

# Himmat S Kushwaha

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5272450/publications.pdf>

Version: 2024-02-01

46  
papers

1,064  
citations

471061

17  
h-index

433756

31  
g-index

46  
all docs

46  
docs citations

46  
times ranked

1312  
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient Electron Transfer across a ZnO@MoS <sub>2</sub> /Reduced Graphene Oxide Heterojunction for Enhanced Sunlight-Driven Photocatalytic Hydrogen Evolution. <i>ChemSusChem</i> , 2017, 10, 3588-3603.	3.6	162
2	Photocatalytic, hydrophobic and antimicrobial characteristics of ZnO nano needle embedded cement composites. <i>Construction and Building Materials</i> , 2018, 158, 285-294.	3.2	91
3	Efficient Solar Energy Conversion Using CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> Photoanode for Photocatalysis and Photoelectrocatalysis. <i>Scientific Reports</i> , 2016, 6, 18557.	1.6	83
4	Fabrication of LaFeO <sub>3</sub> and rGO-LaFeO <sub>3</sub> microspheres based gas sensors for detection of NO <sub>2</sub> and CO. <i>RSC Advances</i> , 2020, 10, 1297-1308.	1.7	52
5	A study on the structural and photocatalytic degradation of ciprofloxacin using (70B 2 O 3 @ 29Bi 2 O 3) Tj ETQq1,1,1,0.784314 rgBT	1.5	44
6	Bimetallic Mn/Fe MOF modified screen-printed electrodes for non-enzymatic electrochemical sensing of organophosphate. <i>Analytica Chimica Acta</i> , 2022, 1202, 339676.	2.6	36
7	NaNbO <sub>3</sub> Nanorods: Photopiezocatalysts for Elevated Bacterial Disinfection and Wastewater Treatment. <i>ACS Omega</i> , 2022, 7, 7595-7605.	1.6	35
8	Photocatalytic study on SrBi <sub>2</sub> B <sub>2</sub> O <sub>7</sub> (SrO-Bi <sub>2</sub> O <sub>3</sub> -B <sub>2</sub> O <sub>3</sub> ) transparent glass ceramics. <i>Materials Research Bulletin</i> , 2018, 99, 453-459.	2.7	34
9	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.	1.0	29
10	Polyaniline/CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> nanofiber composite with a synergistic effect on visible light photocatalysis. <i>RSC Advances</i> , 2015, 5, 87241-87250.	1.7	28
11	TiO <sub>2</sub> microcrystallized glass plate mediated photocatalytic degradation of estrogenic pollutant in water. <i>Journal of Non-Crystalline Solids</i> , 2015, 408, 13-17.	1.5	25
12	CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> : A Bifunctional Perovskite Electrocatalyst for Oxygen Evolution and Reduction Reaction in Alkaline Medium. <i>Electrochimica Acta</i> , 2017, 252, 532-540.	2.6	25
13	Visible Light-Induced Photocatalytic and Antibacterial Activity of Li-Doped Bi <sub>0.5</sub> Na <sub>0.45</sub> K <sub>0.05</sub> TiO <sub>3</sub> @BaTiO <sub>3</sub> Ferroelectric Ceramics. <i>Journal of Electronic Materials</i> , 2015, 44, 4334-4342.	1.0	23
14	Biosynthesised silver nanoparticles using aqueous leaf extract of <i>Tagetes patula</i> L. and evaluation of their antifungal activity against phytopathogenic fungi. <i>IET Nanobiotechnology</i> , 2017, 11, 531-537.	1.9	22
15	Bi <sub>0.5</sub> Na <sub>0.5</sub> TiO <sub>3</sub> -BiOCl composite photocatalyst for efficient visible light degradation of dissolved organic impurities. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 102842.	3.3	21
16	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.	1.3	20
17	De-noising Filters for TEM (Transmission Electron Microscopy) Image of Nanomaterials. , 2012, , .		18
18	ZnO hollow pitchfork: coupled photo-piezocatalytic mechanism for antibiotic and pesticide elimination. <i>Catalysis Science and Technology</i> , 2022, 12, 812-822.	2.1	18

#	ARTICLE	IF	CITATIONS
19	High energy storage capabilities of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> for paper-based zinc-air battery. Scientific Reports, 2022, 12, 3999.	1.6	18
20	Enormous energy harvesting and storage potential in multiferroic epitaxial thin film heterostructures: an unforeseen era. Materials Research Express, 2014, 1, 015503.	0.8	17
21	Effect of Sr <sub>2</sub> TiMnO <sub>6</sub> fillers on mechanical, dielectric and thermal behaviour of PMMA polymer. Journal of Advanced Dielectrics, 2015, 05, 1550018.	1.5	17
22	First principles insights into improved catalytic performance of BaTiO <sub>3</sub> - graphene nanocomposites in conjugation with experimental investigations. Materials Science in Semiconductor Processing, 2016, 51, 33-41.	1.9	17
23	Enhanced Visible Light Photocatalytic Activity of Curcumin-Sensitized Perovskite Bi <sub>0.5</sub> Na <sub>0.5</sub> TiO <sub>3</sub> for Rhodamine 6G Degradation. International Journal of Applied Ceramic Technology, 2016, 13, 333-339.	1.1	15
24	Ferroelectric electrocatalysts: a new class of materials for oxygen evolution reaction with synergistic effect of ferroelectric polarization. Journal of Materials Science, 2018, 53, 1414-1423.	1.7	15
25	Ba <sub>2</sub> TiMnO <sub>6</sub> two-dimensional nanosheets for rhodamine B organic contaminant degradation using ultrasonic vibrations. Materials Advances, 2021, 2, 2649-2657.	2.6	15
26	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. Journal of Fluorine Chemistry, 2021, 249, 109858.	0.9	15
27	Enhanced electrocatalytic performance of perovskite supported iron oxide nanoparticles for oxygen reduction reaction. RSC Advances, 2016, 6, 94826-94832.	1.7	14
28	Photocatalytic self-cleaning transparent 2Bi <sub>2</sub> O <sub>3</sub> -B <sub>2</sub> O <sub>3</sub> glass ceramics. Journal of Applied Physics, 2017, 122, 094901.	1.1	14
29	Label free selective detection of estriol using graphene oxide-based fluorescence sensor. Journal of Applied Physics, 2014, 116, 034701.	1.1	13
30	Photocatalytic Active Bismuth Fluoride/Oxyfluoride Surface Crystallized 2Bi <sub>2</sub> O <sub>3</sub> -B <sub>2</sub> O <sub>3</sub> Glass-Ceramics. Journal of Electronic Materials, 2018, 47, 3490-3496.	1.0	13
31	Biogenic Synthesis of Silver Nanoparticles (AgNPs) Using Aqueous Leaf Extract of Buchanania lanzan Spreng and Evaluation of Their Antifungal Activity against Phytopathogenic Fungi. Bioinorganic Chemistry and Applications, 2022, 2022, 1-9.	1.8	13
32	Giant energy harvesting potential in (100)-oriented 0.68PbMg <sub>1/3</sub> Nb <sub>2/3</sub> O <sub>3</sub> -0.32PbTiO <sub>3</sub> with Pb(Zr <sub>0.3</sub> Ti <sub>0.7</sub> )O <sub>3</sub> /PbO <sub>x</sub> buffer layer and (001)-oriented 0.67PbMg <sub>1/3</sub> Nb <sub>2/3</sub> O <sub>3</sub> -0.33PbTiO <sub>3</sub> thin films. Journal of Advanced Dielectrics, 2014, 04, 1450029.	1.5	12
33	A Polycarboxylate-Decorated Fe <sup>III</sup> -Based Xerogel-Derived Multifunctional Composite (Fe <sub>3</sub> O <sub>4</sub> /Fe/C) as an Efficient Electrode Material towards Oxygen Reduction Reaction and Supercapacitor Application. Chemistry - A European Journal, 2018, 24, 6586-6594.	1.7	12
34	Solar light induced antibacterial performance of TiO <sub>2</sub> crystallized glass ceramics. International Journal of Applied Glass Science, 2018, 9, 480-486.	1.0	11
35	Reaping the benefits of ferroelectricity in selectively precipitated lithium niobate microcrystals in silica matrix for photocatalysis. Applied Physics Letters, 2016, 109, .	1.5	10
36	Visible light driven multifunctional photocatalysis in TeO <sub>2</sub> -based semiconductor glass ceramics. Journal of Photonics for Energy, 2017, 7, 016502.	0.8	8

#	ARTICLE	IF	CITATIONS
37	Novel guarâ€gum electrolyte to aggrandize the performance of LaMnO <sub>3</sub> perovskiteâ€based zincâ€air batteries. <i>Electrochemical Science Advances</i> , 2022, 2, e202100056.	1.2	8
38	Efficacious visible-light photocatalytic degradation of toxics by using Sr <sub>2</sub> TiMnO <sub>6</sub> -rGO composite for the wastewater treatment. <i>Cleaner Engineering and Technology</i> , 2021, 2, 100087.	2.1	7
39	Microstructural and photocatalytic performance of BaCe <sub>x</sub> Ti <sub>1-x</sub> O <sub>3</sub> ceramics. <i>Materials Science in Semiconductor Processing</i> , 2018, 73, 51-57.	1.9	6
40	Synthesis of a novel Sr <sub>2</sub> TiMnO <sub>6</sub> double perovskite electrocatalyst for rechargeable zincâ€air batteries. <i>Energy Storage</i> , 2022, 4, e293.	2.3	6
41	A Waterâ€Driven Triboelectric Generator for Electrocatalytic Wastewater Treatment. <i>Energy Technology</i> , 2018, 6, 670-676.	1.8	5
42	Selective and sensitive investigation of aluminium contamination from cookware based on novel water-soluble fluorescence turn-on chemosensor. <i>Journal of Molecular Liquids</i> , 2022, 362, 119777.	2.3	5
43	Agricultural Significance of Silica Nanoparticles Synthesized from a Silica Solubilizing Bacteria. <i>Comments on Inorganic Chemistry</i> , 2022, 42, 209-225.	3.0	4
44	Piezoelectric properties of ZnO. , 2021, , 717-736.		3
45	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.	0.7	3
46	Fabrication of iron oxide nanoparticles from ammonia vapor and their importance in plant growth and dye degradation. <i>Particulate Science and Technology</i> , 0, , 1-7.	1.1	2