

Indo – Norwegian International online conference on			
<u>F</u>unctional m<u>A</u>terials <u>F</u>or energy, environment <u>A</u>nd			
biOmedical applicatioNs"			
(FARAON - 2022)			
	2 February 2022, Wednesday		
IST			
12:00 - 12:15	Participant registration (Login)		
	Inaugural Function		
	Dr. Merethe Sandberg, NFR, Norway		
	Dr. Sivaji Chadaram, Scientist-G, DST, Government of India		
	Dr. Maan Singh Sidhu, Counsellor for Science, Technology and Higher Education, Royal Norwegian Embassy		
	Dr. Muthu Manickam, Scientist-G (DRDO), Avadi, Chennai, India		
12:15 - 12:50	Dr. Arve Holt- Director, IFE, Norway		
	Dr. D. Karthikeyan, IAS, Principal Secretary, Higher Education Department, Tamil Nadu, India		
	Dr. Klaus Magnus Håland Johansen, Head of SMN, UiO, Norway		
	Prof. V.S. Vasantha, Registrar (i/c), Madurai Kamaraj University, India		
	Dr. Smagul Karazhanov, Institute for Energy Technology, Norway		
	Prof. Terje Finstad, University of Oslo, Norway		
	Prof. S. Murugesan, Madurai Kamaraj University, India		
	Dr. J. Annaraj, Madurai Kamaraj University, India		
Plenary Session			
Session chairs:			
	Plenary 01:		
12:50 - 13:50	Prof. Truls Norby, University of Oslo, Norway		
	Proton Ceramics for Energy Applications		
	Session break 5 minutes		
	Plenary 02:		
13:55 - 14:55	Dr. Suraj Soman, CSIR- National Institute for Interdisciplinary Science and Technology, India.		
	Demystifying Indoor Photovoltaics: A New Home for Dye Cells		
	Coffee break 10 minutes		







*FARACN [®]			
Parallel Session	Session 1: PV	Session 2: Energy Storage	Session 3: Environment
Session chair:			
15:05 - 15:35	Invited 01	Invited 02	Invited 03:
	Dr. Alexander Ulyashin, SINTEF Industry, Norway Recycling of Si based PV panels	Dr. Svein Kvernstuen, Beyonder AS, Norway World's first sustainable battery cell	Prof. Bjørn Hauback, Institute for Energy Technology, Norway Multifunctional
		based upon activated carbon from sawdust.	metal hydrides for energy storage applications.
15:35 - 16:05	Invited 04 :	Invited 05:	Invited 06 :
	Mr. Sandeep Dixit, Adani Power Ltd., India Photovoltaic modules	Dr. Kuldeep Singh, CSIR - Central Electro Chemical Research Institute, India	Dr. T.N. Narayanan, Tata Institute of Fundamental Research Hyderabad, India
	and installations	Energy storage materials	Engineering Interfaces towards Catalysis
	Lunch/Sess	ion break – 45 minutes	
Plenary Session Session chair:	1		
16:50 - 17:50	 Plenary 03: Prof. S. Sampath, Indian Institute of Science, India Organic and Inorganic Materials for Electrochemical Energy Storage 		
	Session	n break 5 minutes	
Parallel	Session 1: PV	Session 2: Energy	Session 3:
Session Session chair:	systems ++	Storage	Environment
17:55 - 18:25	Invited 07:	Invited 08:	Invited 09:
	Prof. Tobias Boström, The Arctic University of Norway, Norway	Dr. R. Vaidhyanathan, Indian Institute of Science Education and Research, India	Dr. Per-Anders Hansen, Institute for Energy Technology, Norway
	Nationwide pure PV- EV system	Covalent Organic Framework (COF) for Energy Storage	Solar photo catalysis in oxide films by photon up-conversion









18:40 - 18:55	time domain (FDTD) method Participant Oral OP PV -02: Dr. P. Venkatachalam Annamalai University, India Photovoltaic study	density Participant Oral OP ES -12 S. Kumaraguru Department of Chemistry, SRM Institute of Science and Technology, India	Participant Oral OP PEB -20 Dr. M. Maghimaa Muthayammal College of Arts & Science, Rasipuram Phyto-mediated
	of silver doped titanium nanoparticles photoanodes in DSSCs	Enhanced Cycling Behavior of Cubes-like NiO-Co3O4-MnCo2O4 oxide as an Adequate, Competent and Robust Negative Electrode Material for Li-ion Batteries	nanoparticles synthesis and coating on the fabrics for antimicrobial potential and wound healing property
	Coffee	break 10 minutes	property







FARACN			
3 February 2022, Thursday			
12:10 - 12:30	Participant registration (Login)		
Plenary Session	ı		
Session chairs:			
12:30 - 13:30	Plenary 04: Dr. Fride Vullum-Bruer, SINTEF Energy AS, Norway Energy storage in phase change materials for medium to cold temperatures and potential for industrial applications		
	Session	break 10 minutes	
13:40 - 14:40	Plenary 05: Dr. Vijayamohanan Pillai, Indian Institute of Science Education and Research, Tirupati, India Applications of Two Dimensional Materials for Renewable Energy Storage		
	Coffee	break - 5 minutes	
Parallel Session	Session 1: PV	Session 2: Energy Storage	Session 3: Environment
Session chair:			
14:45 -15:15	Invited 10: Dr. Saravanan Somasundaram, RenewSys India Pvt. Ltd., India (Industry) Overview on Silicon Solar Technology Developments	Invited 11: Fredrik Ringnes, COO, Hagal AS, Norway Sustainable production of reusable batteries	Invited 12: Prof. Deepa Khushalani, Tata Institute of Fundamental Research, India Effective Sea Water Splitting – Myth or Reality
15:15 - 15:45	Invited 13: Prof. Tor Oskar Sætre, University of Agder, Norway. Role of Grain boundaries in Si solar cells	Invited 14: Dr. Ulaganathan Mani, AcSIR, CSIR-CECRI Karaikudi, India. All Vanadium Redox Flow Battery - A High Energy Storage Device for Off-Grid Applications	Invited 15: Prof. Alejandro Escalona , University of Southern Norway Towards a sustainable subsurface value chain: NCS2030 National Research Center

Madurai Kamaraj University





15:45 - 16:00	Participant Oral	Participant Oral	Participant Oral	
	OP PV -03	OP ES -13	OP PEB -21	
	Nandhakumar Eswaramoorthy Vellore Institute of	G. Muthulakshmi Presidency College Chennai, India	Sivagowri Shanmugaratnam Western Norway	
	Technology, Vellore Flexible Perovskite solar cells: waste PET bottles Carbon with 1D g-C3N4 nanosheets incorporated TiO2 as hybrid electron transport layer	Investigation of electrochemical properties of SnO2/MoS2 Nanocomposties for supercapacitor applications	University of Applied Sciences Electrocatalytic Water oxidation of Metal chalcogenide (MS2: M=Co, Ni, Sn) embedded TiO ₂ nanocomposite	
	Lunch/Sess	ion break – 45 minutes		
Plenary Session Session chair:				
16:45 - 17:45	Plenary 06: Dr. Rajendrakumar Sharma, SPEL Technologies Pvt. Ltd., Pune, India Generation Next Supercapacitors – A Disruptive Technology			
Session break 5 minutes				
	Session	break 5 minutes		
Session	Session Session 1: PV	break 5 minutes Session 2: Energy Storage	Session 3: Environment	
		Session 2: Energy		
Session		Session 2: Energy		
Session Session chair:	Session 1: PV Invited 16: Prof. Dhayalan Velauthapillai, Western Norway University of Applied Sciences, Norway	Session 2: Energy Storage Invited 17: Prof. S.R.S. Prabaharan, CEO, Inventus Bioenergy Pvt., Ltd., Chennai, India Protected Lithium Metal Anode Cassette (PLC) for All-Solid State	Environment Invited 18: Dr. Viktoriya Yarushina, Institute for Energy Technology, Norway CCS & hydrogen	
Session chair: 17:50 - 18:20	Session 1: PV Invited 16: Prof. Dhayalan Velauthapillai, Western Norway University of Applied Sciences, Norway Perovskite Solar cell	Session 2: Energy Storage Invited 17: Prof. S.R.S. Prabaharan, CEO, Inventus Bioenergy Pvt., Ltd., Chennai, India Protected Lithium Metal Anode Cassette (PLC) for All-Solid State Rechargeable Batteries	Environment Invited 18: Dr. Viktoriya Yarushina, Institute for Energy Technology, Norway CCS & hydrogen storage	







	Coffe	e break 10 minutes	
19:00 - 19:15	Participant Oral OP PV -04:	Participant Oral OP ES -14:	Participant Oral OP PEB -22
	Anurag Roy University of Exeter, UK Replacement of Pb with Cu in Perovskite Solar Cells – Possibilities and Performance	Dr. M. Malarvizhi K.S.Rangasamy College of Technology, Tiruchengode, India Design and fabrication of flexible asymmetric hybrid supercapacitor using groundnut shell derived activated carbon and metal ferrite electrodes	Dr. C. Balaji Ayyanar Coimbatore Institute of Technology An in-vitro Investigation of Plant extracts Blended PVA Bio Membrane
19:15 - 19:30	Participant Oral OP PV -05: Wanniarachchige Chapa Pamodani: Western Norway University of Applied Sciences Ab initio investigation of the optoelectronic properties on Cs2AgBiX6 (X = Br, Cl, F, I) Mixed Anion Perovskites	Participant Oral OP ES -15: Dr. S. Meyvel Chikkaiah Naicker College, Erode, India Facile synthesis of Zinc Cobalt Sulfide nanoparticles as an electrode material for high performance supercapacitor Applications	Participant Oral OP PEB -23 Sangeeta Mahala Center of Innovative and Applied Bioprocessing Mohali, Punjab, India Conversion of biomass derived glucose into fructose towards synthesis of energy fuel precursors
19:30 - 20:30	Poster session 2 PP PV 001 to PP PV 024 PP ES 025 to PP ES 062 (Details of the posters at the end of the table)		







4 February 2022, Friday				
12:10 - 12:30	Participant registration (Login)			
Plenary Session Session chair:				
12:30 - 13 :30	Plenary 07: Dr. Erik Marstein, Institute for Energy Technology, Norway Recent advances in crystalline silicon technology Session break 5 minutes			
Parallel Session	Session 1: PV	Session 2:	Session 3:	
Session chair:				
13:35 - 14:05	Invited 22: Prof. Parameswar K. Iyer, ÍIT Guwahati, India, Strategies influencing perovskite and polymer photovoltaic device performances and stability	Invited 23: Dr. Per Ohlckers, nanoCaps AS, Norway Supercapacitors	Invited 24: Dr. Richard Blom, SINTEF Energy AS, Norway Carbon capture with nano-porous adsorbents	
14:05 - 14:35	Participant Oral OP PV -06: G. Kiruthiga, Avinashilingam Institute for Home Science and Higher Education for Women, CBE, India SnO ₂ : Investigation of optical, structural and electrical properties of transparent conductive oxide thin films Prepared by nebulizer spray pyrolysis for large scale perovskite solar cell applications	Invited 26: Dr. Santanu Das, Indian Institute of Technology (BHU), India Materials for electrocatalysis for hydrogen generation	Invited 27: Dr. Chidambaram Mandan, Hindustan Platinum Pvt. Ltd., India Precious Metal Catalysts as Functional Materials for Biomedical/ Medical/API Applications	









FARACN			
	OP PV -07:		
	Tharmakularasa Rajaramanan		
	Western Norway University of Applied Sciences		
	Facile synthesis of Ni-doped, N-doped and Ni/N co-doped TiO ₂ nanomaterials for DSSC application		
14:35 - 14:50	Participant Oral	Participant Oral	Participant Oral
	OP PV -08:	OP ES -16	OP PEB -24
	Dr. M. Kandasamy	Dr. R. Yuvakkumar	Dr. K.Kannaki
	K. Ramakrishnan College of Technology, Trichy Photovoltaic Performance of Dye- sensitized	Alagappa University, India Cu doped ZnS nanostructure for water oxidation reaction	Govt Arts & Science College for Women, Barugur, Krishnagiri A Study on Pure and Polymer
	Solar Cells Using Amine- functionalized TiO2 nanobelts as Photoanode Prepared Using A Simple Solution Route		Templated CuO Nano Crystals by Hydrothermal Method for potential Applications
	Coffee	break - 10 minutes	
Parallel Session	Session 1: PV	Session 2:	Session 3: Bio- Materials
Session chair:			
15.00 - 15.30	Invited 28:	Invited 29:	Invited 30:
	Dr. Rune Nordheim, REC Solar Norway AS, Norway	Prof. Steven Boles, Norwegian University of Science and Technology, Aluminum foil anodes for	Prof. Yogesh C Sharma, IIT (BHU), India
	From waste to solar panels	Aluminum foll anodes for lithium-ion batteries	Nano adsorbents for waste water treatment









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15:30 - 15:45	Participant Oral	Participant Oral	Participant Oral	
	OP PV -09	OP ES -17	OP PEB -25:	
	Dr. S. Kumar	Kajana	Dr. R. Anithadevi	
	Sri Vasavi College (SF Wing), Erode, India Fabrication of High	Thirunavukarasu Western Norway University of Applied Sciences, Norway	Easwari Engineering College, Chennai, India	
	Efficiency Semitransparent Nanostructured Perovskite Photovoltaic Cells	Electrochemical Performance of Supercapacitor based on Silver Molybdate Electrode	Antimicrobial Activity of Hybrid ZnMgTiO2 Nanocomposites and undoped ZnO	
15:45 - 16:00	Participant Oral	Participant Oral	Participant Oral	
	OP PV -10	OP ES -18	OP PEB -26	
	Dr. M.R.	Foysal Kabir Tareq	Dr. K. Thenmozhi	
	Venkatraman	University of Agder,	University College	
	Dr. N.G.P. Arts and Science College,	Norway Microstructure and	of Engineering Kanchipuram, India	
	Coimbatore, India Characterization of Plasma Assisted Chemical Vapor Deposited Hydrogenated Carbon (a-C:H) films and Its Solar Cell Characteristics	electrochemical properties of inductively coupled plasma spheroidized nickel silicide powder	A Comparative study on the photocatalytic activity of biosynthesized and commercially available ZnO nanoparticles towards the degradation of methyl orange dye	
	Lunch/Sess	ion break – 45 minutes		
Plenary Sessie	on			
Session chair:				
	Plenary 08:			
16:45 - 17:45	Dr. A.K. Tyagi, Bhabha	Atomic Research Centre, Ind	lia	
	Crystallographically de	esigned nano-catalysis for va	rious applications	
	Session break 5 minutes			

Session break 5 minutes



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Parallel Session	Session 1: Environment	Session 2:	Session 3: Bio- Materials
Session chair:			
17:50 - 18:20	Invited 31: Participant Oral OP PEB -27: Siddhi Jaiswal Dept. of Chemistry IIT BHU, india Synthesis, Characterization & Application of Li/Tio2 Catalyst for the conversion of Glycerol to Glycerol Carbonate OP PEB -28 Dr. V. Prabhu Nallamuthu Gounder Mahalingam College, Pollachi, India Greener synthesis of silver nanoparticles from kabasurakudineer and its anticholine esterase activity	Invited 32: Prof. Helen K. French, Norwegian University of Life Sciences, Norway Sustainable green and smart cities	Invited 33: Dr. K.B. Jinesh, Indian Institute of Space Science and Technology, India Brain-inspired technologies for next-generation artificial intelligence
	Interaction v	vith Funding Agencies:	
18:20 - 19:50	Dr. Muthu Manickam,	Scientist G (DRDO), Avadi	, Chennai, India
18:20- 18:40	Dr. Maan Singh Sidhu , Education, Royal Norw	, Counsellor for Science, Teo egian Embassy	chnology and Higher
18:40- 19:00	Dr. Merethe Sandberg,	, NFR, Norway	
19:20 -20:00	Open discussion with Co	offee break	
20:00 - 20:30		Valedictory address	



Feb 2-4, 2022



	Poster Presentation session 1			
Poster ID	Name	University/ Institution	Abstract Title	
PP PEB063	S.	Sri Paramakalyani	Synthesis and characterization of	
	Rajaduraipandian	college, India	metal oxide polymer nano composite	
PP PEB064	Vinoth S	CSIR-Central	Construction of g-C3N4/BiOF	
		Electrochemical	heterojunction for enhanced	
		Research Institute,	photoelectrochemical water splitting	
		Karaikudi, Tamilnadu	performances based on	
			photochemical environment	
PP PEB065	K.A. Karthick	Thiagarajar College,	Ratiometric fluorescence detection	
		Madurai, India	for Na(I) using triazole-pyridoxal	
			based chemosensor and Solid state	
			sensor app	
PP PEB066	Vijay Jeyakumar	Sri Sivasubramaniya	Testing and Analysis of	
		Nadar College of	Nanoparticle-based Textrodes for	
		Engineering	Physiological Signals	
PP PEB067	Rahul Varma	Alagappa University,	Synthesizing and Characterizing	
		India	Cellulose and Cellulose Nanocrystals	
			from Decaying Seagrass	
PP PEB068	Balaji	SSN College of	Surface engineered cointegrated	
	Dhandapani	Engineering, India	superparamagnetic nanobiochar from	
			waste groundnut residues – Batch	
			and Column studies in the removal	
			of copper and lead ions	
PP PEB069	Lekshmi GS	Anna University,	Eco-friendly synthesis of silver	
		India	nanoparticles integrated oil-derived	
			reduced graphene oxide hybrids as a	
			potential candidate for visible-light-	
			driven photocatalytic degradation of	
			Congo-red dye	
PP PEB070	Nagaraja M	PSNA College of	Pyrolysis of Plastic Waste for a	
		Engineering and	better environmental system	
		Technology, Dindigul		
PP PEB071	S Chitra	Thiru A Govindasamy	Photocatalytic degradation of dyes	
		Govt Arts College	using ZnO nanoparticles prepared by	
			coprecipitation method	
PP PEB072	Tamilarasi K	S.T. Hindu College,	Enhancement on the electrical and	
		Nagercoil	optical behaviour of znfe2o4 nano	
			particles via transition metal	
			substitution	
PP PEB073	Vasantha Kumar	Madurai Kamaraj	Degradation of Methylene Blue	
	Palaniswamy	University, Madurai	(MB) Dye in Aqueous Environment	
			using Copper Vanadate/graphitic	
			Carbon Nitrate (CVO/gCN)	
			Nanocomposite: An Eco-friendly	
			Approach	
PP PEB074	Ashika J Ashok	Mar Ivanios College	Synthesis and Characterization of	
		Nalanchira	Highly Luminescent Carbon Dots:A	
			Green Approach	









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PP PEB075	Milna George	Sahrdaya College of Engineering and Technology	Green synthesized nanoparticles as biofilter media
PP PEB076	Aravinth kumar.K	The Gandhigram Rural Institute – Deemed University	Effect of process temperature on the SrTiO ₃ nanoparticles for Dye- Sensitized Solar Cell Applications
PP PEB077	J.Kabiriyel	The Gandhigram Rural Institute – Deemed University	Optical and thermodynamical properties of Chitosan-CeO ₃ with Neem oil based Bionano Composites
PP PEB078	Koushalya A	Madurai Kamaraj University	Synthesis of MoS2-LaCoO3 nanocomposite for efficient degradation of methylene blue dye under sunlight irradiation
PP PEB079	Adwide Vijai Narayan	Sahrdaya College of Engineering and Technology	Biosurfactant and enzyme mediated degradation of Chrysene
PP PEB080	Vijayakumar T P	Bharathiar University	Hydrothermal Synthesis and Characterization of ZnO Nanoparticles With Photo catalytic Activity
PP PEB081	Balamurugan Arumugam	Thiagarajar College, Madurai	Robust Detection of Antibiotic Sulfadiazine in Food Samples Based on Highly Reactive Pyrochlore type Lanthanum Cerate Nanoparticles modified electrode
PP PEB082	Anju Joseph	St.Thomas college,Ranni	Green Synthesis of Silver Nanoparticles Using Leaf Extract of Chromolaena Odorata and its Antibacterial Study.
PP PEB083	Arun Warrier	Sahrdaya College of Engineering and Technology	Electrochemical Detection Of Anticancer Drug - Sunitinib Malate
PP PEB084	Sivasakthivel R	Electrical and Electronics Engineer	Reuse of Condensate Water from Air Handling Units in Commercial Buildings
PP PEB085	M. P. Jeya	Madurai Kamaraj University	Preparation and Characterization of Ball milled noncarbon Nanomaterial for Heavy Metal ion Detection
PP PEB086	Athira Maria John	Christ(Deemed to be University)	Photophysical studies of fluorescent azo pyridine dyes: A theoretical investigation with experimental validation
PP PEB087	L. Ganesh	The American College	Synthesis and Characterization of Tin (II) Oxide Nanoparticles Using Microwave Method
PP PEB088	Anandhakumari .G	Gobi Arts & science College, Gobichettipalayam.	Photocatalytic properties of SrO-znO Nanocomposites : Synthesis and characterization







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PP PEB089	S Swathi	Alagappa University	Neodymium doped novel barium tungstate nano spindles for enhanced oxygen evolution reaction
PP PEB090	SP Keerthana	Alagappa University	Transition metal (Ni, Co) doped TiO2 for reduction of organic pollutant under photocatalysis
PP PEB091	G. Gowrisankar	Sri Ramakrishna College of Arts and Science	Sn-substituted β-Cu2V2O7 for dye degradation under visible light irradiation
PP PEB092	Sharmila S	JSS academy of higher education and research	The Eco-friendly synthesis of graphene oxide (GO) and its applications
PP PEB093	Pragna M Shivannavar	JSS Academy Of Higher Education & Research	A Blend Of Nanotechnology And Forensic Science : A Comprehensive Review
PP PEB094	Dr. Alagunambi Ramasubbu	Govt. Arts College (Autonomous), Coimbatore – 641018	Synthesis, characterization and biological evaluation of Copper Nanoparticles using Palm Nectar as bioreductant
PP PEB095	A. Srinivasan	Govt. Arts College (Autonomous), Coimbatore- 641018	Green synthesis, characterization and biomedical applications of Copper and Gold Nanoparticles using Cocos nucifera Inflorescence as bioreductant
PP PEB096	R. Karankumar	Govt. Arts College (Autonomous) Coimbatore - 641018,	Eco – Benign synthesis, characterization of Metal Nanoparticles (Cu, Ag, Au) by Mentha spicata root apozem and its biological applications
PP PEB097	S.S. Saravanakumar	Sethupathy Government Arts College Ramanathepuram	Synthesis and characterization of biomolecules on nanostructured porous silicon for biomedical application
PP PEB098	Gayathri Sekar	Periyar University	Copper (I) complexes containing α- diimine hydrazone based ligands: Synthesis, characterization and biological applications
PP PEB099	Dr Jyotsna Pandey	K C College,Mumbai	Growth, Vibrational and Thermal characterization of doped KDP crystal-Gel Technique
PP PEB100	Ilangovan R	National Centre for nanoscience and nanotechnology, University of madras	Green Synthesis of Silver Nanoparticles from Methanolic Root Extract of Asparagus Racemosus
PP PEB101	Bhawana Devi	Center of Innovative and Applied Bioprocessing	MgBr2 salt promoted interconversion of bioderived glucose into fructose in aqueous medium: kinetics and modeling







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FARACN			
PP PEB102	Dr. C.R. Minitha	PSGR Krishnammal College for Women, Coimbatore	Synthesis, characterization of CeO2/rGO composite and its photocatalytic properties towards organic dye
PP PEB103	Premkumar	Sri Kaliswari College, Sivakasi – 626123, Tamil Nadu, India	Nitrogen enriched g-C3N4 for Solvent Sensing: A First Principle Approach
PP PEB104	P. Kalyani	DDE, Madurai Kamaraj University	Phytomass carbon: A multifunctional engineering material for bio-medical applications
PP PEB105	R Vijaya Shanthi	Parvathy's Arts and Science College, Dindigul	Studies on Optical and Photo catalytic properties of Gd3+ doped MgO nano crystals
PP PEB106	Nishat Kumar Das	Utkal University, Odisha / CIPET:IPT, Bhubaneswar	Waste into energy by mechano- magneto-triboelectric nanogenerator
PP PEB107	S. Sugi	Women's Cristian College, Nagercoil	Photocatalytic and Antibacterial Activity of PVA Mediated Zinc- Copper Ferrite Composites
PP PEB108	Banupriya M	Mother Teresa Women's University	Surface Assimilation Of Pollutants On The Dispersed Agglomerated BiSNPs@PsCFO Nanosensor/Bare GCE To Recognize Substantial Metallic Particles In Real Samples
PP PEB109	V Chakkravarthy	National Institute of Technology, Trichy	Additive manufacturing of novel Ti- 30Nb-2Zr biomimetic scaffolds for successful limb salvage
PP PEB110	R. Abirami	Mother Teresa Women's University,Kodaikanal	The effect of Calotropis Gigantea Extract in the preparation of Nickel Oxide Nanoparticles
PP PEB111	A Poongodi	Mother Teresa Women's University	Chalcogenide Hybrid Quantum dots for Biomedical and Heavy Metal Sensors
PP PEB112	S Pavithra	Mother Teresa Womens University	Green Synthesis of Titanium Oxide(TiO2) Nanoparticles by Calotropis Gigantea Extract
PP PEB113	Amutha Eswaran	Manonmaniam Sundaranar University	Green synthesis and characterization of cu-ag nanoparticles using antibacterial activity
PP PEB114	V. Thamil Priya	VHNSN College, Virudhunagar, Tamil Nadu, India	Dodonaea viscosa (L.) leaves extract of partially purified compounds effect on anti-inflammatory activity
PP PEB115	S. Ila Amirthamani	Ayya Nadar Janaki Ammal College, Sivakasi	Synthesis of 1,3,5-substituted pyrazole derivatives using hierarchical nanoporous mmzcey zeolite catalyst
PP PEB116	Kavitha V	Periyar University	Synthesis of an oxochromane based chemosensor to target toxicity of Hg2+ and Cd2+ ions: Applications on real samples and live cells









FARAON			
PP PEB117	Eswari Thulasimuthu	National center for nanoscience and nanotechnology, University of madras	Bactericidal action of copper nanoparticles synthesized from methanolic root extract of Asparagus racemosus
PP PEB118	Kaniraja G	Virudhunagar Hindu Nadars' Senthikumara Nadar College	Electrochemical determination of non-enzymatic glucose using molecularly imprinted poly 3,4- ethylenedioxythipene
PP PEB119	Dhinesh Kumar M	Virudhunagar Hindu Nadars' Senthikumara Nadar College	Electrochemical immunosensor for determination of oxalate oxidase using anti-oxalate immobilized on Gold nanoparticle in poly-3- aminophenylboronic acid matrix
PP PEB120	Raji Mary Mathew	Christian College Chengannur, University of Kerala	Carbon Nanodot Mediated Photodegradation of Methylene Blue Under Sunlight Irradiation
PP PEB121	Gayathri Unnikrishnan	Karunya Institute of Technology and Sciences, Coimbatore	Biocompatible Polycaprolactone/ Graphene Oxide/Zinc Oxide 2-D scaffolds for biomedical applications – an in vitro study
PP PEB122	Megha M	Karunya Institute of Technology and Sciences , Coimbatore	A novel bio-compatible V/Sr co- substituted Hydroxyapatite for bone tissue regeneration applications
PP PEB123	Anjumol Joy	Karunya Institute of Technology and Sciences, Coimbatore	Multifunctional Polycaprolactone/Graphene oxide/Gold 2D Scaffold for Biomedical Applications
PP PEB124	Senthilnathan. S	SSN College of Engineering	g-C3N4/MoS2/CeO2 nanocomposite: synthesis and photocatalysis for organic dye degradation
PP PEB125	Anandan Manickam	Sakthikailash Women's college	Photocatalytic Performance of Co- precipitation Route prepared Ni- doped ZnO nanoparticles
PP PEB126	Rajkumar Manickam	Periyar University	Galantamine tethered hydrogel as novel therapeutic target for Intracerebroventricular - Streptozotocin induced Alzheimer's disease in rat model
PP PEB127	Sharmila T	Bharathidasan University	A comparative study on the Nonlinear optical properties of Graphene Oxide and Activated Carbon
PP PEB 128	Uma Maheshwari Nallal. V	Mother Teresa Women's University	Biogenic microbial and eco-friendly synthesis of Silver nanoparticles and their biomedical applications
PP PEB 129	Dr. M.Razia	Mother Teresa Women's University	Avocado-waste mediated synthesis of Silver nanoparticles and exploration of their potential biological properties









🎢 FARAON 🎽			
PP PEB130	Prabhu M	Sri Sivasubramaniya Nadar College of Engineering, Kalavakkam, 124Tamilnadu	Nanocomposite based Metal Oxide Nanoparticles for Photocatalysts in the Degradation of Dyes
PP PEB131	S Vishnu Priya	Madurai Kamaraj University	Rutile, Anatase and mixed phases of TiO2 nanoparticles is investigated for the effective Photocatalytic activity
PP PEB132	P. Suganthi	Raja Doraisingam Govt Arts College, Sivagangai	Optical and structural properties of silver doped zinc oxide nanoparticles
PP PEB133	R.Reeja	Raja Doraisingam Govt.Arts College, Sivagangai	Optical properties of strontium tinanate nanoparticles prepared for different temperatures
PP PEB134	Dr. S. Mahalakshmi	Raja Doraisingam Govt. Arts College,Sivagangai	Structural and optical analysis of tin titanate nanoparticles
PP PEB135	S. Chelladurai	Raja Doraisingam Govt. Arts College, Sivagangai	Synthesis and characterization of calcium titanate nanoparticles
PP PEB136	A. Karuppasamy	Raja Doraisingam Govt. Arts College, Sivagangai	Optical and structural characterization of silver doped calcium titanate nanoparticles
PP PEB137	Vanal Krishnan Saravanan	MKU Madurai	Micro-structural Characterization and hardness studies of Alumina based Composites
PP PEB138	K. Velmurugan	The M.D.T. Hindu College, Tirunelveli	Fabrication of novel GO@Dy2MoO6 nanocomposite for the efficient visible light induced superior photocatalytic activity
PP PEB139	Anupama Balu	Amirta School of Engineering, Coimbatore	Synthesis and Characterization of $CoNi_2O_4$ by one step hydrothermal method
PP PEB140	T.Raguram	Amirta School of Engineering, Coimbatore	Synthesis and Characterisation of Mn doped TiO ₂ nanoparticles by Sol- gel Technique for Photocatalytic Applications
PP PEB 141	M. Jayashree	Madurai Kamaraj University, Madurai	Review: Recent Advancements in Solar Cell







Poster Presentation session 2				
Poster ID	Name	University/	Abstract Title	
		Institution		
PP PV001	P. Arockia	Madurai Kamaraj	Optimizing thickness of triple layer	
	Michael	University	antireflection coating for tuning the	
	Mercy		optical properties of GaAs	
			semiconductor	
PP PV002	Athira	Madurai Kamaraj	An Attempt to Tailor the Properties of	
	Vijayan	University	Si/TiO2 Nanomaterials for	
			Photoelectrochemical Applications	
PP PV003	M Jeevaraj	Kalasalingam	Synthesis and Characterization of	
		academy of	Imidazolium tin halides	
		research and		
		education		
PP PV004	Inamul Hasan	The National	Perovskite Thin Films Structural	
	Z	Institute of	Studies Using Synchrotron Source X-	
		Engineering	ray Diffraction	
PP PV005	Rekha	Lovely Professional	Effect of thermal annealing on optical	
	Aggarwal	University	and structural properties of sol-gel	
			driven spin coated CdS thin films	
PP PV006	N.Balagowtha	Sri	Synthesis of Highly Stable Perovskite	
	m	Sivasubramaniya	Nanoparticles by Sonochemical	
		Nadar College of	method for Efficient Perovskite Solar	
		Engineering	Cells (PSCs)	
PP PV007	Amit Kumar	Maharana Pratap	C-V and C-f measurements of lead-	
	sharma	Govt. College	free perovskite solar cell in	
		Amb,Distt. Una,	MASnI3/CuI configuration using	
		Himachal Pradesh	SCAPS -1D software	
PP PV008	Riyas KM	MES Ponnani	Spectral and structural characterization	
		College, Ponnani	of Li doped Gd2O3:Eu3+	
			Microstructures synthesized by high-	
			temperature solid-state method	
PP PV009	Kajol Taiwade	M.A.N.I.T, Bhopal	Basic Review of Perovskite Solar	
			Cells	
PP PV010	Bidyashakti	CIPET-IPT	Numerical modelling and simulation	
	Dash	Bhubaneswar	studies of Formamidinium tin	
			triiodide-based perovskite solar cell	
PP PV011	Alok Kumar	Department of	A study on the effect of bath	
	Das	Physics, Dibrugarh	deposition temperature on the	
		University	structural and optical properties of	
			fabricated CdsSe/pva thin films by	
			chemical bath deposition method	
PP PV012	K. Nithish	Modure: Voreani	Structural machanical and electronic	
FF F VU12		Madurai Kamaraj	Structural, mechanical and electronic	
	Sriram	University	properties of Cu2O for different XC-	
			Functionals using Quantum Espresso	
PP PV013	Viplove	Guru Nanak Dev	Effect of humidity on Electrospun	
11 1 1013	Bhullar	University	TiO2 nanofibers for Dye Sensitized	
	Difulial		Solar Cells	



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PP PV014	Vasanth B	SSN College of Engineering, Chennai.	Hole transport material free carbon- based perovskite solar cell using methyl ammonium lead iodide light absorber.
PP PV015	Aswathy P Vijayan	Sree Kerala Varma College, Thrissur, Kerala	Tuning of Plasmonic resonance peak of core-shell structure using simulation studies
PP PV016	Durairaj M	Bharathidasan University	Hydrothermally Prepared Molybdenum Disulfide (MoS2) as an Alternate Counter Electrode for Dye Sensitized Solar Cells
PP PV017	Kawya J	Bharathidasan University	Upconverter Laden MoS2 Counter Electrode for Dye Sensitized Solar Cells
PP PV018	R. Sasikala	Madurai Kamaraj University	Strontium titanate perovskite oxide embedded reduced graphene oxide for efficient electron capturing photoanode for dye-sensitized solar cell
PP PV019	N. Murugesan	Sethu Institute of Technology, Tamil Nadu, India	Synthesis and Characterization of reduced graphene oxide modified nickel oxide thinfilms for solar thermal applications
PP PV020	Dr. K. Poonkodi	Nallamuthu Gounder Mahalingam College, Pollachi	Hydrothermal Synthesis of BiVO4/RGO- BiVO4 for Photocatalytic Performance under Visible Light towards Congo Red and Methylene Blue Dye Removal
PP PV021	N. Rajamanicka m	National Institute for Materials Science (NIMS)	Magnetic properties depending on Mn doping in halide CH3NH3PbI3 perovskite films
PP PV022	Kanimozhi Balakrishnan	Madurai Kamaraj University	Optical properties of p-type doping on SnO2 super lattice
PP PV023	Lathifa Banu .S	Madurai Kamaraj University	Structural Stablity and Electrical Properties of MoSe2 polymorphs:DFT
PP PV024	D. Arthi	Madurai Kamaraj University	Computational study on Electronic and Thermal stability of Low Energy Indium Oxide Polytypes
PP ES025	Sabna. M	MES Ponnani College, Kerala	Substitutional Effect of Sb3+ ions on the Lattice Dynamics, Surface Chemical States and Optical Properties of Vanadium Pentoxide
PP ES026	M. Kaaviah	Madurai Kamaraj University	Activated Carbon Derived from Tangerine Peel as an Efficient Electrochemical Hydrogen Storage Material for Fuel Cell Applications
PP ES027	Bhuvaneshwa ri R	Madurai Kamaraj University	Synthesis and Characterization of BiOBr Anode material for Supercapattery Applications





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PP ES028	Pushpa Selvi M.	Lady Doak College	Role of lithium bonds in doped graphene nanoribbons as cathode hosts for Li-S batteries: A first-principles study
PP ES029	Gavaskar.T	St. Joseph's College of Engineering, Chennai , India	Experimental Investigation of PCM With Added E-Graphite and Analysis of Its Thermal Characteristics
PP ES030	Meera Naachiayr R	Fatima College, Madurai	Synthesis of Water-insoluble Biopolymer Gellan gum GQD for enhancing the property of Solid Polymer Electrolyte
PP ES031	Aafrin Hazaana S	Fatima College, Madurai	Effect of Graphene Quantum dots on Gellan gum based solid biopolymer electrolyte for electrochemical device applications
PP ES032	N. Vimalasundari	Madurai Kamaraj University	Fabrication of wurtzite zno embedded functionalized carbon black as sustainable electrocatalyst fendocrine disruptor trichlorophenol
PP ES033	Navaneethan D	J.K.K. Nataraja College of Arts and Science	Natural bio-waste derived activated carbon for supercapacitor application
PP ES034	Anantha Prabhu C	THE M.D.T. HINDU COLLEGE	Synthesis and Characterization of TiO ₂
PP ES035	Anubhab Ray	Maulana Azad National Institue Of Technology	Pull-in Analysis of CMUT device
PP ES036	Dr. R. Yuvakkumar	Alagappa University	Direct growth of binder free CNT growth on Nickel foam substrate for highly efficient symmetric supercapacitor
PP ES037	Rishi Dhar Gandhi	M.A.N.I.T., Bhopal	Synthesis and Characterization of Nano-Perovskite ZnSnO3 for the Application of UV Shielding
PP ES038	G.Baby Sri Pratha	Madurai Kamaraj University	Effect of Copper doping on Strontium Titanate Perovskite Oxide material for Energy Storage Application
PP ES039	Narayan Gaonkar	University College of Science, Tumkur University, Tumkur	Electronic thermal transport in phosphorene
PP ES040	R G Vaidya	University College of Science, Tumkur	Thermoelectric power in AlGaN/GaN heterostructure: Polarization effect
PP ES041	C Bhagya Lakshmi	St. Xavier's College, Palayamkottai	Discussion on structural & optical properties of binary metal selenide/Nb2O5 nanocomposite synthesized by hydrothermal method.
PP ES042	Anandhu T P	Sanatana Dharma College, University of Kerala, Alappuzha	Ni3S2/MnO2 Nanocomposite Electrodes with High Areal Capacitance and Long Cycling Stability.





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PP ES043	M. Sivanantham	PRIST Deemed to be University, Thanjavur	Fabrication of porous carbons using amino-acid based amphiphilic block copolymers as template and their electrodes as supercapacitors
PP ES044	Muniraj @ Vignesh N	Mannar Thirumalai Naicker College	Fabrication of Na+ ion conducting polymer electrolyte based on PVA and Nelumbo Nucifera for energy applications
PP ES045	K. Vinoth Kumar	Madurai Kamaraj University	Hydrogen Adsorption on 2D Cobalt Carbide from first-principles calculation
PP ES046	Jemini Jose	Mercy College, Palakkad	3-dimensional architecture of reduced graphene oxide/multiwalled carbon nanotubes/zirconium oxide from zero-, one- and two- dimensional building blocks for supercapacitors
PP ES047	Om Priya Nanda	(CIPET)-IPT, Bhubaneswar	A Study of Performance of Bio- Derived Carbon for Supercapacitor in Different Electrolytes
PP ES048	Samya Chaudhary	MANIT Bhopal	Design of piezoelectric bulk acoustic resonators for GHz resonant frequency
PP ES049	Rm Sivakumar	Lakshmi Ammal polytechnic college	Forced convective solar air dryer with combined Thermal storage systems
PP ES050	Ashalatha V	Nirmalagiri College	Preparation of MCo2O4 (M = Mn and Zn) using a rapid solution combustion synthesis for oxygen evolution reaction
PP ES051	Shyamli Ashok. C	Nirmalagiri College	A facile approach to prepare spinel structured MnCo2O4 nanoparticles for supercapacitor applications
PP ES052	G.Vignesh	Kalasalingam Academy of Research and Education	Facile preparation of Zinc Cobalt Oxide (ZnCo2O4) Nanoparticles for Supercapacitor electrode applications
PP ES053	K. Venkatesh	Thiagarajar College	Hydrothermal synthesis spinel NiMn2O4 Nano/-microspheres for high performance Supercapacitor applications
PP ES054	C. Sharmila	Thiagarajar College	Mn2P2O7 anchored Graphene Nano Sheets as an Electrocatalyst for Simultaneous Hydrogen evolution reaction and oxygen evolution reaction
PP ES055	Sharmili.T	Fatima college, Mary land, Madurai	Investigation on rare earth based double Perovskite - La2NiMnO6 and La2NiFeO6 for optical and electrochemical properties
PP ES056	Anjana Baby	CHRIST (Deemed to be University)	Photoresponse and electrochemical behavior of azobenzene modified graphene oxide of energy storage applications









PP ES057	Dr. S.	The Standard	A novel Nanocomposite Proton
	Jayanthi	Fireworks	Conducting Polymer Electrolytes
		Rajaratnam College	based on Poly(vinyl Chloride
		for Women,	
		Sivakasi	
PP ES058	Jerries Infanta	Bharathidasan	2D Sheet like of Ni-doped CuCo2O4
	J	university	as anode material for high
			performance energy storage
			applications
PP ES059	M.S.Sivaharis	PSNA College of	Hydrogen as a future source of energy
	ankar	Engineering and	and its energy storage technologies
		Technology,	
		Dindigul-624622	
PP ES060	J	Madurai Kamaraj	3D Hierarchical MXene-CoWO4
	Vigneshwaran	University	Composite Freestanding Porous
			Carbon electrode: An asymmetric
			supercapacitor device
PP ES061	Dr. D.	The MDT Hindu	Hydrogen Storage Property of
	Silambarasan	College, Tirunelveli	Gamma-ray Irradiated Graphite
PP ES062	M. Saraswathi	MKU Madurai	Theoretical investigation on $B_{12} N_{12}$
			nano cage with beryllium hydride
			clusters towards Hydrogen storage
			applications





