

PUBLICATIONS

Citations: 2650, *h*-index-23, *i*-index:50

No.	Details	Journal name, Year, Vol, Pages	Impact Factor
84.*	Megha S N, Yaduchandran, Abhay Sagade, V. Balakrishnan, Alexandre Courec, Kiran Mangalampalli* Hexagonal Silicon Formation and Its Phase Transformability (Corresponding Author)	Advanced Functional Materials 2025 https://doi.org/10.1002/adfm.202425188	18.5 Q1
83.*	Jeena George,¹ Hajeesh K. Vikraman,¹ Rahul S. Ghuge,¹ Rence P. Reji,¹ Surya V. Jayaraman,^{2,*} Gabriele Magna³, Roberto Paolesse³, Yuvaraj Sivalingam,^{4,*} Corrado Di Natale,⁵ and S.R.N. Kiran Mangalampalli^{1,*} Self-powered, Highly-Sensitive, and Super Selective Ammonia Sensor with IoT Real-Time Monitoring (Corresponding Author)	SMALL 2025, 2502324 (1-18) https://doi.org/10.1002/sml.202502324	13.5 Q1
82.	Sreelakshmi M R, Rahul S G, Hajeesh K V, Kiran Mangalampalli, Yuvaraj Sivalingam, S. V. Bhat, ZnO/CuI Heterojunction UV-Photovoltaic Gas Sensor for Self-powered IoT-Integrated n-Butylamine VOC Detection	Advanced Materials Technologies, 2025, 70049 (1-13) https://doi.org/10.1002/admt.202500456	6.4 Q1
81.	P. W. Vanaraj, L. Ravi, S. P. Patole, D. H. Anjum, S. N. Megha, M. S. R. N. Kiran, Suresh Perumal and Ravikirana Impact of atomic size misfit on lattice distortion in AlFeCoNiX (X = Cr/Mn/Zr) multicomponent alloys.	Journal of Materials Science 2025 https://doi.org/10.1007/s10853-025-10681-4	3.5 Q1
80.	Sachin Varma, Megha Sasidharan Nisha, Kiran Mangalampalli, Payel Bandyopadhyay, Unveiling the	Engineering Research Express, 2025, 7, 015431	-

	effect of curing parameters in the mechanical properties of dental polymer	https://doi.org/10.1088/2631-8695/adbcf7	
79.	Highly Selective, Room-Temperature Triethylamine Sensor Using Humidity-Resistant Novel TiZn Alloy Nanoparticles-Decorated MoS ₂ Nanosheets Hajeesh K Vikraman, Jeena George, Rahul Ghuge, Rence P Reji, Surya V Jayaraman, Kawazoe, Yuvaraj Sivalingam, Kiran Mangalampalli* (Corresponding Author)	SMALL 2024, 2408500 https://doi.org/10.1002/sml.202408500	13.3 Q1
78.	Transparent TiO ₂ /MoO ₃ heterojunction-based photovoltaic self-powered Triethylamine gas sensor with IoT-enabled smartphone interface Rahul Ghuge, Rekha Sreelakshmi, Hajeesh K Vikraman, Surya V Jayaraman, Kiran Mangalampalli , S. V. Bhat, Yuvaraj Sivalingam	ACS Sensors 2024, In Press	6.94 Q1
77.	Orthogonal and antenna effects on the chemosensing behaviour of porphyrins towards 2,4,6-trinitrophenol: Colour recognition and portable photodiode device P. Palanisamy, M. Anandan, Hajeesh K. Vikraman, G. Raman, S.R.N. Kiran Mangalampalli , Venkatramaiah Nutalapati,	J. Luminescence 2024, In Press https://doi.org/10.1016/j.jlumin.2024.120988	3.28 Q2
76.	Realizing low thermal conductivity in Cr-doped nanostructured higher manganese silicide Madhuvathani Saminathan, Saravanan Muthiah, Rajasekar Parasuraman, Debattam Sarkar, Kiran Mangalampalli , Suresh Perumal	Ceramic International 2024, 50, 33599 - 33606 https://doi.org/10.1016/j.cerami.2024.06.176	5.2 Q1
75.	Self-powered photoactive room temperature gas sensors based on porphyrins functionalized ZnO nanorods/p-Si heterostructure. Bora Arbacheena, George Jeena, Sivalingam Yuvaraj, Velappa Jayaraman Surya, Magna Gabriele, Kiran Mangalampalli , Paolesse Roberto, Di Natale Corrado	J. Mater. Chem C 2024, 12, 9968-9977 https://dx.doi.org/10.1039/d4tc00927d	6.4 Q1

74.	High thermoelectric performance in <i>p</i> -type ZnSb upon Zn vacancies: An experimental and theoretical study Jothilal Palraj, Muhammad Sajjad, Manojkumar Moorthy, Madhuvathani Saminathan, Bhuvanesh Srinivasan, Nirpendra Singh, Rajasekar Parasuraman, Shashikant P. Patole, Kiran Mangalampalli,* (Corresponding Author) and Suresh Perumal	J. Mater. Chem. A 2024 12, 13860-13875, 10.1039/D3TA07605A	11.9 Q1
73.	Ultrafast Self-Powered Ti–Zn–N Photodetector-Based Optocoupler for Power Electronics Applications Jeena George, Hajeesh K Vikraman, Eswaramoorthy Varadharaj, Yuvraj Sivalingam, and Kiran S R N Mangalampalli* (Corresponding Author)	Energy Technology 2024 12, 2301608 10.1002/ente.202301608	4.02 Q2
72.	Self-Powered Photodetectors with Nickel-Doped ZnO Nanorods for Operation in Low-Light Environments Bora Arbachena, George Jeena, Sivalingam Yuvaraj, Velappa Jayaraman Surya, Magna Gabriele, Kiran Mangalampalli , Vesce Luigi, Paolesse Roberto, Di Natale Corrado	ACS Applied Nano Materials 2024, 2024, 7, 8, 9324–9336 10.1021/acsanm.4c00725	5.9 Q1
71.	Polymorphism-driven Distinct Nanomechanical, Optical, Photophysical, and Conducting Properties in a Benzothiophene-quinoline Dr. K. S. Bejoymohandas, Ashish Redhu, Dr. Chithra H. Sharma, Dr. Sunil SeethaLekshmi, I. S. Divya, Dr. M. S. R. N. Kiran , Prof. Madhu Thalakulam, Dr. Filippo Monti, Prof. Rajesh V. Nair, Dr. Sunil Varughese	Chemistry - A European Journal 2024, 30, e202303558 10.1002/chem.202303558	5.03 Q1
70.	Electrical transport properties and impedance analysis of Pt/TiO ₂ Nanorods/FTO heterojunction device Guru Prasad Kuppuswamy a, Mallikarjuna Swamy,Shabanur Matada, Gobinath Marappan, Rupavars hini Manoharan, Megha S N, Kiran S R N Mangalampalli,* Surya Velappa Jayaraman, Yuvaraj Sivalingam,*	Surfaces and Interfaces 43, 2023, 103554 https://doi.org/10.1016/j.surfin.2023.103554	6.3 Q1

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69.	Unprecedented Multifunctionality in Novel Monophase Micro/Nanostructured Ti-Zn Alloy Hajeesh Kumar Vikraman, Jeena George, Rence P. Reji, Guru Prasad Kuppuswamy, Sanjay. D. Sutar, Anita Swami, Sharmiladevi Ramamoorthy, Anandhakumar Sundaramurthy, Sumit Pramanik, Surya Velappa Jayaraman, Suresh Perumal, Yuvaraj Sivalingam,* S. R. N. Kiran Mangalampalli* (Corresponding Author)	SMALL, 2023, 2305126 10.1002/sml.202305126	13.3 Q1
68.	Dehydration-Driven Nanomechanical Responses of the Antiviral Drug EIDD-1931 Indira S. D, A.Mondal, S. Bhunia, Kiran S. R. N. Mangalampalli, J. John, C. M. Reddy, and S.Varughese	Cryst. Growth Design 2023, 23, 4, 2550–2560 10.1021/acs.cgd.2c01445	4.07 Q1
67.	Designing the Mechanical Plasticity of Benzylidene Indanones Based Molecular Crystals by Crystal Engineering Deepak Manoharan, Megha S. N., Mangalampalli S. R. N. Kiran, Franziska Emmerling, Biswajit Bhattacharya, and Soumyajit Ghosh	Crystal Growth and Design 2023, 23, 2, 657–661 https://doi.org/10.1021/acs.cgd.2c01137	4.07 Q1
66.	Plastic Deformation in a Molecular Crystal enables a Piezoresistive Response Avantika Hasija, Amy Thompson, Lakhvir Singh, Megha, S. N., Kiran S. R. N. Mangalampalli, John. C. McMurtrie, Mitradip Bhattacharjee, Jack K. Clegg, Deepak Chopra	SMALL 2206169 (1 of 8), 2022 https://doi.org/10.1002/sml.202206169	15.5 Q1
65.*	EDITORIAL: Advances in Multi-Scale Mechanical Characterization Kiran Mangalampalli,* Pijush Ghosh, Fabien Volpi, Daniel Kiener and Alexey Useinov (Corresponding Author)	Journal of Applied Physics 132, 220401, 2022 https://doi.org/10.1063/5.0135275	2.87

64.	Editor's Pick article: VS Kathavate, K Eswar Prasad, Mangalampalli SRN Kiran, Yong Zhu, Mechanical characterization of piezoelectric materials: A perspective on deformation behavior across different microstructural length scales	Journal of Applied Physics, 132 (12), 121103, 2022 https://doi.org/10.1063/5.0099161	2.87
63.*	EDITORIAL: Advances in Functional and Structural Ceramics: Development, characterization, and applications Mangalampalli SRN Kiran,* D Pamu, R Lakshmi Narayan, K Eswara Prasad, Suresh Perumal, Srinivasa Rao Bakshi (Corresponding Author)	Ceramics International 2022, 48, 28763-28765 10.1016/j.ceramint.2022.08.101	5.57
62.	Investigation on the structural and electrical behavior of bioactive $\text{Ca}_{10}(\text{PO}_4)_6(\text{OH})_2 - \text{K}_{0.5}\text{Na}_{0.5}\text{NbO}_3$ ceramic Subingya Pandey, Apurba Das, Kiran SRN Mangalampalli, Pamu Dobbidi	Ceramics International 2022, 48, 29465-29477 10.1016/j.ceramint.2022.06.224	5.57
61.*	Novel Ternary Nitride Thin Film-Based Self-Powered, Broad Spectral Responsive Photodetector with a High Detectivity for Weak Light Jeena George, Hajish Kumar V, Recnce Reji, M. Ghanashyam Krishna, Surya Velappa Jayaraman, Yuvaraj Sivalingam, Kiran Mangalampalli* (Corresponding Author)	Advanced Materials Technologies 2022, 2200645 (1-12) https://doi.org/10.1002/admt.202200645	8.875
60.	Shashi Priya Balmuchu, S.R.N. Kiran Mangalampalli, Pamu Dobbidi, Dielectric spectroscopy and ferroelectric studies of multiferroic bismuth ferrite modified barium titanate ceramics for energy storage capacitor applications	Materials Science and Engineering B 2022, 282, 115791 https://doi.org/10.1016/j.mseb.2022.115791	4.07
59.	Prajna P.Mohapatra, Hodam Karnajit Singh, Mangalampalli S.R.N.Kiran, PamuDobbidi, Co-substituted Ni–Zn ferrites with tunable dielectric and magnetic response for high-frequency applications	Ceramics International 2022, 48, 29217-29228 https://doi.org/10.1016/j.ceramint.2022.05.197	5.5

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57.*	Avantika Hasija, Subham Ranjan, Sarah Guerin, Kiran Mangalampalli ,* Satoshi Takamizawa,* and Deepak Chopra,* Tracing share memory effect and elastic bending in a conformationally flexible organic salt (Corresponding Author)	<i>J. Mater. Chem. C</i> , 2022 ,10, 4257-4267 [10.1039/D2TC00076H]	7.393
56.*	Kiran S. R. N. Mangalampalli , M. K. Mishra and U. Ramamurty Activation volume of the elastic-plastic transition in molecular crystals	<i>Crystal Growth and Design</i> 2021 , 21, 5183–5191	4.17
55.*	J. George, M. Sowjanya, Kiran Mangalampalli * Understanding nanoscale plasticity by in-situ conductive nanoindentation (Corresponding Author)	<i>Advanced Engineering Materials</i> 2021 , 2001494 (1-72)	3.86
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