DEPARTMENT OF CHEMISTRY
SRM INSTITUTE OF SCIENCE AND TECHNOLOGY KATTANKULATHUR

HIGH IMPACT FACTOR JOURNALS

S. No.	Name of the faculty member	Name of all the authors as per the order in the paper	TITLE	Journal name	Year	Volume	Page	Impact Factor	Date of online publication
1	Karthikeyan Sekar	Preeyanghaa Mani, Sulakshana Shenoy, Prince J. J. Sagayaraj, Nithish Agamendran, Sanguk Son, Neppolian Bernaurdshaw, Hyoung-il Kim,	Scaling up of photocatalytic systems for large-scale hydrogen generation	Applied Physics Reviews	2025	12	11303	11.9	10.01.2025
2	Panneerselvam Perumal	Narendra Pal Singh Chauhan, Panneerselvam Perumal, Narendra Singh Chundawat, Sapana Jadoun	Achiral and chiral metal-organic frameworks (MOFs) as an efficient catalyst for organic synthesis	Coordination Chemistry Reviews	2025	533	216536	20.3	26.02.2025
3	Helen Annal Therese	Premkumar Jayaraman, Hamed Pourzolfaghar, Yuan-Yao Li, Helen Annal Therese	Boosted ion switching at the electrode-electrolyte interfaces of architecture interdigitated flexible supercapacitors	Materials Today Physics	2025	51	101668	10	05.03.2025
4	Priyadip Das	Manish Kumar, Abhishek Singh Sengar, Anushree Lye, Pranesh Kumar, Sukhes Mukherjee, Dinesh Kumar, Priyadip Das, Suvro	FNDC5/Irisin mitigates the cardiotoxic impacts of cancer chemotherapeutics by modulating ROS-dependent and -independent mechanisms	Redox Biology	2025	80	103527	10.7	04.02.2025
5	Sundaravadivel Elumalai	Arun Annamalai, Sambasivam Sangaraju, Sundaravadivel Elumalai	Insights into carbon dots and conventional semiconductors hybrids: A trendsetter in photocatalytic hydrogen generation	Coordination Chemistry Reviews	2025	535	216646	20.3	25.03.2025
6	N. Clament Sagaya Selvam	Keerthana Pradeep, A. Anto Jeffery, Arun Prakash Sundaresan, R. Gunaseelan, Saravanan Rajendran, R. Esakki Karthik, Young	Impact of catalyst engineering on the durability performance of self-supported catalysts in anion exchange membrane water electrolyzers: recent advances and perspectives	Journal of Materials Chemistry A	2025	13	14510-14539	10.7	22.04.2025
7	K. K. R. Datta	Swarnamayee Behera, Kalyan Raidongia, K. K. R. Datta	Robust superhydrophobic V2O5/CoFe2O4@SiO2/PDMS composite membranes for membrane distillation	Journal of Materials Chemistry A	2025	13	13706-13720	10.7	23.04.2025
8	Venkatramaiah Nutalapati	P. Keerthika, Ankit Kumar, Arthanareeswari Maruthapillai, Venkatramaiah Nutalapati, Rajendra Kumar Konidena	Recent advances in the molecular designs of near ultraviolet emitters for efficient organic light emitting diodes	Journal of Photochemistry and Photobiology C: Photochemistry Reviews	2025	63	100698	12.8	23.04.2025
9	Karthikeyan Sekar	Maseed Uddin, Swathi Krishnan Venkatesan, Subhan Kumar Pal, Ravikrishnan Vinu, Karthikeyan Sekar, Ramani Kandasamy	Accelerating biodegradation efficiency of low-density polyethylene and its hazardous dissolved organic matter using unexplored polyolefin-respiring bacteria: New insights on	Journal of Hazardous Materials	2025	492	138144	12.2	02.04.2025
10	Govindhan Maduraiveeran	Bharathi Natarajan, Palanisamy Kannan, Govindhan Maduraiveeran, Ali S. Alnaser	Polymer nanocomposite-based biomolecular sensor for healthcare monitoring	Advances in Colloid and Interface Science	2025	343	103557	16	15.05.2025
11	Rahul Dev Mukhopadhyay	Gengwu Zhang, Ikjin Kim, Lukman O. Alimi, Deepak Ramdas Boraste, Rahul Dev Mukhopadhyay, Weibin Lin, Aiping Chen	Selective and sustainable separation of hydrocarbons from crude oil via molecular sieve	nature sustainability	2025	8	784-792	26.2	12.05.2025
12	Govindhan Maduraiveeran	Sundaramoorthy Marimuthu, Ayyavu Shankar, Pratiksha Gawas, Palanisamy Kannan, Venkatramaiah Nutalapati, Govindhan	Functional Engineering Iron Single-Atom Sites on MOF Supports for Enhanced Electrochemical Water Splitting	Small	2025	21	2504120	12.1	04.06.2025
13	Thandavarayan Maiyalagan	Jean Marie Vianney Nsanzimana, Lebin Cai, Zhongqing Jiang, Bao Yu Xia, Thandavarayan Maiyalagan	Engineering Bifunctional Catalytic Microenvironments for Durable and High-Energy-Density Metal–Air Batteries	Nano-Micro Letters	2025	17	294	36.3	13.06.2025
14	Thandavarayan Maiyalagan	Jean Marie Vianney Nsanzimana, Vishal Jose, Mukaddar Sk, Vikas Reddu, Li Xiaogang, Raksha Dangol, Ren Hao, Zhenfeng Huang	Unlocking the Oxygen Evolving Activity of Molybdenum Nickel Bifunctional Electrocatalyst for Efficient Water Splitting	Small	2025	21	2500587	12.1	02.06.2025
15	J. Arockia Selvi	Balasubramanian Sriram, Muthukumar Govindaraj, Sea-Fue-Wang, Sakthivel Kogularasu, J. Arockia Selvi	Facile hydrothermal synthesis and electrocatalytic activity of rods like silver tungstate decorated graphitic carbon nitride nanocomposite: A selective electrochemical detection of	Chemical Engineering Journal	2025	519	165397	13.2	27.07.2025
16	Jayanta Samanta	Javed R. Pathan, Xinyu Pang, Sarah C. Olsen, A. Mercy Abarna, Richard J. Staples, Jayanta Samanta, Vladimir B. Birman, Chenfeng Ke	Macrocycle Side Chain Crowding Enables Tunable Curvature from Planar to Wrinkled and Wavy Hydrogen-Bonded Sheets	Journal of Americal Chemical Society	2025	147 (32)	28570-28576	15.6	30.07.2025
17	Srinivasarao kancharla	Sajith Babu M K, Gohil Mrunalini ba Yuvrajsinh, Madhumitha Manickasundaram, Arvind Kumar, Srinivasarao kancharla	Synergistic π-π interactions boosted removal of tetracycline from water by dual-aromatic hydrophobic deep eutectic solvents	Chemical Engineering Journal	2025	520	166128	13.2	17.07.2025
18	Samarendra Maji	Gomathi Sivakumar, Anashwara Babu, Bholanath Ghanti, J. Swathi, Silambarasan R, Venkatramaiah Nutalapati, Susanta Banerjee, Samarendra Maji	Dual Fluorometric and Colorimetric Chemosensor Based on Poly(Arylene Ether Nitrile)s Functionalized Zn(II)Porphyrins for Selective Detection of Cyanide	Advanced Functional Materials	2024			18.5	18-Dec-2024
19	Kasibhatta K. R. Datta	Sonali Roy, Priyamjeet Deka, Raktim Gogoi, Mrityunjoy Dey, Kiran Mayawad, Bikash K. Das, Kasibhatta K. R. Datta, Kalyan Raidongia, Advanced Functional Materials, 2024	Fabrication of Robust Forward Osmosis Membrane by Assembling FeOxCly Nanoparticles	Advanced Functional Materials	2024			**18.5**	22-Oct-2024
20	Clament Sagaya Selvam	Kanagaraj Rajalakshmi , Johnbosco Yesuraj , Selvaraj Muthusamy , N. Clament Sagaya Selvam , Yun Sik Nam , Kibum Kim, Yuanguo Xu	The phosphorous-doped 2D nanosheet assembled 3D Mn2V2O7 microflowers on Ni foam as a binder- free electrode for high energy density asymmetric supercapacitor application	Journal of Energy Storage	2024	Volume 99, Part B	113424	8.9	19-Aug-2024
21	Dr. Ayyappanpillai Ajayaghosh	Samyyappan Vijayakumar , Anjana P Mohanachandran , Raghavan B Rakhi , Sreejith Shankar , Renjith S Pillai , Ayyappanpillai Ajayaghosh	Self-Exfoliating Benzotristriazine Macrocyclic Network: A New 2D Material for High-Performance Electrochemical Energy Storage	Small	2024			13.3	18-Aug-2024
22	B. Natarajan	Raman Rajagopalan, Natarajan Balasubramaniyan, Ramalingam Mahaan, Aruljothy John Bosco	A Halogenation strategy: Simple wide bandgap non- fullerene acceptors with BODIPY-Thiophene backboned polymer donor for enhanced outdoor and indoor photovoltaics	ACS Applied Materials and Interfaces	2024	Vol 16 / Issue 34		8.3	16-Aug-2024
23	Vadivel S	Vadivel S	Advancements in sustainable biodiesel production: A comprehensive review of bio-waste derived catalysts	Energy Conversion and Management	2024	Volume 318	118884	9.9	8-Aug-2024
24	Dr. Rahul Dev Mukhopadhyay	Rahul Dev Mukhopadhyay	A template for artificial life	Nat. Chem.	2024			19.2	23-Jul-2024
25	B. Neppolian	Miriam DanielCrescentia YazhiniSilda PetersTumpa SadhukhanKarthikeyan SekarBernaurdshaw Neppolian*	Uncovering Latent Responsiveness of Ni-Organic Framework to Electronic and Optical Stimuli through an Amino Acid-Regulated Defect Engineering	Chemistry of Materials	2024	Vol 36 / Issue 14		7.2	12-Jul-2024
26	Dr. Srinivasarao Kancharla	Rajendran MathaiyanMallikarjuna Swamy Shabanur MatadaYuvaraj Sivalingam*Srinivasarao Kancharla*	Copper Recovery from Mobile Phone Printed Circuit Board Eâ€'Waste and Transforming into CuO@C for Electrode Material in Extended Gate Field-Effect Transistors Facilitating Non-Enzymatic Ascorbic Acid Detection	ACS Sustainable Chemistry & Engineering	2024	Vol 12/Issue 29		7.1	8-Jul-2024
27	Anita Swami	Sanjay D. Sutar, Indrajit Patil, Haridas Parse, Prateekshita Mukherjee, Anita Swami	MXene-Derived TiO2/Starbon Nanocomposite as a Remarkable Electrode Material for Coin-Cell Symmetric Supercapacitor	Small	2024			13.3	4-Jul-2024
28	Dr. A. Ajayaghosh	Dipak Patra, Satyajit Das, Sreejith Shankar, Ayyappanpillai Ajayaghosh	The Nanoarchitectonics of Sustainable Smart Window Design by LCST Modulation of Photoresponsive Molecular ð …-Systems	Adv. Funct. Mater.	2024			18.5	2-Jul-2024
29	T. Maiyalagan	Jining Lin a , K. Karuppasamy , Ranjith Bose , Dhanasekaran Vikraman , Saeed Alameri , T. Maiyalagan f, Hyun-Seok Kim , Akram Alfantazi , Jan G. Korvink , Bharat Sharma	Research trends in electrospun conducting polymers derived CNFs and their composite as the potential electrodes for highperformance flexible supercapacitors	Journal of Energy Storage	2024	Volume 96	112605	8.9	28-Jun-2024
30	Rahul Dev Mukhopadhyay	Kaushik Dey, Kalipada Koner, Rahul Dev Mukhopadhyay, Dinesh Shetty, and Rahul Banerjee	Porous Organic Nanotubes: Chemistry of One- Dimensional Space	Accounts of Chemical Research	2024	57, 13	1839–1850	16.4	17-Jun-2024
31	Maduraiveeran G	Sida Huang, Hanqi Lu, Jin Chen, Chengyi Jiang,b Guanmin Jiang, Govindhan Maduraiveeran, Ying Pan, Jianqiang Liu and Li-Er Deng	Advances in drug delivery-based therapeutic strategies for renal fibrosis treatment	Journal of Materials Chemistry B	2024			7	7-Jun-2024
32	Maduraiveeran G	Mohamed Hefayathullah , Smita Singh , Vellaichamy Ganesan, Govindhan Maduraiveeran	Metal-organic frameworks for biomedical applications: A review	Advances in Colloid and Interface Science	2024	Volume 331 1	103210	15.9	5-Jun-2024

33	Ayyappanpillai Ajayaghosh	Sandip Chakraborty, Anivind Kaur Bindra, Anagha Thomasab, Yanli Zhao and Ayyappanpillai Ajayaghosh	pH-Assisted multichannel heat shock monitoring in the endoplasmic reticulum with a pyridinium fluorophore	Chemical Science	2024			7.6	4-Jun-2024
34	Karthikeyan Sekar	Milan Babu Poudel, Mannix P. Balanay, Prakash Chandra Lohani, Karthikeyan Sekar, Dong Jin Yoo	Atomic Engineering of 3D Self-Supported Bifunctional Oxygen Electrodes for Rechargeable Zinc-Air Batteries and Fuel Cell Applications	Advanced Energy Materials	2024			27.8	28-May-2024
35	Dr. Jayanta Samanta	Yunjia Zhang,Rongran Liang,Benjamin A. Atterberry,Fangzhou Li,Richard J. Staples,Jian Zhang,Jayanta Samanta,Aaron J. Rossini and Chenfeng Ke	Ultradynamic Isoreticularly Expanded Porous Organic Crystals	Journal of the American Chemical Society	2024	146, 22	15525–155	15	23-May-2024
36	Kumaran Vediappan	Desai Prashant Hanamantrao , Kavibharathy Kasiviswanathan, L. Kumaresan , Sajan Raj Sasirajan Littleflower, Saraswathi Ramakrishnan , Baskaran Rangasamy , Kumaran Vediappan	Ultrahigh faradaic NiO anchored carbon-coated Fe- MOF derived Fe3O4 NiO-C@ Fe3O4 as potential electrode for pouch-type asymmetric supercapacitor	Journal of Energy Storage	2024	Volume 91	112118	9.4	22-May-2024
37	Kumaran Vediappan	Saraswathi Ramakrishnan, Sajan Raj Sasirajan Little Flower, Desai Prashant Hanamantrao, Kavibharathy Kasiviswanathan, Divya Catherin Sesu, Kesavan Muthu, Varathan Elumalai, Kumaran Vediappan	Starch Gel Electrolyte and its Interaction with Trivalent Aluminum for Aqueous Aluminum-Ion Batteries: Enhanced Low Temperature Electrochemical Performance	Small (Wiley)	2024			13.3	15-May-2024
38	Dr. S. Ganesan	Monisha Venkatesan, Ganesan Shanmugam, Jeevanantham Arumugam	Spindle shaped Fe-Ni metal organic frameworks wrapped with f-MWCNTs for the efficacious sensing of tartrazine	Food Chemistry	2024	Volume 453	139634	8.8	15-May-2024
39	Dr. E. Varathan	Saraswathi Ramakrishnan, Sajan Raj Sasirajan Little Flower, Desai Prashant Hanamantrao, Kavibharathy Kasiviswanathan, Divya Catherin Sesu, Kesavan Muthu, Varathan Elumalai, Kumaran Vediappan	Starch Gel Electrolyte and its Interaction with Trivalent Aluminum for Aqueous Aluminum-Ion Batteries: Enhanced Low Temperature Electrochemical Performance	Small	2024			13.3	15-May-2024
40	Karthikeyan Sekar	S.C. Karthikeyan , Saleem Sidra, Shanmugam Ramakrishnan, Do Hwan Kim , Prince JJ Sagayaraj, Karthikeyan Sekar , Dong Jin Yoo	Heterostructured NiO/IrO2 synergistic pair as durable trifunctional electrocatalysts towards water splitting and rechargeable zinc-air batteries: An experimental and theoretical study	Applied Catalysis B:Environment and Energy	2024	Volume 355,	124196	22.1	13-May-2024
41	Dr. Samarendra Maji	Anubhab Das, Anashwara Babu, Sourav Chakraborty , Joachim F. R. Van Guyse , Richard Hoogenboom,	Poly(Nâ€i sopropylacrylamide) and Its Copolymers: A Review on Recent Advances in the Areas of Sensing and Biosensing	Advanced Functional Materials	2024			19	11-May-2024
42	Saravanakumar Ayyadura	Naveen Palani, Pradeshwaran Vijayakumar, P. Monisha , Saravanakumar Ayyadurai and Suriyaprakash Rajadesingu	Electrospun nanofibers synthesized from polymers incorporated with bioactive compounds for wound healing	Journal of Nanobiotechnology	2024	27;22(1)	211	10.6	27-Apr-2024
43	Dr. Samarendra Maji	Gomathi Sivakumar, Ajay Gupta, Anashwara Babu, Pijus K. Sasmal ORCID logo and Samarendra Maji	Nitrodopamine modified MnO2 NS-MoS2QDs hybrid nanocomposite for the extracellular and intracellular detection of glutathione	Journal of Materials Chemistry B	2024			7	24-Apr-2024
44	Neppolian B	Rafi, J., Daniel, M. and Neppolian B	Ultrasensitive detection of chloramphenicol in water using functionalized polymers with an Aluminium organic framework	Chemosphere	2024		p.141981	8.1	14-Apr-2024
45	Tumpa Sadhukhan	Rajesh Kushwaha, Virendra Singh, Silda Peters, Ashish Kumar Yadav, Tumpa Sadhukhan, Biplob Koch, and Samya Banerjee	Comparative Study of Sonodynamic and Photoactivated Cancer Therapies with Re(I)- Tricarbonyl Complexes Comprising Phenanthroline Ligands	Journal of Medicinal Chemistry	2024	67, 8	6537–6548	7.3	11-Apr-2024
46	Dr T. Maiyalagan	Madasu Sreenivasulu, Ranjan S. Shetti, Selvam Mathi,Thandavarayan Maiyalagan, Nagaraj P. Shetti	Ni-tethered MoS2: In-situ fast reduction synthesis as an ultra-durable and highly active electrocatalyst for water splitting and urea oxidation	Materials Today Sustainability	2024	Volume 26	100782	7.8	5-Apr-2024
47	Karthikeyan Sekar	Venkatesh Madhu, Sivakalai Mayakrishnan, Jeevithra Muthu, Karthikeyan Sekar, and Sugunalakshmi Madurai	Winâ"Win Approach Toward Chrome-Free and Chrome-Less Tanning with Waterborne Epoxy Polymers: A Sustainable Way To Curb the Use of Chrome	ACS Sustainable Chemistry and Engineering	2024	12, 16	6082–6092	8.4	5-Apr-2024
48	Neppolian B	Stesho Crystalin Lazuli, A. R., Ramalingam, V. and Neppolian B	Promoting nitrogen photofixation for the synthesis of ammonia using oxygen-vacant Fe2O3/ZrO2 visible light photocatalyst with straddling heterojunction and enhanced charge transfer	Journal of Cleaner Production	2024		p.142095	9.7	2-Apr-2024
49	Dr. Venkatramaiah Nutalapati	Mallikarjuna Swamy Shabanur Matada , Guru Prasad Kuppuswamy , Sheethal Sasi, Surya Velappa Jayaraman, Venkatramaiah Nutalapati, Shanmugam Senthil Kumar , Yuvaraj Sivalingam	Pyrene Derivative Incorporated Ni MOF as an Enzyme Mimic for Noninvasive Salivary Glucose Detection Toward Diagnosis of Diabetes Mellitus	ACS Applied Materials and Interface	2024	16(14)	17219-1723	9.5	1-Apr-2024
50	Dr. Karthikeyan Sekar	Milan Babu Poudel, Mannix P. Balanay, Prakash Chandra Lohani, Karthikeyan Sekar, and Dong Jin Yoo	Atomic Engineering of 3D Self-Supported Bifunctional Oxygen Electrodes for Rechargeable Zinc-Air Batteries and Fuel Cell Applications, , 2024,	Advanced Energy Materials	2024			27.8	
51	Dr. T. Maiyalagan	Dr T. Maiyalagan	Towards greener energy storage: Brief insights into 3D-printed anode materials for sodium-ion batteries	Current Opinion in Electrochemistry	2024	Volume 45	101482	8.5	30-Mar-2024
52	Dr. G. Maduraiveeran	S. Marimuthu, NRK. Yabesh, and G. Maduraiveeran	Metal-organic frameworks-based single-atom catalysts: From synthesis to sustainable electrocatalytic systems	Materials Today Chemistry	2024	Volume 37	102035	7.3	29-Mar-2024
53	Dr. Rajendra Kumar Konidena	Rajendra Kumar Konidena	Rational Molecular Design via Cyanobenzene Integration for Constructing Efficient Yellowâ€O range Thermally Activated Delayed Fluorescence Emitters	Advanced Optical Materials	2024			9	26-Mar-2024
54	Dr. D. Paradesi	M. Siva and D. Paradesi	Sulfonated Cobalt Metalâ"Organic Framework Embedded Mixed Matrix Membrane towards Fuel- Cell Applications	ACS Applied Materials & Interfaces	2024	16, 12	14712–14721	9.5	14-Mar-2024
55	Dr. A. JOHN BOSCO	Moorthy Ganasekaran Narendran, Silda Peters, Arul Jothy John Bosco, Gopalram Keerthiga, Bernaurdshaw Neppolian,	Pioneering Exploration of Mo2AlB2-Transition- Metal-Aluminum-Boron-Phase-Supported Hydrophobic SrTiO3/Mo2AlB2 Nanocomposite for Improves Photocatalytic Carbendazim Degradation and CO2 Reduction to Ethanol through the Schottky Junction	Solar RRL	2024			9.173	12-Mar-2024
56	Dr. Srinivasarao Kancharla	Sajith Babu M K, Yeoung-Sang Yun, Srinivasarao Kancharla	Covalent organic frameworks for critical metal recycling from waste	Coordination Chemistry Reviews	2024	Volume 507	215699	20.6	4-Mar-2024
57	Dr. Vadivel S	Vadivel S	Multi-functional energy conversion by strongly coupled Ag3PO4 /ZIF- 67 heterostructures	Journal of Environmental Chemical Engineering	2024	Volume 12, Issue 2,	112283	7.7	1-Mar-2024

58	Dr. Karthikeyan Sekar	Karthikeyan Sekar	Pyridinic-N exclusively enriched CNT encapsulated NiFe interfacial alloy nanoparticles on knitted carbon fiber cloth for bifunctional oxygen catalysts and biaxially flexible zinc-air batteries	Journal of Materials Chemistry A	2024			11.9	1-Mar-2024
59	Dr T. Maiyalagan	Dr T. Maiyalagan	A novel one-pot synthesis strategy for Î²-Mn2V2O7 nanorods synthesized via 1-(3,6-dioxa heptane) 3- methyl imidazolium methane sulfonate-assisted hydrothermal route for sustainable and on-demand advanced supercapacitor electrodes and as negative electrode materials for Li-ion batteriesA novel one-pot synthesis strategy for Î²-Mn2V2O7 nanorods synthesized via 1-(3,6-dioxa heptane) 3- methyl imidazolium methane sulfonate-assisted hydrothermal route for sustainable and on-demand advanced supercapacitor electrodes and as negative electrode materials for Li-ion batteries	Journal of Energy Storage	2024	Volume 85	111076	9.4	1-Mar-2024
60	Dr. Srinivasarao Kancharla	Madhumitha Manickasundaram, Kumaresan Lakshmanan, Kumaran Vediappan, Srinivasarao Kancharla	Chitosan-based copper recovery from e-waste and its application in sustainable energy storage	Chemical Engineering Journal	2024	Volume 484	149605	15.1	13-Feb-2024
61	Dr. E. Varathan	Gayathri Chellasamy a, Elumalai Varathan b, Karthikeyan Sekar b, Sada Venkateswarlu c, Saravanan Govindaraju a,*, Kyusik Yun	Single-atom catalysts for biosensing: Progress in theoretical and mechanistic understanding	Coordination Chemistry Reviews	2023	Volume 502,	215606	20.6	26-Dec-2023
62	Dr. Prasant Kumar Nayak	Aneesh Anand Nechikott, Hyun Deog Yoo, Prasant Kumar Nayak	A mixed dual-ion electrolyte for high rate performance and remarkable cycling stability of NaMnO2 in hybrid supercapacitors	Journal of Power Sources	2023	Volume 591	233825	9.2	18-Nov-2023
63	Dr. Karthikeyan Sekar	Brahmari Honnappa, T. R. Naveen Kumar,a Prince J. J. Sagayaraj, Sulakshana Shenoy,c Chitiphon Chuaicham,c Manova Santhosh Yesupatham, Anantharaj Sengeni, Bernaurdshaw Neppolian, Keiko Sasaki and Karthikeyan Sekar	Unveiling the bifunctional role of morphological differences of self-supported Cu(OH)2 in electrocatalysis	Journal of Materials Chemistry A	2023	11	25854-25858	11.9	15-Nov-2023
64	Dr. G. Maduraiveeran	Ayyavu Shankar, Sundaramoorthy Marimuthu‡a and Govindhan Maduraiveeran	High-Valent Iron Single-Atom Catalysts for Improved Overall Water Splitting via Reducing Energy Barrier and Stabilization of Active Center	Journal of Materials Chemistry A	2023			11.9	9-Nov-2023
65	Dr. Swami Anita Subhash	Carolin Mercy Enoch, Sagar Ingavale, Phiralang Marbaniang, Indrajit Patil ORCID logo and Anita Swami	Molten Salt- Directed Synthesis of Strontium Manganese Perovskite Oxide: An Active Electro- Catalyst for Oxygen Reduction Reaction and Oxygen Evolution Reaction	Journal of Materials Chemistry A	2023	11	21780	11.9	18-Sep-2023
66	Dr. Helen Annal Therese	Premkumar Jayaraman and Helen Annal Therese	Flexible interdigitated symmetric solid-state micro-supercapacitors with higher energy density for wearable electronics	Journal of Power Sources	2023	Volume 581	233489	9.2	8-Aug-2023
67	Dr. karthikeyan Sekar	s. Anantharaj.P, JJ.Sagayaraj, M. S.Yesupatham, R. Arulraj, K. Eswaran, K. Sekar and S. Noda, J. Mater, Chem . A, 20	The refernce electro dilemma in energy conversion electrocatalysis: " Right vs Okay vs wrong	Journal of Materials Chemistry A	2023	33,11	17699-17709		24-Jul-2023
68	Dr. T. Maiyalagan	Tingting Hu , Weiheng Chen , Yubing Liu , Longxiang Gong , Zhongqing Jiang , Dinesh Bhalothia , Thandavarayan Maiyalagan , Zhong-Jie Jiang	Plasmaâ€Ì nduced Formation of Pt Nanoparticles with Optimized Surface Oxidation States for Methanol Oxidation and Oxygen Reduction Reactions to Achieve Highâ€P erformance DMFCs	Small	2023	19(46)	e2304076	15.5	18-Jul-2023
69	Dr. Karthikeyan Sekar	Elumalai Varathan, Karthikeyan Sekar	Experimental and simulation studies of bioinspired Au-enhanced copper single atom catalysts towards real-time expeditious dopamine sensing on human neuronal cell	Chemical Engineering Journal	2023	Volume 471	144842	15.1	16-Jul-2023
70	Dr. B. Natarajan	Raman Rajagopalan, Shyam Shankar S, Natarajan Balasubramaniyan, Ganesh D. Sharma	Simple and Efficient Acceptorâ''Donorâ''Acceptor- Type Non-fullerene Acceptors for a BODIPYâ''Thiophene-Backboned Polymer Donor for High-Performance Indoor Photovoltaics	ACS Applied Materials and Interfaces	2023	15	13405-13414	10.38	1-Mar-2023
71	Dr. S. Karthikeyan	SulakshanaShenoyaChitiphonChuaich amaTakamasaOkumurabKarthikeyan SekarcKeikoSasaki	Simple tactic polycondensation synthesis of Z- scheme quasi-polymeric g-C3N4/CaFe2O4 composite for enhanced photocatalytic water depollution via p-n heterojunction	Chemical Engineering Journal	2022	Volume 453, Part 2	139758	16.74	14- Oct.2022
72	Dr. K.K. R.Datta	Iniya Prasanthi Barsha Rani Borab Kalyan Raidongia K.K.R.Datta	Fluorinated graphene nanosheet supported halloysite nanoarchitectonics: Super-wetting coatings for efficient and recyclable oil sorption	Separation and Purification Technology	2022	Volume 301,	122049	9.136	5-Sep-2022
73	Dr. Helen Annal Therese	Kumuthini Rajendran , Ramachandran Rajendran, Allen Joseph Anthuvan , Ponpandian Nagamony , Helen Annal Therese	Polyethylene glycol assisted synthesis of pristine vanadium tetrasulfide nanostructures as high performance electrode material for symmetric supercapacitors	Journal of Energy Storage	2022	51	104401	6.583	21-Mar-2022
74	Dr. Karthikeyan Sekar	Harmandeep Kaur, Manpreet Singh, Harjinder Singh, Manvir Kaur, Gurbir Singh, Karthikeyan Sekar and Tejwant S. Kang	Zinc chloride promoted the inimitable dissolution and degradation of polyethylene in a deep eutectic solvent under white light	Green Chemistry	2022	7. 24	2953-2961	10.182	5-Mar-2022
75	Dr. Tanay Kundu	Adrián Gutiérrez-Serpa,Tanay Kundu,Jorge Pasán,Ana I. Jiménez- Abizanda,Stefan Kaskel,Irena Senkovska and Verónica Pino	Zirconium-Based MetaI–Organic Framework Mixed- Matrix Membranes as Analytical Devices for the Trace Analysis of Complex Cosmetic Samples in the Assessment of Their Personal Care Product Content	ACS Appl. Mater. Interfaces	2022	14, 3	4510–4521	10	10-Jan-2022
76	Dr. Karthikeyan Sekar	Chitiphon Chuaicham, Karthikeyan Sekar, YihuangXiong, Vellaichamy Balakumar,YanisaMittraphab, Kuniyoshi Shimizu, Bunsho Ohtani, Ismaila Dabo, Keiko Sasaki	Single-step synthesis of oxygen-doped hollow porous graphitic carbon nitride for photocatalytic ciprofloxacin decomposition	Chemical Engineering Journal	2021	Volume 425, 1	130502	10.652	1-Dec-2021
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