

DEPARTMENT OF CHEMISTRY
SRM INSTITUTE OF SCIENCE AND TECHNOLOGY KATTANKULATHUR

NATURE INDEXED JOURNAL

S. No.	Name of the faculty	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	Rahul Dev Mukhopadhyay	Mingyu Kim, Rahul Dev Mukhopadhyay, Kmoon Kim, Ilha Hwang	Spatiotemporal generation of alternating disparate pH domains via audible sound controlled opposing enzymatic reactions	Chemical Communications	2025	61	2321-2324	4.2	13.01.2025
2	Helen Annal Therese	Jenny Johnson, Saran Raj Sasirajan Littleflower, Kumaran VEDIAPPEN, Helen Annal Therese	Alleviating Mn Ion Dissolution in LIMn ₂ O ₄ by Activation of TiO ₂ Lewis Acid Sites in Electrospun PVA/TiO ₂ Quasi-Solid Polymer Electrolyte	Nano Letters	2025	25 (15)	5983-5988	9.6	28.02.2025
3	Govindhan Maduraiveeran	Mariyarthanan Vinoth Inbaraj, Govindhan Maduraiveeran	Single-site carbon layer-based flexible interdigitated micro-supercapacitor: custom miniaturization and surface functional engineering	Chemical Communications	2025	61	5459-5462	4.2	17.03.2025
4	Anju Vakakuzhiyl Gopinathan	Shruti Suriyakumar, Indu M. Santhakumari, Souvik Ghosh, Anju Vakakuzhiyl Gopinathan, Socraj Kunnikuravan, Manikoth M. Shajumom	Fluorine-rich interface for garnet-based high-performance all-solid-state lithium batteries	Chemical Science	2025	16	7811-7821	7.6	08.04.2025
5	Swaminathan Shanmugan	Sankar Sathish, Kanakarasu Dharmaraj, Shobhana Krishnaswamy, Swaminathan Shanmugan	Development of Underwater Oleophobic and Underoil Hydrophobic Strontium(II)-Cyclotriphosphazene Hexacarboxylate Framework with Prewetting-Induced Switchable Wettability and Self-Cleanability for Continuous Oil-Water Mixture and Emulsion Separations	Inorganic Chemistry	2025	64 (22)	10817-10839	4.3	25.05.2025
6	Rajorshi Das	Chandra Shekhar Tiwari, Aditya Dey, Rajorshi Das, Arnab Rit	Efficient Nonlinear Communication between Two Distally Located Metal Centers in NHC-Supported Homobimetallic Complexes	Inorganic Chemistry	2025	64 (28)	14531-14538	4.3	21.07.2025
7	Soumyajit Ghosh	Deepak Manoharan, Arita Bhowmik, Manish Kumar Mishra, Soumyajit Ghosh	Water-driven modulation of multiresponsive properties in acylhydrazones-based crystals	Chemical Communications	2025	61	12139-12142	4.2	04.07.2025
8	Jayanta Samanta	Javed R. Pathan, Xinyu Pang, Sarah C. Olsen, A. Mercy Abarna, Richard J. Staples, Jayanta Samanta, Vladimir B. Birman, Chenfeng Ke	Macrocyclic Side Chain Crowding Enables Tunable Curvature from Planar to Wrinkled and Wavy Hydrogen-Bonded Sheets	Journal of American Chemical Society	2025	147 (32)	28570-28576	15.6	30.07.2025
9	Venkatramiah Nutalapati	P. Keethika, Seung Won Han, Ankit Kumar, Venkatramiah Nutalapati, Kenkera Rayappa Naveen, Jun Yeob Lee, Rajendra Kumar Konidena	A double interlocking strategy for narrowband ultraviolet emitters (CIEy = 0.029) with dual functionality for efficient OLEDs	Chemical Communications	2025	NA	NA	4.2	11.07.2025
10	Samarendra Maji	Gomathi Sivakumar, Anashwara Babu, Bholanath Ghanti, J. Swathi, Silambarasan R, Venkatramiah 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
11	Kasibhatta K. R. Datta	Sonali Roy, Priyamjeet Deka, Raktim Gogoi, Mrityunjay Dey, Kiran Mayawad, Bikash K. Das, Kasibhatta K. R. Datta, Kalyan Raidongia, Advanced Functional Materials, 2024	Fabrication of Robust Forward Osmosis Membrane by Assembling FeOx/Cly Nanoparticles	Advanced Functional Materials	2024			18.5	22-Oct-2024
12	Kumaran V	Sajan Raj Sasirajan Littleflower, Vaishnavi Dhanapal, Saraswathi Ramakrishnan, Desai Prashant Hanamantrao, Karthick Kumar, Kumaran VEDIAPPAN	Polaron inhibited [2-triazine bis- phosphate (v)] as low potential polyanionic negative electrode for lithium-ion batteries	Applied Physics Letters (Nature Index Journal)	2024	125	103904	3.5	4-Sep-2024
13	M. Ganeshpandian	Chezhian Sumithaa , Kaman Sugantharam , Aswathy Karanath-Anilkumar , Ganesh Munuswamy-Ramanujam , Mani Ganeshpandian	RAPTA-coordinated polydiacetylene self-assembly: A chameleon-like prodrg with a dual-lock strategy for real-time release monitoring of	Chemical Communications	2024	Volume 60, Issue 71,	Pages 9566-9569	4.3	14-Aug-2024
14	Dr. P. Gopinath	Ridhee BondaNishant MishraAnubhuti BhatiaKalash Prasad PrajapatiAditya Yogesh AcharyaTamilvelan ManjunathanPushparathinam GopinathKarunakar Kar*Bibin Gnanadhasan Anand*	Tailoring the Molecular Structure of 6-Gingerol for Targeting the Phase Separation in Human Lysozyme	The Journal of Physical Chemistry letters	2024	Vol 15/Issue 31		4.5	31-Jul-2024
15	Bernaardshaw Neppolian,	Nasrin Banu G, Rama Prakash M, Anantharaj Sengeni, and Bernaardshaw Neppolian	Ruthenium-infused nickel sulphide p	Chemical Communications	2024	60	10496-10499	4.3	29-Jul-2024
16	Dr. Rahul Dev Mukhopadhyay	Rahul Dev Mukhopadhyay	A template for artificial life	Nat. Chem.	2024			19.2	23-Jul-2024
17	Dr. A. Ajayaghosh	Dipak Patra, Satyajit Das, Sreejith Shankar, Ayyappanpillai Ajayaghosh	The Nanoarchitectonics of Sustainable Smart Window Design by LCST Modulation of Photoresponsive Molecular 0 Systems	Adv. Funct. Mater.	2024			18.5	2-Jul-2024
18	Tarak Nath Mandal	Subhaji Dutta, Soumya Mukherjee, Sousa Javan Nikkhah, Omid T. Qazvini, Gourab K. Dam, Matthias Vandichel, Tarak Nath Mandal, and Sujit K. Ghosh	Hemilabile Binding of Acetylene in an Amide-Rich Ultramicroporous MOF Enables Strong Acetylene Selectivity	Inorganic Chemistry	2024	63 (27)	12404-10408	4.3	24-Jun-2024
19	Ayyappanpillai Ajayaghosh	Sandip Chakraborty, Anivind Kaur Bindra, Anagha Thomas, 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
20	Karthikeyan Sekar	Prince J. J. Sagayaraj, and Karthikeyan Sekar	Crystalline/amorphous nickel sulfide interface for high current density in alkaline HER: Surface and Volume confinement matters	Chemical Communication	2024	60	6817-6820.	4.9	29-May-2024
21	Jayanta Samanta	Yunjia Zhang, Rongran Liang, Benjamin A. Atterberry, Fangzhou Li Richard J. Staples, Jian Zhang, Jayanta Samanta	Ultradynamic Isoreticularly Expanded Porous Organic Crystals	Journal of the American Chemical Society	2024	146 (22)	15525-15537	14.4	23-May-2024

32	Gopal Chandru Senadi	Swetha Sathyendran, Kesavan Muthu, Karthick Govindan, Nian-Qi Chen, Wei-Yu Lin, and Gopal Chandru Senadi*	FeCl ₃ -Catalyzed Decyanative [4 + 2] Annulation of 1 α -Aminonitriles with Alkynes: Access to 2,4-Diaryl Quinolines in Batch and Continuous-Flow Processes	Organic Letters-Nature Indexed	2023	25, 22	4086–4091	6.072	25-May-2023
33	E. Varathan	Abigail Jennifer G., Yang Gao, Georg Schreckenbach, and Elumalai Varathan	Periodic Trends in the Stabilization of Actinyls in Their Higher Oxidation States Using Porphyrin Ligands	ACS Publications	2023	62, 18	6920–6933	5.436	27-Apr-2023
34	Tumpa Sadhukhan	Faculty: Tumpa Sadhukhan	Chemomechanical modification of quantum emission in monolayer WSe ₂	Nature Communications	2023	14,	2193	17.694	17-Apr-2023
35	Tumpa Sadhukhan	Ganghao Liang, Tumpa Sadhukhan, Samya Banerjee, Dongsheng Tang, Hanchen Zhang, Minhui Cui, Nicolas Montesdeoca, Johannes Karges, Haihua Xiao	Reduction of Platinum(IV) Prodrug Hemoglobin Nanoparticles with Deeply- Penetrating Ultrasound Radiation for Tumor-Targeted Therapeutically Enhanced Anticancer Therapy	Angewandte Chemie International Edition	2023	16, 6	https://doi.org/10.1002/anie.202301074	16.823	24-Mar-2023
36	KARTHIKEYAN SEKAR	Mani Preeyanghaa, Chitiphon Chusichom, Sulekshana Shenoy, Bernaudshaw Neppolian, Keiko Sasaki and Karthikeyan Sekar	All-alkyne hollow nanotubes of g- C ₃ N ₄ Converting Photons into Fuel by Splitting Water	Chemical Communications	2023	36, 59	5399-5402	6.065	21-Mar-2023
37	E. Varathan	Yang Gao, Abigail Jennifer G., Elumalai Varathan and Georg Schreckenbach	Understanding the Coordination Chemistry of AmIII/CmIII in the DOTA Cavity: Insights from Energetics and Electronic Structure Theory	Inorganic Chemistry	2023	62, 7	3229–3237	5.436	20 - Feb- 2023
38	Maduraiveeran G	S. Marimuthu, A. Shankar and G. Maduraiveeran	FeCoP nanosheets on NiO nanoparticles as electrocatalysts: tuning and stabilizing active sites for water splitting	Chemical Communications	2023	18, 59	2600-2603	6.01	25-Jan-2023
39	Dr.S.Ganesan	Eswaramoorthi Thiruganasambandam Ganesan Shanmugam and Arif Mohamed Shahul Hameed	Energy Enhancement of a Nickel ^{II} Cobalt-Mixed Metallic Metal ^{II} Organic Framework Electrode and a Potassium Iodide Redox Mediator Bound with an Aqueous Electrolyte for High-Performance Redox-Aided Asymmetric Supercapacitors	Inorganic Chemistry (Nature Index Journal)	2022	61, 44,	17873–17882	5.436	25-Oct-2022
40	G. Maduraiveeran	Jesse S. Dondapati,a Maduraiveeran	Direct growth of three- dimensional nanoflower-like structures from flat metal surfaces	Chemical Communications	2022	79, 58	11127-11130	6.1	5-Sep-2022
41	Dr. Priyadip Das	Madhuri Basak , Abhishek Singh Sengar, Kiran Das , Tarun Mahata, Manish Kumar, Dinesh Kumar, Sayan Biswas, Subhasish Sarkar , Pranesh Kumar, Priyadip Das, Adele Stewart, and Biswanath Maity	A RGS7-CaMKII complex drives myocyte-intrinsic and myocyte- extrinsic mechanisms of chemotherapy-induced cardiotoxicity	Proceedings of the National Academy of Sciences of the United States of America (PNAS)	2022	120 (1)	e2213537120	12.779	27-Dec-2022
42	Dr. E. Varathan	Yang Gao , Elumalai Varathan , Payal Grover, Georg Schreckenbach	Computational Characterization of AcIII-DOTA Complexes in Aqueous Solution	Inorganic Chemistry	2021	60	6971-6975	4.82	22-Feb-2021
43	Arthanareeswari M	Rakesh Chandrakant Prabhu, Arthanareeswari Maruthapillai, and Gopal Chandru Senadi,	Use of Stage-Wise AQBd and an Orthogonality Approach to Develop a Short-Run-time Method for the Simultaneous Quantification of Bosentan and Impurities using UPLC Equipped with PDA and ESI-MS,	Analytical Chemistry	2021	93, 9	4175–4182	6.785	21-Jan-2021
44	Dr.S.Ganesan	Balamurugan Selvaraj, Ganesan Shanmugam, Santhosh Kamaraj, Ahalya Gunasekaran, and Anandan Sambandam	Effect of 1 Substituted 2 (Pyridin 2-yl) 1H Benzo[d]imidazole Ligand- Coordinated Copper and Cobalt Complex Redox Electrolytes on Performance of	Inorganic Chemistry	2021	60	1937-1947	4.85	15-May-2020
45	Gopal Chandru Senadi	Balaji Ganesan, Karthick Govindan, Gopal Chandru Senadi, Mohanraj Kandasamy and Wei-Yu Lin	Copper-catalyzed synthesis of aminoquinolines from β -(2- aminophenyl)- α,β -yones using DMF as dual synthon	Chemical Communication	2020	48, 56	6488-6491	4.9	1-May-2020
46	Soumyajit Ghosh	Mari Annadhasan, Durga Prasad Karothu, Ragaverthini Chinnasamy, Luca Catalano, Ejaz Ahmed, Soumyajit Ghosh, Pance Naumov, Rajadurai Chandrasekar	Microm. anipulation of Mechanically Compliant	Angewandte Chemie	2020	59	13821-13830	12.257	1-May-2020
47	P. Gopinath	Mahmood Haj-Yahya, Pushparathinam Gopinath, Kolla Rajasekar, Hilda Mirbaha, Marc I. Diamond, and Hilal A. Lashuel	Site- specific Hyperphosphorylation Inhibits, Rather than Promotes, Tau Fibrillization, Seeding Capacity, and its Microtubule Binding	Angew Chem Int Ed Engl	2020	59(10)	40594067.	16.6	18-Jul-2018
48	Soumyajit Ghosh	Manish Kumar Mishra, Sourabh B. Kadambadi, Upadrasta Ramamurty and Soumyajit Ghosh	Elastic flexibility tuning via interaction factor modulation in molecular crystals	Chemical Communications	2018	65, 54	9047-9050	6.2	18-Jul-2018