

#### Indo - Norwegian International Online- conference on Functional mAterials For energy, environment And biOmedical applicatioNs"

## Indo - Norwegian International online conference on Functional mAterials For energy, environment And biOmedical applicatioNs" (FARAON - 2022)

## Fohmory 2022 Wodnosdo

2 February 2022, Wednesday			
CET 7:30 - 7:45	Participant registration (Login)		
	Inaugural Function		
	<b>Dr. Merethe Sandberg,</b> NFR, Norway		
	Dr. Sivaji Chadaram, Scientist-G, DST, Government of India		
	<b>Dr. Maan Singh Sidhu,</b> Counsellor for Science, Technology and Higher Education, Royal Norwegian Embassy		
	<b>Dr. Muthu Manickam,</b> Scientist-G (DRDO), Avadi, Chennai, India		
07:45 - 08:20	<b>Dr. Arve Holt- Director,</b> IFE, Norway		
	<b>Dr. D. Karthikeyan, IAS,</b> Principal Secretary, Higher Education Department, Tamil Nadu, India		
	Dr. Klaus Magnus Håland Johansen, Head of SMN, UiO, Norway		
	<b>Prof. V.S. Vasantha,</b> Registrar (i/c), Madurai Kamaraj University, India		
	Dr. Smagul Karazhanov, Institute for Energy Technology, Norway		
	<b>Prof. Terje Finstad,</b> University of Oslo, Norway		
	<b>Prof. S. Murugesan,</b> Madurai Kamaraj University, India		
	<b>Dr. J. Annaraj</b> , Madurai Kamaraj University, India		
Plenary Session	1		
Session chairs:			
	Plenary 01:		
08:20 - 09:20	<b>Prof. Truls Norby,</b> University of Oslo, Norway		
	Proton Ceramics for Energy Applications		
	Session break 5 minutes		
	Plenary 02:		
09:25 - 10:25	<b>Dr. Suraj Soman,</b> CSIR- National Institute for Interdisciplinary Science and Technology, India.		
	Demystifying Indoor Photovoltaics: A New Home for Dye Cells		
	Coffee break 10 minutes		







Parallel Session Session chair:	Session 1: PV	Session 2: Energy Storage	Session 3: Environment
10:35 - 11:05	Invited 01 Dr. Alexander Ulyashin, SINTEF Industry, Norway Recycling of Si based PV panels	Invited 02 Dr. Svein Kvernstuen, Beyonder AS, Norway World's first sustainable battery cell based upon activated carbon from sawdust.	Invited 03: Prof. Bjørn Hauback, Institute for Energy Technology, Norway Multifunctional metal hydrides for energy storage applications.
11:05 - 11:35	Invited 04: Mr. Sandeep Dixit, Adani Power Ltd., India Photovoltaic modules and installations	Invited 05:  Dr. Kuldeep Singh, CSIR - Central Electro Chemical Research Institute, India Energy storage materials	Invited 06: Dr. T.N. Narayanan, Tata Institute of Fundamental Research Hyderabad, India Engineering Interfaces towards Catalysis
	Lunch/Sessi	ion break – 45 minutes	
Plenary Session Session chair:	ı		
12:20 - 13:20	Plenary 03: Prof. S. San Indian Institute of Science Organic and Inorganic	• '	ical Energy Storage
	Session	n break 5 minutes	
Parallel Session Session chair:	Session 1: PV systems ++	Session 2: Energy Storage	Session 3: Environment
13:25 - 13:55	Invited 07: Prof. Tobias Boström, The Arctic University of Norway, Norway Nationwide pure PV- EV system	Invited 08: Dr. R. Vaidhyanathan, Indian Institute of Science Education and Research, India Covalent Organic Framework (COF) for Energy Storage	Invited 09: Dr. Per-Anders Hansen, Institute for Energy Technology, Norway Solar photo catalysis in oxide films by photon up-conversion







13:55 - 14:10	Participant Oral	Participant Oral	Participant Oral
13.33 - 14.10	•	*	1
13.00 - 14.10	OP PV -01:  Dr. S. Saravanan, Swarnandhra College of Engineering & Technology, India The role of photonic and plasmonic modes in ultrathin amorphous silicon solar cells using finite difference	OP ES -11  Dr. P. Siva Prakash,  Centre for High Pressure Research, BDU, India  Fabrication of high performance asymmetric supercapacitors on ZnF2 metal difluoride materials for high energy and high power	OP PEB -19  Mohammad Ibrahim,  University of Agder, Norway  Safety hazards associated with powders produced by gas atomization and their prevention
14:10 - 14:25	time domain (FDTD) method  Participant Oral OP PV -02:	density  Participant Oral  OP ES -12	Participant Oral OP PEB -20
	Dr. P. Venkatachalam Annamalai University, India Photovoltaic study of silver doped titanium nanoparticles photoanodes in DSSCs	S. Kumaraguru  Department of Chemistry, SRM Institute of Science and Technology, India  Enhanced Cycling Behavior of Cubes-like NiO-Co3O4-MnCo2O4 oxide as an Adequate, Competent and Robust Negative Electrode Material for Li-ion Batteries	Dr. M. Maghimaa  Muthayammal College of Arts & Science, Rasipuram  Phyto-mediated nanoparticles synthesis and coating on the fabrics for antimicrobial potential and wound healing property
14:35 - 16:00	Poster session 1 PP PEB 063 to PP PEB 141 (Details of the posters at the end of the table)		







	3 Februar	y 2022, Thursday		
07:40 - 08:00	Pa	Participant registration (Login)		
Plenary Session	1			
Session chairs:				
08:00 - 09:00	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			
		break 10 minutes		
09:10 - 10:10	Plenary 05:  Dr. Vijayamohanan Pillai, Indian Institute of Science Education and			
	Coffee	break - 5 minutes		
Parallel Session	Session 1: PV	Session 2: Energy Storage	Session 3: Environment	
Session chair:	T. 4. 140	T. 9.111	T. 2.110	
10:15 - 10:45	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	
10:45 - 11:15	Invited 13:	Invited 14:	Invited 15:	
	Prof. Tor Oskar Sætre, University of Agder, Norway. Role of Grain boundaries in Si solar cells	Dr. Ulaganathan Mani, AcSIR, CSIR-CECRI Karaikudi, India. All Vanadium Redox Flow Battery - A High Energy Storage Device for Off-Grid Applications	Prof. Alejandro Escalona, University of Southern Norway Towards a sustainable subsurface value chain: NCS2030 National Research Center	







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FARAON	Functional mAterials For (	energy, environment <u>A</u> nd bi <u>O</u>	medical applicatio <u>N</u> s"
11:15 - 11:30	Participant Oral	Participant Oral	Participant Oral
	OP PV -03	OP ES -13	OP PEB -21
	Nandhakumar Eswaramoorthy Vellore Institute of Technology, Vellore Flexible Perovskite solar cells: waste PET bottles Carbon with 1D g-C3N4 nanosheets incorporated TiO2	G. Muthulakshmi Presidency College Chennai, India Investigation of electrochemical properties of SnO2/MoS2 Nanocomposties for supercapacitor applications	Sivagowri Shanmugaratnam Western Norway University of Applied Sciences Electrocatalytic Water oxidation of Metal chalcogenide (MS2: M=Co, Ni, Sn) embedded
	as hybrid electron transport layer		TiO <sub>2</sub> nanocomposite
		ion break – 45 minutes	
Plenary Session Session chair:			
12:15 - 13:15		narma, SPEL Technologies	

#### Session break 5 minutes

Parallel Session	Session 1: PV	Session 2: Energy Storage	Session 3: Environment
Session chair:			
13:20 - 13:50	Invited 16:	Invited 17:	Invited 18:
	Prof. Dhayalan Velauthapillai, Western Norway University of Applied Sciences, Norway Perovskite Solar cell	Prof. S.R.S. Prabaharan, CEO, Inventus Bioenergy Pvt., Ltd., Chennai, India Protected Lithium Metal Anode Cassette (PLC) for All-Solid State Rechargeable Batteries	Dr. Viktoriya Yarushina, Institute for Energy Technology, Norway CCS & hydrogen storage
13:50 - 14:20	Invited 19: Dr. Kristin Bergum,	Invited 20: Dr. Gunstein Skomedal,	Invited 21: Dr. Elise Rundén
	University of Oslo,	Vianode AS (an Elkem	Pran, Norwegian
	Norway	Company), Norway	Institute for Air
	Tandem Solar Cells	Synthetic Graphite Anodes in Li batteries	Research (NILU)  Nanosafety of nanoparticles







	Coffee	e break 10 minutes	
14:30 - 14:45	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
14:45 - 15:00	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
15:00 - 16:00	( <b>D</b> etails	Poster session 2 PP PV 001 to PP PV 024 PP ES 025 to PP ES 062 of the posters at the end of the	he table)







	4 Februa	ary 2022, Friday		
07:40 - 08:00	Participant registration (Login)			
Plenary Session Session chair:	1			
08:00 - 09:00	Recent advances in cry	Plenary 07: Dr. Erik Marstein, Institute for Energy Technology, Norway Recent advances in crystalline silicon technology		
	Session	n break 5 minutes		
Parallel Session	Session 1: PV	Session 2:	Session 3:	
Session chair:				
09:05 - 09:35	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	
09:35 - 10:05	Participant Oral OP PV -06: G. Kiruthiga, Avinashilingam Institute for Home Science and Higher Education for Women, CBE, India SnO <sub>2</sub> : Investigation of optical, structural, and electrical properties of transparent conductive oxide thin films prepared by nebulizer spray pyrolysis for large scale perovskite solar	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	







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







# $Indo-Norwegian\ International\ Online-\ conference\ on \\ \underline{F}unctional\ m\underline{A}terials\ \underline{F}or\ energy,\ environment\ \underline{A}nd\ bi\underline{O}medical\ applicatio\underline{N}s"$

FARACN			
11:00 - 11:15	Participant Oral OP PV -09	Participant Oral OP ES -17	Participant Oral
	Dr. S. Kumar Sri Vasavi College (SF Wing), Erode, India Fabrication of High Efficiency Semitransparent Nanostructured Perovskite	Kajana Thirunavukarasu Western Norway University of Applied Sciences, Norway Electrochemical Performance of Supercapacitor based on Silver Molybdate	OP PEB -25:  Dr. R. Anithadevi  Easwari Engineering College, Chennai, India  Antimicrobial Activity of Hybrid ZnMgTiO2 Nanocomposites
11:15 - 11:30	Photovoltaic Cells  Participant Oral OP PV -10 Dr. M.R. Venkatraman Dr. N.G.P. Arts and Science College, Coimbatore, India Characterization of Plasma Assisted Chemical Vapor Deposited Hydrogenated Carbon (a-C:H) films and Its Solar Cell Characteristics	Participant Oral OP ES -18 Foysal Kabir Tareq University of Agder, Norway Microstructure and electrochemical properties of inductively coupled plasma spheroidized nickel silicide powder	and undoped ZnO  Participant Oral OP PEB -26 Dr. K. Thenmozhi University College of Engineering Kanchipuram, India A Comparative study on the photocatalytic activity of biosynthesized and commercially available ZnO nanoparticles towards the degradation of methyl orange dye
DI C		ion break – 45 minutes	
Plenary Session Chair:			
12:15 - 13:15	Plenary 08:  12:15 - 13:15  Dr. A.K. Tyagi, Bhabha Atomic Research Centre, India  Crystallographically designed nano-catalysis for various applications		
	Session	n break 5 minutes	







Parallel Session Session chair:	Session 1: Environment	Session 2:	Session 3: Bio- Materials
13:20 - 13:50	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	with Funding Agencies:	
13:50- 14:10	Dr. Muthu Manickam,	Scientist G (DRDO), Avadi	, Chennai, India
14:10- 14:30	<b>Dr. Maan Singh Sidhu,</b> Counsellor for Science, Technology and Higher Education, <b>Royal Norwegian Embassy</b>		chnology and Higher
14:30 -14:50	Dr. Merethe Sandberg, NFR, Norway		
14:50 -15:30	Open discussion with Coffee break		
15:30 - 16:00		Valedictory address	







	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	
11 12200.	V 1110 till 2	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	
	1		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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THAKACIN =			
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 <sub>3</sub> nanoparticles for Dye-Sensitized Solar Cell Applications
PP PEB077	J.Kabiriyel	The Gandhigram Rural Institute – Deemed University	Optical and thermodynamical properties of Chitosan-CeO <sub>3</sub> 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







PP PEB099

PP PEB100

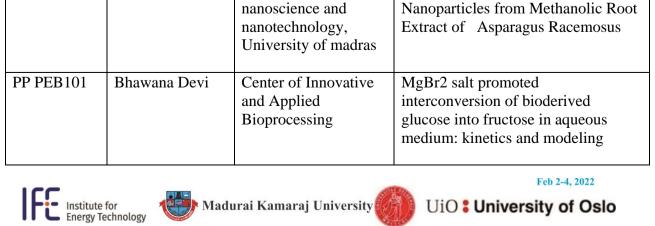
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## Indo - Norwegian International Online- conference on

Functional mAterials For energy, environment And biOmedical applicatioNs" PP PEB089 S Swathi Alagappa University Neodymium doped novel barium tungstate nano spindles for enhanced oxygen evolution reaction Transition metal (Ni, Co) doped PP PEB090 SP Keerthana Alagappa University TiO2 for reduction of organic pollutant under photocatalysis Sn-substituted β-Cu2V2O7 for dve PP PEB091 G. Gowrisankar Sri Ramakrishna degradation under visible light College of Arts and irradiation Science PP PEB092 Sharmila S JSS academy of The Eco-friendly synthesis of higher education and graphene oxide (GO) and its research applications PP PEB093 Pragna M JSS Academy Of A Blend Of Nanotechnology And Shivannavar Higher Education & Forensic Science: A Comprehensive Research Review Govt. Arts College Synthesis, characterization and PP PEB094 Dr. Alagunambi (Autonomous). biological evaluation of Copper Ramasubbu Coimbatore – 641018 Nanoparticles using Palm Nectar as bioreductant PP PEB095 A. Srinivasan Govt. Arts College Green synthesis, characterization and (Autonomous), biomedical applications of Copper Coimbatore- 641018 and Gold Nanoparticles using Cocos nucifera Inflorescence as bioreductant PP PEB096 R. Karankumar Govt. Arts College Eco – Benign synthesis, (Autonomous) characterization of Metal Coimbatore - 641018. Nanoparticles (Cu, Ag, Au) by Mentha spicata root apozem and its biological applications Synthesis and characterization of PP PEB097 S.S. Sethupathy Saravanakumar Government Arts biomolecules on nanostructured College porous silicon for biomedical Ramanathepuram application Gayathri Sekar PP PEB098 Periyar University Copper (I) complexes containing αdiimine hydrazone based ligands:



K C College, Mumbai

National Centre for

Synthesis, characterization and

characterization of doped KDP

Growth, Vibrational and Thermal

biological applications

crystal-Gel Technique

Green Synthesis of Silver



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PP PEB102	Dr. C.R. Minitha	PSGR Krishnammal	Synthesis, characterization of
TT TEDIO2	Di. C.K. Millitia	College for Women,	CeO2/rGO composite and its
		Coimbatore	photocatalytic properties towards
		Combatore	organic dye
PP PEB103	Premkumar	Sri Kaliswari College,	Nitrogen enriched g-C3N4 for
11 1120103	1 TCIIIKuiiiai	Sivakasi – 626123,	Solvent Sensing: A First Principle
		Tamil Nadu, India	Approach
PP PEB104	P. Kalyani	DDE, Madurai	Phytomass carbon: A multifunctional
FF FED104	r. Kaiyaiii	Kamaraj University	=
		Kamaraj University	engineering material for bio-medical
PP PEB105	D Wijerre Chanthi	Dowyothyla Auto and	applications Studies on Optical and Photo
PP PED103	R Vijaya Shanthi	Parvathy's Arts and	Studies on Optical and Photo
		Science College,	catalytic properties of Gd3+ doped
DD DED106	Ni ala ad IZanasan	Dindigul	MgO nano crystals
PP PEB106	Nishat Kumar	Utkal University,	Waste into energy by mechano-
	Das	Odisha / CIPET:IPT,	magneto-triboelectric nanogenerator
DD DED 107	9 9 1	Bhubaneswar	Discount of the state of the st
PP PEB107	S. Sugi	Women's Cristian	Photocatalytic and Antibacterial
		College, Nagercoil	Activity of PVA Mediated Zinc-
DD DED 100		)	Copper Ferrite Composites
PP PEB108	Banupriya M	Mother Teresa	Surface Assimilation Of Pollutants
		Women's University	On The Dispersed Agglomerated
			BiSNPs@PsCFO Nanosensor/Bare
			GCE To Recognize Substantial
			Metallic Particles In Real Samples
PP PEB109	V Chakkravarthy	National Institute of	Additive manufacturing of novel Ti-
		Technology, Trichy	30Nb-2Zr biomimetic scaffolds for
			successful limb salvage
PP PEB110	R. Abirami	Mother Teresa	The effect of Calotropis Gigantea
		Women's	Extract in the preparation of Nickel
		University,Kodaikanal	Oxide Nanoparticles
PP PEB111	A Poongodi	Mother Teresa	Chalcogenide Hybrid Quantum dots
		Women's University	for Biomedical and Heavy Metal
			Sensors
PP PEB112	S Pavithra	Mother Teresa	Green Synthesis of Titanium
		Womens University	Oxide(TiO2) Nanoparticles by
			Calotropis Gigantea Extract
PP PEB113	Amutha Eswaran	Manonmaniam	Green synthesis and characterization
		Sundaranar University	of cu-ag nanoparticles using
			antibacterial activity
PP PEB114	V. Thamil Priya	VHNSN College,	Dodonaea viscosa (L.) leaves extract
		Virudhunagar, Tamil	of partially purified compounds
		Nadu, India	effect on anti-inflammatory activity
PP PEB115	S. Ila	Ayya Nadar Janaki	Synthesis of 1,3,5-substituted
	Amirthamani	Ammal College,	pyrazole derivatives using
		Sivakasi	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







## $\label{eq:conference} Indo-Norwegian\ International\ Online-\ conference\ on \\ \underline{F} unctional\ m\underline{A} terials\ \underline{F} or\ energy,\ environment\ \underline{A} nd\ bi\underline{O} medical\ applicatio\underline{N} s"$

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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 <sub>2</sub> O <sub>4</sub> by one step hydrothermal method
PP PEB140	T.Raguram	Amirta School of Engineering, Coimbatore	Synthesis and Characterisation of Mn doped TiO <sub>2</sub> nanoparticles by Sol- gel Technique for Photocatalytic Applications
PP PEB 141	M. Jayashree	Madurai Kamaraj University, Madurai	Review: Recent Advancements in Solar Cell







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







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PP PV014	Vasanth B	SSN College of	Hole transport material free carbon-
		Engineering,	based perovskite solar cell using
		Chennai.	methyl ammonium lead iodide light
			absorber.
PP PV015	Aswathy P	Sree Kerala Varma	Tuning of Plasmonic resonance peak
	Vijayan	College, Thrissur,	of core-shell structure using
		Kerala	simulation studies
PP PV016	Durairaj M	Bharathidasan	Hydrothermally Prepared
111 1 4010	Duranaj Wi	University	Molybdenum Disulfide (MoS2) as an
		Oniversity	Alternate Counter Electrode for Dye
			•
DD DV017	17 1	D1 41:1	Sensitized Solar Cells
PP PV017	Kawya J	Bharathidasan	Upconverter Laden MoS2 Counter
		University	Electrode for Dye Sensitized Solar
			Cells
PP PV018	R. Sasikala	Madurai Kamaraj	Strontium titanate perovskite oxide
		University	embedded reduced graphene oxide for
			efficient electron capturing
			photoanode for dye-sensitized solar
			cell
PP PV019	N. Murugesan	Sethu Institute of	Synthesis and Characterization of
		Technology, Tamil	reduced graphene oxide modified
		Nadu, India	nickel oxide thinfilms for solar
		,	thermal applications
PP PV020	Dr. K.	Nallamuthu	Hydrothermal Synthesis of
1111020	Poonkodi	Gounder	BiVO4/RGO- BiVO4 for
	1 oomoor	Mahalingam	Photocatalytic Performance under
		College, Pollachi	Visible Light towards Congo Red and
		Conege, i onacin	Methylene Blue Dye Removal
PP PV021	N.	National Institute	Magnetic properties depending on Mn
11 1 0021		for Materials	
	Rajamanicka		doping in halide CH3NH3PbI3 perovskite films
DD DV/022	M Kanimozhi	Science (NIMS)	1
PP PV022		Madurai Kamaraj	Optical properties of p-type doping on
DD D11044	Balakrishnan	University	SnO2 super lattice
PP PV023	Lathifa Banu	Madurai Kamaraj	Structural Stablity and Electrical
	.S	University	Properties of MoSe2 polymorphs:DFT
PP PV024	D. Arthi	Madurai Kamaraj	Computational study on Electronic
		University	and Thermal stability of Low Energy
			Indium Oxide Polytypes
PP ES025	Sabna. M	MES Ponnani	Substitutional Effect of Sb3+ ions on
		College, Kerala	the Lattice Dynamics, Surface
			Chemical States and Optical
			Properties of Vanadium Pentoxide
PP ES026	M. Kaaviah	Madurai Kamaraj	Activated Carbon Derived from
		University	Tangerine Peel as an Efficient
		3	Electrochemical Hydrogen Storage
			Material for Fuel Cell Applications
			Material for Luci Cell ripplications
PP ES027	Bhuvaneshwa	Madurai Kamarai	Synthesis and Characterization of
FF ESU4/		Madurai Kamaraj	Synthesis and Characterization of BiOBr Anode material for
	ri R	University	
			Supercapattery Applications







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PP ES028	Pushpa Selvi	Lady Doak College	Role of lithium bonds in doped
FF ESUZO	M.	Lady Doak College	graphene nanoribbons as cathode hosts
	IVI.		for Li-S batteries: A first-principles
			study
PP ES029	Gavaskar.T	St. Joseph's College	Experimental Investigation of PCM
11 LS029	Gavaskai. i	of Engineering,	With Added E-Graphite and Analysis
		Chennai, India	of Its Thermal Characteristics
PP ES030	Meera	Fatima College,	
PP ESUSU		Madurai	Synthesis of Water-insoluble Biopolymer Gellan gum GQD for
	Naachiayr R	Madulai	
			enhancing the property of Solid
PP ES031	Aafrin	Estima Callaga	Polymer Electrolyte  Effect of Graphone Quantum data on
PP ESUS1	Hazaana S	Fatima College, Madurai	Effect of Graphene Quantum dots on
	пагаана 5	Madurai	Gellan gum based solid biopolymer
			electrolyte for electrochemical device applications
PP ES032	N.	Madurai Kamaraj	Fabrication of wurtzite zno embedded
FF ESUSZ	Vimalasundari	University	functionalized carbon black as
	Villiaiasulluali	University	sustainable electrocatalyst fendocrine
			disruptor trichlorophenol
PP ES033	Navaneethan	J.K.K. Nataraja	Natural bio-waste derived activated
FF ESUSS	D	College of Arts and	carbon for supercapacitor application
	D	Science	carbon for supercapacitor application
PP ES034	Anantha	THE M.D.T.	Synthesis and Characterization of TiO <sub>2</sub>
11 E3034	Prabhu C	HINDU COLLEGE	Synthesis and Characterization of TiO <sub>2</sub>
PP ES035	Anubhab Ray	Maulana Azad	Pull-in Analysis of CMUT device
11 L3033	Allubliab Kay	National Institue Of	1 un-in Analysis of Civio 1 device
		Technology	
PP ES036	Dr. R.	Alagappa	Direct growth of binder free CNT
11 25050	Yuvakkumar	University	growth on Nickel foam substrate for
			highly efficient symmetric
			supercapacitor
PP ES037	Rishi Dhar	M.A.N.I.T., Bhopal	Synthesis and Characterization of
	Gandhi		Nano-Perovskite ZnSnO3 for the
			Application of UV Shielding
PP ES038	G.Baby Sri	Madurai Kamaraj	Effect of Copper doping on Strontium
	Pratha	University	Titanate Perovskite Oxide material for
			Energy Storage Application
PP ES039	Narayan	University College	Electronic thermal transport in
	Gaonkar	of Science, Tumkur	phosphorene
		University, Tumkur	
PP ES040	R G Vaidya	University College	Thermoelectric power in AlGaN/GaN
		of Science, Tumkur	heterostructure: Polarization effect
PP ES041	C Bhagya	St. Xavier's	Discussion on structural & optical
	Lakshmi	College,	properties of binary metal
		Palayamkottai	selenide/Nb2O5 nanocomposite
			synthesized by hydrothermal method.
PP ES042	Anandhu T P	Sanatana Dharma	Ni3S2/MnO2 Nanocomposite
		College, University	Electrodes with High Areal
		of Kerala,	Capacitance and Long Cycling
	i de la companya de	Alappuzha	Stability.







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PP ES043	M.	PRIST Deemed to	Fabrication of porous carbons using
11 Lb0-3	Sivanantham	be University,	amino-acid based amphiphilic block
	Sivanantham	Thanjavur	copolymers as template and their
		Thanjavui	electrodes as supercapacitors
PP ES044	Maninai @	Mannar Thirumalai	
PP ES044	Muniraj @		Fabrication of Na+ ion conducting
	Vignesh N	Naicker College	polymer electrolyte based on PVA and
			Nelumbo Nucifera for energy
			applications
PP ES045	K. Vinoth	Madurai Kamaraj	Hydrogen Adsorption on 2D Cobalt
	Kumar	University	Carbide from first-principles
			calculation
PP ES046	Jemini Jose	Mercy College,	3-dimensional architecture of reduced
		Palakkad	graphene oxide/multiwalled carbon
			nanotubes/zirconium oxide from zero-,
			one- and two- dimensional building
			blocks for supercapacitors
PP ES047	Om Priya	(CIPET)-IPT,	A Study of Performance of Bio-
	Nanda	Bhubaneswar	Derived Carbon for Supercapacitor in
			Different Electrolytes
PP ES048	Samya	MANIT Bhopal	Design of piezoelectric bulk acoustic
	Chaudhary		resonators for GHz resonant frequency
PP ES049	Rm	Lakshmi Ammal	Forced convective solar air dryer with
11 200.9	Sivakumar	polytechnic college	combined Thermal storage systems
PP ES050	Ashalatha V	Nirmalagiri College	Preparation of MCo2O4 (M = Mn and
II Lboso	7 Isharatha V	Timmanagiii Conege	Zn) using a rapid solution combustion
			synthesis for oxygen evolution
			reaction
PP ES051	Shyamli	Nirmalagiri College	A facile approach to prepare spinel
11 LS031	Ashok. C	Tvirinaragiri Conege	structured MnCo2O4 nanoparticles for
	ASHOK. C		-
PP ES052	C Vignoch	Kalasalingam	supercapacitor applications Facile preparation of Zinc Cobalt
PP ES032	G.Vignesh		
		Academy of	Oxide (ZnCo2O4) Nanoparticles for
		Research and	Supercapacitor electrode applications
DD E0052	77 77 1 4 1	Education	TT 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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,	Investigation on rare earth based
		Mary land, Madurai	double Perovskite - La2NiMnO6 and
			La2NiFeO6 for optical and
			electrochemical properties
PP ES056	Anjana Baby	CHRIST (Deemed	Photoresponse and electrochemical
		to be University)	behavior of azobenzene modified
			graphene oxide of energy storage
			applications







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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



