physics, Sri Venkateswara College of Technology, Sriperumbudur- 602105, India. c Department of Physics, AMET University , Chennai-603112, India.	Crystal growth, optical, dielectric, thermal, mechanical, laser damage threshold and second harmonic generation characterization of bis 2,5-dimethylanilinium sulfate single crystal	AB269
101	Tenzin Tenkyong, Rachel Mary Mona, W. Jothi Jeyarani, J. Sahaya Selva Mary, B. Praveen, K. Pugazhendhi and J. Merline Shyla*	Dept of Physics, Energy Nanotechnology Centre (ENTeC), Loyola Institute of Frontier Energy (LIFE), Loyola College, Chennai 600 034	A Study On The Optimised Band Gap Tuning Of The Anodised Tio2 Nanotube In Relation To Its Specific Tube Dimensions	AB272
102	Ajith James Josea*, Resmi Ra, Sam Johna, George Jacobb	aDepartment of Chemistry, St.Berchmans College (Autonomous), Changanassery, Kerala-686101. bCenter for Nanotechnology Research, VIT University, Vellore, Tamil Nadu – 632014	Diopside: A potential bioactive material for bone tissue engineering	AB275
103	Resmi Ra, Paulose Thomasb, George Jacobc, Ajith James Josea*	aPost graduate and Research Department of Chemistry, St.Berchmans College, Changanassery, Kerala-686101 bOptoelectronic Lab, St.Berchmans College, Changanassery, Kerala, India- 686101 cCenter for Nanotechnology Research,VIT University, Vellore, Tamil Nadu – 632014	Enhanced dielectric and electron transport mechanism of graphene oxide - PVDF nanocomposite films	AB276

104	Blessy Babukutty ¹ , Fasalurahman Parakkal ¹ , Nandakumar Kalarikkal ² , Swapna.S.Nair ^{1*}	1Central University of Kerala, Department of Physics, Padannakkad, Kasaragod, India 2School of Pure and Applied Physics, Mahatma Gandhi University, Kottayam, India	Synthesis and characterization of nanosized Cobalt Manganese alloys	AB279
105	Mageswari . C1 and Thangaraju . N 1*	CAS in Botany, University of Madras, chennai-600 025	Anti-cancerous, Gold nanoparticles (GNPs) embedded into Bombyx mori silk / PVA composite nanofiber mats: structural characterization and In vitro analysis	AB281
106	Ms. Nethravathi.P*, Dr. Suresh Kumar*,Mr. Anil Raju Y	JSS College of Pharmacy (A constituent college of JSS University, Mysore), Ootacamund, Tamilnadu- 643001	Artesunate loaded Nanodroplets -A preliminary study for improved efficacy in the treatment of Malaria: Formulation, Characterization and Biodistribution study	AB282
107	V.N. Kalpana, V. Devi Rajeswari*	Department of Biomedical sciences, School of Biosciences and Technology, VIT University, Vellore –632 014, Tamil Nadu, India	SYNTHESIS OF PALLADIUM NANOPARTICLES USING LAGENARIA SICERARIA SEED EXTRACT AND ITS LARVICIDAL EFFICACY AGAINST THREE MOSQUITO VECTORS ANOPHELES STEPHENSII, CULEX QUINQUEFASCIAT US AND AEDES AEGYPTI	AB283

108	SrimathiKrishnaswamy ¹ , Ganapathi Subramaniam Nagarajan ^{*2} , Puspamitra Panigrahi ¹ , and Veena Ragupathi ¹	<p>¹Centre for Clean Energy and Nano Convergence(CENCON), Hindustan University, Padur, Kelambakkam, Chennai, India</p> <p>²Quantum Functional Semiconductor Research Centre (QSRC), Nano information Technology Academy(NITA), Dongguk University, 26 phildong3-ga, Chung-gu, Seoul, Korea 100-715.</p>	Visible-light active NaI doped Polypyrrole thin film with superior photocatalytic activity	AB286
109	Anju Anna Jacob ^a , L. Balakrishnan ^{b, *} , S. R. Meher ^b , K. Shambavi ^c and Z. C. Alex ^d	<p>^a School of Electronics Engineering, VIT University, Vellore 632 014, India.</p> <p>^bDepartment of Physics, School of Advanced Sciences, VIT University, Vellore 632 014, India.</p> <p>^cDepartment of Communication, School of Electronics Engineering, VIT University, Vellore 632 014, India.</p> <p>^dDepartment of Sensor and Biomedical Technology, School of Electronics Engineering, VIT University, Vellore 632 014, India</p>	Zn _{1-x} Cd _x O nanoparticles using co-precipitation: structural, optical and photodetection analysis	AB290

110	K. N. Shravana Kumara ¹ , 2, H. P. Nagaswarupa* ¹ , K. R. Vishnu Mahesh* ³ , M.Mylarappa ⁴ , a, S.C.Prashantha ¹ , D.M.K Siddeshwara ⁵ , 2	1Research Centre, Department of Chemistry, EWIT, Bengaluru-560091 2Research and Development Centre, Bharathiar University, Coimbatore-641046 3Department of Chemistry, Dayananda Sagar College of Engineering, Bengaluru- 78 4Research Centre, Department of Chemistry, AMC Engineering College, Bengaluru-560083 aDepartment of Studies and Research in Chemistry, Tumkur University, Tumkur, 5Department of Chemistry, Jyothi Institute of technology, Bengaluru-560062	A new assisted Green Synthesis of MgO Nanoparticles Using Murraya Koenigii Leaf Extract: An Efficient Catalyst for Water Purification	AB291
111	Vinoth Kumar Jayaraman*, Yasuhiro Matsumoto, Arturo Maldonado Álvarez and Maria de la Luz Olvera Amador	Departamento de Ingeniería Eléctrica- SEES, Centro de Investigación y de Estudios Avanzados del Instituto Politécnico Nacional, Apartado postal 14740, México D. F. 07000, México.	Optimization of sputtering power for the fabrication of highly homogeneous ZnO thin films	AB293
112	Vinoth Kumar Jayaraman*, Yasuhiro Matsumoto, Arturo Maldonado Álvarez and María de la Luz Olvera Amador	Departamento de Ingeniería Eléctrica- SEES, Centro de Investigación y de Estudios Avanzados del Instituto Politécnico Nacional, Apartado postal 14740, México D. F. 07000, México.	Fabrication of a- IGZO thin films by co-sputtering: Study of structural, morphological, optical and electrical properties	AB294

113	Vinoth Kumar Jayaraman*, Yasuhiro Matsumoto, Arturo Maldonado Álvarez and María de la Luz Olvera Amador	Departamento de Ingeniería Eléctrica- SEES, Centro de Investigación y de Estudios Avanzados del Instituto Politécnico Nacional, Apartado postal 14740, México D. F. 07000, México.	Structural and morphological evaluation of Al- doped ZnO thin films: Effect of milling time of precursor	AB295
114	Vinoth Kumar Jayaraman*, Yasuhiro Matsumoto, Arturo Maldonado Álvarez and María de la Luz Olvera Amador	Departamento de Ingeniería Eléctrica- SEES, Centro de Investigación y de Estudios Avanzados del Instituto Politécnico Nacional, Apartado postal 14740, México D. F. 07000, México.	Effect of precursor milling time and substrate temperature on the structural, morphological, optical and electrical properties of In- doped ZnO thin films	AB296
115	Vinoth Kumar Jayaraman*, Yasuhiro Matsumoto, Arturo Maldonado Álvarez and María de la Luz Olvera Amador	Departamento de Ingeniería Eléctrica- SEES, Centro de Investigación y de Estudios Avanzados del Instituto Politécnico Nacional, Apartado postal 14740, México D. F. 07000, México.	Fabrication of ZnO thin film sensor for CO gas detection by ultrasonic spray pyrolysis	AB297
116	C Kannana, R Ramanujamb, T Vijayakumarc and Amitabh Dasd	a,b,c,d School of Mechanical Engineering, VIT University, Vellore - 632 014 Tamilnadu, India	Optimization of Stir Casting Parameters for Manufacturing Aluminium based Nanocomposites through Numerical Simulation Technique	AB298

117	D.M.K.Siddeswara ^{1, a} , K.R.Vishnu Mahesh ^{*2, b} , M. Mylarappa ^{3, c} , T.Venkatesh ⁴ , H.P.Nagaswarupa ⁵ , K. N. Shravana Kumara ^{5, a} K.J. Rudresh Kumar ¹ and N.Raghavendra ⁶	1Department of Chemistry, Jyothi Institute of Technology, Bangalore-560062, aResearch and Development Centre, Bharathiar University, Coimbatore-641046. 2Department of Chemistry, Dayananda Sagar College of Engineering, Bengaluru- 560078, Karnataka, India. bDr. D. Premachandra Sagar Center for Advanced Materials, Dayananda Sagar College of Engineering, Bengaluru-78, Karnataka, India. 3Research Centre, Department of Chemistry, AMC Engineering College, Bannerghatta Road Bengaluru-560083, Karnataka, India. cDepartment of Studies and Research in Chemistry, Tumkur University-572103 4Department of Chemistry, ACS College of engineering, Bangalore-560074, India 5Research Centre, Department of Chemistry, EWIT, Bengaluru-560091 6CMRTU, RV College of Bengaluru-59	Enhancement of rGO/CNT/AgO Nanocomposite for the Removal of Acid red 88 from aqueous solution	AB301
118	Rajdeep Roy, Abhinav Parashar, N. Chandrasekaran and Amitava Mukherjee*	Centre for Nanobiotechnology, VIT University, Vellore - 632014, Tamil Nadu, India	Inhibition of Algal Growth Using Photoactive Titanium Dioxide Nanoparticles – An Antifouling Approach	AB303

119	S. Prathap and W. Madhuri*	Ceramic Composite Laboratory, Centre for Crystal Growth, SAS, VIT University, Vellore-632014, Tamilnadu, India	Investigation of Structural and electric modulus of Lead Hexaferrites Synthesized by sol-gel method	AB304
120	T.V.L Thejaswini a; D. Prabhakaran*,b; M. Akhila Maheswari b	a Chemistry Division, School of Advanced Sciences, Vellore Institute of Technology – University, Chennai Campus, Chennai 600127, Tamil Nadu, India b Department of Chemistry, School of Advanced Sciences, Vellore Institute of Technology – University, Vellore 632014, Tamil Nadu, India	Synthesis of Structurally Ordered Mesoporous ZrO ₂ /TiO ₂ Monoliths and their Potential Photocatalytic Application towards Degradation of Organic Dye (NG-B) Pollutants	AB305 M
121	Vijaya Bhaskar.A, and M.Shanmugasundaram*	a School of Mechanical and Building Sciences(SMBS), VIT University, Chennai - 600127, Tamil Nadu, India.	An Investigation on Behavior of Multi-Walled carbon nanotubes as an additive to cement	AB306
122	V. S. Kirankumar and S. Sumathi*	Department of Chemistry, SAS, VIT University, Vellore - 632014, Tamil Nadu, India.	Structural, optical, magnetic and photocatalytic properties of bismuth doped copper aluminate nanoparticles	AB310
123	Vamangi M. Pandya a*, Dweipayan Goswami b and Sachin A. Joshi a	a Dr. K. C. Patel Research & Development Center, Charotar University of Science and Technology (CHARUSAT), Changa-38842, Dist.: Anand, Gujarat, India. b Department of Bio-chemistry and Biotechnology, St. Xavier's College (Autonomous), Ahmedabad, Gujarat, India.	Synthesis of novel anticancer Polyoxometalate [CoW ₁₁ O ₃₉ (CpTi)] ⁷⁻ --chitosan nano-complex and its in-vitro toxicity assessment	AB311

124	Lavanya T and Dr. Priyankar Paira*	a School of Advanced Science, VIT University, Vellore - 632 014, Tamil Nadu, India.	Biotin Receptor targeting novel Graphene Quantum dot conjugates for theranostic applications	AB312
125	Natarajan Saravanana, Annamalai Senthil Kumara*	aNano bioelectrochemical Research Laboratory, Department of Chemistry, School of Advanced Sciences, VIT University, Tamilnadu, Vellore – 632014, India	A novel Mn(II) polypyridine complex functionalized carbon nanotube modified electrode for electrochemical sensing of hydrogen peroxide	AB314
126	A. Vijayalakshmi*, S. Srinivas, Badeti Satyanarayana and A. Subramanyam Reddy	a Department of Mathematics, VIT University, Vellore - 632 014, Tamil Nadu, India.	Hydromagnetic pulsating flow of nanofluid between two parallel walls with porous medium	AB317
127	A. Subramanyam Reddy*, S. Srinivas and K. Jagadeshkumar	a Department of Mathematics, VIT University, Vellore - 632 014, Tamil Nadu, India.	Blood-gold nanofluid flow between expanding or contracting permeable walls with slip effects	AB319
128	R.Rangasamy*, K.Lakshmi, E.Prathibha, A.Sridhar and M.Selvaraj	Department of Chemistry, Guru Nanak College, Velachery, Chennai 600042, Tamil Nadu, India.	Immobilization of Ag/Pt Bimetallic Nanoparticles on Insoluble Polymer Microsphere for Aqueous Phase Reduction of Nitro Compound	AB321
129	Muhammed Shajudheen V Pa*, Anitha Rani Ka, Senthil KumarVa , Uma Maheswari Ab and Saravana Kumar Sc	a Department of Physics, Karpagam University, Coimbatore, Tamil Nadu, India bDepartment of Sciences, Amrita Vishwa Vidya Peetham, Coimbatore, Tamil Nadu, India c Department of Physics, NSS College Pandalam, Kerala, India	Optical and Corrosion Studies of Spray Pyrolysis Coated Titanium Dioxide Thin Films	AB322
130	K. V. Shilna ^a , S. Vivek,, Swapna S. Nair ^{a*}	Department of Physics, Central University of Kerala, Kasargod, Kerala -671 314	Effect of Sintering Conditions for a novel Bismuth based high temperature superconductor (Bi 1112)	AB323

131	Raj Kumar G [a], Dharanipriya P [b], Vijayanandh R [c] and Senthil Kumar M [d]	[a], [c] – Assistant Professor, [b] – BE Student, [d] – Assistant Professor (SRG), Department of Aeronautical Engineering, Kumaraguru College of Technology, Coimbatore, Tamilnadu, India	Investigation of advanced nanocomposites test specimens for Aerospace applications R	AB324
132	Amrita Biswas b and Debasish Mishra a,b*	a Centre for Biomaterials Cellular and Molecular Theranostics (CBCMT), VIT University, Vellore, T.N.-632014, India. b School of Bio-Sciences and Technology (SBST), VIT University, Vellore, T.N.-632014, India.	Use of Membrane Filter for Isolation of Nanosopic Extracellular Vesicles from Cultured A549 Lung Cancer Cells: A Feasibility Study	AB327
133	P. Chithralekha ¹ and R. Srinivasan ^{2,*}	1 Department of Physics, G.Venkataswamy Naidu College, Kovilpatti - 628 502. 2 Department of Physics, Thiagarajar College, Madurai – 625 009, India.	The Study on Acoustical Parameters of Ni _x Zn _{1-x} Fe ₂ O ₄ Nanoferrofluid Prepared by Co- Precipitation Method	AB328
134	K. Gangadevi ¹ and R. Srinivasan ^{1,*}	¹ Department of Physics, Thiagarajar College, Madurai – 625 009	Study of ClAlPc /CdS Dye Sensitive Solar Cells	AB329
135	K.Renukadevi ^a , K.Gangadevi ^b and R.Srinivasan ^{b,*}	aDepartment of Physics, G. Venkataswamy Naidu College, Kovilpatti – 628502, India. bDepartment of Physics, Thiagarajar College, Madurai – 625009, India.	Synthesis And Characterization of b- Carotene (Natural Dye) Sensitizer Based Solar Cell	AB331
136	T.K.M. Prashantha Kumar ¹ and S.K. Ashok Kumar ¹	¹ Department of Chemistry, School of Advanced Sciences, VIT University, Vellore- 632014, India	EQUILIBRIUM AND KINETICS STUDIES ON THE ADSORPTION OF PHENOLS BY A HIGHLY POROUS CARBON PREPARED FROM RENEWABLE RESOURCE	AB332

137	Sanjeev Kumar a,b*, Supriya Vaish a, Ritu Singh a	aDepartment of Environmental Science, School of Earth Sciences, Central University of Rajasthan, Kishangarh, Ajmer – 305801, Rajasthan, India bSchool for Environmental Science, Babasaheb Bhim Rao Ambedkar University, Lucknow-226025, Uttar Pradesh, India	Nanotechnology for Remediation of Dyeing Industry Wastewater	AB333
138	N. Deepika Reddy, K.Govardhan, S. Muthuraja*	School of Electronics Engineering, VIT University, Vellore- 632 014. Tamil Nadu, India.	Effective approach for the synthesis of Isochrominopyrrolon es and its fluorescence studies for OLED applications	AB336
139	M. Vijaya Bharathi, Priyankar Paira*	*Department of chemistry, School of advanced sciences, VIT University, Vellore- 632014, Tamilnadu, India.	Chemoselective “on water” surface immobilization of quantum dot conjugates via bioorthogonal strain- promoted click Chemistry: An efficient approach for DNA detection	AB337
140	P.Saravanan ^{a*} , A.Gnanavelbabu ^b , P.Pandiyaraj ^c	a, b Department of Industrial Engineering, CEG Anna University, Chennai - 600025, Tamil Nadu, India. c Department of Mechanical Engineering, CEG Anna University, Chennai - 600025, Tamil Nadu, India.	Effective Thermal and Optical Analysis of ZnO and AZO thin films	AB338
141	R. K. Kalaiezhily ¹ , G. Saravanan ² , V. Asvini ³ and K. Ravichandran ^{1*}	^{1, 2, 3} Department of Nuclear Physics, University of Madras, Chennai 600 025, India.	Synthesis and Study of Ce Doped ZnO Nanophosphors	AB344

142	P.Pandiyaraj ^{a*} , A.Gnanavelbabu ^b , P.Saravanan ^c	a Department of Mechanical Engineering, CEG Anna University, Chennai - 600025, Tamil Nadu, India. b,c Department of Industrial Engineering, CEG Anna University, Chennai - 600025, Tamil Nadu, India	Experimental Analysis of MgO Nano fluids for Thermal enhancement in a Novel flat plate heat pipes	AB347
143	Dr J.P Ruparelia, Shrey A Shah* and Rahul Gundesha	Institute of Technology, Nirma University, Ahmedabad - 382481, Gujarat, India.	A comparative study of detection of melamine in milk by interference sensing of bio-functionalized silver nanoparticles	AB348
144	A. Karthik kumar, M. Kannan, K. Manikandan, V. Karthikeyan, B. Mukeswaran ¹ , R. Harikaran, G. Balakrishnan ^{1*}	Department of Mechanical Engineering, Bharath Institute of Science and Technology, Bharath University, Chennai-600073, India ¹ Department of Nanotechnology, Bharath Institute of Science and Technology, Bharath University, Chennai-73, India	Microstructural and Nanomechanical properties of Aluminium nitride (AlN) Thin films deposited by RF magnetron sputtering	AB353
145	G. Balakrishnan*, J.S. Ram Vinoba and R. Rishaban	Department of Nanotechnology, Bharath Institute of Science and Technology, Bharath University, Chennai-600073, Tamilnadu, India	Microstructural and Properties of P-type NiO Thin films Prepared by RF Magnetron sputtering	AB356
146	Ravi.S*, Supravob Mandal and Harish M.Kittur ^a	a Department of Nano and Microelectronics, VIT University, Vellore - 632 014, Tamil Nadu, India.	Design and verification of high performance standard cells for Clock Network Applications	AB360
147	Shobana Muthusamy and N. Madhusudhana Rao*	Department of Physics, Thin Films Research Laboratory, School of Advanced Sciences, VIT University, Vellore 632 014, Tamil Nadu, India	High Quality Controlled Nanostructure ZnTe Thin Films by Electron Beam Evaporation: as a Function of Substrate Temperature ($T_s \geq$ 303K)	AB362

148	Deena Titus ^a , E. James Jebaseelan Samuel ^{a*} , and A. Nirmala Grace ^b	a Medical Gel Dosimetry Lab, Department of Physics, VIT University, Vellore - 632 014, Tamil Nadu, India. b Centre for Nanotechnology Research, VIT University, Vellore - 632 014, Tamil Nadu, India.	Initial study on a new gel dosimeter based on silver nanoparticle	AB363
149	Kaushita Banerjee, Nandita Kamat, Diana Pearlina, Narayanaswamy Thiagarajan Padma Thiagarajan [*]	School of Biosciences and Technology, VIT University, Vellore, India, 632014	Murraya koenigii Linn emollient cream for topical applications	AB365
150	N. MANJULA ¹ , S. MUTHURAJA ² , G. SELVAN ³ , A. AYESHAMARIAM ^{4*} AND M. JAYACHANDRAN ⁵	1 Research and Development Center, Bharathiyar University, Coimbatore, 641076, India selvan96@rediffmail.com 2Department of sensors and biomedical technology, SENSE, VIT University, Vellore, India smartnsweet@gmail.com 1,3 Department of Physics, Thanthai Hans Rover College, Perambalur, India selvan96@rediffmail.com 1,4* Department of Physics, Khadir Mohideen College, Adirampattinam, 614 701, India aismma786@gmail.com 5Department of Physics, Sree Sevugan Annamalai College, Devakottai, 630303, India mjayam54@gmail.com	Sn doped TiO ₂ oxide materials for biological applications	AB367

151	Subramanian Nellaiappan and Annamalai Senthil kumar*	Nano and Bio-electrochemical research lab, Chemistry Division, School of Advanced Sciences, Vellore Institute of Technology University, Vellore-632 014 India	Reductive cleavage of methyl orange azo dye into redox active amino-species immobilized on MWCNT modified electrode for selective flow injection analysis of ascorbic acid at low potential	AB368
152	V.Jegadheesan Durgesh Laxman Tiwari and K. Sivasankaran*	*Department of Micro and Nanoelectronics, School of Electronics Engineering, VIT University, Vellore – 632014, Tamilnadu, India.	Comparative Study on Breakdown Characteristics of 20nm Junctionless FinFET on Different Substrate	AB369
153	U. Anjaneyulu, B. Priyadarshini and U. Vijayalakshmi*	Chemistry Division, School of Advanced Sciences, VIT University Vellore -632014, Tamil Nadu, India.	In vitro Biological evaluations of sol-gel synthesized Ce and Si doped Hydroxyapatite using snail shell waste as a calcium source for bone remodeling applications	AB372
154	Ravikumar K. V. G., Mrudula P.*, Natarajan Chandrasekaran, Amitava Mukherjee**	Centre for Nanobiotechnology, VIT University, Vellore, Tamil Nadu, India	Synthesis and immobilization of zero valent iron nanoparticles in calcium alginate beads for Hexavalent chromium [Cr (VI)] removal	AB376
155	Deepak Kumar ¹ , Ashok M Raichur ² , N Charasekaran ¹ and Amitava Mukherjee ^{1*}	1Centre for nanobiotechnology, VIT University, Vellore-632014, Tamil nadu, India 2Department of Materials Engineering, Indian Institute of Science, Bangalore, India	Synthesis and characterization of zero valent iron nanoparticles (nZVI) and its antibacterial effects	AB377
156	Saravanan Natarajan, Mrudula Pulimi, N. Chandrasekaran, Amitava Mukherjee	Center for Nanobiotechnology, VIT University, Vellore, Tamil Nadu, India	Differences in antibacterial activity of PMMA/TiO ₂ /Ag nanocomposite on individual dominant bacterial isolates from packaged drinking water, and their consortium	AB378

			under UV-C and dark conditions	
157	Srinu Akula, [†] S.Gouse Peera, [†] V.Parthiban, A.K.Sahu,*	CSIR-Central Electrochemical Research Institute—Madras unit, CSIR Campus, Taramani, Chennai, 600 113, INDIA	Investigations on electrocatalytic activity of nitrogen and fluorine co-doped MWCNTs towards oxygen reduction reaction for polymer electrolyte fuel cell	AB380
158	Aparna Sanal, Velmurugan V, D. Kannadassan and Dr.P.Sathyanarayanan	VIT University, Vellore - 632014 - Tamilnadu	Fabrication of Negative Voltage linearity SiO ₂ MIM capacitors for RF-AMS Applications	AB381
159	S. Nivedha ¹ , P. Ramesh Babu ² , Penchalaiah Palla ³ and K. Senthilnathan ^{2*}	1School of Electronics Engineering, VIT University, Vellore, Tamilnadu, India. 2Department of Physics, School of Advanced Sciences, VIT University, Vellore, Tamilnadu, India. 3Centre for Nanotechnology Research, VIT University, Vellore, Tamilnadu, India	An Efficient Biosensor using Photonic Crystal Fiber	AB382
160	G. Melwin ¹ , P. Ramesh Babu ¹ , Penchalaiah Palla ² and K. Senthilnathan ^{1*}	1Department of Physics, School of Advanced Sciences, VIT University, Vellore, Tamilnadu, India. 2Centre for Nanotechnology Research, VIT University, Vellore, Tamilnadu, India.	Modeling a D - shape plasmonic fiber sensor	AB383
161	M. Chellappa and U. Vijayalakshmi*	Department of Chemistry, School of Advanced Sciences, VIT University, Vellore - 632 014. Tamil Nadu, India.	Fabrication of Iron Oxide/Silica Core-Shell Magnetic Nanoparticles and its In-vitro Cytotoxicity	AB385

			Studies for Biomedical Applications	
162	V. Harikrishnan, and R. EzhilVizhi*	^a Materials Research Laboratory, Department of Physics, School of Advanced Sciences, VIT University, Vellore.	Investigations on structural and magnetic properties of Co ²⁺ ion rich nanosized Co _x Fe _{3-x} O ₄ (x = 1.5, 1.75)	AB388
163	Sivakumar Nishaa, Vattekat Haridasb, and Annamalai Senthil Kumara*	a Nano and Bioelectrochemical research lab, Chemistry Division, School of Advanced Sciences, Vellore Institute of Technology University, Vellore-632 014, India b Department of Chemistry, Indian Institute of Technology Delhi (IITD), Hauz Khas, New Delhi 110016	Electrochemical oxidation of pyrene linked dendrimer to surface confined quinone derivative on graphitized mesoporous carbon and its cysteine electrocatalysis	AB391
164	V. Saranya, Amitava Mukherjee and Natarajan Chandrasekaran	Centre for Nanobiotechnology (CNBT), VIT University, Vellore - 632 014, Tamil Nadu, India.	Formulation and characterization of orange oil nanoemulsion and its toxicity profile on human lymphocytes	AB393
165	Ramesh reddy, Penchalaiah Palla b and Vijay Kumar a *	a School of Electronics Engineering VIT University, Vellore - 632 014, Tamil Nadu, India. b Centre for Nanotechnology Research, VIT University, Vellore - 632 014, Tamil Nadu, India.	A Triple band flexible Antenna using three layer Graphene patch and polymer Substrate	AB397
166	S.Asha ^{1*} , G .Vanitha Kumari ¹ , A. Nimrodh Ananth ² and M. A. Jothi Rajan ¹	¹ Bio-Nano Laboratory PG and Research Department of physics, Arul Anandar College, Madurai, India ² MOE Key Laboratory for Macromolecular Synthesis and Functionalization, Department of Polymer Science and Engineering,	Investigations on Bio-mineralization of reduced graphene oxide aerogel in the presence of various polymers	AB402

		Zhejiang University, P. R. China		
167	Harish Gopinath ¹ Murugesh Shiva Shankar ^{1#}	Department of Chemistry, School of Advanced Sciences, VIT University, Vellore-632014, Tamil Nadu.	In-vivo toxicity (Acute and Sub-acute) and Anti-diabetic activity of Ayurvedic Nano Medicine- Abhrak Bhasma	AB403
168	Pallavi Halkare, Nirmal Punjabi, Aswathy Nair, Jigme Wangchuk, Kiran Kondabagil and Soumyo Mukherji	Department of Biosciences and Bioengineering, IIT Bombay, Mumbai, India	Detection of Heavy Metals by Bacteria - Gold Nanoparticle Matrix using Fiber Optic Sensor	AB406
169	S. Y. Krishnan ¹ , A. K. Caitanya ¹ , P. Tripathy ² , V. R. Kar ^{1,*}	1School of Mechanical Engineering, VIT University, Vellore - 632 014, Tamil Nadu, India. 2Department of Mechanical Engineering, NIT Rourkela-769008, Odisha, India	Free Vibration Behavior of Carbon Nanotube Reinforced Composite Conical Shell Panel under Thermal Environment	AB407
170	P. S. Mandhatha ¹ , K. V. L. S. S. Reddy ¹ , P. Tripathy ² , V. R. Kar ^{1,*}	1School of Mechanical Engineering, VIT University, Vellore - 632 014, Tamil Nadu, India. 2Department of Mechanical Engineering, NIT Rourkela, 769008, Odisha, India.	Effect of Perforation on the Bending Behavior of Temperature-Dependent Carbon Nanotube Reinforced Composite Plate	AB408
171	Saghya Infant Shofia, Jayakumar K, Amitava Mukherjee and Natarajan Chandrasekaran	a Centre for Nanobiotechnology, VIT University, Vellore – 632 014, Tamil Nadu, India bSchool of Biological Sciences, Madurai Kamaraj University, Madurai – 625 021, Tamil Nadu, India	Study of nanoparticles impact on the growth and exopolysaccharides production of epiphytic bacteria from seaweeds	AB409
172	Shebina P. Rasheed ¹ and Murugesh Shivashankar ^{1 #}	1. Department of Chemistry, School of Advanced Sciences, VIT University, Vellore, Tamil Nadu, India.	HERBOMINERAL FORMULATION AS A NANO TECHNOLOGICAL APPLICATION	AB412

173	Chandrappa M ^{a,b} , Shiva Reddy GV ^c , Korrapati Swathi ^d , Rahaman Fazlur ^c , Narasimha Murthy B ^c , Uthirapathy Vijayalakshmi ^d , Phani Kumar Pullela ^{a,b,c,d}	a. Bigtec Pvt Ltd., 59th “C” cross, 4th “M” Block, Rajajinagar, Bangalore, India - 560010. b. CMR University, HRBR Layout, 2nd Block, Kalyana Nagar, Bangalore - 560043. c. CMR Institute of Technology, ITPL Main Road, Bangalore, Karnataka, India - 560037. d. VIT University, Vellore, Tamilnadu, India-632014.	Magnetic nanoparticle assisted bulk scale synthesis of Quinazoline Synthon	AB413
174	Gopi Kalaiyarasana, Anusuya Kb, James Josepha*	aElectrodics and Electrocatalysis Division, CSIR-Central Electrochemical Research Institute, Karaikudi-630003, India bSchool of Chemistry, Madurai Kamaraj University, Madurai-625021, India	Melamine induced fluorescence of glutathione protected gold nanoclusters and ratiometric quantification of melamine in commercial cow milk	AB414
175	Udaya Kumar Ga, Suresh Sa, Thansekhar M Rb, Ravi Teja Ca, Sudheekar Reddy Ma	aNational institute of technology, Tiruchirappalli, Tamilnadu, India bK.L.N. College of Engineering, Madurai, Tamilnadu, India	EFFECT OF GRAPHITE COATING ON THE POOL BOILING CHARACTERISTICS OF CONVERGING CHANNELS BASED COPPER SURFACE	AB415
176	B. S. Srinath and K. Byrappa	Department of Studies and Research in Microbiology, Mangalore University, P.G. Center, Chikka Aluvara. - 571232, Kodagu. Karnataka, India.	Eco-friendly synthesis of gold nanoparticles by Bacillus subtilis and their environmental applications	AB416
177	M. A. Khan, K. K. Nanda and S. B. Krupanidhi*	Materials Research Centre, Indian Institute of Science, Bangalore – 560012, India.	Enhanced Infrared Photodetection by Solvothermally Reduced Graphene Oxide	AB418

178	Dr J.P Ruparelia , Neeti Rastogi* and Aditi Kaviya	Institute of Technology, Nirma University, Ahmedabad – 382 481, Gujarat, India.	Green Synthesis of Silica Nanoparticle from Rice Husk Ash	AB421
179	S. Ravi* , and C. Senthilkumar	Department of Physics,Mepco Schlenk Engineering College, Sivakasi, Tamil Nadu, India.	Structural and magnetic property of a new Bi ₂ MnMoO ₆ double perovskite material	AB422
180	Upendra Kumar ^{1*} , Vipin Kumar ² , Enamullah ³ and Girish S. Setlur ¹	¹ Department of Physics, Indian Institute of Technology Guwahati, Guwahati, Assam, India-781039, ² Department of Metallurgical Engineering & Materials Science, Indian Institute of Technology Bombay, Mumbai, Maharastra, India- 400076, ³ Department of Physics, Indian Institute of Technology Bombay, Mumbai, Maharastra, India- 400076	Quantized Transient Non Linear Rabi Frequency Response in Weyl Semimetals	AB423
181	M. Ponnar and K.Pushpanathan#	PG and Research Department of Physics, Government Arts College - Karur-5	Strong Ultra-violet Absorption in Copper Doped CeO ₂ Nanospheres	AB424
182	J S. Swathy , Natarajan Chandrasekaran*	Centre for Nanobiotechnology, VIT University, Vellore-632104	Comparative study between two different high energy emulsification strategies for nanoformulation	AB426
183	Rashmirekha Swain a, Sivabrata Sahu a, and G.C. Rout*,b	a School of Applied Sciences (Physics), KIIT University, Bhubaneswar, Odisha, India b Condensed Matter Physics Group, Physics Enclave, Plot No-664/4825 , Lane- 4A, P.O -Patia , Shree Vihar, Pin - 751031, Bhubaneswar, Odisha, India	Model Study of the Role of Impurity on the Ferromagnetic Order in Graphene-on-Substrate	AB430

184	Sivabrata Sahu a, S. K. Panda b and G.C. Rout*,c	a School of Applied Sciences (Physics), KIIT University, Bhubaneswar, Odisha, India b K.D. Science College, Pochilima, Hinjilicut , Pin-761101, Ganjam , Orissa, India c Condensed Matter Physics Group, Physics Enclave, Plot No-664/4825 , Lane- 4A, P.O -Patia , Shree Vihar, Pin - 751031, Bhubaneswar, Odisha, India.	Tight-binding model study of the tunable anti-ferromagnetism and electron specific heat of AA-staked bi-layer graphene in a transverse electric field	AB431
185	Singh Rohitkumar Shailendra and V.N.Ramakrishnan*	*Department of Micro and Nanoelectronics, SENSE, VIT University, Vellore- 632014, Tamil Nadu, India	Study of Reconfigurable Properties of DG-CNTFET with different Oxide material on Small Length Scale	AB433
186	Smita Survase ¹ , Himanshu Narayan ² I. Sulania ³ , Pravin Dhangda ⁴ Madhavi Thakurdesai ¹	1 Thin Film Research Laboratory, Department of Physics, Birla College, Kalyan 421 304, India 2 Department of Physics & Electronics, National University of Lesotho, Roma 180, Lesotho 3 Inter University Accelerator Centre, Aruna Asaf Ali Road, New Delhi 110 067, India 4K.M.C. College of arts, science and commerce, Khopoli.401203; India	CdTe nanophase formation using swift heavy ion induced layer mixing in a Te/Cd/Te trilayer	AB434
187	H.S. Gouda ¹ , Sivabrata Sahu ¹ , S.K.S. Parashar ¹ , and G.C. Rout ^{2,*}	School of Applied Sciences (Physics), KIIT University, Bhubaneswar, Odisha, India 2 Condensed Matter Physics Group, Physics Enclave, Plot No-664/4825 , Lane- 4A, P.O -Patia, Shree Vihar, Pin - 751031,	Microscopic study of the effect of substrate induced gap and doping on the temperature dependent anti-ferromagnetic gap in monolayer graphene	AB439

		Bhubaneswar, Odisha, India.		
188	A.Karthikeyan, and P.S.Mallick*	a School of Electrical Engineering, VIT University, Vellore - 632 014, Tamil Nadu, India.	Buffer for High Performance in CNT based VLSI interconnects	AB442
189	Kelothu Suresh, R. Vinoth Kumar and G. Pugazhenthii*	Department of Chemical Engineering, Indian Institute of Technology Guwahati, Guwahati - 781039, Assam, India	Properties of polystyrene (PS)/Co-Al LDH nanocomposites prepared by melt intercalation	AB444
190	P.Manuneethi Arasua*, and V.Krishnarajb	aDepartment of Mechanical Engineering, KSR College of Engineering, Tiruchengode- 637215, Tamil Nadu, India. bDepartment of Production Engineering, PSG College of Technology, Coimbatore- 641004, Tamil Nadu, India.	Comparative Investigation on Mechanical Properties of Banana and Glass Reinforced Polymer based Composites manufactured by Hand layup and VARTM process	AB448
191	Sk Ershadul Haquea,b, S. Kalaiarasana and A. Sheelaa*	aDepartment of Chemistry, School of Advanced Sciences, VIT University, Vellore - 632 014, Tamil Nadu, India bNarayana Pharmacy College, Chintha Reddy Palem, Nellore, Pin- 524002, India	Polymeric microspheres as a drug carrier for sustained release of metformin based on miscibility study	AB450

192	Brindha Jb, Kaushik Chandaa* and Balamurali M Mb*	a – Department of Chemistry, School of Advanced Sciences, VIT University, Vellore - 632 014, Tamil Nadu, India b – Department of Chemistry, School of Advanced Sciences, VIT University, Chennai campus, Vandalur-Kelambakkam Road, Chennai - 600 127, Tamil Nadu, India	A review on developments towards smart biomaterials – Insights and applications	AB451
193	Prateek Uttam, Varunkumar.K, and Anita Sagadevan Ethiraj*	Centre for Nanotechnology Research, VIT University, Vellore - 632 014, Tamil Nadu, India.	Synthesis and Characterization of Copper doped Nickel Oxide Nano Catalyst and its Application in Photodegradation of Phenol	AB452
194	P. Anandhia*, V. Jawahar Senthil Kumara, and S. Harikrishnanb	aDepartment of Electronics and Communication Engineering, Anna University, Chennai, India bDepartment of Mechanical Engineering, Adhi College of Engineering and Technology, Sankarapuram, Kancheepuram, India	Preparation and enhanced capacitive behavior of Ni-ZnO nanocomposite as Electrode for Supercapacitor	AB454
195	Surendar J ^a , Anita Sagadevan Ethiraj ^a and Ajay Kumar Vaidhyanathan ^{b*}	a Centre for Nanotechnology Research, VIT university, Vellore-632014, Tamil Nadu, India b Intel Corporation, CCG, Bangalore, Karnataka, India	Investigation of Thermal conductivity in Single and Few layer Graphene on Different types of substrate materials	AB455
196	M.S.Aruna Gandhi ¹ , C. Gandhi ² , P.Ramesh Babu ² and K. Senthilnathan ^{2*}	¹ School of Engineering, Presidency University, Bengaluru, Karnataka, India. ² Department of Physics, School of Advanced Sciences, VIT	Metamaterial Fiber Sensor Modeling with Surface Plasmon and Classical Guiding Modes	AB456

		University, Vellore, Tamilnadu, India.		
197	Raju Jadar ^{a*} , K.S.Shashishekar ^b , Channa Keshava naik N ^c ,	aResearch scholar, Mechanical Engineering Department, S.I.T Tumkur b Professor and Dean, Department of Mechanical engineering.SI.T Tumkur c PG student, Department of Mechanical engineering.S.I.T Tumkur	Performance Evaluation of Al- MWCNT based Automobile Radiator	AB457
198	J. Manikandan, M. Arivanandhan and R. Jayavel*	Centre for Nanoscience and Technology, AC Tech Campus, Anna University Chennai - 600025, India.	Carbon Incorporated Nickel based nanostructured material for Supercapacitor Application	AB461
199	K. Srinivasan a*, E. James Jabaseelan Samuela, V. Poopathib and A. Nirmala Gracec	aDepartment of physics, SAS, VIT University, Vellore - 632 014, Tamil Nadu, India. bDepartment of medical physics, Apollo Gleneagles Hospital, Kolkata - 700 054, India cCentre for Nanotechnology Research, VIT University, Vellore - 632 014, Tamil Nadu, India.	Radiological properties of gold loaded soft tissue its application in nanoparticle enhanced x-ray therapy	AB463
200	K.Srinivasana*, E.James Jabaseelan Samuela, V.Poopathib and A.Nirmala Gracec	aDepartment of physics, SAS, VIT University, Vellore - 632 014, Tamil Nadu, India. bDepartment of medical physics, Apollo Gleneagles Hospital, Kolkata - 700 054, India cCentre for Nanotechnology Research, VIT	Dose enhancement of Bismuth Oxide nanoparticle its application in radiotherapy	AB464

		University, Vellore - 632 014, Tamil Nadu, India.		
201	K.Srinivasana*, E.James Jabaseelan Samuela, V.Poopathib and A.Nirmala Gracec	aDepartment of physics, SAS, VIT University, Vellore - 632 014, Tamil Nadu, India. bDepartment of medical physics, Apollo Gleneagles Hospital, Kolkata - 700 054, India cCentre for Nanotechnology Research, VIT University, Vellore - 632 014, Tamil Nadu, India.	Investigation on energy dependency of dose enhancement factor produced by gold nanoparticle	AB465
202	K. Govardhan, and A.Nirmala Grace*	a Centre for Nanotechnology Research, VIT University, Vellore - 632 014, Tamil Nadu, India.	Lanthanides as Dopants in Sensors – A Review	AB466
203	K. Govardhan, and A.Nirmala Grace*	a Centre for Nanotechnology Research, VIT University, Vellore - 632 014, Tamil Nadu, India.	Multiphysics Modelling and Optimization of Gas Flow Characteristics in a Flow Metric based Gas Sensing Chamber with Integrated Heater for Analyzing Nano Chemical Sensors	AB467
204	K. Govardhan, and A.Nirmala Grace*	a Centre for Nanotechnology Research, VIT University, Vellore - 632 014, Tamil Nadu, India.	Temperature Optimized Ammonia and Methanol Sensing using Ce-doped Tin Oxide Thin Films in a Novel Flow Metric Gas Sensing Chamber	AB468

205	Deepti Rana ¹ , Akshay Bhatt ^{2*} , Aditya Karunanithi ^{3*} and Murugan Ramalingam ^{1,4}	1Centre for Stem Cell Research (CSCR), A Unit of the Institute for Stem Cell Biology and Regenerative Medicine- Bengaluru, Christian Medical College Campus, Vellore 632002 2School of Biosciences and Technology, Vellore Institute of Technology, Vellore 632014 3Department of Biotechnology, Periyar Maniammai University, Vallam, Thanjavur 613403 4WPI-Advanced Institute for Materials Research, Tohoku University, Sendai 980-8577, Japan *Short term project students of CSCR	Magnetic nano hydroxyapatite: Preparation and characterization	AB469
206	Aparna T P and Anita S Ethiraj*	Centre for Nanotechnology Research, VIT University, Vellore - 632 014, Tamil Nadu, India.	Preparation and Study of Cu@Cu ₂ O- Graphene Oxide Nanocomposites for Photocatalytic Degradation of Different Dyes	AB471
207	Ramakrishna Itteboina, Tapan K. Sau*	Center for Computational Natural Sciences and Bioinformatics, International Institute of Information Technology- Hyderabad, Gachibowli, Hyderabad-500032, India.	Sol-gel synthesis and characterizations of morphology-controlled Co ₃ O ₄ particles	AB480
208	M.Murphy, D.Manoj, enmozhi, D.Saravenakumar, S.Senthil kumar	Department of Chemistry, School of Advanced Sciences, VIT University, Vellore	Electrochemical reduction of 2-nitrophenol on Aminopropyl methyl viologen based Ionic liquid platform	AB481
209	K.Theyagarajan, K.Thenmozhi	Smart materials laboratory for Bio-sensing and Catalysis, Department of Chemistry, School of Advanced Sciences, VIT University, Vellore	Electrochemical behavoiour of Azure-A/Ionicd/Electrochemically reduced Graphene oxide on modified screen printed carbon	AB482

			electrode and its application as Non-enzymatic hydrogen peroxide sensor	
210	M.Elanchezian, D.Manoj, D.Saravanakumar , S.Senthil kumar	Smart materials laboratory for Bio-sensing and Catalysis, Department of Chemistry, School of Advanced Sciences, VIT University, Vellore	Covalent immobilization of Ferrocene on functionalized Graphene oxide for Amperometric determination of catechol	AB483
211	Palajonna Narasaiah, Sarada Nallani Chakravarthula *	Department of Chemistry, School of Advanced Sciences, VIT University, Vellore-14, Tamil Nadu, India	Synthesis of Gold nanoparticles by cotton peels aqueous extract and their catalytic efficiency for the degradation of Dyes and antioxidant activity	AB484
212	Dayakar. T a , K. Venkateswara Rao a*	a Centre for Nano Science & Technology, Institute of Science & Technology, Jawaharlal Nehru Technological University Hyderabad, Telangana State-500085, India.	Cerium oxide nanoparticles synthesized by a Novel method: Structural analysis and its Non enzymatic glucose biosensing	AB485
213	Barkha Rani, N.K. Sahu	Centre for Nanotechnology Research, VIT University, Vellore-632014 Tamilnadu, India	Synthesis of nanostructured SnO ₂ catalyst by polyol reduction and assessment of photocatalytic degradation of methylene blue dye	AB486

214	Sathiyathan Felix, George Jacobb, Sathyanarayanan.Pb, Soon Kwan Jeongc*, Andrews Nirmala Gracec*	aDepartment of physics, Dhanalakshmi college of engineering, Tambaram, Chennai-601 301 bClimate Change Technology Research Division, Korea Institute of Energy Research, Yuseong-gu, Daejeon 305-343, South Korea. CCentre for Nanotechnology Research, VIT University, Vellore 632 014, Tamil Nadu, India.	A novel CuO-N- doped graphene nanocomposite based hybrid electrode for the electrochemical detection of glucose	AB488
215	Umadevi.K.S	School of Computer Engineering, VIT University, Vellore - 632 014, Tamil Nadu, India.	Nano-networks for terahertz communication – current state of art	AB489
216	M. L. Aparna, Sudha Murali Krishna, P..Sathyanarayan, N. K. Sahu*	Centre for Nanotechnology Research, VIT University, Vellore, 632014.	Synthesis of metal ferrite (MFe ₂ O ₄ , M=Fe, Co, Ni, Mn, Cu, Zn) nanoassemblies by solvothermal method and comparative study of their supercapacitive behavior	AB490
217	B.Keerthika, R.Vidya*	Department of Biomedical Sciences, School of Biosciences and Technology, VIT University, Vellore, Tamil Nadu	Anti-microbial activity and Characterization of Zinc ferrite Magnetic Nanomaterials	AB492
218	Archana.L.S ^{a*} , Deepthi.N.R ajendran ^a	aDepartment of Physics, Govt.College for Women ,Thiruvananthapuram	Structural and optical properties of Ce ³⁺ -doped ZnS nanoparticles.	AB493
219	B.Jennifer Joana ^b , A. Mohan ^a , R. Rathes Kannan ^a , D. Alltrin ^b , R . Boopathi ^b , and S. Rajesh ^{b*}	a Thin film laboratory, Department of Physics, Karunya University, Coimbatore – 641114. b Department of nanoscience and technology, Karunya University, Coimbatore – 641114	Synthesis and characterization of CZTS nanoparticles for solar cells absorber material	AB494

220	C. S. Vicasa,b, K. Namrathab, M. B. Nayanc and K. Byrappa*a,b	aDepartment of Materials Science, Mangalore University, Mangalagangothri, Mangalore, India. bCenter for Materials Science and Technology, Vijnana Bhavan, University of Mysore, Mysore, India. cDepartment of studies in Environmental Science, University of Mysore, Mysore, India.	Controlled Hydrothermal Synthesis of Bismuth Vanadate Nano-articulate Structures: Photooxidation of Methicillin Resistant Staphylococcus aureus and Organic Dyes	AB496
221	Akash porwal	Mechanical with specialisation in automotive engineering VIT University , Vellore - 632014 , Tamil Nadu , India	Zinc oxide Nanoparticle cavaties For High Efficiency Of The Automobiles Engines	AB497
222	G.O. Obaiah1, K.H. Shivaprasad*1, K. Srikanth bhat2, M.S.Hegde2 and M.Mylarappa3	1 Dept. of chemistry, Vijayanagara Sri Krishna Devaraya University, Bellary. 2Research centre, Talent development centre, IISC, Kudhapur, Chitradurga, India. 3Research Centre, Department of Chemistry, AMC Engineering College, Bengaluru, (Affiliated to Tumkur University, Tumkur).	Development and Catalytic Application of Palladium Doped Titania (Ti 0.98 Pd 0.02 O2-δ) through low temperature Solution Combustion Method	AB499
223	Deepti Rana1* and Murugan Ramalingam1,2	1 Centre for Stem Cell Research (CSCR), A Unit of the Institute for Stem Cell Biology and Regenerative Medicine- Bengaluru, Christian Medical College Campus, Vellore 632002, India 2WPI-Advanced Institute for Materials Research, Tohoku University, Sendai 980-8577, Japan	High-Throughput Screening of Human Mesenchymal Stem Cells using Gradient Nanofibrous Scaffolds	AB500

224	J. Vidya a and V.Sindhua,*	a Research and Development center, Bharathiar University, Coimbatore , Tamil Nadu. * Central Institute of Plastics Engineering and Technology, Chennai, India.	Polyaniline/polythiophene Nanocomposite for Energy Storage Application	AB501
225	Santosh Aralia, Joseph Tharionb, Bhuvaneshwari Karunakaranc, Rosna Binishc, Mayuri Gandhia, Soumyo Mukherjia,c,*	^a Centre for Research in Nanotechnology and Science, ^b Department of Chemistry, ^c Department of Bioscience and Bioengineering, IIT Bombay, Mumbai – 400 076, Maharashtra, India.	A Facile, Green Synthesis of Carbon Dots (CDOTs) Using Arrowroot Powder for Fluorescent Imaging of Bacteria	AB503
226	Neway Belachew ¹ , Mebrahtu hagos ¹ , D. Rama Devi ² and K. Basavaiah ^{1*}	¹ Department of Inorganic & Analytical Chemistry, Andhra University, Vishakapatnam-530003 ² A.U. College of Pharmaceutical Sciences, Andhra University, Visakhapatnam-530003, India.	Facile green synthesis of Fe ₃ O ₄ @Reduced Graphene Oxide nanocomposites via one pot electrostatic self assembly method for adsorptions of As (V) and RhB from contaminated water	AB504
227	Govindasamy Sathiyam, and Pachagounder Sakthivel	Department of Chemistry, School of Advanced Sciences, VIT University, Vellore - 632 014, Tamil Nadu, India.	Synthesis and studies of 2,7-carbazole based polymers for highly fluorescent organic materials	AB505
228	Sonu kumar ¹ , Kholmurzo T. Kholmurodov ² , Subrata Majumdar ³	¹ International School of Photonics, Cochin University of Science and Technology, Kochi 682022 ² FLNP (Frank Laboratory of Neutron Physics), JINR (Joint Institute of Nuclear Research) Dubna, Russia ³ National Institute of Science and Technology, Patna, Bihar 800005	Molecular Dynamics Simulation of Aluminum metal using DL_POLY	AB506