

**The MRSI National Symposium on "Advances in Functional and Exotic Materials"**

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**29<sup>th</sup> Annual General Meeting (AGM)**

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**Jointly organized by MRSI – Trichy Chapter and Centre for High Pressure Research, School of Physics,  
Bharathidasan University, Tiruchirappalli – 620 024.**

*Date: 14 -16 February 2018*

*Venue: SRM Hotel*

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*Accepted Abstracts for the Poster Presentation*

*Note: (Please use this MRSI Registration No. in the website to pay the Registration and Accommodation fee)*

*(Ex: MRSI – XXX)*

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S. No	Registration No (MRSI – XXX)	Author's Name (From abstract)	Title of the Abstract	E- Mail	Institute Address
1	001	G. Kalai Selvan <sup>1</sup> , M. Kannan <sup>2</sup> , Z. Haque <sup>3</sup> , G. S. Thakur <sup>3</sup> , R. Parthasarthy <sup>3</sup> , L. C Gupta <sup>3</sup> , A. K. Ganguli <sup>3,4</sup> S. Arumugam <sup>2</sup> and Y. K. Vohra <sup>1</sup>	Superconductivity induced by external pressure in $\text{Eu}_{3-x}\text{Sr}_x\text{Bi}_2\text{S}_4\text{F}_4$ (x=1,2) compounds	<a href="mailto:kalai71309@gmail.com">kalai71309@gmail.com</a>	Department of Physics, University of Alabama at Birmingham, Birmingham, Alabama 35294, USA
2	002	<u>T.P. Yadav<sup>1</sup></u> , M.A. Shaz, N.K. Mukhopadhyay <sup>2</sup> , O.N. Srivastava <sup>1</sup> and P.M. Ajayan <sup>3</sup>	Quasi crystal: A remarkable catalyst for hydrogen production and hydrogen storage	<a href="mailto:yadavtp@gmail.com">yadavtp@gmail.com</a>	Hydrogen Energy Centre, Department of Physics, Banaras Hindu University, Varanasi- 221 005, India
3	003	<u>T. M. Amarnath</u> , R. Petchiammal, K. Gurunathan	Facile synthesis of Room temperature LPG sensor based on Nano structured composite of Graphene oxide and $\text{SnO}_2$ anchored with PANI	<a href="mailto:kgnathan27@rediffmail.com">kgnathan27@rediffmail.com</a>	Nano functional Materials lab, Dept. of Nanoscience & Technology, Science Campus, Alagappa University, Karaikudi 630003

4	004	<u>A.J. Heiner, K. Gurunathan</u>	Reducing gas sensing property of polypyrrole/polyaniline conducting polymer blends synthesized by interfacial polymerization	<a href="mailto:kgnathan27@rediffmail.com">kgnathan27@rediffmail.com</a>	Nano functional Materials lab, Dept. of Nanoscience & Technology, Science Campus, Alagappa University, Karaikudi 630003
5	005	<u>B. Srinivasa Rao, K. Umakantham</u>	Fabrication and Studies on Microstructure, XRD and Properties of Nano Copper Alloys	<a href="mailto:uma.knth@gmail.com">uma.knth@gmail.com</a>	Department of Physics, NSRIT, Visakhapatnam, 531173, Andhra Pradesh
6	006	<u>Vijayakumar, R.Renganathan</u>	Photo physical, photodegradation and biological studies of synthesized porphyrins (P1, P2) and metallo porphyrins (Pz1 Pz2)	<a href="mailto:vijaystewan@gmail.com">vijaystewan@gmail.com</a>	School of chemistry, Bharathidasan University, Tiruchirappalli - 620024
7	007	<u>A Nitthin Ananth<sup>a,#</sup>, P Sivaprakash<sup>b,#</sup>, V Nagarajan<sup>c</sup>, Sujin P Jose<sup>a,*</sup>, S Arumugam<sup>b</sup></u>	Solid state synthesis of rare earth orthochromite $\text{La}_{(1-x)}\text{Sm}_x\text{CrO}_3$ nanoperovskite with its dopant concentrations	<a href="mailto:sujamystica@yahoo.com">sujamystica@yahoo.com</a>	Nano Laboratory, School of Physics, Madurai Kamaraj University, Madurai 625 021, Tamil Nadu, India
8	008	<u>Vijendra Lingwal,<sup>1</sup>A S Kandari and<sup>2</sup>N S Panwar</u>	Temperature dependencies of dielectric properties in $\text{Na}_{1-x}\text{K}_x\text{TaO}_3$ system	<a href="mailto:lingwalv@yahoo.co.in">lingwalv@yahoo.co.in</a>	Pt. L.M.S. Govt. PG College Rishikesh,

					Dehradun-249201, Uttarakhand
9	009	<i>K. Suresh and Pola Someshwar</i>	Synthesis of New polycyclic Hetero-Aromatic Hydrocarbons and their photophysical studies	<a href="mailto:somesh.pola@gmail.com">somesh.pola@gmail.com</a>	<i>Department of Chemistry, Nizam College, Osmania University, Hyderabad - 500001</i>
10	010	S. Karthikeyan, M. Selvapandiyan	Synthesis and Characterization of Lanthanum Oxide (La <sub>2</sub> O <sub>3</sub> ) Nanostructures By Using Sol-Gel Method	<a href="mailto:mseelvapandiyan@rediffmail.com">mseelvapandiyan@rediffmail.com</a> <a href="mailto:skarthiphysics@gmail.com">skarthiphysics@gmail.com</a>	Department of Physics, Department of Physics, Periyar University PG Extension Centre Dharmapuri-636701
11	011	<u>Aditi Vijay</u> , Vipul Srivastava, Zakiullah Zaidi, Sonalika Vaidya	Nanostructured metal oxides as efficient photocatalytic material	<a href="mailto:svaidya@inst.ac.in">svaidya@inst.ac.in</a> <a href="mailto:aditi.ph16208@inst.ac.in">aditi.ph16208@inst.ac.in</a>	Institute of Nanoscience and Technology, Habitat Centre, Phase-10, Mohali, India, 160062
12	012	Revati Rani , Niranjan Kumar , S. K. Mishra , I-Nan Lin	Load Dependent Nanoindentation Studies of Ultrananocrystalline Diamond (UNCD) Thin Films	<a href="mailto:niranjan@igcar.gov.in">niranjan@igcar.gov.in</a> <a href="mailto:aggarwalrevati@igcar.gov.in">aggarwalrevati@igcar.gov.in</a>	Materials Science Group, Indira Gandhi Centre for Atomic Research HBNI, Kalpakkam 603102,
13	013	Revati Rani , Niranjan Kumar , S. K. Mishra , I-Nan Lin	Tribological Behavior of Ultrananocrystalline Diamond (UNCD) Thin Films by Varying their Growth Conditions	<a href="mailto:niranjan@igcar.gov.in">niranjan@igcar.gov.in</a> <a href="mailto:aggarwalrevati@igcar.gov.in">aggarwalrevati@igcar.gov.in</a>	Materials Science Group, Indira Gandhi Centre for Atomic Research HBNI, Kalpakkam 603102, Tamil Nadu, India
14	014	<u>Pawan Kumar*</u> and Bipin Kumar Gupta	A new emerging ecofriendly rare earth free 2D luminescent	<a href="mailto:pawankumar.nst@gmail.com">pawankumar.nst@gmail.com</a>	CSIR - National Physical Laboratory,

			nanoprobes for high-contrast <i>in vitro</i> and <i>in vivo</i> imaging applications		Dr K S Krishnan Road, New Delhi, 110012
15	015	B. Sathya, M. Prasath and M. Selvapandiyan	A DFT Study on the Structural and Intermolecular Interaction of Corylin and Daidzein in Neuraminidase receptor	<a href="mailto:sathyacreator@gmail.com">sathyacreator@gmail.com</a>	Department of Physics, Periyar University PG Extension centre, Dharmapuri - 636701
16	016	M. G. Shankar, <sup>1,2,*</sup> Thiyagarajan, <sup>1</sup> Jagadeesan, <sup>2,3</sup> Vijayakumar, <sup>1</sup> N. Giridharan	R. P. R. V. Influence of Structural Transition on Dielectric and PE measurements of La doped Bismuth Titanate Polycrystals	<a href="mailto:shankar.vibration@gmail.com">shankar.vibration@gmail.com</a>	PG and Research Department of Physics, Andavan Arts and Science College (Autonomous), Tiruchirappalli 620005
17	017	T. Dhandayuthapani <sup>1</sup> , Sivakumar <sup>2,a)</sup> , and Ilangovan	R. R. Bifunctional anatase TiO <sub>2</sub> thin films for electrochromic and room temperature gas sensing applications	<a href="mailto:rilangovan@yahoo.com">rilangovan@yahoo.com</a> , <a href="mailto:krsivakumar1979@yahoo.com">krsivakumar1979@yahoo.com</a>	<sup>1</sup> Department of Nanoscience and Technology, Alagappa University, Karaikudi – 630 004, India
18	018	S.Sivasakthi, K.Gurunathan	Facile synthesis of a novel Ternary Hybrid Hetero junction Photocatalyst ( g-C <sub>3</sub> N <sub>4</sub> /CuO-ZnO) for Water splitting Hydrogen production Applications	<a href="mailto:kgnathan27@rediffmail.com">kgnathan27@rediffmail.com</a>	Nano functional Materials lab, Dept.of Nanoscience and Technology, Science Campus, Alagappa University, Karaikudi
19	019	Sharmi Ganguly and Chacko Jacob	CuO nano flowers – Synthesis and gas sensor application	<a href="mailto:cjacob@matsc.iitkgp.ernet.in">cjacob@matsc.iitkgp.ernet.in</a> <a href="mailto:s.gangulyei@gmail.com">s.gangulyei@gmail.com</a>	Materials Science Centre, IIT Kharagpur, Kharagpur-721302

20	020	<u>Raeesh Muhammad, Paritosh Mohanty</u>	High surface area nanoporous cyclophosphazene based inorganic-organic hybrid material with amine functionality for CO <sub>2</sub> capture and H <sub>2</sub> storage applications	<a href="mailto:paritosh75@gmail.com">paritosh75@gmail.com</a> <a href="mailto:raeeshmohammad@gmail.com">raeeshmohammad@gmail.com</a>	Department of Chemistry, Indian Institute of Technology Roorkee
21	021	P. Gaurav , Mohana Marimuthu , K. Balamurugan , V. Ravichandiran , Murugan Veerapandian	Molybdenum Trioxide Surface Functionalized with Ruthenium(II) and Chitosan: Bio-functional Nanosystem	vmurugan@cecri.res.in	Department of Natural Products, National Institute of Pharmaceutical Education and Research, Kolkata 700 032
22	022	<u>L. Jothi</u>	Synthesis, Crystal Growth and Characterization of Cu (II) Doped 4 - bromo - 4' - hydroxybenzylidene aniline Nonlinear Optical Material	<a href="mailto:jothilakshmanan@gmail.com">jothilakshmanan@gmail.com</a>	Department of Physics, Namakkal Kavignar Ramalingam Government Arts College for Women, Namakkal-637001
23	023	<u>V. Kumuda<sup>a</sup></u> and <u>L. Jothi<sup>b</sup></u>	Synthesis, Growth and Characterization of Zinc Doped Nonlinear Optical Material of 4 - methoxy - 4' - dimethylamino benzylidene aniline	<a href="mailto:jothilakshmanan@gmail.com">jothilakshmanan@gmail.com</a>	Block Resource Centre, Paramathy, Namakkal, Tamilnadu
24	024	<u>K . Venkatesan<sup>a</sup></u> and <u>L . Jothi</u>	Growth and Characterization of Non linear Lithium Sulphate Doped 8-	<a href="mailto:jothilakshmanan@gmail.com">jothilakshmanan@gmail.com</a>	Sri Vidya Mandir Arts and Science College, Uthangarai-

			Hydroxyquinoline Single Crystal		636902, Tamilnadu
25	025	<u>R.Sakunthaladevi</u> <sup>a</sup> and L.Jothi	Comparative Study of Nonlinear Optical Properties of Benzylidene Aniline Derivatives	<a href="mailto:jothilakshmanan@gmail.com">jothilakshmanan@gmail.com</a>	Department of Physics, Gandhi College of Arts and Science for Women, Namakkal, Tamilnadu, India
26	026	<u>S.Akilandeswari</u> <sup>a</sup> and L.Jothi	Effect of Perchloric acid on Growth and Physical characteristics of Potassium Dihydrogen Phosphate Nonlinear Optical Crystals	<a href="mailto:jothilakshmanan@gmail.com">jothilakshmanan@gmail.com</a>	Department of Physics, Namakkal Kavignar Ramalingam Government Arts College for Women, Namakkal - 637001, Tamilnadu, India
27	027	<u>R. Vasughi</u> <sup>a</sup> and L. Jothi	Mechanical, Dielectric, Linear and Nonlinear Optical Characterization of Pure and Lanthanum Doped Zinc L-Alanine Tartrate Single Crystals	<a href="mailto:jothilakshmanan@gmail.com">jothilakshmanan@gmail.com</a>	Department of Physics, Namakkal Kavignar Ramalingam Government Arts College for Women, Namakkal - 637001, Tamilnadu, India
28	028	<u>C. Lakshmanan</u> *, R.N. Viswanath, R. Rajaraman, G. Amarendra, C.S. Sundar	Defects in nanoporous Au: insights from variable energy positron Doppler broadening studies	<a href="mailto:cml@igcar.gov.in">cml@igcar.gov.in</a> <a href="mailto:lakshmanan.cc@gmail.com">lakshmanan.cc@gmail.com</a>	Materials Science Group, Indira Gandhi Centre for Atomic Research, Homi Bhabha National Institute, Kalpakkam 603

					102,
29	029	<u>G.V. Geetha<sup>a</sup></u> , R. Sivakumar <sup>a,*</sup> , C. Sanjeeviraja <sup>b</sup>	Synthesis of CdWO <sub>4</sub> nanoparticles by co-precipitation method	<a href="mailto:krsivakumar1979@yahoo.com">krsivakumar1979@yahoo.com</a> <a href="mailto:yoganarasimmar93@gmail.com">yoganarasimmar93@gmail.com</a>	<sup>a</sup> Department of Physics, Alagappa University, Karaikudi 630 003, India
30	030	Sada Krishnakanth*, Baskar Senthilkumar and Prabeer Barpanda	Investigations on Intercalation Mechanism of Potassium Ion in Layered Na <sub>2</sub> Mn <sub>3</sub> O <sub>7</sub>	sada@mrc.iisc.ernet.in	Faraday materials Laboratory, Materials Research Centre, Indian Institute of Science, Bangalore, 560012, India
31	031	<u>RenuRajan<sup>a</sup></u> , Anita S. Ethiraj <sup>b</sup> and R. EzhilVizhi	Investigation on Structural, Optical and Room Temperature Dilute Magnetism in Nanoscale Co and Fe co-doped SnO <sub>2</sub>	<a href="mailto:rezhilvizhi@vit.ac.in">rezhilvizhi@vit.ac.in</a> <a href="mailto:renurajanp@gmail.com">renurajanp@gmail.com</a>	Materials Research Laboratory, Department of Physics, VIT University, Vellore 632014, Tamil Nadu, India
32	032	<u>S. Abhinay</u> , R. Mazumder	Structural, electrical and optical properties of Ba, Ni modified KNbO <sub>3</sub> semiconducting ferro electric ceramics	<a href="mailto:rana_brata@hotmail.com">rana_brata@hotmail.com</a> <a href="mailto:abhinaysrrm94@gmail.com">abhinaysrrm94@gmail.com</a>	Department of Ceramic Engineering, National Institute of Technology, Rourkela, Odisha-769008, India
33	033	<u>R. Thiyagarajan<sup>a,b,*</sup></u> , V. Pazhanivelu <sup>c</sup> , S. Mohanraj	Effect of High Pressure on structural and vibrational stability of Co and Li doped ZnO (Zn <sub>0.90</sub> Co <sub>0.05</sub> Li <sub>0.05</sub> O)	thiyagu0582@yahoo.com	PG and Research Department of Physics, Andavan Arts and Science



			nanoparticles		College (Autonomous), Tiruchirappalli 620005
34	034	<u>Kusumita Kundu</u> <sup>1</sup> , Ashok Ranjan <sup>2</sup> , N. Eshwara. Prasad <sup>2</sup> and Rajat Banerjee	Silicon Carbide(SiC) Thin Film Deposited On Silicon- An Interesting NIR Emission	<a href="mailto:rajatbanerjee@hotmail.com">rajatbanerjee@hotmail.com</a> <a href="mailto:kusumitakunduchem@gmail.com">kusumitakunduchem@gmail.com</a>	CSIR- Central Glass and Ceramic Research Institute, Kolkata-700032, India
35	035	<u>K. Bandyopadhyay</u> <sup>*</sup> , K.S. Ghosh and M.M. Ghosh	Molecular dynamics simulations of nanoindentation to evaluate the mechanical properties of various metallic alloy nanoparticles	<a href="mailto:krishnan.bandyopadhyay@gmail.com">krishnan.bandyopadhyay@gmail.com</a>	<i>Department of Metallurgical and Materials Engineering, National Institute of Technology, Durgapur – 713209, West Bengal</i>
36	036	<u>Ramovatar</u> <sup>1</sup> , Indrani Coondoo <sup>2</sup> , S. Satapathy <sup>3</sup> and Neeraj Panwar <sup>1</sup>	Impact of sintering temperature variation on the structural and electrical properties of praseodymium modified $Ba_{0.85}Ca_{0.15}Zr_{0.1}Ti_{0.90}O_3$ ceramics	<a href="mailto:neerajpanwar@curaj.ac.in">neerajpanwar@curaj.ac.in</a> <a href="mailto:lamoriyaramavtar@gmail.com">lamoriyaramavtar@gmail.com</a>	<sup>1</sup> Department of Physics, Central University of Rajasthan, Bandarsindri, Ajmer-305817, Rajasthan, India
37	037	<u>S. Karthi</u> , E.K. Girija	Preparation and characterization of magnetic nanoparticle encased fluorapatite nanostructure for biomedical applications	<a href="mailto:girijaeaswaradas@gmail.com">girijaeaswaradas@gmail.com</a> <a href="mailto:sskarthi1989@gmail.com">sskarthi1989@gmail.com</a>	Department of Physics, Periyar University, Salem 636 011, Tamil Nadu, India
38	038	<u>Sonal Mittal</u> <sup>1</sup> , Amreen A. Hussain <sup>2</sup> , Amit Kumar	Lead Free Organometal Halide Perovskite for Photovoltaic	<a href="mailto:pms Shirage@iiti.ac.in">pms Shirage@iiti.ac.in</a> <a href="mailto:sonalmittal9460@gmail.com">sonalmittal9460@gmail.com</a>	Discipline of Physics,

		Rana <sup>1</sup> , Parasharam M. Shirage	Applications	<a href="#">m</a>	Indian Institute of Technology Indore, Simrol Campus Khandwa Road, Indore-453552, Madhya Pradesh, India
39	039	<u>S. Anithamani</u> <sup>a</sup> and L. Jothi	X-ray diffraction and Optical studies of ZrO <sub>2</sub> Thin films prepared by Spray Pyrolysis Method	<a href="mailto:jothilakshmanan@gmail.com">jothilakshmanan@gmail.com</a>	Department of Physics, Padmavani Arts and Science College for women, Salem, Tamilnadu, India
40	040	<u>L. Anandaraj</u> <sup>a</sup> and L. Jothi	Effect of NaCl on Structural, Spectroscopic and Optical properties of Methyl Orange Doped Urea L-Malic Acid Crystal	<a href="mailto:jothilakshmanan@gmail.com">jothilakshmanan@gmail.com</a>	Department of Physics, Sacred Heart College (Autonomous), Tirupattur- 635601, Vellore-635601, India
41	041	<u>D. Muthu</u> <sup>a</sup> , and E. K. Girija	Optimization of microwave irradiated synthesis parameters of eggshell derived hydroxyapatite at lab scale	<a href="mailto:ekgirijae@gmail.com">ekgirijae@gmail.com</a> <a href="mailto:muthudphysics@gmail.com">muthudphysics@gmail.com</a>	Department of Physics, Periyar University, Salem 636011, Tamil Nadu, India
42	042	Gopal Kulkarni, Ninad Velhal, Priyanka Kandesar, Vijaya Puri	Structural and microwave absorption properties of chemical vapor deposited MWCNTs in the 8-12 GHz region	<a href="mailto:vrp_phy@unishivaji.ac.in">vrp_phy@unishivaji.ac.in</a> <a href="mailto:gopalkulkarni90@gmail.com">gopalkulkarni90@gmail.com</a> <a href="#">m</a>	<i>Thick and Thin Film Device laboratory, Department of Physics, Shivaji University,</i>

					<i>Kolhapur - 416004, India</i>
43	043	Surabhi Singh, <u>Goutam Thakur</u>	Transport of Indomethacin from carrageenan-gelatin nanogel	<a href="mailto:goutam.thakur@gmail.com">goutam.thakur@gmail.com</a>	Dept. of Biomedical Engineering, Manipal Institute of Technology, Manipal-576104,India
44	044	B. Dalal and <u>S. K. De</u>	Magnetic and transport properties of Gd and Cr co-substituted SrRuO <sub>3</sub>	<a href="mailto:msskd@iacs.res.in">msskd@iacs.res.in</a>	Department of Materials Science, Indian Association for the Cultivation of Science, Jadavpur, Kolkata-700032, India
45	045	<u>K. Karthika,</u> <u>P. Biji</u>	Development of superhydrophobic magnetic nanocellulose sponge for oil/water separation	<a href="mailto:pbm@psgias.ac.in">pbm@psgias.ac.in</a> <a href="mailto:karthikagopal92@gmail.com">karthikagopal92@gmail.com</a>	Nanosensor laboratory, PSG Institute of Advanced Studies, Coimbatore – 641 004 Tamil Nadu
46	046	<u>K.Umamakeshvari,</u> U.Sankar, A.Moses Ezhil Raj and A.C.Kumbharkhane	Microave dielectric relaxation spectroscopy studies on polar – polar binary liquid mixtures of triethylene glycol with ethyl butyrate	<a href="mailto:chitra.uma86@gmail.com">chitra.uma86@gmail.com</a>	Wavoo Wajeaha Women's College of Arts and Science, Kalyalpatnam Tiruchendur-628215
47	047	J . Manimekalai <sup>a</sup> and L. Jothi	Comparative Study of Lithium ion Batteries for Electrical Vehicles system	<a href="mailto:jothilakshmanan@gmail.com">jothilakshmanan@gmail.com</a>	Department of Physics, Namakkal Kavignar Ramalingam

					Government Arts College for Women, Namakkal-637001, Tamilnadu, India
48	048	<u>C. Sudhakar</u> <sup>a</sup> and L. Jothi	Synthesis, Growth and Characterization of Semi Organic Nonlinear Optical Single Crystals of Sodium Dihydrogen Orthophosphate Hippurate	<a href="mailto:jothilakshmanan@gmail.com">jothilakshmanan@gmail.com</a>	Salem Sowdeswari College, Salem – 636 010
49	049	<u>T. Gayathri</u> <sup>a</sup> and L. Jothi	Study of Lead Acid Batteries in Photovoltaic Systems	<a href="mailto:jothilakshmanan@gmail.com">jothilakshmanan@gmail.com</a>	Department of Physics, Namakkal Kavignar Ramalingam Government Arts College for Women, Namakkal-637001, Tamilnadu, India
50	050	<u>S. Nivetha</u> <u>, G. Prabhavathi</u> <u>, K. Kaviyarasu</u> <u>, A. Mohamed Saleem</u> <u>, A. Ayeshamariam</u> <u>M. Jayachandran</u>	Morphological and electrical studies of Graphite nanostructures and its biological applications	aamariam786@gmail.com	Research and Development Center, Bharathidasan University, Thiruchirappalli, 620 024, India
51	051	<i>Anshuman Chauptnaik*, Prabeer Barpanda</i>	Exploring titanium based anode materials for M ion batteries (M = Li/Na)	<a href="mailto:anshuman@mrc.iisc.ernet.in">anshuman@mrc.iisc.ernet.in</a> <a href="mailto:anshuman@mrc.iisc.ernet.in">anshuman@mrc.iisc.ernet.in</a>	<i>Faraday Materials Laboratory, Materials Research Centre, Indian Institute of Science, Bangalore – 560012</i>

52	052	Debdas Roy <sup>ab</sup> , K.Sikdar <sup>a</sup> , Ronald O. Scattergood <sup>b</sup> , Carl C. Koch	Development of an <i>in situ</i> consolidated nanocrystalline Cu <sub>88</sub> Al <sub>11.5</sub> Y <sub>0.5</sub> alloy	droy2k6@gmail.com	<sup>a</sup> Department of Materials and Metallurgical Engineering, NIFFT, Ranchi 834003, India
53	053	<u>S. Biswas, D. C. Joshi, S. Ghosh, S. Thota, P. Mishra</u>	Molecular dynamic simulation studies of thermal diffusion of lithium and lithium based alloys	<a href="mailto:pankaj.mishra@iitg.ernet.in">pankaj.mishra@iitg.ernet.in</a> <a href="mailto:souvick1996@gmail.com">souvick1996@gmail.com</a>	Department of Physics, Indian Institute of Technology, Guwahati-781039, Assam, India
54	054	Amit Kumar Gnagwar <sup>a,b,*</sup> and Bipin KumarGupta	Europium doped YBO <sub>3</sub> luminesc pigment for security ink applicatio	<a href="mailto:amitkumargangwar@gmail.com">amitkumargangwar@gmail.com</a>	<sup>a</sup> Alternative Energy Materials Section, Advanced Materials and Devices Division, CSIR - National Physical Laboratory, Dr K S Krishnan Road, New Delhi, 110012, India
55	055	Varsha D. Phadtare, Gopal K. Kulkarni, <u>Vijaya R. Puri</u>	Microwave Properties of Screen Printed Carbon Nanotubes Thick Film	<a href="mailto:vijayapuril@gmail.com">vijayapuril@gmail.com</a>	Thick and Thin Film Device Laboratory, Department of Physics, Shivaji University, Kolhapur- 416004, Maharashtra, India
56	056	<u>Ritwik Maity</u> <sup>1</sup> , TusharKanti Bhowmik <sup>1</sup> , Alo Dutta <sup>2</sup> , T. P. Sinha <sup>1</sup>	Effect of Mn doping on conductivity and Photocatalytic behavior of	<a href="mailto:maityritwik1992@gmail.com">maityritwik1992@gmail.com</a>	<sup>1</sup> Department of Physics, Bose Institute, 93/1

			SmFeO <sub>3</sub>		Acharya Prafulla Chandra Road, Kolkata 700009, India.
57	057	<u>A.Mohamed Saleem</u> , S. Nivetha <sup>1,3</sup> , K. Kaviyarasu <sup>4,5</sup> , A. Ayeshamariam <sup>1,3*</sup> , N. Punithavelan <sup>6</sup> and M. Jayachandran <sup>7</sup>	Thermal evaporation technique to prepare Zr doped TiO <sub>2</sub> thin film on Si Substrate	<a href="mailto:saleemafq@gmail.com">saleemafq@gmail.com</a>	<sup>2</sup> Department of Physics, Jamal Mohamed College (Auto), Thiruchirappalli – 620 020, India
58	058	<u>Aviraj A. Jatrakar</u> <sup>1</sup> , Rahul B. Patil, R.K. Puri <sup>1</sup> , Vijaya Puri <sup>2</sup> , Jyotiprakash B. Yadav	Plasma polymerized ultra-smooth polypyrrole thin film optical waveguide for integrated optics	<a href="mailto:jbyadavphy@gmail.com">jbyadavphy@gmail.com</a>	<i>Department of USIC, Shivaji University, Kolhapur, Maharashtra, India</i>
59	059	<u>Baskar Senthilkumar</u> ,* C. Murugesan and PrabeerBarpanda	Alkali Iron Phosphates as An Efficient Oxygen Reduction Electrocatalysts	<a href="mailto:senthil@mrc.iisc.ernet.in">senthil@mrc.iisc.ernet.in</a> <a href="mailto:senphysics@gmail.com">senphysics@gmail.com</a>	Faraday Materials Laboratory, Materials Research Centre, Indian Institute of Science, Bangalore, 560012, India
60	060	<i>I. Panneer Muthuselvam<sup>1,2,3*</sup>, R. Sankar<sup>1,3</sup> and F. C. Chou</i>	<i>Magnetic Properties of Pb<sub>6</sub>Co<sub>9</sub>(TeO<sub>6</sub>)<sub>5</sub> single crystal</i>	<a href="mailto:ipmphysics@gmail.com">ipmphysics@gmail.com</a>	Department of Materials Science and Engineering, National Taiwan University, Taipei, Taiwan.
61	061	Rabindranath Juine <sup>1</sup> and <u>A. Das</u>	Nano-molar Ag ion detection using ZnS QDs in the UV-Vis technique without organic mediator	<a href="mailto:dasa@igcar.gov.in">dasa@igcar.gov.in</a> <a href="mailto:adas_69@yahoo.com">adas_69@yahoo.com</a>	<sup>1</sup> Health Physics Unit, Nuclear Recycle Board, Bhabha Atomic Research

					Centre Facilities, HBNI, Kalpakkam 603102, India
62	062	<u>S.R. Cynthia<sup>a</sup>, Sivakumar<sup>b,*</sup>, Sanjeeviraja<sup>a</sup>, Gopalakrishnan<sup>c</sup></u> R. C. C.	Properties of RF magnetron sputtered SnO <sub>2</sub> :CuO (50:50) thin films	<a href="mailto:krsivakumar1979@yahoo.com">krsivakumar1979@yahoo.com</a>  <a href="mailto:srcynthiasam@gmail.com">srcynthiasam@gmail.com</a>	<sup>a</sup> Department of Physics, Alagappa Chettiar College of Engineering and Technology, Karaikudi - 630003, India
63	063	Bharat G. Baraskar, T. C. Darvade, P. S. Kadhane and R. C. Kambale	Ferroelectric and Piezoelectric Properties of (Ba <sub>0.95</sub> Ca <sub>0.05</sub> )(Ti <sub>0.92</sub> Zr <sub>0.04</sub> Sn <sub>0.04</sub> )O <sub>3</sub> Lead-Free Electroceramic	<a href="mailto:rckambale@gmail.com">rckambale@gmail.com</a> <a href="mailto:bharatbaraskar@gmail.com">bharatbaraskar@gmail.com</a>	Department of Physics, Savitribai Phule Pune University Pune-411007, Maharashtra, India
64	064	<u>Pravin S. Kadhane, B. G. Baraskar, T.C Darvade, R. C. Kambale</u>	Dielectric, Ferroelectric, and Piezoelectric Properties	<a href="mailto:rckambale@gmail.com">rckambale@gmail.com</a> <a href="mailto:pravinkadhane89@gmail.com">pravinkadhane89@gmail.com</a>	Department of Physics, Savitribai Phule Pune University, Pune, Maharashtra, 411007, India
65	065	<u>Tulshidas C. Darvade, Bharat G. Baraskar, Pravin S. Kadhane, R. C. Kambale</u>	Magnetostrictive behavior of NiFe <sub>2</sub> O <sub>4</sub> synthesized by modified solution combustion method	<a href="mailto:rckambale@gmail.com">rckambale@gmail.com</a> <a href="mailto:tulshidasdarvade1906@gmail.com">tulshidasdarvade1906@gmail.com</a>	Department of Physics, Savitribai Phule Pune University, Pune, Maharashtra, India-411007
66	066	<u>S. Ponmudi, R. Sivakumar<sup>b,*</sup></u>	Radio Frequency Magnetron Sputtered CuO:Al <sub>2</sub> O <sub>3</sub> Thin Films for Gas	<a href="mailto:krsivakumar1979@yahoo.com">krsivakumar1979@yahoo.com</a> <a href="mailto:ponmudicdm1975@gmail.com">ponmudicdm1975@gmail.com</a>	Department of Physics, Alagappa Chettiar College of

		<u>, C. Sanjeeviraja</u> <u>, C. Gopalakrishnan</u> <u>and K. Jeyadheepan</u>	Sensing Applications	<a href="#">om</a>	Engineering and Technology, Karaikudi - 630003,
67	067	<u>M. K. Pradhan and S. Dash</u>	Tunable Competition and Possible Coexistence of Magneto-Electric Phases in a Charge Ordered Manganite	<a href="mailto:dsuryanarayan@gmail.com">dsuryanarayan@gmail.com</a> <a href="mailto:lilu57pradhan@gmail.com">lilu57pradhan@gmail.com</a>	Department of Physics and Astronomy, National Institute of Technology, Rourkela-769008
68	068	<u>Aditi Sahoo, Dipten</u> <u>Bhattacharya</u>	Nanochain of BiFeO <sub>3</sub> and Bi <sub>2</sub> Fe <sub>4</sub> O <sub>9</sub> Prepared by hydrothermal method and study of their magnetic properties	<a href="mailto:dipten@cgeri.res.in">dipten@cgeri.res.in</a> <a href="mailto:asahoo147@gmail.com">asahoo147@gmail.com</a>	CSIR-Central Glass and Ceramic Research Institute, 196, Raja S.C. Mullick Road, Kolkata- 700032, India
69	069	Rohit Yadav, Mahesh Verma and Parasharam Shirage	Synthesis of Nickel Cobalt MangneseSulphide (NCMS) by electrodeposition for Supercapacitor applications	<a href="mailto:pms Shirage@iiti.ac.in">pms Shirage@iiti.ac.in</a>	Discipline of Physics & Metallurgy Engineering and Materials Science, Indian Institute of Technology Indore-453552. India
70	070	S. Karthikeyan, M.Selvapandiyan	INFLUENCE OF Zn CONCENTRATION ON THE PROPERTIES OF La <sub>2</sub> O <sub>3</sub> NANOSTRUCTURES	<a href="mailto:m selvapandiyan@rediffmail.com">m selvapandiyan@rediffmail.com</a>	Department of Physics, Periyar University PG Extension Centre, Dharmapuri 636701
71	071	U S UdayachandranThampy, <u>A Mahesh</u> , K S Sibi, I N Jawhar, V Biju	ZnO-NiO heterostructure: synthesis, properties and performanceas	<a href="mailto:bijunano@gmail.com">bijunano@gmail.com</a>	Department of Physics, University of Kerala, Kerala,



			photocatalyst for degradation of organic pollutants		India, 695 581
72	072	V Biju*, <u>Pinku Krishnan</u>	Performance of reduced graphene oxide (RGO) as active material for electrochemical supercapacitor applications	<a href="mailto:bjunano@gmail.com">bjunano@gmail.com</a>	Department of Physics, University of Kerala, Kerala, India, 695 581
73	073	<u>Chinnasamy Murugesan*</u> , Baskar Senthilkumar and Prabeer Barpanda	Exploration of K-ion Intercalation in Iron-Based Mixed-Polyanion Material	<a href="mailto:chinnasamy@mrc.iisc.ernet.in">chinnasamy@mrc.iisc.ernet.in</a> <a href="mailto:gyasschinna@gmail.com">gyasschinna@gmail.com</a>	Faraday Materials Laboratory, Materials Research Centre, Indian Institute of Science, Bangalore, 560012, India
74	074	<u>P.Subhashini</u> <sup>1,*</sup> , B.Munirathinam <sup>2</sup> , M.Krishnaiah <sup>1</sup> , R.Venkatesh <sup>3</sup> , D.Venkateswarlu <sup>3</sup> and V.Ganesan	Effect Of Ag And Na On Electrical Properties In LCSMO CMR Manganites	<a href="mailto:subhashinisvu@gmail.com">subhashinisvu@gmail.com</a>	<sup>1</sup> Department of Physics, Sri Venkateswara University, Tirupati-517502, India.
75	075	<u>U. Devarajan</u> <sup>1*</sup> and Sunil Nair	Investigation on Structural, Transport, Magnetic and Magneto caloric properties of Cu substitution in CoMnGe alloys	<a href="mailto:devarajan@iisepune.ac.in">devarajan@iisepune.ac.in</a>	Department of Physics, Indian Institute of Science Education and Research,
76	076	<u>Karan Singh*</u> and <u>K. Mukherjee</u>	Observation of Itinerant antiferromagnetism in Y-substituted CeNiGe <sub>2</sub>	<a href="mailto:karan.singh405ptk@gmail.com">karan.singh405ptk@gmail.com</a>	School of Basic Sciences, Indian Institute of Technology Mandi, Mandi 175005, Himachal Pradesh, India

77	077	<u>Subhra Sourav Jana, Sumit Kumar Choudhary, R. Mazumder</u>	Synthesis, structure and dielectric properties of giant dielectric Ti <sub>1-x</sub> (Al <sub>0.5</sub> Nb <sub>0.5</sub> ) <sub>x</sub> O <sub>2</sub> (x=0.01,0.05,0.1) ceramics	<a href="mailto:rana_brata@hotmail.com">rana_brata@hotmail.com</a> <a href="mailto:subhrasouravjana@gmail.com">subhrasouravjana@gmail.com</a>	Department of Ceramic Engineering, National Institute of Technology, Rourkela, Odisha-769008, India
78	078	<u>K M Archana</u> , <u>Debasmita Dwibedi</u> , <u>James Hester</u> , <u>Diptikanta Swain</u> , <u>Prabeer Barpanda</u> and <u>Nalini G Sundaram</u>	LiCeWO <sub>4</sub> ) 2 Polymorphs: A Novel Anode Material for Lithium-Ion Batteries Crystal Structure Correlation via Neutron Diffraction Study	<a href="mailto:nalini@poornaprajna.org">nalini@poornaprajna.org</a>	Poornaprajna Institute of Scientific Research, Devanahalli-562 164, Bangalore, India
79	079	<u>R. Gupta</u> *, and K.S. Kumar	The high strain rate deformation of a high-strength, high-toughness 10Ni-0.1C steel	<a href="mailto:Ratnesh.gupta@gmail.com">Ratnesh.gupta@gmail.com</a>	NIFFT Ranchi, Brown University
80	080	<u>Nishant N. Patel</u> *, Ashok K. Verma, A. K. Mishra, Meenakshi Sunder and Surinder M. Sharma	K-Br system under pressure: synthesis of unconventional stoichiometric compounds	<a href="mailto:nnpatel@barc.gov.in">nnpatel@barc.gov.in</a>	High Pressure & Synchrotron Radiation Physics Division, Bhabha Atomic Research Centre, Trombay-400 085, INDIA
81	081	<u>D. Sivagami</u> <sup>a</sup> , B. Geetha Priyadarshini <sup>a</sup>	Comparison studies on morphology and optical properties of thin film CdS by chemical bath deposition and spin coating technique	<a href="mailto:bgp@psgias.ac.in">bgp@psgias.ac.in</a>	<sup>a</sup> Department of Physics, Nanotech Research Innovation & Incubation Centre, PSG Institute of Advanced Studies, Peelamedu, Coimbatore, Tamil

					Nadu, India.
82	082	<u>Dinesh Kumar</u> , V. Sudarshan and Akhilesh Kumar Singh	Investigation of structural and magnetic properties of $\text{RBaFeMnO}_6$ (R = Nd, Sm) double perovskites	<a href="mailto:aksingh.mst@iitbhu.ac.in">aksingh.mst@iitbhu.ac.in</a> <a href="mailto:dineshiitbhu@gmail.com">dineshiitbhu@gmail.com</a>	School of Materials Science and Technology, Indian Institute of Technology (BHU), Varanasi-221005, Uttar Pradesh, India
83	083	<u>R.Baskaran*</u> , L.S.Vaidhyanathan E.P.Amaladass, D.K.Baisnab and A.V.Thanikai Arasu	Upper critical field analysis of NbN superconductor	<a href="mailto:baskaran@igcar.gov.in">baskaran@igcar.gov.in</a>	Condensed Matter Physics Division, Materials Science Group Indira Gandhi Centre for Atomic Research, Kalpakkam-603102
84	084	<u>P. Rajesh</u> <sup>1</sup> , S. Sellaiyan <sup>2</sup> , A. Uedono <sup>2</sup> , T. Arun <sup>3</sup> , R. Justin Joseyphus	Defect studies on chemically synthesized FeCo by positron lifetime spectroscopy	<a href="mailto:rjustinj@nitt.edu">rjustinj@nitt.edu</a> <a href="mailto:rasapkumar@gmail.com">rasapkumar@gmail.com</a>	<i>Magnetic Materials Laboratory, Department of Physics, National Institute of Technology, Tiruchirappalli, 620015</i>
85	085	<u>G. R. Suman</u> <u>S. G. Bubbly</u> <u>S. B. Gudennavar</u> <u>E. R. Shilpa</u> <u>V. Gayathri</u>	Synthesis and DFT studies of a novel ESIPT 2-(2'-Hydroxyphenyl)-1Hbenzimidazole derivative	<a href="mailto:bubbly.sg@christuniversity.in">bubbly.sg@christuniversity.in</a> <a href="mailto:grs.suman@gmail.com">grs.suman@gmail.com</a>	Department of Physics and Electronics, Christ University, Bengaluru-560 029, India
86	086	<u>Mohit K. Sharma</u>	Investigation of magnetic	<a href="mailto:monumohit.sharma3@gmail.com">monumohit.sharma3@gmail.com</a>	School of Basic

		<u>K. Mukherjee</u>	properties of a cluster-glass system Dy <sub>5</sub> PdNi	<a href="#">l.com</a>	Sciences, Indian institute of Technology, Mandi, Himachal Pradesh - 175005, India
87	087	<u>Narendra Kumar Verma</u> and Akhilesh Kumar Singh	Synthesis and characterization of high curie temperature piezoelectric ceramics BaTiNb <sub>2</sub> O <sub>8</sub>	<a href="mailto:narendraiitbhu@gmail.com">narendraiitbhu@gmail.com</a> <a href="mailto:aksingh.mst@iitbhu.ac.in">aksingh.mst@iitbhu.ac.in</a>	School of Materials Science and Technology, Indian Institute of Technology (Banaras Hindu University), Varanasi-221005, India
88	088	<u>Suresh Bandi</u> , Vikram Hastak, D.R. Peshwe and Ajeet K. Srivastav	<i>In-situ</i> TiO <sub>2</sub> /rGO Nanocomposites for CO Detection	<a href="mailto:ajeet.srivastav@mme.vnit.ac.in">ajeet.srivastav@mme.vnit.ac.in</a> <a href="mailto:sureshmet@gmail.com">sureshmet@gmail.com</a>	Department of Metallurgical and Materials Engineering, Visvesvaraya National Institute of Technology, Nagpur – 440010.
89	089	<u>J. B. Anooja</u> , G. Subodh	Flexible rGo-CB/Polydimethylsiloxane composites for electromagnetic interface shielding	<a href="mailto:gsubodh@gmail.com">gsubodh@gmail.com</a> <a href="mailto:anooja18@gmail.com">anooja18@gmail.com</a>	Department of Physics, University of Kerala, Thiruvananthapuram 695581, Kerala, India
90	090	<u>Monika Singh</u> , Senu Meena and Akhilesh Kumar Singh	Phase Coexistence and Structure of Coexisting phase in a New Perovskite Solid Solution xBa(Cu <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> –(1-x)PbTiO <sub>3</sub>	<a href="mailto:aksingh.mst@iitbhu.ac.in">aksingh.mst@iitbhu.ac.in</a> <a href="mailto:monikas.rs.mst15@itbhu.ac.in">monikas.rs.mst15@itbhu.ac.in</a>	School of Materials Science and Technology, Indian Institute of Technology (Banaras Hindu University),

					Varanasi-221005, India
91	091	Ch.Sowjanya, S.K.Pratihar	Studies on effect of B-Site substitution on LSCF perovskite ceramics for membrane applications	skpratihar@gmail.com	Department of Ceramic Engineering, National Institute of Technology, Rourkela, Odisha-769008, India
92	092	<u>Partha Sarathi Mondal*</u> , <u>Dipten Bhattacharya</u>	Orbital Order-Disorder Transition in Doped Perovskite Manganites: Influence of Intrinsic Octahedral-Site Distortion	<a href="mailto:psm.nift@gov.in">psm.nift@gov.in</a>	National Institute of Foundry and Forge Technology, Hatia, Ranchi, India
93	093	<u>Soutick Nandi</u> HelgeReinsch SooramBanesh Norbert Stock Vishal Trivedi, <sup>c</sup> ShyamBiswas	An azide-functionalized Al(III)-based metal-organic framework for the fast, selective and highly sensitive detection of exogenous and endogenous H <sub>2</sub> S	<a href="mailto:sbiswas@iitg.ernet.in">sbiswas@iitg.ernet.in</a> <a href="mailto:souticknandi92@gmail.com">souticknandi92@gmail.com</a>	Department of Chemistry, IIT Guwahati, 781039 Assam.
94	094	<u>Rana Dalapati</u> and Shyam Biswas	Post-synthetic modification of a metal-organic framework for dual naked-eye fluorogenic detection in aqueous medium	<a href="mailto:sbiswas@iitg.ernet.in">sbiswas@iitg.ernet.in</a> <a href="mailto:rana.dalapati@iitg.ernet.in">rana.dalapati@iitg.ernet.in</a>	Department of Chemistry, Indian Institute of Technology Guwahati, 781039, Assam.
95	095	<u>Akhilesh Kumar Singh*</u> , Rishikesh Pandey and Ashutosh Upadhyay	Rietveld structural analysis of new Bi-based piezoceramics with morphotropic phase boundary	<a href="mailto:aksingh.mst@iitbhu.ac.in">aksingh.mst@iitbhu.ac.in</a>	School of Materials Science and Technology Indian Institute of Technology (Banaras Hindu University)

					Varanasi, India
96	096	S.Esakki Muthu <sup>1, 2</sup> , S. Arumugam <sup>1</sup> , P. Sivaprakash <sup>1</sup> , M.Manivel raja <sup>3</sup> , N.V. Ramarao <sup>3</sup>	Large negative magnetoresistance and thermal properties of Ni <sub>50-x</sub> Mn <sub>37+x</sub> Sn <sub>13</sub> (x = 0, 1, 2, 3) Heusler alloys	<a href="mailto:sanrajson@yahoo.com">sanrajson@yahoo.com</a>	Centre for High Pressure Research, Bharathidharan University, Trichy, India
97	097	S. Suresh Kumar and S. Athimoolam	STRUCTURAL AND VIBRATIONAL STUDIES ON CO-CRYSTAL: 5-FLUOROURACIL 4-AMINO BENZOIC ACID	<a href="mailto:crystallographer@rediffmail.com">crystallographer@rediffmail.com</a> <a href="mailto:sskphy@gmail.com">sskphy@gmail.com</a>	Department of Physics, University College of Engineering Nagercoil, Anna University, Nagercoil 629004, India
98	098	<i>L. Mary Novena<sup>a</sup>, S. Suresh Kumar<sup>a</sup> and S. Athimoolam</i>	Approach to synthesis and improving the solubility of a bronchodilator drug (Theophylline) by its salts and cocrystals.	<a href="mailto:pinkyjustin4@gmail.com">pinkyjustin4@gmail.com</a> <a href="mailto:crystallographer@rediffmail.com">crystallographer@rediffmail.com</a>	Department of Physics, University College of Engineering Nagercoil, Anna University, Nagercoil 629004, India
99	099	M. Mary Latha, S. Suresh Kumar and S. Athimoolam	Crystal structure investigation on a new zwitterionic cocrystal: Nicotinic p-hydroxyBenzoic acid	<a href="mailto:marylatha@rocketmail.com">marylatha@rocketmail.com</a> <a href="mailto:crystallographer@rediffmail.com">crystallographer@rediffmail.com</a>	Department of Physics, University College of Engineering Nagercoil, Anna University, Nagercoil 629004, India

100	100	<u>Madhusudan Kr. Mahto</u> , Amita Pathak	Synthesis of Biocompatible Mn-doped TiO <sub>2</sub> hollow Nanospheres	<a href="mailto:ami@chem.iitkgp.ernet.in">ami@chem.iitkgp.ernet.in</a> <a href="mailto:mahtomk0@gmail.com">mahtomk0@gmail.com</a>	Department of Chemistry, Indian Institute of Technology Kharagpur – 721302, India
101	101	<u>J. Lahiri</u> <sup>*1</sup> , N. Basu <sup>1</sup> , R. Singh <sup>2</sup> and T. Som <sup>2</sup>	Synthesis of Boron Nitride film on Cu foil using rf sputtering	<a href="mailto:jlsp@uohyd.ac.in">jlsp@uohyd.ac.in</a> <a href="mailto:jayeeta.lahiri@gmail.com">jayeeta.lahiri@gmail.com</a>	<sup>1</sup> School of Physics, University of Hyderabad, Hyderabad 500046
102	102	<u>V. L. Vilesh</u> , <u>G. Subodh</u>	Crystal Structure of B site Ordered ABiLiTeO <sub>6</sub> (A=Ba, Sr) Dielectric Ceramics	<a href="mailto:gsubodh@gmail.com">gsubodh@gmail.com</a> <a href="mailto:vileshv1369@gmail.com">vileshv1369@gmail.com</a>	Department of Physics, University of Kerala, Thiruvananthapuram, Kerala, India
103	103	Sanjib Bhattacharya	Electrical transport properties and applications of some glassy semiconductor	<a href="mailto:sanib_ssp@yahoo.co.in">sanib_ssp@yahoo.co.in</a>	Department of Engineering Sciences and Humanities, Siliguri Institute of Technology, Darjeeling-734009, West Bengal, India
104	104	<u>T. Paul</u> <u>.B.K. Chatterjee</u> <u>.N. Besra</u> <u>K.K. Chattopadhyay</u>	Efficient Green Emission From Ambient Processed All-Inorganic CsPbBr <sub>2</sub> I Perovskite Nanorods	<a href="mailto:iamtufan@gmail.com">iamtufan@gmail.com</a>	School of Materials Science and Nanotechnology, Jadavpur University, Kolkata 700032,

					India.
105	105	<u>E.P Amaladass,<sup>1</sup>Shilpam Sharma<sup>1</sup>, P.Magudapathy<sup>1</sup>, S. Amirthapandian,C. David<sup>1</sup>, T.R.Ravindaran<sup>1</sup>,Awadhesh Mani<sup>1</sup></u>	Tailoring the topological surface states in $\text{Bi}_{1.9}\text{Sb}_{0.1}\text{Se}_3$ by 140 keV proton irradiation	<a href="mailto:edward@igcar.gov.in">edward@igcar.gov.in</a> <a href="mailto:edwardprabu@gmail.com">edwardprabu@gmail.com</a>	<i>Materials Science Group, Indira Gandhi Centre for Atomic Research, HBNI, Kalpakkam-603102, India</i>
106	106	<u>Devavarapu Soumya and Santanu Bhattacharyya</u>	Fabrication of Porous Alumina Using a Natural Foaming Agent	<a href="mailto:santanub@nitrl.ac.in">santanub@nitrl.ac.in</a> <a href="mailto:soumya6791@gmail.com">soumya6791@gmail.com</a>	Department of Ceramic Engineering, National Institute of Technology Rourkela -769008
107	107	<u>Alok Singh Chauhan, Abhoy Kumar, Satyanaraya A.R.Pradyumna</u>	Shaping ceramics cores for Aerospace Application	<a href="mailto:aloksinghchauhan@gmail.com">aloksinghchauhan@gmail.com</a>	SCIENTIST DIE DESIGN GROUP DEFENCE METALLURGICAL RESEARCH LABORATORY DMRL KANCHANBAGH P.O. HYDERABAD 500058
108	108	<u>P.T.G. Gayathri,<sup>a,b</sup>S.Sajitha,<sup>a,b</sup>I.Vijith<sup>a,b</sup>S.S.Shaiju,<sup>a,b</sup> and Biswapriya Deb</u>	Tuning of Physical and Electrochemical Properties of Nanocrystalline Tungsten Oxide through Ultraviolet Photo activation	<a href="mailto:biswapriya.deb@niist.res.in">biswapriya.deb@niist.res.in</a> <a href="mailto:gayathriter@gmail.com">gayathriter@gmail.com</a>	Photosciences and Photonics, Chemical Science and Technology Division, CSIR-National Institute for Interdisciplinary Science and Technology (CSIR-



					NIIST), Thiruvananthapuram- 695019, India;
109	109	<u>Sajitha Surendren<sup>a, b</sup></u> , <u>Biswapriya Deb<sup>a</sup></u>	A Study of the thickness and ageing dependent variation in the electrochromic property of V <sub>2</sub> O <sub>5</sub> xerogel thin films	<a href="mailto:biswapriya.deb@niist.res.in">biswapriya.deb@niist.res.in</a> <a href="mailto:sajithazzz@gmail.com">sajithazzz@gmail.com</a>	Photosciences & Photonics Section, Chemical Science and Technology Division CSIR-NIIST, Trivandrum 695019, India
110	110	<u>G Antilen Jacob, R Justin Joseyphus</u>	Phase transformation in chemically synthesized Ni nanoparticles	<a href="mailto:rjustinj@nitt.edu">rjustinj@nitt.edu</a> <a href="mailto:antilenjacob@gmail.com">antilenjacob@gmail.com</a>	Department of Physics, National Institute of Technology, Tiruchirappalli- 620015
111	111	<u>Navaneethan Duraisamy *, K. Kavitha , Dhanaraj Gopi</u>	Facile synthesis of cobalt phosphate as an electrode material for supercapacitor application	<a href="mailto:naveennanoenergy@gmail.com">naveennanoenergy@gmail.com</a> <a href="mailto:ghanaraj_gopi@yahoo.com">ghanaraj_gopi@yahoo.com</a>	Department of Chemistry, Periyar University, Salem- 636011, Tamilnadu, India
112	112	<u>Paramananda Jena, Dinesh Kumar and Akhilesh Kumar Singh</u>	Synthesis and characterization of Ba <sup>2+</sup> doped NdCoO <sub>3</sub> as potential cathode materials for SOFCs application	<a href="mailto:aksingh.mst@iitbhu.ac.in">aksingh.mst@iitbhu.ac.in</a> <a href="mailto:parama.pondy@gmail.com">parama.pondy@gmail.com</a>	School of Materials Science & Technology, Indian Institute of Technology (Banaras Hindu University ), Varanasi-221005, U.P, INDIA.

113	113	<u>Ajay Singh<sup>1,*</sup>, Vishal Singh<sup>2</sup>, Balwinder Kaur<sup>3</sup>, K.K.Bamzai</u>	Temperature and frequency dependence dielectric and complex impedance studies on composite of lead titanate and strontium hexaferrite (PbTiO <sub>3</sub> – SrFe <sub>12</sub> O <sub>19</sub> )	<a href="mailto:ajay.dadwal1234@gmail.com">ajay.dadwal1234@gmail.com</a>	Department Of Physics, Degree College, Ramban, Jammu (J&K)
114	114	<u>Keerthi G. Nair<sup>1</sup>, R.Vishnuraj<sup>1</sup> and P. Biji</u>	Flexible, Conducting Electrospun Pt Nanoislands@Carbon Nanofibers for Low-Temperature H <sub>2</sub> Gas Sensor Applications	<a href="mailto:bijuja123@yahoo.co.in">bijuja123@yahoo.co.in</a> <a href="mailto:keerthiak89@gmail.com">keerthiak89@gmail.com</a>	<i>Nanosensor Laboratory, PSG institute of Advanced Studies, Coimbatore, Tamil Nadu, India</i>
115	115	<u>Araga Ramya, P.Priya, and Sharma Chandra S</u>	Jamun seed derived activated carbon as an efficient adsorbent for methylene blue removal	<a href="mailto:cssharma@iith.ac.in">cssharma@iith.ac.in</a> <a href="mailto:ch16mtech11013@iith.ac.in">ch16mtech11013@iith.ac.in</a>	Creative & Advanced Research Based On Nanomaterials (CARBON) Laboratory, Department of Chemical Engineering, Indian Institute of Technology Hyderabad, Kandi-502285, Telangana (India).
116	116	<u>Balwinder Kaur<sup>1,*</sup>, Manju Arora<sup>2</sup>, Ajay Singh<sup>3</sup>, Meenakshi Dhiman<sup>4</sup>, R. P. Pant</u>	Synthesis of gadolinium doped nickel zinc ferrite nanoparticles for biosensor application	<a href="mailto:bkaur77@gmail.com">bkaur77@gmail.com</a>	<sup>1</sup> Department of Physics, G.G.M. Sc. College, Jammu (J&K)
117	117	<u>A.Rajesh and G.Mangamma</u>	Morphology and local current	<a href="mailto:gm@igcar.gov.in">gm@igcar.gov.in</a>	Surface and

			mapping of wrinkled reduced graphene oxide	<a href="mailto:kgrajeshnano@gmail.com">kgrajeshnano@gmail.com</a>	Nanoscience Division, Materials Science Group, IGCAR, Homi Bhabha National Institute, Kalpakkam, India
118	118	K.K.Iyer*, Sanjay Kumar Upadhyay, P.L.Paulose, E.V.Samathkumaran	Valence instability in nano-form of $\text{EuPd}_2\text{Si}_2$ compound	<a href="mailto:iyer@tifr.res.in">iyer@tifr.res.in</a>	Tata Institute of Fundamental Research, HomiBhabha Road, Colaba, Mumbai -400005, India
119	119	Sanjay Kumar Upadhyay*, Kartik K Iyer, and E.V. Samathkumaran	Multiferroicity in Haldane chain based polycrystalline $\text{R}_2\text{BaNiO}_5$ (R=Tb, Sm)	<a href="mailto:skuphysics@gmail.com">skuphysics@gmail.com</a>	Tata Institute of Fundamental Research, HomiBhabha Road, Colaba, Mumbai 400005, India
120	120	S. Thanka Rajan <sup>1</sup> , AnushaThampi VV <sup>1</sup> , Takao Hanawa <sup>2</sup> , Peng Chen <sup>2</sup> , B. Subramanian <sup>1</sup>	<i>Inhibition of assimilation of Ti with zirconium based thin films</i>	<a href="mailto:subramanianb3@gmail.com">subramanianb3@gmail.com</a> <a href="mailto:bsmanian@cecri.res.in">bsmanian@cecri.res.in</a> <a href="mailto:strajan84@yahoo.com">strajan84@yahoo.com</a>	CSIR-Central Electrochemical Research Institute, Karaikudi 630 006, India
121	121	R Athira, G Subodh	Influence of Al substitution on the crystal structure and dielectric properties of $\text{Sr}_3\text{YCo}_4\text{O}_{10+\delta}$ double perovskite	<a href="mailto:gsubodh@gmail.com">gsubodh@gmail.com</a> <a href="mailto:rathira12@gmail.com">rathira12@gmail.com</a>	Department of Physics, University of Kerala, Thiruvananthapuram
122	122	V.R. Appu <sup>1</sup> , K.K. Karthikeyan <sup>1</sup> , D. Jayaseelan <sup>1</sup> ,	Unusual electrical Behaviour of Carbon doped ZnO	<a href="mailto:bijuja123@yahoo.co.in">bijuja123@yahoo.co.in</a> <a href="mailto:appuvr@gmail.com">appuvr@gmail.com</a>	Nanosensor Laboratory, PSG

		P. Biji	Nanorods by Surface Layered Formic Acid during Oxygen Adsorption		<i>institute of Advanced Studies, Coimbatore, Tamil Nadu, India</i>
123	123	<u>V Biju</u> <u>, Pinku Krishnan</u>	RGO as active material for electrochemical applications	<a href="mailto:bijunano@gmail.com">bijunano@gmail.com</a> <a href="mailto:pinkukrishnan@gmail.com">pinkukrishnan@gmail.com</a>	Department of Physics, University of Kerala, Kerala, India, 695 581
124	124	Ninad B. Velhal, Gopal K. Kulkarni, Vijaya R. Puri	Facile Synthesis and Microwave Absorption Properties of Polypyrrole/Ba <sub>0.6</sub> Sr <sub>0.4</sub> Fe <sub>12</sub> O <sub>19</sub> Composite in the 8-18 GHz region	<a href="mailto:vijayapuril@gmail.com">vijayapuril@gmail.com</a>	Thick and Thin Film Device laboratory, Department of Physics, Shivaji University, Kolhapur - 416004, India
125	125	<u>Maity Ritwik</u> <u>, Rudra Moumin</u> <u>, Dutta Alo</u> <u>, Sinha T.P</u>	Photocatalytic and ac conductivity study of Mn doped SmFeO <sub>3</sub>	<a href="mailto:alo_dutta@yahoo.com">alo_dutta@yahoo.com</a>	Department of Physics, Bose Institute, 93/1 Acharya Prafulla Chandra Road, Kolkata 700009, India.
126	126	<u>N. Sibi, G. Subodh</u>	Cold Sintering: A Novel Strategy for Densifying Minerals	<a href="mailto:gsubodh@gmail.com">gsubodh@gmail.com</a> <a href="mailto:sibi.nsubair@gmail.com">sibi.nsubair@gmail.com</a>	Department of Physics, University of Kerala, Thiruvananthapuram-695 581, India
127	127	<u>Priyanka Kandesar, Gopal Kulkarni, Ninad Velhal, Vijaya Puri</u>	Structural and microwave characterization of Li <sub>0.5</sub> Bi <sub>0.5</sub> MoO <sub>4</sub> in 12-18 GHz region prepared by solid state reaction method	<a href="mailto:vijayapuril@gmail.com">vijayapuril@gmail.com</a>	<i>Thick and Thin Film Device laboratory, Department of Physics,</i>

					Shivaji University, Kolhapur - 416004, India
128	128	R.Ragavendiran, M.Selvapandiyan	SYNTHESIS GROWTH STRUCTURAL SPECTROSCOPIC AND OPTICAL PROPERTIES OF L-LYSINE SODIUM CHLORIDE NON LINEAR OPTICAL CRYSTALS	<a href="mailto:m Selvapandiyan@rediffmail.com">m Selvapandiyan@rediffmail.com</a>	Department of Physics, Periyar University PG Extension Centre, Dharmapuri 636701
129	129	S.Janarthanan, M.Selvapandiyan	GROWTH, SPECTROSCOPIC AND OPTICAL STUDIES OF A NEW SEMIORGANIC NONLINEAR OPTICAL CRYSTAL: L-VALINE MAGNESIUM NITRATE	<a href="mailto:m Selvapandiyan@rediffmail.com">m Selvapandiyan@rediffmail.com</a>	Department of Physics, Periyar University PG Extension Centre, Dharmapuri 636701
130	130	S. Shanavas <sup>a</sup> , A. Priyadharsan <sup>a</sup> and P. M. Anbarasan <sup>a</sup>	An Investigation on Photocatalytic and Antibacterial Performance of GO Based Ternary Nanocomposite under Visible Light Irradiation	<a href="mailto:anbarasanpm@gmail.com">anbarasanpm@gmail.com</a>	Department of Physics, Periyar University, Salem- 636 011, Tamil Nadu, India.
131	131	K. Shanmugapriya <sup>a</sup> , D. Mohan Radheep <sup>b,c</sup> , Balan Palanivel <sup>a</sup> and Ramaswamy Murugan <sup>c</sup>	Influence of Ca, Mn substitution on thermoelectric properties of SrTiO <sub>3</sub>	<a href="mailto:d.mohanradheep@gmail.com">d.mohanradheep@gmail.com</a>	<sup>a</sup> Department of Physics, Pondicherry Engineering College, Puducherry – 605014
132	132	Sinha T. P. <sup>*1</sup> , Dutta Alo <sup>2</sup> , Sheikh M. S	Magnetic and Optical properties of mixed oxide	<a href="mailto:sinha_tp@yahoo.com">sinha_tp@yahoo.com</a> <a href="mailto:sinha_tp@yahoo.com">sinha_tp@yahoo.com</a>	Department of Physics, Bose

			(KNbO <sub>3</sub> ) <sub>1-x</sub> +(La <sub>2</sub> NiMnO <sub>6</sub> ) <sub>x</sub> for photovoltaic application		Institute, 93/1 Acharya Prafulla Chandra Road, Kolkata 700009, India.
133	133	Sushant Gupta <sup>1</sup> , V. Ganesan <sup>2</sup> , N. P. Lalla <sup>2</sup> , Indra Sulania <sup>3</sup> and <u>B. Das<sup>1</sup></u>	Room temperature ferromagnetism in transparent and conducting Mn-doped SnO <sub>2</sub> thin films	<a href="mailto:bdas226010@gmail.com">bdas226010@gmail.com</a>	Department of Physics, University of Lucknow, Lucknow-226007, India
134	134	R.R. Awasthi <sup>a</sup> , V. Ganesan <sup>b</sup> , N.P. Lalla <sup>b</sup> and <u>B. Das</u>	Structural/microstructural, magnetic and optical studies on Mn-doped BiFeO <sub>3</sub> thin films	<a href="mailto:bdas226010@gmail.com">bdas226010@gmail.com</a>	Department of Physics University of Lucknow, Lucknow, 226007, India
135	135	K.M. Hijas, <u>C. Yogeswari</u> , E.Shama Pearlina. R. Nagalakshmi	Harmonic Generation from Vanillylideneaniline: An Organic Non Linear Optical Material	<a href="mailto:nagaphys@yahoo.com">nagaphys@yahoo.com</a> , <a href="mailto:nagalakshmi@nitt.edu">nagalakshmi@nitt.edu</a>	NIT, Trichy - 15
136	136	<u>V.Parthibaraj, K.S. Pugazhvadivu, C. Rangasami and K. Tamilarasan</u>	Synthesis of Cu <sub>2</sub> znsns 4 thin film by RF-magnetron sputtering for solar cell applications	<a href="mailto:dr.k.tamilarasan@gmail.com">dr.k.tamilarasan@gmail.com</a> <a href="mailto:parthiphysics@gmail.com">parthiphysics@gmail.com</a>	Department of physics, Kongu Engineering College, Perundurai – 638060, Erode, Tamil nadu, India
137	137	<u>K.S. Abisegapriyan, B. Subramanian</u>	Fabrication of Mg-Zn-Ca metallic glass thinfilms by Ion assisted pulsed magnetron sputtering for Biodegradable implants	<a href="mailto:abipriyan3@gmail.com">abipriyan3@gmail.com</a>	CSIR - Central Electrochemical Research Institute, Karaikudi, Tamilnadu

138	138	<u>Nilotpal Singha</u> , Purnima Gupta, Bapan Pramanik, Sahnawaz Ahmed, Antara Dasgupta, Anindita Ukil, *Deba pratim Das	Stepwise hydrogelation of a naphthalene diimide appended peptide amphiphile and its application in cell-imaging and intracellular pH sensing	ddas@iitg.ernet.in <a href="mailto:s.nilotpal@iitg.ernet.in">s.nilotpal@iitg.ernet.in</a>	Department of Chemistry, Indian Institute of Technology Guwahati, Assam 781039, India
139	139	<u>Bapan Pramanik</u> , Sahnawaz Ahmed, Basab Kanti Das, Nilotpal Singha and *Deba pratim Das	A DNA-NDI hybrid to efficiently detect histone in parts per trillion (ppt) level	ddas@iitg.ernet.in <a href="mailto:bapan@iitg.ernet.in">bapan@iitg.ernet.in</a>	Department of Chemistry, Indian Institute of Technology Guwahati, Assam 781039, India
140	140	S.Uday Bhasker* <sup>1</sup> , Y.Veerawamy <sup>2</sup> , B.Rakesh Goud <sup>1</sup> , M V Ramana Reddy <sup>2</sup>	Effect of Nickel Substitution on Ammonia Gas Sensing property of Cobalt nano ferrite powders	<a href="mailto:sontuudaybhasker@gmail.com">sontuudaybhasker@gmail.com</a> <a href="mailto:sontuudaybhasker@gmail.com">sontuudaybhasker@gmail.com</a>	BS department, G.Narayanamma institute of technology and science, Hyderabad, TS, India
141	141	<u>S. Thangamani</u> <sup>a*</sup> , Kallol Mohanta <sup>a</sup> and Rama Ranjan Bhattacharjee <sup>b</sup>	Effect of co-polymer on catalytic properties of POMs using one-pot synthesis of Biginelli reaction	<a href="mailto:thangamani37chem@gmail.com">thangamani37chem@gmail.com</a>	PSG Institute of Advanced Studies, Coimbatore, Tamil nadu 641 004, India
142	142	<u>Antarjami Sahoo</u> <sup>*1</sup> , Prahallad Padhan <sup>1</sup> , and Wilfird Prellier	Structural reconstruction and dual exchange bias in SrRuO <sub>3</sub> /PrMnO <sub>3</sub> superlattice	<a href="mailto:lipunantarjami91@gmail.com">lipunantarjami91@gmail.com</a> <a href="mailto:lipunantarjami91@gmail.com">lipunantarjami91@gmail.com</a>	Department of Physics, Indian Institute of Technology Madras, Chennai – 600036, India
143	143	<u>Asit Baran Panda</u> , * Arka Saha, <u>Aniruddha Mondal</u>	Synthesis of porous hollow spheres using aqueous metal	<a href="mailto:abpanda@csmcri.res.in">abpanda@csmcri.res.in</a>	Central Salt and Marine Chemicals

			ammonium carbonate complex solution as novel precursor for energy storage application		Research Institute (CSIR-CSMCRI), CSMCRI-Academy of Scientific and Innovative Research, G. B. Marg, Bhavnagar-364002, Gujarat, India
144	144	<u>Ankit Dwivedi</u> , <u>Akansha Dwivedi</u> *, <u>Akhilesh Kumar Singh</u>	Cold sintered PVDF polymer – Ba <sub>1-x</sub> Sr <sub>x</sub> TiO <sub>3</sub> based ceramic nanocomposites for high energy storage application	<a href="mailto:akanshadwivedi.cer@itbhu.ac.in">akanshadwivedi.cer@itbhu.ac.in</a>	School of Materials Science and Technology, Indian Institute of Technology (BHU)
145	145	<u>Sheela. D*</u> , <u>Basanta Roul</u> , <u>K.K. Nanda</u> and <u>S. B. Krupanidhi</u>	Deposition of Vanadium Oxide (VO <sub>x</sub> ) Thin Films by DC and RF Magnetron Sputtering	<a href="mailto:sheelad@bel.co.in">sheelad@bel.co.in</a>	CRL-BEL, BANGALORE, 560013
146	146	<u>Neeli Chandran<sup>a</sup></u> , <u>B. Manikanta<sup>a</sup></u> , <u>P.G.Prabhash<sup>a</sup></u> , <u>Suvarna Krishnan<sup>a</sup></u> , <u>Swapna S Nair<sup>*a</sup></u> , <u>Rajendra P</u>	Highly Sensitive Urea Sensor Based on Citric acid Capped plasmonic Copper quantum dots	<a href="mailto:swapna.s.nair@gmail.com">swapna.s.nair@gmail.com</a> <a href="mailto:praj74@gmail.com">praj74@gmail.com</a>	Department of Physics, Central University of Kerala, Kasaragod, Kerala 671314
147	147	<u>R. Vishnuraj<sup>1</sup></u> , <u>Keerthi G Nair<sup>1</sup></u> and <u>P. Biji</u>	High Performance Au-decorated ZnO 2D-Nanosheets for NO <sub>2</sub> Gas Sensing Applications	<a href="mailto:rvj@psgias.ac.in">rvj@psgias.ac.in</a> <a href="mailto:bijuja123@yahoo.co.in">bijuja123@yahoo.co.in</a>	<i>Nanosensor Laboratory, PSG institute of Advanced Studies, Coimbatore, Tamil Nadu, India</i>
148	148	<u>S. Chaudhary</u> , <u>P. Srivastava</u> and <u>S. Patnaik*</u>	Magnetoelectric coupling in antiferromagnet Co <sub>4</sub> Ta <sub>2</sub> O <sub>9</sub>	<a href="mailto:spatnaikjnu@gmail.com">spatnaikjnu@gmail.com</a> <a href="mailto:chshivani10@gmail.com">chshivani10@gmail.com</a>	School of Physical Sciences, Jawaharlal Nehru University,



					New Delhi-110067, India
149	149	<u>Chandni Devi</u> , Sandeep Kumar	Effect of reaction time on the synthesis of InAs nanowire via solvothermal route	<a href="mailto:sandeep.kumar@curaj.ac.in">sandeep.kumar@curaj.ac.in</a> <a href="mailto:bhattchandni84@gmail.com">bhattchandni84@gmail.com</a>	Central University of Rajasthan, NH-8 Bandarsindri, Dist. Ajmer-305817
150	150	<u>B. Manikanta<sup>a</sup></u> , <u>Neeli Chandran<sup>a</sup></u> , <u>J. Prajit<sup>b</sup></u> , <u>Swapna S. Nair<sup>*a</sup></u> , Rajendra P	ZnS based Core shell Quantum Dots for next generation Bio-imaging	<a href="mailto:swapna.s.nair@gmail.com">swapna.s.nair@gmail.com</a> <a href="mailto:praj74@gmail.com">praj74@gmail.com</a> <a href="mailto:manipandibayal@gmail.com">manipandibayal@gmail.com</a>	Department of Physics, Central University of Kerala, Kasaragod, Kerala 671314
151	151	<u>P. Esther Rubavathi</u> , <u>L.Venkidu</u> and <u>B.Sundarakannan</u>	Influence of oxygen vacancies on structural and electrical properties ferromagnetism imposed ferroelectric material	<a href="mailto:sundarakannan@msuniv.ac.in">sundarakannan@msuniv.ac.in</a>	Department of Physics, Manonmaniam Sundaranar University, Tirunelveli-627 012, Tamil Nadu
152	152	<u>G.Selvan<sup>1</sup></u> and <u>N.Manjula<sup>2</sup></u>	Properties of TiO <sub>2</sub> doped SnO <sub>2</sub> thin films deposited using jet nebulizer spray pyrolysis technique for sensor analysis	<a href="mailto:selvan96@rediffmail.com">selvan96@rediffmail.com</a> <a href="mailto:physicsaspirant28@gmail.com">physicsaspirant28@gmail.com</a>	<sup>1</sup> PG & Research Department of Physics, Thanthai Hans Roever College, Perambalur
153	153	<u>L.Venkidu<sup>a</sup></u> , <u>M.Veera Gajendra Babu<sup>a</sup></u> , <u>P.EstherRubavathi<sup>a</sup></u> and <u>B.Sundarakannan<sup>a</sup></u>	Magnetoresistance Properties of BaTi <sub>1-x-y</sub> Fe <sub>x</sub> Nb <sub>y</sub> O <sub>3</sub> Ceramics	<a href="mailto:sundarakannan@msuniv.ac.in">sundarakannan@msuniv.ac.in</a>	Department of Physics, Manonmaniam Sundaranar University, Tirunelveli 627012, India

154	154	<u>V. Argish<sup>1</sup></u> , Subasa C. Sahoo <sup>1</sup>	Synthesis and Magnetic Properties of Magnesium Ferrite Nanoparticles	<a href="mailto:subasa.cs@gmail.com">subasa.cs@gmail.com</a> <a href="mailto:argishvenup@gmail.com">argishvenup@gmail.com</a>	Department of Physics, Central University of Kerala, Riverside Transit Campus, Kasaragod, Kerala - 671314, India
155	155	<u>Srabanti Ghosh</u> , Susmita Bera and Rajendra N. Basu	Highly active multimetallic nano alloys embedded in conducting polymer: Implementation in fuel cells and photocatalysis	<a href="mailto:ghosh.srabanti@gmail.com">ghosh.srabanti@gmail.com</a>	CSIR-Central Glass and Ceramic Research Institute 196, Raja S.C. Mullick Road, Kolkata- 700032, INDIA
156	156	Lagen Kumar Pradhan and Manoranjan Kar	Lattice strain induced structural phase evolution in BNT-BNZ solid solution	<a href="mailto:mano@iitp.ac.in">mano@iitp.ac.in</a>	Indian Institute of Technology Patna, Bihta, Patna-801103, India
157	157	<u>Suresh Kumar</u> , <u>Samiyara Begum</u> , <u>Hemant Kumar Srivastava</u> * and Chivukula V. Sastr	Guest Molecules in the Cages of Clathrate Hydrates: A Theoretical Study to Evaluate the Storage Capacity	<a href="mailto:hemants@iitg.ernet.in">hemants@iitg.ernet.in</a> <a href="mailto:sureshkr@iitg.ernet.in">sureshkr@iitg.ernet.in</a> <a href="mailto:sastricv@iitg.ernet.in">sastricv@iitg.ernet.in</a>	Department of Chemistry, Indian Institute of Technology Guwahati, Guwahati 781039, Assam, India,
158	158	Chanchal Ghosh <sup>*</sup> , Arup Dasgupta, Pragna Bhaskar <sup>#</sup> , R. Mythili and S. Raju	Quantitative HRTEM Analysis of Strain Assessment along the Defect Cores in Cryo-rolled CP Ti	<a href="mailto:chanchal@igcar.gov.in">chanchal@igcar.gov.in</a> <a href="mailto:chanchal@igcar.gov.in">chanchal@igcar.gov.in</a>	Metallurgy Division, Metallurgy and Materials Group, Indira Gandhi Centre

					for Atomic Research, Kalpakkam – 603102, Tamil Nadu, India
159	159	<u>P.R Reshma, Arun K Prasad, Arindam Das, G.Mangamma, S.Dhara</u>	Synthesis and Characterization of Vanadium Pentoxide for methane gas sensing	<a href="mailto:akp@igcar.gov.in">akp@igcar.gov.in</a> <a href="mailto:reshmapr@igcar.gov.in">reshmapr@igcar.gov.in</a>	Surface and Nanoscience Division, Materials Science Group, Indira Gandhi Centre for Atomic Research, Homi Bhabha National Institute, kalpakkam
160	160	<u>P. Chithralekha, R. Karthick, K.Gangadevi, K.Ramachandren and R. Srinivasan</u>	Ultrasonic velocity studies on Ni <sub>x</sub> Co <sub>1-x</sub> Fe <sub>2</sub> O <sub>4</sub> nanoferrofluid prepared by coprecipitation method	<a href="mailto:r_srini2067@yahoo.co.in">r_srini2067@yahoo.co.in</a> <a href="mailto:p_lekha@yahoo.co.in">p_lekha@yahoo.co.in</a>	Department of Physics, G.Venkataswamy Naidu College, Kovilpatti- 628502
161	161	<u>K.Renukadevi, K. Gangadevi, K.Ramachandren and R. Srinivasan</u>	Synthesis and characterization of Dye sensitized solar cells using natural dye extracted from blue pea flowers	<a href="mailto:r_srini2067@yahoo.co.in">r_srini2067@yahoo.co.in</a> <a href="mailto:renu_kritto@yahoo.co.in">renu_kritto@yahoo.co.in</a>	Department of Physics, G.Venkataswamy Naidu College, Kovilpatti - 628502
162	162	<u>K.Gangadevi, K.Ramachandren and R. Srinivasan</u>	A study on the effect of dye sensitizers on nanostructured GaAs/PS based DSSCs	<a href="mailto:r_srini2067@yahoo.co.in">r_srini2067@yahoo.co.in</a> <a href="mailto:kdevi.ganga@gmail.com">kdevi.ganga@gmail.com</a>	Department of Physics, G.Venkataswamy Naidu College, Kovilpatti - 628502
163	163	<u>R. Karthick, P. Chithralekha, K.Gangadevi, K.Ramachandren</u>	A Study on the Effect of pH Values on Magneto-Optic Properties of Fe <sub>3</sub> O <sub>4</sub> Nanoferrofluids	<a href="mailto:karthickr4584@gmail.com">karthickr4584@gmail.com</a> <a href="mailto:r_srini2067@yahoo.co.in">r_srini2067@yahoo.co.in</a>	Government Higher Secondary School, Haridwaramangalam, Thiruvarur - 612802,

		<u>and R. Srinivasan</u>			India.
164	164	<u>Shammi Rana,</u> <sup>†</sup> Anupam Praseon, <sup>†</sup> Plawan Kumar Jha, <sup>†</sup> Anil Prathamshetti, <sup>‡</sup> and Nirmalya Ballav	Thermally driven resistive switching in solution-processable thin films of coordination polymers	<a href="mailto:nballav@iiserpune.ac.in">nballav@iiserpune.ac.in</a> <a href="mailto:shammi.rana@students.iiserpune.ac.in">shammi.rana@students.iiserpune.ac.in</a>	Department of Chemistry, Indian Institute of Science Education and Research (IISER), Dr. Homi Bhabha Road, Pashan, Pune 411 008, India
165	165	Barun Dhara, <u>Vikash Kumar,</u> Kriti Gupta, Plawan Kumar Jha, and Nirmalya Ballav	Modulation of Electrical Conductivity in Coordination Polymers by Heterometallic Design	<a href="mailto:nballav@iiserpune.ac.in">nballav@iiserpune.ac.in</a> <a href="mailto:vikash.kumar@students.iiserpune.ac.in">vikash.kumar@students.iiserpune.ac.in</a>	Department of Chemistry, Indian Institute of Science Education and Research (IISER), Pune 411008, India
166	166	<u>Bishnu Pada Majee*, Rajiv Prakash and Ashish Kumar Mishra</u>	Control synthesis of iron nanoparticle and iron/graphene nanocomposites	<a href="mailto:bishnupm.rs.mst16@itbhu.ac.in">bishnupm.rs.mst16@itbhu.ac.in</a>	School of Materials Science and Technology, IIT (BHU), Varanasi, UP-221005, INDIA
167	167	S.S.Shaiju, <sup>a,b</sup> and Biswapriya Deb	VO <sub>2</sub> based Thermochromic Coatings for Smart window Application	<a href="mailto:biswapriya.deb@niist.res.in">biswapriya.deb@niist.res.in</a>	Photosciences and Photonics, Chemical Science and Technology Division, CSIR-National Institute for Interdisciplinary Science and Technology Thiruvananthapuram-695019
168	168	<u>Pragyanand Prajapati</u> and Akhilesh Kumar Singh	Structural and optical band gap analysis of Mo-modified	<a href="mailto:aksingh_mst@itbhu.ac.in">aksingh_mst@itbhu.ac.in</a>	School of Materials Science and

			PbTiO <sub>3</sub> ceramics	<a href="mailto:pragyanandp.rs.mst16@itbh.ac.in">pragyanandp.rs.mst16@itbh.ac.in</a>	Technology Indian Institute of Technology(Banaras Hindu University) Varanasi 221005 Utter Pradesh,India.
169	169	J Prem Kumar , V R Rajeev and K K Krishnakumar	Processing and characterisation of Functionally Graded A356-10wt.%SiCp Composite	<a href="mailto:prem24970@yahoo.in">prem24970@yahoo.in</a>	Department of Mechanical Engineering, College of Engineering Trivandrum, Kerala, India
170	170	Shubhra Dash , Divya Srivastava Girish Chandra Tewari, M. Vasundhara , Ajit Kumar Patra	Magnetic Properties of MnAl Alloy with a $\beta$ -phase	<a href="mailto:a.patra@curaj.ac.in">a.patra@curaj.ac.in</a> <a href="mailto:shubhradash28@gmail.com">shubhradash28@gmail.com</a>	Central University of Rajasthan, NH-8, Bandrasindri-305817, Rajasthan, India
171	171	E Nagaraja, A S Jagadisha, and H S Jayanna	Effect of gamma irradiation on structural properties of CrFe <sub>2</sub> O <sub>4</sub> ferrite	<a href="mailto:jayanna60@gmail.com">jayanna60@gmail.com</a> <a href="mailto:enagsagar@gmail.com">enagsagar@gmail.com</a>	Department of Physics, Kuvempu University, Shankaraghatta, Karnataka, India-577 451
172	172	M. Manivel Raja* <sup>1</sup> , M. Ramudu <sup>1, 2</sup> and H. Basumatary <sup>1</sup>	Microstructural and magnetic investigations in Co <sub>2</sub> FeGa thin films for spintronics applications	<a href="mailto:mraja@dmrl.drdo.in">mraja@dmrl.drdo.in</a>	<sup>1</sup> Defence Metallurgical Research Laboratory, Hyderabad-500058, India
173	173	G.Selvan <sup>1</sup> andN.Manjula	Optimization of the synthesis	<a href="mailto:selvan96@rediffmail.com">selvan96@rediffmail.com</a>	<sup>1</sup> PG &Research

			and characterizations of chemical bath deposited Cu Doped ZnS thin films		Department of Physics, Thanthai Hans Roever College, Perambalur
174	174	<u>Subrata Mandal</u> and Rajakumar Ananthakrishnan	Controlled Synthesis of Hierarchical Porous Ag <sub>3</sub> PO <sub>4</sub> Microspheres through Natural Template for Photocatalytic Applications	<a href="mailto:raja.iitchem@yahoo.com">raja.iitchem@yahoo.com</a>	Department of Chemistry, Environmental Materials & Analytical Chemistry Laboratory, Indian Institute of Technology, Kharagpur, 721302, India
175	175	<u>D. Durgalakshmi</u> *, P. Aruna, and S. Ganesan	A comparative study on in-vitro bioactivity of nano-Bioglass synthesized using rice husk and TEOS silica sources	<a href="mailto:durgaklakshmi@gmail.com">durgaklakshmi@gmail.com</a>	Department of Medical Physics, Anna University, Chennai – 600 025
176	176	<u>K.S. Pugazhvidivu</u> * and K. Tamilarasan	Influence of H <sup>+</sup> ions and $\gamma$ -ray irradiation on multiferroic Bi <sub>0.8</sub> Ca <sub>0.2</sub> MnO <sub>3</sub> thin films	<a href="mailto:pugazhphysics@gmail.com">pugazhphysics@gmail.com</a> <a href="mailto:pugazhphysics@gmail.com">pugazhphysics@gmail.com</a>	Department of Physics, Kongu Engineering College, Perundurai – 638 060, Tamilnadu, India
177	177	Shalini Govindaraj M, Subha A, Arigsh.V, Subasa C. Sahoo*	Magnetic properties of aluminum doped Barium Hexagonal Ferrite	<a href="mailto:subasa@cukerala.ac.in">subasa@cukerala.ac.in</a> <a href="mailto:shal.govindaraj341143@gmail.com">shal.govindaraj341143@gmail.com</a>	Department of Physics, Central University of Kerala, Kasargod - 671314, Kerala
178	178	<u>R. Aarthi</u> , P. Umarani, C.	Structural and spectral studies	<a href="mailto:rraja@rediffmail.com">rraja@rediffmail.com</a>	Government Arts

		Ramachandra Raja	of 4-methylbenzylammonium nitrate crystal	<a href="mailto:errajaphy@gmail.com">errajaphy@gmail.com</a>	College (Autonomous), Kumbakonam - 612002, Tamilnadu, India
179	179	Girija Shankar Papanai , Sudhir Husale , Anurag Singh , Anurag Gupta , V N Ojha , and R P Aloysius	Superconducting properties of tungsten meander structures fabricated by focused ion beam technique	<a href="mailto:alosp@nplindia.org">alosp@nplindia.org</a> <a href="mailto:girijashankar311@gmail.com">girijashankar311@gmail.com</a>	CSIR-National Physical Laboratory, New Delhi-110012, India
180	180	<u>P. Umarani</u> , R. Aarthi and C. Ramachandra Raja	Structural, linear and nonlinear optical studies of 4-methoxybenzylammonium tetrachloridozincate crystal	<a href="mailto:erraja@rediffmail.com">erraja@rediffmail.com</a> <a href="mailto:errajaphy@gmail.com">errajaphy@gmail.com</a>	Government Arts College (Autonomous), Kumbakonam - 612002, Tamilnadu, India
181	181	<u>Santu Nandi</u> <sup>1</sup> , Midathala Yogesh <sup>1</sup> , Pulikanti Guruprasad Reddy <sup>1</sup> , Satinder K. Sharma <sup>2</sup> , Chullikkattil P. Pradeep <sup>1</sup> , Subrata Ghosh <sup>1*</sup> and Kenneth E. Gonsalves <sup>1</sup>	Electron Beam Lithography of sensitive resist based on photoacid generator integrated terpolymer: potentiality of high-resolution pattern transfer	<a href="mailto:subrata@iitmandi.ac.in">subrata@iitmandi.ac.in</a> , <a href="mailto:kenneth@iitmandi.ac.in">kenneth@iitmandi.ac.in</a>	School of Basic Sciences, Indian Institute of Technology Mandi, H.P. 175005, India.
182	182	<u>D. Padma Priya</u> , K. Shalini. D. Dhayanithi and N.V.Giridharan*	Synthesis and characterization of (1-x) BaTiO <sub>3</sub> – xCoFe <sub>2</sub> O <sub>4</sub> - Multiferroic composite	<a href="mailto:giri@nitt.edu">giri@nitt.edu</a> <a href="mailto:jeypriya1822@gmail.com">jeypriya1822@gmail.com</a>	Advanced Functional Materials Laboratory, Department of Physics, National Institute of Technology, Tiruchirappalli-620015

183	183	<u>K.Sivakumar,</u> <u>M.Senthilkumar,</u> <u>C.Ramachandra raja</u>	Synthesis, growth and characterization of R-Mandelic acid S-alanine hemihydrates single crystals	<a href="mailto:crraja@rediffmail.com">crraja@rediffmail.com</a> <a href="mailto:crrajaphy@gmail.com">crrajaphy@gmail.com</a>	Government Arts College (Autonomous), Kumbakonam - 612002, Tamilnadu, India.
184	184	<u>G. Narsinga Rao</u> <u>, P. Bala Bhaskar</u> <u>, R. Sankar</u> <u>, I. Panneer Muthuselvam</u> <u>K. Suresh Babu</u> <u>, and F.</u> <u>C. Chou</u>	High pressure and dielectric properties of the spin- $\frac{1}{2}$ compounds Ba <sub>2</sub> CuTeO <sub>6</sub>	<a href="mailto:nsrao@mlritm.ac.in">nsrao@mlritm.ac.in</a>	Marri Laxman Reddy Institute of Technology and Management, Hyderabad, Telangana, India
185	185	<u>P. Neha, V. Nagpal and</u> <u>S.Patnaik</u>	Effect of Pressure on superconducting properties of endohedral gallide cluster based superconductor Mo <sub>8</sub> Ga <sub>4</sub> l	<a href="mailto:spatnaik@mail.jnu.ac.in">spatnaik@mail.jnu.ac.in</a> <a href="mailto:vipin91nagpal@gmail.com">vipin91nagpal@gmail.com</a>	School of Physical Sciences, Jawaharlal Nehru University, New Delhi-110067
186	186	<u>Santhoshkumar M, Jatinder</u> <u>singh, Puneet sharma</u>	Effect of processing parameter on the structure and magnetic properties of barium hexaferrite sputtered thin films	<a href="mailto:puneet.sharma@thapar.edu">puneet.sharma@thapar.edu</a> <a href="mailto:santhosh.kumar@thapar.edu">santhosh.kumar@thapar.edu</a> <a href="mailto:u">u</a>	School of Physics and Materials Science, Thapar University, Patiala-147004, Punjab, India
187	187	<u>Plawan Kumar Jha,</u> <u>Santosh Kumar Singh,</u> <u>Vikash Kumar,</u> <u>Shammi Rana,</u> <u>Sreekumar Kurungot,</u> <u>and Nirmalya Ballav</u>	High-level supercapacitive performance of chemically reduced graphene oxide	<a href="mailto:plawanchemistry@gmail.com">plawanchemistry@gmail.com</a> <a href="mailto:m">m</a> <a href="mailto:nballav@iiserpune.ac.in">nballav@iiserpune.ac.in</a>	Department of Chemistry, Indian Institute of Science Education and Research (IISER), Dr. Homi Bhabha Road, Pune, Maharashtra –



					411 008, India.
188	188	<u>Satbir Singh*</u> <u>, Sarika Gupta</u> <u>, Benny Abraham Kaipparettu</u> <u>, Bipin Kumar Gupta</u>	New Emerging Rare-Earth Doped Luminomagnetic Nanorods for Cellular Imaging Applications	<a href="mailto:satbirsingh838@gmail.com">satbirsingh838@gmail.com</a>	CSIR- National Physical Laboratory, Dr K S Krishnan Road, New Delhi, 110012, India
189	189	Nasrin Banu <sup>1*</sup> , M. Aslam <sup>2</sup> , Arpita Paul <sup>3</sup> , S. Banik <sup>4</sup> , S. Das <sup>2</sup> , S. Datta <sup>2</sup> , A. Roy <sup>5</sup> , I. Das <sup>4</sup> , G. Sheet <sup>2</sup> , U. Waghmare <sup>3</sup> and B. N. Dev <sup>1</sup>	Superconductivity of high density nonmagnetic cobalt	<a href="mailto:nbanu24@gmail.com">nbanu24@gmail.com</a>	<sup>1</sup> Department of Materials Science, Indian Association for the Cultivation of Science, 2A & 2B Raja S. C. Mullick Road, Kolkata 700032, India
190	190	<u>Chandra Bhal Singh</u> and <u>Akhilesh Kumar Singh*</u>	Structural, Dielectric, Vibrational and Semiconducting Properties of Ferroelectric-Photovoltaic Bi(Ni <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -PbTiO <sub>3</sub> material	<a href="mailto:cbs.ic81@gmail.com">cbs.ic81@gmail.com</a> <a href="mailto:aksingh.mst@iitbhu.ac.in">aksingh.mst@iitbhu.ac.in</a>	School of Materials Science & Technology, Indian Institute of Technology (Banaras Hindu University), Varanasi 221005, India
191	191	<u>P. A. Manojkumar*</u> , <u>G. Mangamma</u> , <u>R. Pandian</u> , <u>A. Pandian</u> , <u>S. K. Dhara</u>	Tuning the morphology and structure of vertical graphene nanowalls: Raman and EELS study	<a href="mailto:manoj@igcar.gov.in">manoj@igcar.gov.in</a> <a href="mailto:manojkumar.igcar@gmail.com">manojkumar.igcar@gmail.com</a>	Indira Gandhi Centre for Atomic Research
192	192	<u>Laxmi Raman Adil<sup>1</sup></u> and <u>Parameswar Krishnan Iyer<sup>1</sup></u>	Design and synthesis of “AIEE” luminogen, modified into “AIE” luminogen by small modification and used for latent fingerprint imaging	<a href="mailto:pki@iitg.ernet.in">pki@iitg.ernet.in</a> <a href="mailto:ramanadil@gmail.com">ramanadil@gmail.com</a>	<sup>1</sup> Department of Chemistry and <sup>2</sup> Center for Nanotechnology, Indian Institute of Technology

					Guwahati, Guwahati, Assam 781 039, India
193	193	PratapBehera and <u>S. Ravi</u>	Magnetic and Impedance Spectroscopy Studies in Mg Doped Barium Hexaferrite	<a href="mailto:sravi@iitg.ernet.in">sravi@iitg.ernet.in</a>	<i>Department of Physics, Indian Institute of Technology Guwahati, Guwahati – 781039</i>
194	194	Aakansha and <u>S. Ravi</u>	Magnetic and Dielectric Properties of Transition Elements Substituted Yttrium Iron Garnets	<a href="mailto:sravi@iitg.ernet.in">sravi@iitg.ernet.in</a>	<i>Department of Physics, Indian Institute of Technology Guwahati, Guwahati – 781039</i>
195	195	<u>S. Babu</u> , <u>H. Yingkai</u> , and <u>S. K. Mishra</u>	Incommensurate skyrmionic phase in triangular spin lattice of helimagnet NiBr <sub>2</sub>	<a href="mailto:shrawan.mst@iitbhu.ac.in">shrawan.mst@iitbhu.ac.in</a>	School of Materials Science and Technology, Indian Institute of Technology (Banaras Hindu University), Varanasi-221005, India
196	196	T. P. Rashid <sup>1</sup> , Kavya Mukundan <sup>1</sup> , S. Nallamuthu <sup>1</sup> , K. Arun <sup>1</sup> , Marian Reiffers <sup>2</sup> , R. Nagalakshmi <sup>1*</sup>	Structural, magnetic and transport properties of CeAg <sub>0.68</sub> Si <sub>1.32</sub> polycrystalline compound	<a href="mailto:nagaphys@yahoo.com">nagaphys@yahoo.com</a> , <a href="mailto:nagalakshmi@nitt.edu">nagalakshmi@nitt.edu</a>  <a href="mailto:karun157@gmail.com">karun157@gmail.com</a>	Department of Physics, National Institute of Technology, Tiruchirappalli 620 015, India
197	197	P.Lalitha <sup>1*</sup> , S.Mohanraj <sup>1</sup> , S.	Phase transition in potassium	<a href="mailto:lallipons86@gmail.com">lallipons86@gmail.com</a> ,	PG & Research

		Ilakkiyaselvi 1 , A.Sinthiya 1 , S.Arumugam 2	hydrogen phthalate crystals – effect of various molar concentration of L-Proline	<a href="mailto:sinithi@andavacollege.ac.in">sinithi@andavacollege.ac.in</a>	Department of Physics, Srimad Andavan Arts and Science College (Autonomous), Trichy-5. Tamil Nadu.
198	198	R.Indhumathi, P.Lalitha, S. Ilakkiyaselvi, S.Mohanraj, A.Sinthiya*	Phase transition in potassium hydrogen phthalate crystals – effect of various molar concentration of L-Glutamine	<a href="mailto:sinithi@andavacollege.ac.in">sinithi@andavacollege.ac.in</a> ,	PG & Research Department of Physics, Srimad Andavan Arts and Science College (Autonomous), Trichy-5. Tamil Nadu
199	199	S. Lingeshwari, S. Ilakkiyaselvi, P. Lalitha, S. Mohanraj, A. Sinthiya	Phase transition in ammonium di hydrogen orthophosphate crystals –effect of various molar concentration of amino acid	<a href="mailto:sinithi@andavacollege.ac.in">sinithi@andavacollege.ac.in</a>	PG & Research Department of Physics, Srimad Andavan Arts and Science College (Autonomous), Trichy-5. Tamil Nadu
200	200	M. Renugadevi, P.Jayanthi, P. Lalitha, S. Ilakkiyaselvi, S.Mohanraj, A. Sinthiya	Powder diffraction pattern analysis and FT-IR spectrum analysis of tetrakis (4-aminopyridine- $kN^1$ ) - di chloride copper (II) monohydrate crystal	<a href="mailto:sinithi@andavacollege.ac.in">sinithi@andavacollege.ac.in</a>	PG & Research Department of Physics, Srimad Andavan Arts and Science College (Autonomous), Trichy-5. Tamil Nadu
201	201	N. Manivannan <sup>1</sup> , G. Kalai Selvan <sup>2</sup> , Z. Haque <sup>3</sup> , L. C.	Bulk superconductivity at $T_c = 0.79$ K in $Eu_2SrBi_2S_4F_4$ : An	<a href="mailto:kalai71309@gmail.com">kalai71309@gmail.com</a>	Centre for High Pressure Research,

		Gupta <sup>3</sup> , A. K. Ganguli <sup>3,4</sup> and S. Arumugam <sup>2</sup> <sup>1</sup> Quantum Design, Inc., San Diego	AC-susceptibility investigation		School of Physics, Bharathidasan University, Tiruchirapalli 620024, India.
202	202	Dr. Kartick Tarafder & Ramesh Reddy	Magneto-electric Coupling in BaTiO <sub>3</sub> /Sr <sub>2</sub> CoO <sub>3</sub> F heterostructure	<a href="mailto:karticktarafder@gmail.com">karticktarafder@gmail.com</a>	DEPARTMENT OF PHYSICS NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA SRINIVAS NAGAR, MANGALORE, KARNATAKA-575025
203	203	K Arun , T P Rashid , S Nallamuthu , Marian Reiffers , R Nagalakshmi	Magnetic and Magnetocaloric properties of Dy <sub>6</sub> Ni <sub>2</sub> Si <sub>3</sub> compound	<a href="mailto:nagaphys@yahoo.com">nagaphys@yahoo.com</a> , <a href="mailto:nagalakshmi@nitt.edu">nagalakshmi@nitt.edu</a>  <a href="mailto:karun157@gmail.com">karun157@gmail.com</a>	Department of Physics, National Institute of Technology, Tiruchirappalli 620 015, India
204	204	D. Saravanakkumar <sup>1,6</sup> , S. Sivaranjani <sup>1,3*</sup> , A. Ayeshamariam <sup>4</sup> , Mariadhas Valan Arasu <sup>5</sup> , S. Pandiarajan <sup>6</sup> B. Ravikumar <sup>7</sup> and M. Jayachandran <sup>8</sup>	Antimicrobial results of two different doping concentrations of CNT with ZnO	<a href="mailto:aismma786@gmail.com">aismma786@gmail.com</a>  <a href="mailto:dskapk@gmail.com">dskapk@gmail.com</a>	Research and Development Center, Bharathiar University, Coimbatore, 641 046, India
205	205	A Suresh , N Soundararajan	First principles study on Pd <sub>2</sub> ZrGe full heusler alloy using density functional theory	<a href="mailto:suresh2007pgp19@gmail.com">suresh2007pgp19@gmail.com</a>	Department of Computational Physics, School of Physics, Madurai

					<i>Kamaraj University, Madurai 625 021, Tamil Nadu, India</i>
206	206	<u>R.V. William</u> <sup>1</sup> , *A. Marikani <sup>1</sup> , P. Sivaprakash <sup>2</sup> , S. Arumugam <sup>2</sup>	A study of magnetic phase transition in BiFe <sub>0.5</sub> Cr <sub>0.5</sub> O <sub>3</sub> thin films deposited over Pt (111)/Ti/SiO <sub>2</sub> /Si substrate	<a href="mailto:amari@mepcoeng.ac.in">amari@mepcoeng.ac.in</a> <a href="mailto:rvwilliam.chem@gmail.com">rvwilliam.chem@gmail.com</a> <a href="mailto:william@mepcoeng.ac.in">william@mepcoeng.ac.in</a>	<sup>1</sup> Department of Physics, Mepco Schlenk Engineering College, Tamil Nadu 626005, India.
207	207	G.K. Gupta* <sup>1</sup> , M. Shafeeq <sup>1</sup>	An effective conventional powder metallurgy route using elemental powders for the development of Cu-Al-Ni shape memory alloys	<a href="mailto:gauravkumargupta@yahoo.com">gauravkumargupta@yahoo.com</a>	<sup>1</sup> CSIR-AMPRI Bhopal, Hoshangabad Road, near habibganj naka, Bhopal-462026
208	208	Dr.C.Dayanand and K.Sridhar	Structural Changes in Lead Phosphate Glasses doped with Vanadyl	<a href="mailto:dchurya@gmail.com">dchurya@gmail.com</a>	Material Science lab, Tirumala Engineering College, Affiliated to Jawaharlal Nehru Technological University, Hyderabad, India Telangana.
209	209	<u>P. Kanchana</u> , C. Sekar	Facile fabrication of SnS and activated carbon nanocomposite	<a href="mailto:pskanchana@gmail.com">pskanchana@gmail.com</a> <a href="mailto:Sekar2025@gmail.com">Sekar2025@gmail.com</a>	Department of Bioelectronics and

			for the simultaneous determination of uric acid, theophylline and caffeine		Biosensors, Alagappa University, Karaikudi-630 004, TN
210	210	<u>R. Ramya</u> , Dr. J. Wilson	Bimetallic nanoparticles anchored on $\alpha$ -Fe <sub>2</sub> O <sub>3</sub> catalyst for simultaneous electrochemical detection of dopamine and uric acid	<a href="mailto:mranya155@gmail.com">mranya155@gmail.com</a>	<i>Polymer Electronics Lab, Department of Bioelectronics and Biosensors, Alagappa University, Karaikudi - 630004, Tamilnadu, India.</i>
211	211	P. Thivya, J. Wilson	DNA mediated electrocatalytic enhancement on $\alpha$ -Fe <sub>2</sub> O <sub>3</sub> -PEDOT-C-MoS <sub>2</sub> hybrid nanostructures for Riboflavin detection on Screen Printed Electrode	<a href="mailto:dddivyaec@gmail.com">dddivyaec@gmail.com</a>	<i>Polymer Electronics Lab, Department of Bioelectronics and Biosensors, Alagappa University, Karaikudi - 630004, Tamilnadu, India.</i>
212	212	N.Jayamani	MOLECULAR STRUCTURE, NMR, HOMO-LUMO AND VIBRATIONAL ANALYSIS OF GAMMA O-NITROBENZALDEHYDE OXIME BASED ON	<a href="mailto:drnjayamani@gmail.com">drnjayamani@gmail.com</a>	Department of Physics, Government Arts College, Salem-63600, India

			DENSITY FUNCTIONAL THEORY CALCULATIONS		
213	213	S.HASEENA	THERMO ACOUSTICAL INVESTIGATIONS OF MOLECULAR INTERACTIONS IN ANTIBIOTIC NORFLOXACIN	<a href="mailto:drnjayamani@gmail.com">drnjayamani@gmail.com</a>	DEPARTMENT OF PHYSICS, MUTHAYAMMAL MEMORIAL COLLEGE OF ARTS AND SCIENCE, RASIPURAM, India
214	214	Kumar Sourabh , Suhrit Mula	Characterization of Al-6061 based metal matrix composite fabricated by stir casting route and modified by friction stir processing (FSP)	<a href="mailto:srbhkmr93@gmail.com">srbhkmr93@gmail.com</a>	Mechanical Metallurgy Division, Bhabha Atomic Research Center, Mumbai-400085, Maharashtra, India
215	215	<i>S. Nallamuthu<sup>1, 2</sup>, K. Arun<sup>1</sup>, Marian Reiffers<sup>3</sup>, and R. Nagalakshmi<sup>1</sup></i>	Ferromagnetic cluster spin glass nature in $\text{Sm}_3\text{Ag}_{2.55}\text{Al}_{8.45}$	<a href="mailto:nagaphys@yahoo.com">nagaphys@yahoo.com</a> , <a href="mailto:nagalakshmi@nitt.edu">nagalakshmi@nitt.edu</a> <a href="mailto:nallamuthu.phy@gmail.com">nallamuthu.phy@gmail.com</a>	Department of Physics, National Institute of Technology, Tiruchirappalli 620 0015, Tamil Nadu, India
216	216	<i>J. Aarthi<sup>1</sup>, S. Gowri<sup>2,*</sup>, S.Sujatha,<sup>3</sup> R. Nirmal Kumar,<sup>3</sup> and R.</i>	Growth, Vibrational, Optical, Mechanical and Dielectrical studies of EDTA Doped	<a href="mailto:gow.1976@gmail.com">gow.1976@gmail.com</a>	Department of Physics, Seethalakshmi

		Thiyagarajan <sup>3</sup>	Cupric Sulphate-Zinc Chloride Crystals		Ramaswami College, Trichy
217	217	T. Mahalakshmi, R.Kiruthiga, S.Sujatha, R. Nirmal Kumar* and R. Thiyagarajan	Study of Vibrational, Mechanical and Dielectrical Properties of ADP Single Crystal	<a href="mailto:nirmal@andavancollege.ac.in">nirmal@andavancollege.ac.in</a>	PG and Research Department of Physics, Srimad Andavan Arts & Science College, Trichy
218	218	V.Pazhanivelu <sup>1</sup> , A. Paul Blessington Selvadurai <sup>2</sup> , R.Murugaraj	Room Temperature Ferromagnetism in Group I Elements Codoped ZnO:Mn Nanomaterials	<a href="mailto:thiyagu0582@yahoo.com">thiyagu0582@yahoo.com</a>	Centre for Research and Development, Mahendra Educational Institutions, Mallasamudram, Tamil Nadu 637503, India
219	219	Prasad N. Gadgil	Atomic Layer Deposition - an Enabling and Critical Thin Film Technology	<a href="mailto:kunalbasu@gmail.com">kunalbasu@gmail.com</a>	AMPRI, Bhopal, India
220	220	S. Sarkar <sup>1,*</sup> , N. Dey <sup>1</sup> and A. Ranjan <sup>2</sup>	Kinetic analyses of thermogravimetric data of solid PCS up to 1673K in flowing Nitrogen	<a href="mailto:soumya@cgcric.res.in">soumya@cgcric.res.in</a>	CSIR-Central Glass and Ceramic Research Institute, Kolkata-700 032, WB, India
221	221	M. Prabhu, K.	Undoped and Mg <sup>2+</sup> -	<a href="mailto:prabhumku@gmail.com">prabhumku@gmail.com</a>	School of



		Ramachandran and N. Soundararajan	doped TiO <sub>2</sub> nanoparticelsfor DSSCs activity		Physics, Madurai Kamaraj University, Madurai-625 021, India
222	222	<u>M.Karunanithy</u> <sup>1,2</sup> , K. Mikila Vaahini <sup>3</sup> , A. Hameedha Beevi <sup>4</sup> , B.H. Ahmed Ibraheem <sup>5</sup> , K. Kaviyarasu <sup>6,7</sup> , A.Ayeshamariam <sup>1,2*</sup> and M.Jayachandran <sup>8</sup>	Thermoelectric behavior of ZnTe materials and its characterization	<a href="mailto:aamariam786@gmail.com">aamariam786@gmail.com</a>	<sup>1</sup> Research and Development Center, Bharathidasan University, Tiruchirappalli, 620 024, India
223	223	R. Abinaya <sup>1</sup> , P.Ponsurya <sup>2</sup> , B.H. Abbas Shahul Hameed <sup>3</sup> , S. Kathoon Sanofer <sup>4</sup> , S. Rajathi <sup>2</sup> , R. Perumalsamy <sup>6</sup> and A. Ayeshamariam <sup>6,7*</sup>	Fe <sub>2</sub> O <sub>3</sub> thin films on deposited on ITO substrate and its RBS characterization	<a href="mailto:aamariam786@gmail.com">aamariam786@gmail.com</a>	<sup>1</sup> Department of Physics, Thiagarajar College of Engineering, Thiruparankundram, Madurai, 625 015, India
224	224	<u>R.Thirumamagal</u> <sup>1,2</sup> , S.Nivetha <sup>3</sup> , K.Kaviyarasu <sup>4</sup> , A.Ayeshamariam <sup>1,3*</sup> , M.Valanarasu <sup>5</sup> , and M.Jayachandran <sup>6</sup>	Synthesis and optical characterization of Yittrium doped Cerium Oxide Nanoparticles	<a href="mailto:aamariam786@gmail.com">aamariam786@gmail.com</a>	Research and Development Centre, Bharathiar University, Coimbatore, 641 046, India
225	225	<u>N. Geetha</u> <sup>1</sup> , A. Hameedha	Visible Light Photocatalytic	<a href="mailto:aamariam786@gmail.com">aamariam786@gmail.com</a>	<sup>1</sup> Research and

		Beevi <sup>2</sup> , A.Ayeshamariam <sup>1,4*</sup> , Horacio Pérez-Sánchez <sup>5</sup> , S. Sivaranjani <sup>1,6</sup> and M. Jayachandran <sup>7</sup>	Activity of ZnO- TiO <sub>2</sub> Composites for the Degradation of Rhodamine B		Development Center, Bharathiyar University, Coimbatore, 641046, India
226	226	N. Lavanya, C. Sekar	Co doped SnO <sub>2</sub> nanoparticles for hydrogen gas sensing applications	<a href="mailto:lavan153@gmail.com">lavan153@gmail.com</a>	Dept. of Bioelectronics & Biosensors, Alagappa University, Karaikudi-630003, TN, India.
227	227	<u>Ravi Chandra Gundakaram</u> <sup>1</sup> , Anjali Kanchi and Subasri Raghavan	Synthesis of novel multicomponent refractory alloys consisting of Mo, Nb, Ta and W	<a href="mailto:ravi.gundakaram@arci.res.in">ravi.gundakaram@arci.res.in</a>	INTERNATIONAL ADVANCED RESEARCH CENTRE FOR POWDER METALLURGY AND NEW MATERIALS (ARCI), BALAPUR P.O., HYDERABAD 500 005
228	228	Vinita, Narsingh R. Nirala, Rajiv Prakash	Electrochemical preparation of graphene quantum dots from wood charcoal as a peroxidase mimetic	<a href="mailto:rprakash.mst@itbhu.ac.in">rprakash.mst@itbhu.ac.in</a> <a href="mailto:vinita.rs.mst15@itbhu.ac.in">vinita.rs.mst15@itbhu.ac.in</a>	School of Materials Science and Technology, Indian Institute of Technology (Banaras

					Hindu University), Varanasi-221005, India
229	229	S. Singh and <u>Manju Arora</u>	Photocatalytic Graphene:TiO <sub>2</sub> Nanocomposites for Air Purification	<a href="mailto:marora@nplindia.org">marora@nplindia.org</a>	CSIR-National Physical Laboratory, Dr. K.S. Krishnan Marg, New Delhi – 110012.
230	230	T Sruthi	Density functional theory calculations for the enhanced quantum capacitance of chemically modified graphene nano-ribbon supercapacitor electrodes.	<a href="mailto:sruty111@gmail.com">sruty111@gmail.com</a>	National Institute of Technology, Karnataka
231	231	ShekherKummari, V. Sunil Kumar P. NageswaraRao, K. Vengatajalabathy Gobi	Nano-Au Particle Embedded Carbon Paste Electrode Sensing Platform for Electrochemical Detection of Temozolomide <i>in-vitro</i>	<a href="mailto:drkvgobi@gmail.com">drkvgobi@gmail.com</a>	Department of Chemistry, National Institute of Technology, Warangal - 506004, Telangana, India
232	232	<u>S. Sarkar</u> , M. Biswas and S. Bandyopadhyay	Tribo-mechanical behavior of spark plasma sintered multiwalled carbon nanotube reinforced AlN rich SiAlON polytype composites	<a href="mailto:sbando@cgcri.res.in">sbando@cgcri.res.in</a> <a href="mailto:soumya@cgcri.res.in">soumya@cgcri.res.in</a>	CSIR- Central Glass & Ceramic Research Institute, 196, Raja S.C. Mullick Road, Kolkata 700 032,

					India
233	233	<u>M. Biswas</u> , S. Sarkar and S. Bandyopadhyay	Variation in tribo-mechanical properties of additive free SiAlON polytypoids densified under different SPS process temperature	<a href="mailto:sbando@cgcri.res.in">sbando@cgcri.res.in</a> <a href="mailto:mbiswas.besu@gmail.com">mbiswas.besu@gmail.com</a>	CSIR- Central Glass & Ceramic Research Institute, 196, Raja S.C. Mullick Road, Kolkata 700 032, India
234	234	<u>Chaitanya Hiragond</u> <sup>1</sup> , Abhijeet Dey <sup>2</sup> , and P. K. Khanna <sup>3*</sup> and Priyesh More <sup>4</sup>	Thermoelectric Performance of CdS QDs Based Hybrid Nanocomposites	<a href="mailto:morepriyesh@yahoo.com">morepriyesh@yahoo.com</a> <a href="mailto:pawankhanna2002@yahoo.co.in">pawankhanna2002@yahoo.co.in</a>	<sup>4</sup> Nanochemistry/QDs, R & D Laboratory, Department of Applied Chemistry, Defence Institute of Advanced Technology (DIAT), Ministry of Defence, DRDO, Govt. of India, Girinagar, Pune - 411 025, India.
235	235	<u>Rajendra Mohan</u> , Mritunjoy Prasad Ghosh, Samrat Mukherjee	Giant exchange bias in Zn <sub>0.3</sub> Ni <sub>0.7</sub> Fe <sub>2</sub> O <sub>4</sub> system	<a href="mailto:samrat.udc@gmail.com">samrat.udc@gmail.com</a>	National Institute Of Technology, Patna, India
236	236	Muhammed Yoosuf, a Manikkedath V. Vinayak,a	A detailed study of charge recombination dynamics in	<a href="mailto:suraj@niist.res.in">suraj@niist.res.in</a> ; <a href="mailto:gopidaskr@niist.res.in">gopidaskr@niist.res.in</a> ;	Photosciences and Photonics Section,

		Thyagarajan M. Lakshmykanth,a,b Sourava C. Pradhan,a Suraj Soman,a,b,c* and Karical R. Gopidas	dye sensitized solar cells based on two triphenylamine based dyes	<a href="mailto:mohammed.yoosuf@gmail.com">mohammed.yoosuf@gmail.com</a>	Chemical Sciences and Technology Division, CSIR-National Institute for Interdisciplinary Science and Technology, Thiruvananthapuram 695019, Kerala,
237	237	I.Vijitha <sup>a,b</sup> , C. Vijayakumar Nair <sup>a,b</sup> , Biswapriya Deb <sup>a</sup>	Polymer nanocomposite materials for thermoelectric applications	<a href="mailto:biswapriya.deb@niist.res.in">biswapriya.deb@niist.res.in</a>	CSIR- National Institute for Interdisciplinary Science and Technology, Thiruvananthapuram, Kerala, India
238	238	Ashutosh Kumar <sup>1*</sup> , C. V. Tomy and Ajay D. Thakur	Structural, Magnetic and Thermoelectric Properties of $\alpha$ -MnO <sub>2</sub> synthesized by Hydrothermal Process	<a href="mailto:science.ashutosh@gmail.com">science.ashutosh@gmail.com</a>	Department of Physics, Indian Institute of Technology Patna, Bihta-801103, India
239	239	Karuna Kumari <sup>1*</sup> , Ashutosh Kumar, Jayakumar Balakrishanan, Ajay D Thakur and SoumyaJyoti Ray	Structural, Magnetic and Transport Properties of La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> -Graphene Nanocomposite	<a href="mailto:karuna.phys@gmail.com">karuna.phys@gmail.com</a>	Department of Physics, Indian Institute of Technology Patna, Bihta-801103, India
240	240	G. P. Singh	Plasmonic induced effect of Au-graphene-TiO <sub>2</sub>	<a href="mailto:gpsinghcuj@gmail.com">gpsinghcuj@gmail.com</a>	Centre for Nanotechnology,

			photocatalyst for visible region solar water splitting		Central University of Jharkhand, Ranchi-834205, Jharkhand, India
241	241	N. Samanta*, RoyChaudhuri	C. Nanocrystalline silicon oxide immunosensor for toxicity detection in drinking water	<a href="mailto:samanta.nir.ind@gmail.com">samanta.nir.ind@gmail.com</a>	Department of Electronics and Telecommunication Engineering, Indian Institute of Engineering Science and Technology, Shibpur, Howrah, West Bengal
242	242	Balakrishnan Kirubasankar, Pazaniraja Palanisamy, Vignesh Murugadoss, Subramania Angaiah	Hybrid of MoSe <sub>2</sub> -Ni(OH) <sub>2</sub> nanosheets as efficient electrode material for high energy asymmetric supercapacitors	<a href="mailto:a.subramania@gmail.com">a.subramania@gmail.com</a> <a href="mailto:bala.balakrishnan2507@gmail.com">bala.balakrishnan2507@gmail.com</a>	Electrochemical Energy Research Lab, Centre for Nanoscience and Technology, Pondicherry University, Puducherry - 605014, India
243	243	Bimalendu Adhikari	Supramolecular Polymers: From Molecules to Materials	<a href="mailto:badhikari@iisermohali.ac.in">badhikari@iisermohali.ac.in</a>	IISER Mohali, Knowledge city, Sector 81, Manauli PO, SAS Nagar, Punjab 140306

244	244	<u>C. Sudarshan</u> , <sup>*a</sup> S. Jayakumar, <sup>b</sup> K. Vaideki, <sup>a</sup> and C. Sudakar <sup>c</sup>	Raman scattering investigation of stoichiometric and off-stoichiometric Bi <sub>2</sub> Te <sub>3</sub> thin films prepared by e-beam evaporation technique	<a href="mailto:c.sudarshans@gmail.com">c.sudarshans@gmail.com</a>	Thin Film Centre and Department of Applied Science, PSG College of Technology, Coimbatore 641004, India
245	245	<u>RathnasamyRajeswari</u> <sup>a</sup> , RangasamyThangamuthuand AlaganViswanathan	Synthesis of orthorhombic MoO <sub>3</sub> nanosheets for visible-light-driven photocatalytic application	<a href="mailto:alaganviswa@gmail.com">alaganviswa@gmail.com</a> <a href="mailto:rajeswari24591@gmail.com">rajeswari24591@gmail.com</a>	<sup>a</sup> Department of Physics, Bharathidasan Institute of Technology (BIT) Campus, Anna University, Tiruchirappalli – 620 024, India
246	246	<u>BamishaBalan</u> <sup>a,b</sup> , Vindhyasarumi <sup>a</sup> , KaruvathYosaf <sup>*</sup> A.	Engineering Organic chromophores for Luminescent Solar Concentrators	<a href="mailto:yoosafk@niist.res.in">yoosafk@niist.res.in</a> <a href="mailto:bamishabalan39@gmail.com">bamishabalan39@gmail.com</a>	CSIR National Institute for Interdisciplinary Science and Technology, Thiruvananthapuram
247	247	<u>ReethuHaridas</u> <sup>a,b</sup> , Vindhyasarumi <sup>a</sup> , SauravChandrapradhan, <sup>a</sup> Jayadev, <sup>a</sup> SurajSoman <sup>a,b</sup> , Narayanan Unni K N <sup>a,b</sup> , A. V.	Donor- $\pi$ -AcceptorConjugated Organic Dyes for Efficient Dye-Sensitized Solar Cells	<a href="mailto:reethuharidas123@gmail.com">reethuharidas123@gmail.com</a> <a href="mailto:yoosafk@niist.res.in">yoosafk@niist.res.in</a>	<sup>a</sup> CSIR-National Institute for Interdisciplinary Science and Technology (CSIR-

		KaruvathYoosaf			NIIST), Thiruvananthapuram
248	248	Paras H. Trivedi, Haresh K. Patell , K.G.Raval	Effect of cobalt doping on the structural, optical, thermal and mechanical properties of Ammonium Dihydrogen Phosphate single crystals	<a href="mailto:parry.trivedi@gmail.com">parry.trivedi@gmail.com</a>	Shree Jayendrapuri Arts & Science College, Bharuch, Gujarat*, Narmada College of Science & Commerce, Zadeshwar, Gujarat
249	249	A. K. Shukla and RMVGK Rao	Novel electrophoretic polymer nanocomposites for diverse applications – a futuristic material	<a href="mailto:ashokshukla52@gmail.com">ashokshukla52@gmail.com</a>	Professor-Chemistry, East Point College of Engineering & Technology, Bidarahalli, Bangalore-560049, India;
250	250	Ashwani Kumar and <u>Ramesh Chandra</u>	Physical vapour deposition of functional nanostructured materials for gas sensing and energy storage applications	<a href="mailto:ramesfic@gmail.com">ramesfic@gmail.com</a>	Nanoscience Laboratory, Institute Instrumentation Centre, Indian Institute of Technology Roorkee, Roorkee 247667, India
251	251	K. Vanasundari <sup>1</sup> , V. Balachandran <sup>1</sup> , M. Kavimani <sup>1</sup> , B. Narayana <sup>2</sup>	Molecular docking and quantum chemical calculation of 4-[(2, 4- dichlorophenyl) amino] 2-methylidene 4-oxo butanoic acid by density functional theory	<a href="mailto:brsbala@rediffmail.com">brsbala@rediffmail.com</a> , <a href="mailto:brsbala66@gmail.com">brsbala66@gmail.com</a>	<sup>1</sup> Centre for Research, Department of Physics, Arignar Anna Government Arts College, Musiri, Tiruchirappalli 621 211, India



252	252	M. Kavimani <sup>1</sup> , V. Balachandran <sup>1</sup> , K. Vanasundari <sup>1</sup> , B. Narayana <sup>2</sup>	Microbial study, molecular docking, Fukui functions and RDG analysis of 3, 4-chlorophenyl acetic acid	<a href="mailto:brsbala@rediffmail.com">brsbala@rediffmail.com</a> , <a href="mailto:brsbala66@gmail.com">brsbala66@gmail.com</a>	<sup>1</sup> Centre for Research, Department of Physics, Arignar Anna Government Arts College, Musiri, Tiruchirappalli 621 211, India
253	253	K. Anitha <sup>a</sup> , V. Balachandran <sup>b,*</sup> , B. Narayana <sup>c</sup> , B. Revathi <sup>b</sup> , M. Karunanidhi <sup>d</sup>	Molecular structure, vibrational spectra (FT-IR and FT-Raman), NBO, Molecular orbital analysis and evaluation of microscopic NLO behaviour of (2E)-1-(4-bromophenyl)-3-(4-chlorophenyl) prop-2-en-1-one	<a href="mailto:brsbala@rediffmail.com">brsbala@rediffmail.com</a> , <a href="mailto:brsbala66@gmail.com">brsbala66@gmail.com</a>	<sup>a</sup> Department of Physics, Bharathidasan University Constituent College, Lalgudi, Tiruchirappalli 621 601, TamilNadu, India
254	254	M. Karunanidhi <sup>a</sup> , V. Balachandran <sup>b,*</sup> , B. Narayana <sup>c</sup> , K. Anitha	Vibrational Spectroscopic investigation, Magnetic susceptibility, MEP, NBO, NLO, Fukui function and quantum chemical parameters analyses of 1(3, 4-Dichlorophenyl)ethanone	<a href="mailto:brsbala@rediffmail.com">brsbala@rediffmail.com</a> , <a href="mailto:brsbala66@gmail.com">brsbala66@gmail.com</a>	Department of Physics, Srimad Andavan Arts and Science College (Autonomous), Tiruchirappalli 620005, India
255	255	R. Vijayakumar <sup>a</sup> , V. Balachandran <sup>b</sup> , B. Narayana <sup>c</sup> , M. Karunanidhi <sup>a</sup>	Computational analysis of 2E-1-(Anthracene-9-yl)-3-(4chlorophynyl) by density functional theory	<a href="mailto:brsbala@rediffmail.com">brsbala@rediffmail.com</a> , <a href="mailto:brsbala66@gmail.com">brsbala66@gmail.com</a>	Department of Physics, Srimad Andavan Arts and Science College (Autonomous), Tiruchirappalli

					620005, India
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