

2024-25								
Name of Author(s)	Title of Paper	Title of Journal	Year of Publication	Vol. & Issue No.	Page Nos.	No. of Citations	Impact factor	International /National
Nikhil Vekariya, Bharat Patel, Rasmika Patel, Jignesh Valand	Microstructural investigation and performance of carbon matrix composites developed through facile pitch modification route	Diamond and Related Materials	April-2024	145	1-11	-	5.1	International
Venkata DBC Dasireddy, Balaga Viswanadham, Blaz Likozar, Jignesh Valand	CO-Free Fuel Processing of Water Gas Shift Feedstocks: Effect of Support on CuMn Spinel Performance	Catalysis Letters	September -2024	154	6378-6388	-	2.6	International
Anupam Raj , Adit Thampi , Bhavesh N. Socha , Shikhar Krishn Jha	Flash sintering enhanced co-doping TiO ₂ with Fe and Cu to improve photocatalytic efficiency	Journal of the European Ceramic Society	September-2024	45, 116960	1-11	-	6.2	International
Sharad C. Karad , Umang Pithadiya , Anjali B. Thakkar , Bhavesh Socha , Vaibhav D. Prajapati , Ronak V. Prajapati , Hetal Jebaliya , Vicky Jain , Vishal Purohit , Jemin R. Avalani , Nirav Sapariya , Dipak K. Raval , Parth Thakor,	Identification of imidazo[1,2-a]pyridines-pyrazole-pyran hybrids as potent glucose-6-phosphate dehydrogenase (G6PD) inhibitors: Synthesis, molecular docking, DFT studies and ADME prediction	Journal of Molecular Structure	October-2024	1322, 140570	1-15	-	4.7	International
Balaga Viswanadham, Venkata D. B. C. Dasireddy, Blaz Likozar, Jignesh Valand	The role of oxidants in the activation of methane to methanol over a Ni–Mo/Al ₂ O ₃ catalyst	Catalysis Science & Technology	December-2024	15	774-782	-	6.177	International
Ketan Chillal, Anupam Halder, Shikhar Krishn Jha, Rasmika Patel, Jignesh Valand	Electrochemical investigation of synthesized (Mg _{0.21} Cr _{0.21} Mn _{0.21} Fe _{0.21} Cu _{0.16}) ₃ O ₄ high	Ceramics International	January-2025	51,3	3890-3898	-	5.6	International

	entropy oxide for supercapacitor electrode material							
Bhavika Chouhan, Nikhil Vekariya, Bikash Raut, Ashish Jaswal, Jignesh Valand, Swati Sharma	Development of oxidation-resistant carbon fibers and evaluation of their performance in a carbon matrix composite	Diamond and Related Materials	February-2025	153	1-8	-	5.1	International
Vinod Ashtekara, , Ranjitsinh C. Dabhi, Vidhi A. Trivedi, Prashant S. Arya, Ashish Patel, Parth Thakor, Bhavesh N. Socha, Chetan B. Sangani, Jay C. Panchal, Abdullah Alarifii, Hemant N. Patel	Functionalization of Pyrazolo[1,5-a]pyrazine-Schiff Bases for Assessing Liquid Crystalline Properties and Antimicrobial Activity	Journal of Molecular Structure	February-2025	1335, 141889	1-32	-	4.7	International
Bhavesh N. Socha, Riddhi B. Palan, Urmila H. Patel, Bhupesh S. Bhatt, Parth Thakor, Anjali B. Thakkar, Jignesh Valand, Anupam Raj, Shikhar Krishn Jha	Improved antibacterial and anticancer activities of 4-amino-N-pyridin-2-ylbenzenesulfonamide via nickel coordination: Synthesis, characterization, and biological evaluation	Journal of Molecular Structure	March-2025	1336, 141948	1-14	-	4.7	International
Disha P. Vala, Bhavesh N. Socha, Victoria G. Collins, Mehul P. Parmar, Chirag D. Patel, Savan S. Bhalodiya, aSubham G. Patel, Sourav Banerjee and Hitendra M. Patel	Insights into the synthesis and structural properties of prochiral 2-acetyl-N-aryl-2-(prop-2-yn-1-yl) pent-4-ynamides/-2-allyl-4-enamide derivatives through kinetics and energy frameworks	RSC Advances	April-2025	15	15712 – 15723	-	4.6	International

Soumyadeep Sur, Nikhil Vekariya, Shikhar Krishn Jha, Jignesh Valand	High entropy spinel oxide for natural sunlight- driven photocatalytic degradation of methylene blue: a sustainable water remediation process	Results in Surfaces and Interfaces	April-2025	19	1-11	-	4.4	International
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