

S. No	Title of Paper	Name of Author(s)	Name of Journal	Indexing
1	Assessing the Impact of Antisolvent-Regulated ZnCl ₂ Water-in-Salt Electrolyte on Solvation Structure: A Multiscale Computational Validation for Aqueous Zn-ion Battery Application	A. Sethi, C. Rajeev, A. U. Kumar, P. Sharma, A. P. Sunda* and V. M. Dhavale*	J. Mater. Chem. A	Scopus
2	Hydroxide Ion Conduction through Viologen-based Covalent Organic Frameworks (vCOFs): An Approach towards the Advancement	P. Jhariat, Anil K. U, A. Warriar, A. P. Sunda , S. Das, S. Sarfudeen, V. M. Dhavale, and T. Panda*	ACS Applied Materials & Interfaces	Scopus
3	Molecular Insights of Cu/Zn metal response to the Amyloid β -peptide (1-42)	A. P. Sunda* and Anuj K. Sharma*	ACS Physical Chemistry Au	Scopus
4	Recent developments in V ₂ C MXene as energy storage materials: Promises, challenges and future prospects	S. Behl, V. Lahariya, P. P. Pandey, R. Kumar	Journal of Energy Storage	Scopus
5	Triazole-benzenesulfonamide hybrids: synthesis, biological evaluation, and molecular docking study as non-toxic antimicrobial and antioxidant agents	Chander, Monika, D. Sharma, P. K. Sharma, <u>Sita Ram</u> *	Journal of molecular structure	Scopus
6	Recent development in bimetallic metal organic frameworks as photocatalytic material	Isha Saini*, V. Singh, S. Hamad, <u>Sita Ram</u>	Inorganic Chemistry Communications	Scopus
7	Synthesis and biological evaluation of novel benzenesulfonamide incorporated thiazole-triazole hybrids as antimicrobial and antioxidant agents	Monika, Chander, D. Sharma, P. K. Sharma, <u>Sita Ram</u> *	Archive der Pharmazie	Scopus
8	Ionic Liquid Induced p-Nitrophenol Prototropism	P. Kasana, Sakshi Sonia, R. Kumara, Monalisa Mukherjee, and V. Kumar	Journal of ionic liquids	Scopus
9	How to Control Excited-State Prototropism of Photoacids via the Acidity of Ionic Liquids	P. Kasana, Saloni and V. Kumar	Chemistry Select	Scopus
10	Biomass-derived carbon dots as significant biological tools in the medicinal field: A review	P. Singh, V. Bhankar, S. Kumar, K. Kumar	Advances in Colloid and Interface Science	Scopus
11	Assessment of biomass-derived carbon dots as highly sensitive and selective templates for the sensing of hazardous ions	P. Singh, Arpita, S. Kumar, P. Kumar, N. Kataria, V. Bhankar, K. Kumar, R. Kumar, C. Te Hsieh and K. S. Khoo	Nanoscale (RSC)/	Scopus

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12	Biogenic synthesis of Allium cepa derived magnetic carbon dots for enhanced photocatalytic degradation of methylene blue and rhodamine B dyes	P. Singh, S. Kumar, K. Kumar	Biomass Conversion and Biorefinery	Scopus
13	S,Cl doped C dots and S g C3N4 heterojunction for enhanced photocatalytic remediation of dye polluted wastewater	P. Singh, S. Kumar, K. Kumar	Biomass Conversion and Biorefinery	Scopus
14	Recent advancement in nanomaterials for the detection and removal of uranium: A review	N Rani, P. Singh, S. Kumar, P. Kumar, V. Bhankar, N. Kamra, K. Kumar	Environmental Research	Scopus
15	Hydrothermally synthesized ZnFe2O4/ZnO heterojunction nanocomposites for enhanced RB dye degradation via Z-scheme photocatalysis	Sonia, H. Kumari, S. Chahal, Suman, S. Kumar, Mahak, P. Kumar, A. Kumar	Materials Chemistry and Physics	Scopus
16	Enhanced photocatalytic activity of α -Fe2O3/MgO nanocomposites for environmental sustainability	S. Devi, Tripta, Suman, Ankita, A. Kumar, S. Singh, V. Kumar, S. Kumar, R. Kumar, P. Kumar	Ceramics International	Scopus
17	Gd doped Cerium Oxide for organic dye degradation and tuning of magnetic properties	Ankita, S. Chahal, S. Singh, L. Kumar, V. Gupta, S. Kumar, S. Kumar, P. Kumar	Materials Science and Engineering: B	Scopus
18	Carbon dots as potential candidate for photocatalytic treatment of dye wastewater	T. Tripti, P. Singh, N. Rani, S. Kumar, K. Kumar, P. Kumar	Environmental Science and Pollution Research	Scopus
19	Pennisetum glaucum-derived carbon dots, synthesized through green approach to degrade Rose Bengal and Methylene Blue dyes photocatalytically	Tripti, S. Kumar, P. Kumar	Diamond & Related Materials	Scopus
20	Biogenic synthesis of hollow carbon dots using cigarette ash for photocatalytic and sensing applications	Arpita, P. Kumar, R. Kumar, C. Te Hsieh, K. S. Khoo, S. Kumar	Surface & Interfaces	Scopus
21	Europium-doped cerium oxide nanoparticles: investigating oxygen vacancies and their role in enhanced photocatalytic and magnetic properties	A. Ankita, S. Chahal, S. Singh, S. Kumar, P. Kumar	Environmental Science and Pollution Research	Scopus
22	Carbon-based nanomaterials: systematic enumeration and proficient template for detection and remediation of hazardous pollutants	N. Kataria, V. K. Garg, P. Kumar, C. Han, I. Anastopoulos, S. Kumar	Environmental Science and Pollution Research	Scopus
23	Morphology mediated photocatalysis and room temperature ferromagnetism in cerium oxide	Ankita, S. Chahal, S. Singh, Suman, K. Kanishka, H. D. Silva, A. Kumar, S. Kumar, L. Kumar, M. Yoshimura, R. Kumar, P. Kumar	Vacuum	Scopus

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24	Plant-mediated synthesis of nanoparticles and their applications: A review.	N. Rani, P. Singh, S. Kumar, P. Kumar, V. Bhankar, K. Kumar	Surfaces and interfaces	Scopus
25	Vanadium (IV)oxo catalyzed One-Pot transformation of cinnamate to aromatic ester and its mechanistic aspects	G. Mali, I. Verma, H. Arora, A. Rajput, M. V. Mane, A. Kumar, R. D. Erande	Tetrahedron letters	Scopus
26	Effect of diamagnetic Zn(II) ions on the SMM properties of a series of trinuclear ZnDy ₂ and tetranuclear Zn ₂ Dy ₂ (LnIII = Dy, Tb, Gd) complexes: combined experimental and theoretical studies	P. Shukla, I. Tarannum, S. Roy, A. Rajput, P. Lama, S. K. Singh, J. Kłak, J. Lee and S. Das	Dalton Transaction	Scopus
27	Thermodynamic and Electrochemical investigation of Inhibition Efficiency of Green Corrosion Inhibitor and its comparison with Synthetic Dyes on MS in Acidic Medium.	P. Vashishth, H. Bairagi, R. Narang, S. K. Shukla, B. Mangla	Journal of Molecular Liquids	Scopus
28	Applicability of Drugs as Sustainable Corrosion Inhibitors	R. Narang, P. Vashishth, H. Bairagi, R. Sehrawat, S. K. Shukla, and B. Mangla	Advanced Materials Letter	Scopus
29	Experimental and Computational Studies of a Novel Metal Oxide Nanoparticle/Conducting Polymer Nanocomposite (TiO ₂ /PVP) as a Corrosion Inhibitor on Low-Carbon Steel in Diprotic Acidic Medium	R. Narang, P. Vashishth, H. Bairagi, S. K. Shukla, and B. Mangla	Industrial & Engineering Chemistry Research	Scopus
30	Advanced Polymeric Materials for Aerospace Applications	<u>A.Rajput, Upma, S. K. Shukla, N. Thakur, A. Debnath and B. Mangla</u>	Wiley Online Library	Scopus
31	Advancements in the Synthesis of Triazolopyrimidines. Current Organic Chemistry, 2024, 28, 1567-1578	S. Singh, R. Lakhia, S. Yadav, P. Devi, K. Yadav, V. Chaudhri, and R. Pundeer	Current Organic Chemistry	Scopus
32	Metal-Free Synthesis of 2-Aminothiazole Functionalized Imidazo[1,2-a]pyridines as Antibacterial Agents. 2024, 34, 23-34	S. Devi, A. Sharma, V. Karoshi, S. Kumar,*A. Kumar, and J. Sindhu	Indian Journal of Heterocyclic Chemistry	Scopus
33	Formulation optimization of pH-sensitive liposomes based drug delivery of Carboplatin and anti-proliferative evaluation against A549 (human lung carcinoma) cell line. 2023, 22(3), 403-421.	P. Aneja, P. Negi, S. Aneja, S. R. Garad, S. Kumar*	Main Group Chemistry	Scopus
34.	New Isoxazole -Substituted Aryl Iodides: Metal-Free Synthesis, Characterization and Catalytic Activity. European Journal of Organic Chemistry, 2023, e202301191	R Rimi, B Uttam, VV Zhdankin, R Kumar*	European Journal of Organic Chemistry	Scopus
35.	Highly Efficient Cauliflower-like Palladium-Loaded Porous MOF as a Robust Material for the Degradation of Organic Dyes.	Rimi, P. Kumar, B. Uttam*, R. Kumar*	ACS Omega	Scopus

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	ACS omega 8 (42), 38895-38904			
36.	Porous Pd-loaded IRMOF-9 as Highly Efficient Recyclable Material towards the Reduction of Nitroaromatics in Aqueous Media. ChemPlusChem, e202400111	R Rimi, R. Kumar*, B. Uttam*	ChemPlusChem	Scopus
37.	Dog-bone shaped gold nanoparticle-mediated chemo-photothermal therapy impairs the powerhouse to trigger apoptosis in cancer cells. Journal of Materials Chemistry B. 2023 11 (40), 9732-9741	J. Ingle, B. Uttam, R. Panigrahi, S. Khatua, S. Basu	Journal of Materials Chemistry B	Scopus
38.	Synthetic strategies for the functionalization of upper or lower rim of supramolecular calix[4]arene platform. ARKIVOC 2023 (part vi), 254 - 279	B. Uttam, S. Polepalli, CP Rao	ARKIVOC	Scopus