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LIST OF RESEARCH PUBLICATIONS

Sl. No	Authors	Title	Journal	Year	Impact Factor	Dept.	Document Type	Q1/Q2/Q3/Q4
1	Ranjit Thapa	C2 product formation over C1 product and HER on 111 plane of specific Cu alloy nanoparticle identified through multiparameter optimization	Inorganic Chemistry	2023	4.60	PHY	Article	Q1
2	Amit Chakraborty	Flavon signatures at the HL-LHC	Physical Review D	2023	5.40	PHY	Article	Q1
3	Soumyajyoti Biswas	Critical scaling through Gini index	Physical Review Letters	2023	8.60	PHY	Article	8.6
4	Amit Chakraborty	Tagging a boosted top quark with a tau final state	Physical Review D	2023	5.40	PHY	Article	Q1
5	Ranjit Thapa	Engineering hydrophobic-aerophilic interface to boost N ₂ diffusion and reduction through functionalization of fluorine	CHEMICAL SCIENCE	2023	8.40	PHY	Article	Q1
6	Pankaj Bhalla	Quantum kinetic theory of nonlinear thermal current	Physical Review B	2023	3.70	PHY	Article	Q1
7	Rajapandiyam Panneerselvam	Intelligent convolution neural network-assisted SERS to realize highly accurate identification of six pathogenic Vibrio	Chemical Communications	2023	6.00	CHE	Article	Q1
8	Amit Chakraborty	Fat b-Jet Analyses Using Old and New Clustering Algorithms in New Higgs Boson Searches at the LHC	European Physical Journal C	2023	4.59	PHY	Article	Q1
9	Ranjit Thapa	Integrating Ultra-small Pd NPs into Core-shell Imidazolate Frameworks for Photocatalytic Hydrogen and MeOH Production	Inorganic Chemistry	2023	5.43	PHY	Article	Q1
10	Pankaj Bhalla	Quantum kinetic theory of nonlinear optical currents: Finite Fermi surface and Fermi Sea contributions	Physical Review B	2023	3.90	PHY	Article	Q1

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11	Nimai Mishra	Exploring the Role of Short Chain Acids as Surface Ligands in Photoinduced Charge Transfer Dynamics from CsPbBr ₃ Perovskite Nanocrystals	Journal of Physical Chemistry Letters	2023	6.88	CHE	Article	Q1
12	Rajapandiyam	Surface-Enhanced Raman Spectroscopic Probing in Digital Microfluidics through a Microspray Hole	Analytical Chemistry	2023	8.00	CHE	Article	Q1
13	Pankaj Bhalla	Resonant Second-Harmonic Generation as a Probe of Quantum Geometry	Physical Review Letters	2022	9.18	PHY	Article	Q1
14	Nimai Mishra	Amine-Free Synthetic Route: An Emerging Approach to Making High-Quality Perovskite Nanocrystals for Futuristic Application	The Journal of Physical Chemistry Letters	2022	6.90	CHE	Article	Q1
15	Dr. Pitchaiah Cherukuri	ERR2 and ERR3 promote the development of gamma motor neuron functional properties required for proprioceptive movement control	PLOS Biology	2022	8.02	BIO	Article	Q1
16	Ranjit Thapa	Descriptors and graphical construction for in silico design of efficient and selective single atom catalysts for eNRR	Chemical Science	2022	9.96	PHY	Article	Q1
17	Mahesh Kumar Ravva	Stereoselective Addition of Alkynes to Ketanimines: Copper/Amine Catalyzed Sulfonyl Azide-Alkyne Cycloaddition Reactions for the Synthesis of (Z)-1,3-Enynes	Organic Letters	2022	6.00	CHE	Article	Q1
18	Shoji D Thottathil	Magnitude and Drivers of Oxidic Methane Production in Small Temperate Lakes	Environmental Science & Technology	2022	11.55	EVS	Article	Q1
19	Ranjit Thapa	Lewis's acid-dominated aqueous electrolyte acting as co-catalyst and overcoming N ₂ activation issues on catalyst surface	Proceedings of National Academy of Sciences (PNAS)	2022	11.20	PHY	Article	Q1
20	Ranjit Thapa	Selective Electrocatalytic Co-reduction of N ₂ and CO ₂ on Copper Phthalocyanine for Green Urea Production	Advanced Functional Materials	2022	19.92	PHY	Article	Q1
21	Ranjit Thapa	Strategic modulation of target-specific isolated Fe,Co single-atom active sites for oxygen	ACS Nano	2022	18.02	PHY	Article	Q1

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		electrocatalysis impacting high power Zn-air battery						
22	Ranjit Thapa	Supercapacitor electrodes based on quasi-one-dimensional van der Waals TiS ₃ nanosheets: experimental findings and theoretical validation	Applied Physics Letters	2022	3.97	PHY	Article	Q1
23	Nimai Mishra	Study of Shell Thickness Dependent Charge Transfer Dynamics in Green Emitting Core/Shell Giant Quantum Dots	Inorganic Chemistry	2021	5.43	CHE	Article	Q1
24	Shoji D Thottathil	The role of methanotrophy in the microbial carbon metabolism of temperate lakes	Nature Communications	2021	17.69	EVS	Article	Q1
25	Lakhveer Singh	Engineered Nanoenzymes with Multifunctional Properties for Next-Generation Biological and Environmental Applications	Advanced Functional Materials	2021	19.92	EVS	Article	Q1
26	Amit Chakraborty	Extraction of neutrino Yukawa parameters from displaced vertices of sneutrinos	Journal of High Energy Physics	2021	6.37	PHY	Article	Q2
27	Mahesh Kumar Ravva	Harnessing the Extracellular Electron Transfer Capability of Geobacter sulfurreducens for Ambient Synthesis of Stable Bifunctional Single-Atom Electrocatalyst for Water Splitting	Advanced Functional Materials	2021	19.92	CHE	Article	Q1
28	Ranjit Thapa	Scalable Production of Cobalt Phthalocyanine Nanotubes: Efficient and Robust Hollow Electrocatalyst for Ammonia Synthesis at Room Temperature	ACS Nano	2021	18.02	PHY	Article	Q1
29	Mallikarjuna Rao Motapothula	Observation of interacting polaronic gas behavior in Ta-doped TiO ₂ thin films via terahertz time-domain spectroscopy	Applied Physics Letters	2020	3.79	PHY	Article	Q1
30	Sutharsan Govindarajan	Tyrosine phosphorylation-dependent localization of a novel polar protein that controls activity of a sugar regulator by sequestration	Proceedings of National Academy of Sciences	2020	9.40	BIO		Q1
31	Mahesh Kumar Ravva	Blue LED Mediated Intramolecular C–H Functionalization and Cyclopropanation of	Organic Letters	2020	6.01	CHE	Article	Q1

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		Tryptamines: Synthesis of Azepino [4, 5-b] indoles and Natural Product Inspired Polycyclic Indoles						
32	Siddhartha Ghosh	Direct Growth of Wafer-Scale, Transparent, p-Type Reduced-Graphene-Oxide-like Thin Films by Pulsed Laser Deposition	ACS Nano	2020	15.88	PHY	Article	Q1
33	Mannathan S	Palladium/Copper-Catalyzed Denitrogenative Alkylidenation and ortho-Alkynylation Reaction of 1,2,3-Benzotriazin-4(3 H)-ones	Organic Letters	2020	6.01	CHE	Article	Q1
34	Sutharsan Govindarajan	A bacteriophage nucleus-like compartment shields DNA from CRISPR nucleases	Nature	2020	49.96	BIO	Article	Q1
35	Jatis Kumar Dash	Thickness-insensitive properties of α -MoO ₃ nanosheets by weak interlayer coupling	Nano Letters	2019	11.19	PHY	Article	Q1
36	Mahesh Kumar Ravva	Directing-group-assisted manganese-catalyzed cyclopropanation of indoles	Organic Letters	2019	6.01	CHE	Article	Q1
37	Mahesh Kumar Ravva	Harnessing autooxidation of aldehydes: In situ iodoarene catalysed synthesis of substituted 1, 3, 4-oxadiazole, in presence of molecular oxygen	Organic Letters	2019	6.01	CHE	Article	Q1
38	Nimai Mishra	Broadband Defects Emission and Enhanced Ligand Raman Scattering in OD Cs ₃ Bi ₂ I ₉ Colloidal Nanocrystals	Advanced Functional Materials	2019	18.81	CHE	Article	Q1
39	Nimai Mishra	The Phosphine Oxide Route toward Lead Halide Perovskite Nanocrystals	Journal of the American Chemical Society	2018	15.42	CHE	Article	Q1
40	Mannathan S	Nickel-Catalyzed Denitrogenative Cross-Coupling Reaction of 1,2,3-Benzotriazin-4(3 H)-ones with Organoboronic Acids: An Easy Access to Ortho-Arylated and Alkenylated Benzamides	Organic Letters	2018	6.01	CHE	Article	Q1
41	Namitharan, K., Anil K Suresh,	Copper-Catalyzed Ring-Expansion Cascade of Azirines with Alkynes: Synthesis of Multisubstituted Pyridines at Room Temperature	Organic Letters	2018	6.01	CHE/BIO	Article	Q1

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	Mahesh Kumar Ravva							
42	Mahesh Kumar Ravva	Synthesis and properties of isoindigo and benzo [1,2-: B:4,5-b ']bis [b] benzothiophene oligomers	Chemical Communications	2018	6.22	CHE	Article	Q1