

Himmat S Kushwaha

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

45
papers

628
citations

14
h-index

24
g-index

46
ext. papers

836
ext. citations

3.6
avg, IF

4.34
L-index

#	Paper	IF	Citations
45	ZnO hollow pitchfork: coupled photo-piezocatalytic mechanism for antibiotic and pesticide elimination. <i>Catalysis Science and Technology</i> , 2022 , 12, 812-822	5.5	0
44	NaNbO Nanorods: Photopiezocatalysts for Elevated Bacterial Disinfection and Wastewater Treatment.. <i>ACS Omega</i> , 2022 , 7, 7595-7605	3.9	2
43	High energy storage capabilities of CaCuTiO for paper-based zinc-air battery.. <i>Scientific Reports</i> , 2022 , 12, 3999	4.9	3
42	Biogenic Synthesis of Silver Nanoparticles (AgNPs) Using Aqueous Leaf Extract of Spreng and Evaluation of Their Antifungal Activity against Phytopathogenic Fungi.. <i>Bioinorganic Chemistry and Applications</i> , 2022 , 2022, 6825150	4.2	1
41	Bimetallic Mn/Fe MOF modified screen-printed electrodes for non-enzymatic electrochemical sensing of organophosphate.. <i>Analytica Chimica Acta</i> , 2022 , 1202, 339676	6.6	4
40	Efficacious visible-light photocatalytic degradation of toxics by using Sr ₂ TiMnO ₆ -rGO composite for the wastewater treatment. <i>Cleaner Engineering and Technology</i> , 2021 , 2, 100087	2.7	3
39	Piezoelectric properties of ZnO 2021 , 717-736		0
38	Ba ₂ TiMnO ₆ two-dimensional nanosheets for rhodamine B organic contaminant degradation using ultrasonic vibrations. <i>Materials Advances</i> , 2021 , 2, 2649-2657	3.3	6
37	Studies on 1,8-naphthalimide derivative as a robust multi-responsive receptor for an array of low cost microanalytical techniques for selective prompt and on-site recognition of duplicitous fluoride in semi-aqueous medium. <i>Journal of Fluorine Chemistry</i> , 2021 , 249, 109858	2.1	2
36	Fabrication of LaFeO and rGO-LaFeO microspheres based gas sensors for detection of NO and CO.. <i>RSC Advances</i> , 2020 , 10, 1297-1308	3.7	14
35	Chloride Corrosion Resistant Nitrogen doped Reduced Graphene Oxide/Platinum Electrocatalyst for Hydrogen Evolution Reaction in an Acidic Medium. <i>ChemistrySelect</i> , 2020 , 5, 1739-1750	1.8	2
34	Bi _{0.5} Na _{0.5} TiO ₃ -BiOCl composite photocatalyst for efficient visible light degradation of dissolved organic impurities. <i>Journal of Environmental Chemical Engineering</i> , 2019 , 7, 102842	6.8	12
33	A Polycarboxyl-Decorated Fe -Based Xerogel-Derived Multifunctional Composite (Fe O /Fe/C) as an Efficient Electrode Material towards Oxygen Reduction Reaction and Supercapacitor Application. <i>Chemistry - A European Journal</i> , 2018 , 24, 6586-6594	4.8	8
32	Solar light induced antibacterial performance of TiO ₂ crystallized glass ceramics. <i>International Journal of Applied Glass Science</i> , 2018 , 9, 480-486	1.8	7
31	Photocatalytic Active Bismuth Fluoride/Oxyfluoride Surface Crystallized 2Bi ₂ O ₃ -B ₂ O ₃ Glass Ceramics. <i>Journal of Electronic Materials</i> , 2018 , 47, 3490-3496	1.9	8
30	Ferroelectric electrocatalysts: a new class of materials for oxygen evolution reaction with synergistic effect of ferroelectric polarization. <i>Journal of Materials Science</i> , 2018 , 53, 1414-1423	4.3	8
29	Photocatalytic, hydrophobic and antimicrobial characteristics of ZnO nano needle embedded cement composites. <i>Construction and Building Materials</i> , 2018 , 158, 285-294	6.7	57

28	Microstructural and photocatalytic performance of BaCe _x Ti _{1-x} O ₃ ceramics. <i>Materials Science in Semiconductor Processing</i> , 2018 , 73, 51-57	4.3	4
27	A Water-Driven Triboelectric Generator for Electrocatalytic Wastewater Treatment. <i>Energy Technology</i> , 2018 , 6, 670-676	3.5	2
26	Photocatalytic study on SrBi ₂ B ₂ O ₇ (SrO-Bi ₂ O ₃ -B ₂ O ₃) transparent glass ceramics. <i>Materials Research Bulletin</i> , 2018 , 99, 453-459	5.1	19
25	Visible light driven multifunctional photocatalysis in TeO ₂ -based semiconductor glass ceramics. <i>Journal of Photonics for Energy</i> , 2017 , 7, 016502	1.2	5
24	CaCu ₃ Ti ₄ O ₁₂ : A Bifunctional Perovskite Electrocatalyst for Oxygen Evolution and Reduction Reaction in Alkaline Medium. <i>Electrochimica Acta</i> , 2017 , 252, 532-540	6.7	17
23	Photocatalytic self-cleaning transparent 2Bi ₂ O ₃ -B ₂ O ₃ glass ceramics. <i>Journal of Applied Physics</i> , 2017 , 122, 094901	2.5	7
22	Efficient Electron Transfer across a ZnO-MoS ₂ -Reduced Graphene Oxide Heterojunction for Enhanced Sunlight-Driven Photocatalytic Hydrogen Evolution. <i>ChemSusChem</i> , 2017 , 10, 3588-3603	8.3	126
21	Biosynthesised silver nanoparticles using aqueous leaf extract of L. and evaluation of their antifungal activity against phytopathogenic fungi. <i>IET Nanobiotechnology</i> , 2017 , 11, 531-537	2	15
20	Enhanced electrocatalytic performance of perovskite supported iron oxide nanoparticles for oxygen reduction reaction. <i>RSC Advances</i> , 2016 , 6, 94826-94832	3.7	13
19	Efficient Solar Energy Conversion Using CaCu ₃ Ti ₄ O ₁₂ Photoanode for Photocatalysis and Photoelectrocatalysis. <i>Scientific Reports</i> , 2016 , 6, 18557	4.9	62
18	Highly efficient visible light mediated azo dye degradation through barium titanate decorated reduced graphene oxide sheets. <i>Electronic Materials Letters</i> , 2016 , 12, 281-289	2.9	17
17	Enhanced Visible Light Photocatalytic Activity of Curcumin-Sensitized Perovskite Bi _{0.5} Na _{0.5} TiO ₃ for Rhodamine 6G Degradation. <i>International Journal of Applied Ceramic Technology</i> , 2016 , 13, 333-339	2	13
16	Reaping the benefits of ferroelectricity in selectively precipitated lithium niobate microcrystals in silica matrix for photocatalysis. <i>Applied Physics Letters</i> , 2016 , 109, 223901	3.4	8
15	First principles insights into improved catalytic performance of BaTiO ₃ - graphene nanocomposites in conjugation with experimental investigations. <i>Materials Science in Semiconductor Processing</i> , 2016 , 51, 33-41	4.3	15
14	Effect of Sr ₂ TiMnO ₆ fillers on mechanical, dielectric and thermal behaviour of PMMA polymer. <i>Journal of Advanced Dielectrics</i> , 2015 , 05, 1550018	1.3	15
13	Visible Light-Induced Photocatalytic and Antibacterial Activity of Li-Doped Bi _{0.5} Na _{0.45} K _{0.05} TiO ₃ BaTiO ₃ Ferroelectric Ceramics. <i>Journal of Electronic Materials</i> , 2015 , 44, 4334-4342	1.9	14
12	Polyaniline/CaCu ₃ Ti ₄ O ₁₂ nanofiber composite with a synergistic effect on visible light photocatalysis. <i>RSC Advances</i> , 2015 , 5, 87241-87250	3.7	18
11	A study on the structural and photocatalytic degradation of ciprofloxacin using (70B ₂ O ₃ ·9Bi ₂ O ₃ ·Dy ₂ O ₃) _x (BaO·TiO ₂) _{1-x} glass ceramics. <i>Journal of Non-Crystalline Solids</i> , 2015 , 428, 197-203	3.9	30

10	TiO ₂ microcrystallized glass plate mediated photocatalytic degradation of estrogenic pollutant in water. <i>Journal of Non-Crystalline Solids</i> , 2015 , 408, 13-17	3.9	23
9	Label free selective detection of estriol using graphene oxide-based fluorescence sensor. <i>Journal of Applied Physics</i> , 2014 , 116, 034701	2.5	13
8	Enormous energy harvesting and storage potential in multiferroic epitaxial thin film heterostructures: an unforeseen era. <i>Materials Research Express</i> , 2014 , 1, 015503	1.7	15
7	Giant energy harvesting potential in (100)-oriented 0.68PbMg _{1/3} Nb _{2/3} O ₃ ·0.32PbTiO ₃ with Pb(Zr _{0.3} Ti _{0.7})O ₃ /PbO _x buffer layer and (001)-oriented 0.67PbMg _{1/3} Nb _{2/3} O ₃ ·0.33PbTiO ₃ thin films. <i>Journal of Advanced Dielectrics</i> , 2014 , 04, 1450029	1.3	12
6	De-noising Filters for TEM (Transmission Electron Microscopy) Image of Nanomaterials 2012 ,		8
5	A green approach for direct growth of CdS nanoparticles network in poly(3-hexylthiophene-2,5-diyl) polymer film for hybrid photovoltaic. <i>Materials Letters</i> , 2012 , 89, 195-197 ²⁻³		19
4	Agricultural Significance of Silica Nanoparticles Synthesized from a Silica Solubilizing Bacteria. <i>Comments on Inorganic Chemistry</i> , 1-17	3.9	0
3	Synthesis of a novel Sr ₂ TiMnO ₆ double perovskite electrocatalyst for rechargeable zinc-air batteries. <i>Energy Storage</i> , e293	2.8	0
2	Fabrication of iron oxide nanoparticles from ammonia vapor and their importance in plant growth and dye degradation. <i>Particulate Science and Technology</i> , 1-7	2	0
1	Novel guar-gum electrolyte to aggrandize the performance of LaMnO ₃ perovskite-based zinc-air batteries. <i>Electrochemical Science Advances</i> , e202100056		1