

National Conference on Sustainable Development through Innovative Research in Science and Technology

Names of the members already registered are shown in bold. It is to be noted that no spot registration without showing the e-mail acceptance for registration will be entertained. One member for each of the papers submitted needs to either registrar immediately or e-mail by September 25 the willingness to register to dsanyal@mech.jdvv.ac.in, in case the paper is from outside Jadavpur.

Poster No	Author(s)	Title of abstract	Affiliation of 1 st author	Corresponding author
P 1	Kaushik Pal ^a , Joy Sankar Roy ^a , Tapas Pal Majumder ^{a,*} , Romana Schirhagl ^b , Roman Dabrowski	Facile Fabrication of Novel TiO ₂ Nanostructures Doped W-182 (AFLC) Host: Temperature Dependent Dielectric and Bi-stable Switching	Department of Physics, University of Kalyani, Kalyani-741235, West Bengal, India	tpm@klyuniv.ac.in , kaushikphysics@gmail.com .
P 2	Sayan Bhattacharya [*] , Antara Ganguli ¹ , Aparajita Mukherjee ¹ , Debaroti Halder ¹ , Dhruvajyoti Chattopadhyay ² and Aniruddha Mukhopadhyay	Effects of genetically modified foods: A review of the perspectives for environment, health and economy	Department of Environmental Science, University of Calcutta. 51/2, Hazra Road, Kolkata-700019, India	sayan_evs@yahoo.co.in .
P 3	S. Mukhopadhyay and T. K. Ballabh	Computation of surface structure by improved LEED data interpretation algorithm	Dept. of Physics, Jadavpur University	phy.smukherjee@gmail.com,
P 4	Jigisha Panda and Priyabrata Sarkar	Biosensing and bioremediation of Cr VI in waste water with novel chromate resistant isolate <i>Enterobacter aerogenes</i> T2 (GU265554, NII 1111)	Department of Polymer Science and Technology, University of Calcutta	sarkarpriya@yahoo.com ,
P 5	Arindam Biswas ¹ , Arzoo Rafique ¹ , Hasanujjaman ¹ , Dipanjan Roy Barman ¹ Aniruddha Ghosal	Study of Hot Electron Effect in LD-MOS using ATLAS	Dumkal Institute of Engineering and Technology, Dumkal, Murshidabad	mailarindambiswas@yahoo.co.in,
P 6	Rashmi R. Devi ¹ and Tarun K. Maji	Development of a Novel Biomass Nano-Composite Inspired from Cellular Structure of Wood	Department of Chemical Sciences, Tezpur University, Napaam, Assam	rekha@tezu.ernet.in,
P 7	P. K. Samanta ^{1*} , N. Karak ² , T K Kundu ² , A. K. Bandyopadhyay	C-axis Oriented ZnO Thin Film and Green Photoluminescence	Department of Physics, Ghatal Rabindra Satabarsiki Mahavidyalaya, Ghatal-	pjush.samanta@gmail.com ,
P 8	S. Banerjee ¹ , S.K. Mukhopadhyay ^{1*} , S. Haldar ² , S. Ganguly ³ , S. Pradhan ¹ , N.C. Patra ¹ , D. Niyogi ⁴ and D.P. Isore	Effect of phyto-genic growth promoter on broiler birds	Department of Veterinary Pathology,	skmpath@gmail.com ,
P 9	Animesh Layek, Somnath Middya and Partha Pratim Ray	Improvement in photosensitivity of P3HT:PCBM and FeS ₂ nanoparticle based material for hybrid solar cell application	Dept. of Physics, Jadavpur University	partha@phys.jdvv.ac.in,
P 10	Malay Pramanik ¹ and Asim Bhaumik	Room temperature synthesis of polystyrene nanoparticles with an uncommon nanoflake like catalyst	Department of Materials Science, Indian Association for the Cultivation of Science	malay259@gmail.com,
P 11	S. Kundoo ¹ , S. Kar ² , K.K. Chattopadhyay	Compositional analysis and field emission studies of nitrogen doped diamond like carbon films deposited by electrolysis of organic liquids	Govt. College of Engg. and Leather Technology, Salt Lake, Kolkata- 700 098, WB	skundoo@yahoo.com,

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P 12	Subhrajyoti Dey, S.Kumar	Study on Magnetic Properties of Nanosized $Ni_{0.35}Zn_{0.65}Fe_2O_4$	Department of Physics, Jadavpur University,	kumar_dsa@yahoo.com,
P 13	Suparna Saha and Priyabrata Sarkar	Arsenic Remediation from Drinking Water by Synthesized Nano-alumina Dispersed in Chitosan-grafted Polyacrylamide	Department of Polymer Science and Technology, University of Calcutta	sarkarpriya@gmail.com,
P 14	Payel Aich¹, Purabasha Haldar¹, Santanu Jana², Dipankar Mandal	Preferential Formation of Metal Salts Induced Electro-active Crystalline Phases in Poly(vinylidene fluoride) Films	¹ Department of Physics, Jadavpur University	dipankar@phys.jdvu.ac.in,
P 15	Dr. Suvangshu Dutta	Development Of <i>Mesua Ferrea</i> L. Seed Oil Based Non-flammable And Biodegradable Polyurethane Nanocoatings For A Sustainable Future	Advanced Chemical Research Laboratory, Department of Chemistry, D.R. College	suvangshu@rediffmail.com,
P 16	Rajat Saha, Sanjay Kumar	From Molecules to Functional Materials: A Crystal Engineering Approach	Department of Physics, Jadavpur University,	kumar_dsa@yahoo.com, rajatinorg1@gmail.com,
P 17	Unmesha Ray, Arun Kumar Mishra and Sourav Sarkar	Sustainable Development for Engineering and Science Education with Innovative Technologies	Department of Electronics and Communication Engineering	unmesha2091@gmail.com, arunkumarmishra44@gmail.com, souravsarkars@gmail.com
18	Shubhalakshmi Sengupta^{1*}, Dipa Ray¹, Aniruddha Mukhopadyay	Development and Characterizations of Palmitic Acid Surface Coated Fly Ash Reinforced Recycled Polypropylene Matrix Composites	Department of Polymer Science and Technology, University of Calcutta, 92, A.P.C. Road, Kolkata-700009, India	sengupta.shubha@gmail.com,
P 19	Sukanta Mandal ¹ , Arindam Biswas ¹ , Durbadal Mandal ² , A.K Bhattacharjee	A Study of New Aspect in Blowfish Algorithm for Data Encryption	¹ Dumkal Institute of Engineering and Technology,	mailarindambiswas@yahoo.co.in,
P 20	Avijit Ghosh^{*1}, Pijus Kundu², Soumen Das³, and T K Bhattacharyya	On origin of second harmonic generation in Si/SiO ₂ /Si ₃ N ₄ stack layer	¹ Centre for Applied Physics, Central University of Jharkhand, Ranchi, Jharkhand, India	avijitphy@gmail.com,
P 21	Sunanda Sain¹, Dipa Ray¹, Anirudhha Mukhopadhyay	An approach to modify cellulose nanofibril prepared from jute and their characterizations	¹ Department of Polymer Science & Technology, University of Calcutta	sunanda.sain@gmail.com,
P 22	Gargi Dinda^a Atanu Mitra^b and Dipankar Halder^a Sanita Banerjee	Study of antimicrobial property of copper nanoparticle	^a Department of Food Technology and Biochemical Engineering, Jadavpur University	drmitra04@yahoo.co.in,
P 23	Debasis Das[*], Subir K Sanyal	Magnetic Hydrophobized Galactomanan Nano-Assemblies for Chemical and Biological Decontamination of Water	Department of Production Engineering, JU	sayan57@gmail.com, swvche@gmail.com,
P 24	S. Banerjee¹, D. R. Saha², P. Hajra and D. Chakravorty	Study of variation of dielectric property with applied magnetic field of some silica based nanocomposites	MLS Professor's Unit, Indian Association for the Cultivation of Science	shilpigbanerjee@gmail.com, dhriti.physics@gmail.com,

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P 25	Amrita Mandal¹, Sreemanta Mitra² and Dipankar Chakravorty	Multifunctional properties of nickel and nickel sulfide nanosheets grown within Na-4 mica	MLS Professor of Physics Unit, IACS	piu.amrita@gmail.com , sreemanta85@gmail.com ,
P 26	M. K. Debanath ^{at} , S. Karmakar ^{at} and S. M. Borah	Study of Structural and Optical properties of Zinc Oxide (ZnO) nanoparticles capped with Polyvinylpyrrolidone (PVP)	^a Department of Instrumentation & USIC, Gauhati University	mrinaldebanath@rediffmail.com ,
P 27	Tarun Mistri , Rabiul Alam, Nabanita Pal, Luna Paul, Malay Dolai , Mahammad Ali	A highly selective and sensitive in vivo fluorosensor for copper(II) without cytotoxicity	Department of Chemistry, Jadavpur University	m_ali2062@yahoo.com ,
P 28	<i>Santanu Ghosh</i>	Thermal spike Engineering of Materials at Nanoscale: A Novel Approach to Modify Physical Properties at Nanoscopic Level	<i>Nanotech laboratory, Indian Institute of Technology Delhi</i>	ghoshsantanul@yahoo.co.in ,
P 29	Susobhan Paul* and Asim Kumar Ghosh	Scaling Behavior of the Staggered Field Induced Spin Gap of the XXZ Antiferromagnetic Chain	Department of Physics, Jadavpur University	suso.phy.paul@gmail.com ,
P 30	Partha Chatterjee	The role of microstructure modeling in the determination of stacking fault energy of pure metals and alloys from X-ray diffraction data	Department of Physics and Electronics Vivekananda Mahavidyalaya	drchatterjee@yahoo.co.in ,
P 31	S. Sarkar , N.S. Das and K.K. Chattopadhyay	Fabrication of ultra-smooth BiVO ₄ thin films: Optical and dielectric properties	Thin Film and Nanoscience Laboratory, Dept of Physics, JU	subrata1998@gmail.com ,
P 32	Abhijit Biswas , Rikta Kundu and Swati De	Synthesis of Gold Nanoparticles in Niosomes	Department of Chemistry, University of Kalyani	swati_de1@rediffmail.com ,
P 33	P. K. Ghosh ¹ A. Sarkar ¹ and K. K. Chattopadhyay	Temperature dependent morphological and optical characterizations of ZnS nanostructured grown via rf-magnetron sputtering technique	¹ Department of Physics, Abhedanada Mahavidyalaya, Sainthia, Birbhum	pkg_ju@yahoo.co.in ,
P 34	Sumanta Kumar Ghosh , Md. Farooque Abdullah , Asim Halder & Arup Mukherjee	Flourescent Biopolymer Nanocrystals as Bioimaging Probes	Department of Chemical Technology University of Calcutta	arupm1234@gmail.com ,
P 35	Md. Farooque Abdullah , Sumanta Kr Ghosh , Asim Halder, Amalesh Samanta, Arup Mukherjee	Broad Spectrum Bactericidal Bio-nano Composite Films for Pharmaceutical and Related Applications	Dept of Chemical Technology, Division Pharmaceutical & Fine Chemical Technology, CU	arupm1234@gmail.com ,
P 36	Sangita Bhattacharjee^{1a}, Bipasha Das^{2b} , Chiranjib Bhattacharjee	Studies on Separation of Whey Proteins and Lactose from Casein Whey in a Tangential – Flow Ultrafiltration Module	^a Chemical Engineering Department, Heritage Institute of Technology, Kolkata	sangita.bhattacharjee@yahoo.co.in ,

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P 37	Subhabrata Chakraborty¹, Soumya Mukherjee² , Siddhartha Mukherjee	MORPHOLOGICAL EVOLUTION OF BISMUTH FERRITE AND YTTRIUM DOPED BISMUTH FERRITE: A COMPARATIVE STUDY	School of Materials Science and Nanotechnology, Jadavpur University	sm_n4@yahoo.co.in,
P 38	D.K.Behera	AN EXCURSION IN PARALLEL MACHINE SCHEDULING THEORY	JadavpurUniversity,Kolkata	dkb_igit@rediffmail.com,
P 39	Sanat Karmakar¹ and Rumiana Dimova	Interaction of the Antimicrobial Peptide NK-2 on Phospholipid Vesicles: A Zeta Potential Study	¹ Department of Physics, Jadavpur University, Kolkata 700 032, India	sanatkarmakar@yahoo.co.in,
P 40	PRABAL GIRI^a & CHURALA PAL	GREEN CHEMISTRY: A STRATEGY TOWARDS SUSTAINABLE DEVELOPMENT	^a Faculty member, Department of Chemistry, Guskara Mahavidyalaya, Burdwan	prabalgiri@yahoo.co.in,
P 41	Somnath Garai	Design and Stabilization of an Inverted Pendulum System		somnathgarai29@gmail.com,
P 42	Arundhati Sengupta and S. Ram	Magnetodielectrics in $Zr_{1-x}Cr_xO_2$ ($x \leq 0.2$) nanocrystallites from a polymer precursor	Materials Science Centre, Indian Institute of Technology, Kharagpur	arundhati176@gmail.com,
P 43	Sudeshna Datta, Prof. Priyabrata Sarkar	A biosensing method with gold nanoparticles-tyrosinase immobilized eggshell membrane for determination of total polyphenols in tea	Biosensor Laboratory Department of Polymer Science and Technology University of Calcutta	sarkarpriya@yahoo.com , sudeshnadatta@yahoo.com ,
P 44	Molly Dutta Gupta¹ and Anuradha Mukhopadhyay	Temperature Dependence of Dielectric Behaviour of Two Mesogens	Department of Physics, Jadavpur University	anuradha_mukhopadhyay@yahoo.com,
P 45	Koushik Sarkar¹ and Anuradha Mukhopadhyay	OPTICAL PROPERTIES OF TWO LIQUID CRYSTAL COMPOUNDS A COMPARATIVE STUDY	Department of Physics , Jadavpur University	anuradha_mukhopadhyay@yahoo.com,
P 46	Moumita Mukherjee¹ and Subhodip Ghosh	Si/3C-SiC Based Solid-State THz-Source: Studies on Ohmic Contact Resistance of p-/n-3C-SiC	Centre for Millimeter-wave Semiconductor Devices and Systems (CMSDS) University of Calcutta,	mm_drdo@yahoo.com,
P 47	Bipa Datta , Arnab Das, Samiran Chatterjee, Bipadatan,Sinhamahapatra, Supriya Jana, Moumita Mukherjee, Santosh Kumar Chowdhury	Design of Compact Patch Antenna for Multi-Band Microwave Communication	ECE Department, West Bengal University of Technology, Brainware Group of Institutions, Barasat	bipa.datta@gmail.com, u_call_arnab@yahoo.co.in, samiranengineer@gmail.com, mm_drdo@yahoo.com, santoshkumarchowdhury@gmail.com,
P 48	D. Nawn, D. Banerjee and K. K. Chattopadhyay	Effect of inter-electrode distance on field emission properties of conducting polymer modified by trace amount of low temperature synthesized amorphous carbon nanotubes	School of Materials Science & Nanotechnology, Jadavpur University	kalyan_chattopadhyay@yahoo.com , debaleena.nawn@gmail.com ,

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P 49	P. Deb	Synthetic Seed – A Novel Approach in Production of Quality Planting Material in Banana	Department of Crop Improvement, Horticulture and Agricultural Botany Palli Siksha Bhavana (Institute of Agriculture), Visva Bharati	debprld@yahoo.com,
P 50	Sagnik Das, Saikat Maitra, P. K. Singh, K. Bhattacharjee ^a , G. C. Das	Effect of oxygen partial pressure on the photoluminescence properties of nano ZnO in the thin film and powder form synthesized through sol-gel technique	Govt. College of Engg. & Ceramic Technology, 73, A.C Banerjee Lane, Kolkata-700010, India	gopesdas@yahoo.co.in,
P 51	Susmita Misra * and S. Ram	Frequency and temperature dependence of dielectric constant in $\text{Li}_{0.5(1-x)}\text{Zn}_x\text{Fe}_{(2.5-x/2)}\text{O}_4$ ($x \leq 1.0$) nanopowders	Materials Science Centre, Indian Institute of Technology-Kharagpur	susmitamisra6@gmail.com,
P 52	Arindam Bhattacharyya and Buddhadev Pal	VOLUME OF A TETRAHEDRON REVISITED	Department of Mathematics Jadavpur University	arin1968@indiatimes.com, buddha.pal@rediffmail.com,
P 53	Abhijit Mondal	Removal of Cobalt using Pseudo-Emulsion Based Strip Dispersion in Hollow Fiber Contactor	Dept. of Chemical Engineering, Jadavpur University	abhijitju17@gmail.com,
P 54	Budhaditya Bhattacharyya	Analysis of Adaptive Cyclic Prefix on OFDM based Next Generation Broadband Communication	Department of Electronics and Telecommunication Engineering, Jadavpur University	bhattacharyya.budhaditya@gmail.com,
P 55	Dipanjani Ghosh, Ujjaini Sarkar	Evaluation of unusual levels of Sulfur Dioxide (SO_2) at a surface site of Kolkata using Hybrid Single Particle Lagrangian Integrated Transport (HYSPLIT) Model	Department of Chemical Engineering, Jadavpur University	dghosh23@gmail.com, usarkar@chemical.jdvu.ac.in, abhi_nandan47@rediffmail.com,
P 56	Somdutta Singha , Debashree Banerjee, Ujjaini Sarkar	Modification of Granular Activated Carbon by HNO_3 in search for new adsorbent materials: Compare the Adsorption properties with Polar and Non-polar Pollutants	Department of Chemical Engineering JADAVPUR UNIVERSITY	usarkar@chemical.jdvu.ac.in, abhigyan@hotmail.com,
P 57	Debreka Ghosh, Ujjaini Sarkar	Photolytic Rate Constant of Nitrogen dioxide (\dot{J}_{NO_2}): Estimation using Tropospheric Ultraviolet-Visible Radiation Model	Department of Chemistry, Jadavpur University	usarkar@chemical.jdvu.ac.in, abhi_nandan47@rediffmail.com,
P 58	Subhasish Das ¹ , Sudipta Ghosh ² , Rajib Das ³ and Asis Mazumdar	Clear water scour around two eccentric circular and square cylinders	Lecturer, School of Water Resources Engineering, Jadavpur University	swreju@yahoo.co.in,

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P 59	Ankan Guria	Design of Heat Treatment Cycles: A Case Study for Salt Bath Hardening of BEARING STEEL	Metallurgical and Materials Engineering Department, Jadavpur University	ankanguria.ju@gmail.com,
P 60	B.C. Giri and T. Maiti	Multi-manufacturer single-retailer supply chain problem for multiple brands of an item under price and warranty period-dependent demand	Department of Mathematics, Jadavpur University	tarun.ju@gmail.com,
P 61	Shaswata Mukherjee, Saroj Mandal, UdaiBhanu Adhikari	Self-Healing of High Volume Fly Ash Concrete	Dept. of Civil Engineering, Jadavpur University	shaswataa@yahoo.co.in ,
P 62	Shamba Chatterjee^{1*}, Sudipta Giri², Anindita Sen², Anyatama Banerjee	Involvement of enzymes in bacterial census and censorship: a quorum-quenching approach	Department of Biotechnology, Haldia Institute of Technology	shambac@gmail.com ,
P 63	Moumita Maiti, ¹Surajit Sinha, ²Krishna Chattopadhyay, ¹Brajadulal Chattopadhyay	Effective Amelioration of Curcumin against Nicotine Induced Toxicity on Protein Malnourished Female Rats	Department of physics, Jadavpur University	bdc_physics@yahoo.co.in,
P 64	B. Biswas ^o , S. Debnath	Relativistic Scattering States Solutions Of The Klein-Gordon Equation For The Ring Shaped Hartmann Potential	Department of Mathematics, Jadavpur University	bijonju85@gmail.com,
P 65	Soumyadipta Rakshit, Sayantani Chall, S.P.Moulik, Subhash Chandra Bhattacharya	Anion rich Catanionic Surfactant Induced Morphosynthesis of Nickel Oxalate and their corresponding Oxide for Application in Photocatalysis	Department of Chemistry, Jadavpur University	soumyajurocks@gmail.com,
P 66	Sumit Bhowmik, Prasanta Sahoo, Sanjib Kumar Acharyya, Sankar Dhar	Comparative study of fracture toughness in ductile to brittle transition region of 20MnMoNi55 steel	Department of Mechanical Engineering, Jadavpur University	bhowmiksumit04@yahoo.co.in ,
P 67	Supriyo Roy* and Prasanta Sahoo	Surface Roughness Optimization of Electroless Ni-P-W Coating Based on Taguchi Method	Department of Mechanical Engineering, Jadavpur University	supriyoroy11@gmail.com ,
P 68	Santanu Duari* , Tapan K Barman, Prasanta Sahoo	Friction and Wear Behavior of Electroless Ni-P Coatings under Lubrication	Department of Mechanical Engineering, Jadavpur University	santanu_duari@yahoo.co.in,
P 69	Sudipta Majumdar, ¹Manas Sarkar, ¹Trinath Chowdhury, ¹Brajadulal Chattopadhyay, ²Saroj Mandal	Use of a novel bacterial protein-bioremediase for better construction material	Department of Physics, Jadavpur University, Kolkata-32, India.	bdc_physics@yahoo.co.in ,
P 70	Anindita Kundu, Prasun Chowdhury, Iti Saha Misra, Salil K. Sanyal	Power Optimization in Cognitive Femto Base Stations using Non-Cooperative Game Theory	Department of Electronics and Telecommunication Engineering, Jadavpur University	kundu.anindita@gmail.com,
P 71	Ms.Reshmi Naskar	Mobile Phones and New Media Technology in Electoral Monitoring and Democratic participation in Sustainable Development	Dept .of Media Science , NSHM Institute of Media and , Kolkata and Research Scholar, Visva Bharati	dalal.reshmi@gmail.com , reshmi.dalal@nshm.com ,

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P 72	M K Das^{1*} , K Kumar ² , T K Barman ¹ , P Sahoo	Modeling of MRR in WEDM on EN 31 Tool Steel Using Response Surface Methodology	¹ Department of Mechanical Engineering, Jadavpur University, Kolkata, India	milanpdas@gmail.com ,
P 73	Priyambada Nayak¹ , Kashi Nath Saha	Effect of disk geometry on limit angular speed of rotating non-uniform disks under high Ptemperature	Mechanical Engineering Department, Jadavpur University	priyambada53@gmail.com , kashinathsaha@gmail.com ,
P 74	Tamal Chakraborty	Analysis of Critical Factors for Successful Implementation of VoIP Applications in Cognitive Radio Networks	Research Scholar, Department of Electronics and Telecommunication Engineering, Jadavpur University	tamalchakraborty29@gmail.com ,
P 75	Anindita Dev[*] , Ruma Basu ² , Sukhen Das ¹ , Papiya Nandy	Enhancement of storage and energy conversion efficiency in photoelectro chemical cell: effect of dyes adsorbed on carbon nano tubes	Department of Physics, Jadavpur University	sunimondal@yahoo.com ,
P 76	Santanu Sarkar^a , Jigisha Roy^a , Ranjana Das Mondal^a , Chiranjib Bhattacharjee	Reaction kinetics involves in photocatalytic oxidation of chlorhexidine digluconate, a pharmaceutical waste	Department of Chemical Engineering, Jadavpur University	cbhattacharyya@chemical.jdvu.ac.in , c.bhatta@gmail.com ,
P 77	Debasis Roy¹ , Biswajay Bagchi, Sukhen Das ^{1*} , Papiya Nandy	Possibility of decreasing the activation energy of resistivity of mullite by doping with nickel ion	¹ Physics Department, Jadavpur University.	debasis35@yahoo.co.in ,
P 78	Swarniv Chandra[*] and Basudev Ghosh	Sustainable Development through Innovative Research in Science and Technology: what everyone should remember	¹ Physics Department, Jadavpur University	swarniv147@gmail.com ,
P 79	S. Santra¹ , N. S. Das ¹ and K. K. Chattopadhyay	Sol-gel synthesized CuBO ₂ Nanocrystals: tuning particle size with synthesis parameter	¹ Thin Film & Nanoscience Laboratory, Department of Physics, Jadavpur University, Kolkata- 700 032, India	kalyan_chattopadhyay@yahoo.com ,
P 80	Soumya Sundar Mati, Arindam Sarkar , Subhash Chandra Bhattacharya	Divergence behavior of Igepal and C _n TAB micelles on the photophysics of nonsteroidal drug Naproxen	<i>Department of Chemistry, Jadavpur University,</i>	soumyamati@gmail.com ,
P 81	S. Maity^a , A. Jha^b , N. S. Das ^b , K. K. Chattopadhyay	Improvement of field emission properties of amorphous carbon nanotubes by functionalization with barium/strontium carbonate	^a Thin Film and Nanoscience Laboratory, Department of Physics Jadavpur University, Kolkata- 700 032, India	kalyan_chattopadhyay@yahoo.com ,
P 82	D. Banerjee and K. K. Chattopadhyay	Efficient field emission properties of SnO ₂ -amorphous carbon nanotube system	School of Materials Science & Nanotechnology, JU, Kolkata 700032,	nilju82@gmail.com ,
P 83	N. S. Das¹⁾ , S.Santra ²⁾ , G. C. Das ²⁾ and K. K. Chattopadhyay	Synthesis of polycrystalline CdO nanowire thin film via simple wet chemical route for optical applications	² Thin Film and Nanoscience Laboratory, Department of Physics Jadavpur University, Kolkata- 700 032, India	nirmalya.sankardas@gmail.com ,
P 84	Shouvik Ghosh[*] , Prasanta Sahoo, Goutam Sutradhar	Friction performance optimization of Al-7.5% SiCp metal matrix composite using Taguchi method	Department of Mechanical Engineering, Jadavpur University	sgme86@gmail.com ,

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P 86	Soumyajit Biswas	CARBON SEQUESTRATION POTENTIAL OF A DRY DECIDUOUS FOREST IN JHARKHAND DEVELOPED WITH SUSTAINABLE INTERVENTION	Regional Centre National Afforestation & Eco-Development Board, Ministry of Environment of Forests, Govt. of India, JU	asismazumdar@yahoo.com ,
P 87	Sabita Ghosh & Gautam Das	Indentation fracture toughness and finite element simulation of ball indentation to assess damage induced due to creep and fatigue on CP Cu sample	CSIR National Metallurgical Laboratory, Jamshedpur	sabita_ghosh@rediffmail.com ,
P 88	Poonam Das ¹ , Anindita Dey ¹ , Ruma Basu ² , Sukhen Das ¹ , Papiya Nandy ¹	Preparation of Copper doped Zinc Oxide nanoparticles and its application on thermovoltage generation	Physics Department, Jadavpur University	sukhendas.pdas@gmail.com ,
P 89	Biswajoy Bagchi, Subrata Kar, Sukhen Das, Papiya Nandy	In Situ Synthesis of Copper Nanoparticle Loaded (adsorbed and intercalated) Montmorillonite for Therapeutic Applications	Physics Department, Jadavpur University	sukhendas.pdas@gmail.com ,
P 90	Subhajit Ghosh , Anindita Mondal, Ruma Basu*, Sukhen Das and Papiya Nandy	INCREASE OF LIPOSOMAL MEMBRANE ANISOTROPY - EFFECT OF OXIDIZED MULTIWALLED CARBON NANOTUBES (OMWCNTs)	Physics Department, Jadavpur University	sukhendas.pdas@gmail.com ,
P 91	Debasish Mandal , Abhijit K. Das	Mechanism and Kinetics for the Reaction of O(³ P) with DMSO: A Theoretical Study	<i>Department of Spectroscopy, Indian association for the Cultivation of Science</i>	spdm@iacs.res.in , debu1500@gmail.com ,
P 92	Sutapa Ganguly ^a , Sukhen Das ^{a*} , Sujata GhoshDastidar	Antimicrobial effects of an anticancer drug oxaliplatin against ten pathogenic bacterial strains and its synergism with synthesized ZnS nanoparticles	<i>Department of Spectroscopy, Indian association for the Cultivation of Science</i>	sukhendajuphy@gmail.com ,
P 93	Suchanda Banerjee and Priyabrata Sarkar	Amperometric Biosensor based on Poly(neutral red) modified Electrode for Estimation of Urea	Department of Polymer Science and Technology, University of Calcutta	suchanda.banerjee@gmail.com ,
P 94	Pabitra Kr. Paul and Chaitali Hansda	Miscibility studies of non-amphiphilic pyrene and stearic acid at the air-water interface - formation of mixed Langmuir monolayer	Department of Physics, Jadavpur University, Jadavpur	pkpaul@phys.jdvu.ac.in ,
P 95	Susanta Kumar Samanta [*] , Ranjit Kumar Majumdar and Sonalika Chowdhury	Gravity induced slope failure in homogeneous isotropic and layer anisotropic medium: insights from finite element modeling	Department of Geological Sciences, Jadavpur University	susanta_ju@hotmail.com ,
P 96	Pallab S. Mahapatra , Nirmal K. Manna, Koushik Ghosh	Numerical Study of Fragmentation and Mixing of Particle Cluster in Quiescent Liquid in PHWR Configuration	Department of Mechanical Engineering, Jadavpur University	pallabju@gmail.com , nirmalmanna@yahoo.co.in , kghosh@mech.jdvu.ac.in ,

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P 97	Subhendu Bardhan^{*1}, Sumanta Mallick¹, Shiladri S. Das² , Subhronil Mondal ³ and Rakhi Dutta	Oldest naticid (Gastropoda) predation from the Oxfordian (Upper Jurassic) of Kutch, Gujarat and its Palaeoecological significance	Department of Geological Sciences, Jadavpur University	s_bardhan01@yahoo.co.uk,
P 98	Gopal Paul ^a , Anirban Das^a , Subhendu Bardhan ^{a*} , Subhronil Mondal	Predation on Recent turritelline gastropods from Indian subcontinent and comparison with revised global database	Department of Geological Sciences, Jadavpur University	s_bardhan01@yahoo.co.uk,
P 99	Sumanta Mallick^{1*}; Subhendu Bardhan¹; Pritha Goswami¹ , Shubhabrata Paul	Naticid drilling predation on cerithid gastropods from below the K-T boundary in Rajahmundry, Andhra Pradesh	Department of Geological Sciences, Jadavpur University	sumanta.geol87@gmail.com,
P 100	Ranjit Kumar Majumdar[*], Susanta Kumar Samanta , Vishal Cheetri Kharkongor, Sirsendu Kar and Indrasish Deb	Slope stability analysis in some parts of Kurseong region: insights from geological and geophysical resistivity field method	Department of Geological Sciences, Jadavpur University	ranjit_mazumdar2000@yahoo.co.in,
P 101	Joyati.Das, Priyabrata.Sarkar	Field test kit for arsenic in ground water	Department of Polymer Science and Technology, University of Calcutta,	sarkarpriya@yahoo.com,sarkarpriya@gmail.com,
P 102	B. Ghosh, S. Hussain ¹ , D. Ghosh, D. Chakraborty, R. Bhar and A. K. Pal [*] ,	Growth of CdTe films by pulsed laser deposition technique	Department of Instrumentation Science, USIC Building, Jadavpur University, Calcutta-700 032, India.	msakp2002@yahoo.co.in,
P 103	B. Ghosh, D. Ghosh, S. Hussain ¹ , S. Chaudhuri, R. Bhar and A. K. Pal	Growth of ZnTe films by pulsed laser deposition technique	Department of Instrumentation Science, USIC Building, Jadavpur University, Calcutta-700 032, India.	msakp2002@yahoo.co.in,
P 104	DebabrataSarkar^{* a)}, SatyakiGoswami^{b)} , ChandanGhosh ^{a)} and Kalyan K. Chattopadhyay	Growth of flower-like TiO ₂ nanostructured films on arbitrary substrates	Thin Film & Nanoscience Laboratory, Department of Physics, Jadavpur University, Kolkata	deboo_phy@yahoo.com,kalyan_chattopadhyay@yahoo.com
P 105	Debasish Shome ¹ & Gopal Chakrabarti	Geochemistry of late Palaeoproterozoic shales from the epicratonic Cuddapah basin, India: implications for provenance, tectonic setting and weathering history	¹ Department of Geological Sciences, Jadavpur University, Kolkata	nag_sk@yahoo.com,
P 106	Sounak Ranjan Das, Puja Kumari, Somenath Chanda, Tamalika Chakraborty, Sourav Bose, Sudipto Goswami and Sankar Narayan Patra	Optimization of Noise Presence in Time Series using Empirical Mode Decomposition and Hilbert Transform	Department of Applied Electronics and Instrumentation Engineering, University institute of Technology, University of Burdwan, Golapbag (North), Burdwan-713104	sankar.journal@gmail.com,
p 107	Avijit Chowdhury, Bipul Biswas, Raghu Nath Bera and Biswanath Mallik	Gas Sensing Property of Organic-Inorganic Heterojunction	Department of Spectroscopy, Indian Association for the Cultivation of Science (IACS)	spbm@iacs.res.in,
p 108	Bipul Biswas , Alope Kumar Chakraborty [#] , Manisree Majumder, Avijit Chowdhury, Manik Kumar Sanyal, Biswanath Mallik	Observation of conductivity switching in surface electrical conductivity of poly(methyl methacrylate) thin films	Department of Spectroscopy, Indian Association for the Cultivation of Science (IACS)	spbm@iacs.res.in,

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P 109	Abiral Tamang, Srijoni Banerjee and Brajadulal Chattopadhyay	Effective control of hyperglycemia by water extract of the root of a Himalayan orchid <i>Datylorhiza hatageria</i> (D. Don) Soo in diabetic albino rats	Department of Physics, Jadavpur University	bdc_physics@yahoo.co.in, abiral.tamang@yahoo.com,
P 110	Soumen Maiti ¹ , Arindam Sen ¹ , Uday Narayan Maiti ^{1,2} and Kalyan Kumar Chattopadhyay	Realization of 1-D zinc oxide via ambient conditioned, one pot, aqueous chemical route: Candidate for field emitter cold cathode and photodetector	¹ Thin Film & Nanoscience Laboratory, Jadavpur University	kalyan_chattopadhyay@yahoo.com,
P 111	Souvick Chatterjee* , Mithun Das , Soumik Mahapatra, Achintya Mukhopadhyay, Swarnendu Sen	EXPERIMENTAL INVESTIGATION OF ATOMIZATION IN A HYBRID INJECTOR	Department of Mechanical Engineering, Jadavpur University, Kolkata- 700 032, India	souvickchat@gmail.com,
P 112	Srimanta Pakhira , Chandan Sahu , Kaushik Sen and Abhijit K. Das	Can two T-shaped isomers of OCS-C ₂ H ₂ van der Waals complex exist?	Dept of Spectroscopy, IACS, Jadavpur 700 032.	srinantacu@yahoo.co.in,
P 113	Mithun Das , Souvick Chatterjee , Soumik Mahapatra, Achintya Mukhopadhyay, Swarnendu Sen	Experimental Investigation and Spray Characterization of Diesel, Biodiesel & their Blends	Department of Mechanical Engineering, Jadavpur University, Kolkata- 700 032, India	mdas190@gmail.com,
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P 115	Anirban Kundu Chowdhury ^{1*} , Anupam Debsarkar ² , Shibnath Chakrabarty	Temporal and spatial correlation between traffic generated PM ₁₀ , PM _{2.5} , NO ₂ and noise in the street canyons of Kolkata city, India	Department of Civil Engineering, Environmental Engineering Division, Jadavpur University	anikc13@yahoo.co.in,
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p 120	S. Biswas, R. Ray	Semiconducting properties of a ferromagnetic nanocomposite: ZnO/Fe	Dept of Physics, Jadavpur University, Jadavpur, Kolkata 700 032, India	juphyruma@gmail.com
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