

Umair Alam

List of Publications by Year in descending order

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67
papers

3,064
citations

147566

31
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161609

54
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all docs

68
docs citations

68
times ranked

3539
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced photocatalytic and antibacterial activities of Ag-doped TiO ₂ nanoparticles under visible light. <i>Materials Chemistry and Physics</i> , 2018, 212, 325-335.	2.0	226
2	Comparative photocatalytic activity of sol-gel derived rare earth metal (La, Nd, Sm and Dy)-doped ZnO photocatalysts for degradation of dyes. <i>RSC Advances</i> , 2018, 8, 17582-17594.	1.7	193
3	Photocatalytic performance of Fe-doped TiO ₂ nanoparticles under visible-light irradiation. <i>Materials Research Express</i> , 2017, 4, 015022.	0.8	171
4	Highly efficient Y and V co-doped ZnO photocatalyst with enhanced dye sensitized visible light photocatalytic activity. <i>Catalysis Today</i> , 2017, 284, 169-178.	2.2	166
5	Facile fabrication of highly efficient modified ZnO photocatalyst with enhanced photocatalytic, antibacterial and anticancer activity. <i>RSC Advances</i> , 2016, 6, 78335-78350.	1.7	154
6	One-step hydrothermal synthesis of Bi-TiO ₂ nanotube/graphene composites: An efficient photocatalyst for spectacular degradation of organic pollutants under visible light irradiation. <i>Applied Catalysis B: Environmental</i> , 2017, 218, 758-769.	10.8	138
7	Improved photocatalytic activity of Sr doped SnO ₂ nanoparticles: A role of oxygen vacancy. <i>Applied Surface Science</i> , 2019, 463, 976-985.	3.1	120
8	Heterogeneous photocatalysed degradation of two selected pesticide derivatives, triclopyr and daminozid in aqueous suspensions of titanium dioxide. <i>Journal of Environmental Management</i> , 2006, 80, 99-106.	3.8	108
9	One-pot, self-assembled hydrothermal synthesis of 3D flower-like CuS/g-C ₃ N ₄ composite with enhanced photocatalytic activity under visible-light irradiation. <i>Journal of Physics and Chemistry of Solids</i> , 2018, 115, 59-68.	1.9	102
10	Synthesis, characterization and photocatalytic performance of visible light induced bismuth oxide nanoparticle. <i>Journal of Alloys and Compounds</i> , 2015, 648, 641-650.	2.8	96
11	Synthesis of visible light driven ZnO: Characterization and photocatalytic performance. <i>Applied Surface Science</i> , 2014, 322, 215-224.	3.1	89
12	Synthesis, characterization, antimicrobial activity and applications of polyaniline/Ti(IV)arsenophosphate adsorbent for the analysis of organic and inorganic pollutants. <i>Journal of Hazardous Materials</i> , 2014, 264, 481-489.	6.5	84
13	Semiconductor-mediated photocatalyzed degradation of two selected pesticide derivatives, terbacil and 2,4,5-tribromoimidazole, in aqueous suspension. <i>Applied Catalysis B: Environmental</i> , 2002, 36, 95-111.	10.8	81
14	Facile Synthesis of a Z-Scheme ZnIn ₂ S ₄ /MoO ₃ Heterojunction with Enhanced Photocatalytic Activity under Visible Light Irradiation. <i>ACS Omega</i> , 2020, 5, 8188-8199.	1.6	78
15	Photocatalytic degradation of different chromophoric dyes in aqueous phase using La and Mo doped TiO ₂ hybrid carbon spheres. <i>Journal of Alloys and Compounds</i> , 2015, 632, 837-844.	2.8	75
16	Heterogeneous photocatalysed reaction of three selected pesticide derivatives, propham, propachlor and tebutiuron in aqueous suspensions of titanium dioxide. <i>Chemosphere</i> , 2005, 61, 457-468.	4.2	70
17	Photoelectrochemical and photocatalytic properties of Fe@ZnSQDs/TiO ₂ nanocomposites for degradation of different chromophoric organic pollutants in aqueous suspension. <i>Advanced Composites and Hybrid Materials</i> , 2020, 3, 570-582.	9.9	68
18	A green approach for degradation of organic pollutants using rare earth metal doped bismuth oxide. <i>Catalysis Today</i> , 2018, 300, 89-98.	2.2	66

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19	In-situ anion exchange synthesis of AgBr/Ag ₂ CO ₃ hybrids with enhanced visible light photocatalytic activity and improved stability. <i>Journal of Molecular Catalysis A</i> , 2014, 395, 16-24.	4.8	65
20	Harvesting visible light with MoO ₃ nanorods modified by Fe(<i>scp</i>) nanoclusters for effective photocatalytic degradation of organic pollutants. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 4538-4545.	1.3	55
21	Synthesis of Co doped ZnWO ₄ for simultaneous oxidation of RhB and reduction of Cr(VI) under UV-light irradiation. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 4885-4898.	3.3	52
22	Facile fabrication of visible light induced Bi ₂ O ₃ nanorod using conventional heat treatment method. <i>Journal of Molecular Structure</i> , 2016, 1107, 39-46.	1.8	51
23	One-pot ultrasonic assisted sol-gel synthesis of spindle-like Nd and V codoped ZnO for efficient photocatalytic degradation of organic pollutants. <i>Separation and Purification Technology</i> , 2019, 212, 427-437.	3.9	47
24	Fabrication of visible light-responsive dual Z-Scheme (Î±-Fe ₂ O ₃ /CdS/g-C ₃ N ₄) ternary nanocomposites for enhanced photocatalytic performance and adsorption study in aqueous suspension. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105754.	3.3	43
25	Boron nitride based polyaniline nanocomposite: Preparation, property, and application. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	1.3	41
26	Photocatalytic degradation of herbicide Bentazone in aqueous suspension of TiO ₂ : mineralization, identification of intermediates and reaction pathways. <i>Environmental Technology (United Kingdom)</i> , 2014, 35, 407-415.	1.2	37
27	Excellent visible-light-driven Ni-ZnS/g-C ₃ N ₄ photocatalyst for enhanced pollutants degradation performance: Insight into the photocatalytic mechanism and adsorption isotherm. <i>Applied Surface Science</i> , 2021, 563, 150262.	3.1	37
28	Electrical and Optical Properties of Nickel- and Molybdenum-Doped Titanium Dioxide Nanoparticle: Improved Performance in Dye-Sensitized Solar Cells. <i>Journal of Materials Engineering and Performance</i> , 2014, 23, 3184-3192.	1.2	36
29	Thermally Activated Delayed Fluorescence (Green) in Undoped Film and Exciplex Emission (Blue) in Acridoneâ€“Carbazole Derivatives for OLEDs. <i>Journal of Physical Chemistry C</i> , 2019, 123, 1003-1014.	1.5	36
30	Facile synthesis of highly efficient Co@ZnSQDs/g-C ₃ N ₄ /MWCNT nanocomposites and their photocatalytic potential for the degradation of RhB dye: Efficiency, degradation kinetics, and mechanism pathway. <i>Ceramics International</i> , 2021, 47, 13043-13056.	2.3	35
31	Direct Z-scheme-based novel cobalt nickel tungstate/graphitic carbon nitride composite: Enhanced photocatalytic degradation of organic pollutants and oxidation of benzyl alcohol. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 630, 127606.	2.3	35
32	Photocatalysed decolourization of two textile dye derivatives, Martius Yellow and Acid Blue 129, in UV-irradiated aqueous suspensions of Titania. <i>Desalination and Water Treatment</i> , 2012, 46, 205-214.	1.0	33
33	Synthesis of iron and copper cluster-grafted zinc oxide nanorod with enhanced visible-light-induced photocatalytic activity. <i>Journal of Colloid and Interface Science</i> , 2018, 509, 68-72.	5.0	31
34	Novel ZnSQDs-SnO ₂ /g-C ₃ N ₄ nanocomposite with enhanced photocatalytic performance for the degradation of different organic pollutants in aqueous suspension under visible light. <i>Journal of Physics and Chemistry of Solids</i> , 2021, 149, 109785.	1.9	28
35	Efficient visible light driven, mesoporous graphitic carbon nitrite based hybrid nanocomposite: With superior photocatalytic activity for degradation of organic pollutant in aqueous phase. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 342, 102-115.	2.0	25
36	Photocatalytic degradation of CI Acid Green 25 and CI Acid Red 88 in aqueous suspensions of titanium dioxide. <i>Coloration Technology</i> , 2002, 118, 307-315.	0.7	21

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37	Influence of Ce Doping on the Electrical and Optical Properties of TiO ₂ and Its Photocatalytic Activity for the Degradation of Remazol Brilliant Blue R. <i>International Journal of Photoenergy</i> , 2013, 2013, 1-9.	1.4	20
38	One step synthesis of highly functionalized thiazolo[3,2-b][1,2,4]triazole, triazolo[1,5-a]pyrimidine and triazolo[3,4-b][1,3,4]thiadiazine. <i>RSC Advances</i> , 2015, 5, 107931-107937.	1.7	20
39	Heterogeneous Photocatalyzed Degradation of Barbituric Acid and Matrindazole Under Visible Light Induced Ni, Mn, Mo and La-Doped TiO ₂ . <i>Journal of Nanoengineering and Nanomanufacturing</i> , 2014, 4, 135-139.	0.3	19
40	Photocatalytic oxidation of glyphosate and reduction of Cr(VI) in water over ACF-supported CoNiWO ₄ -gCN composite under batch and flow conditions. <i>Chemosphere</i> , 2022, 297, 134119.	4.2	19
41	Titanium Dioxide-Mediated Photocatalysed Degradation of Two Herbicide Derivatives Chloridazon and Metribuzin in Aqueous Suspensions. <i>International Journal of Chemical Engineering</i> , 2012, 2012, 1-8.	1.4	18
42	Synthesis of Ph-Modified Graphitic Carbon Nitride for Degradation of Different Chromophoric Organic Pollutants in Aqueous Suspension under Visible Light. <i>Langmuir</i> , 2020, 36, 9719-9727.	1.6	18
43	One pot synthesis of imidazo[2,1-b]thiazoles and benzo[d]thiazolo[3,2-a]imidazoles. <i>Tetrahedron Letters</i> , 2014, 55, 1706-1710.	0.7	14
44	Photocatalysed degradation of a herbicide derivative, Dinoterb, in aqueous suspension. <i>Research on Chemical Intermediates</i> , 2011, 37, 567-578.	1.3	13
45	Surface modification of Na-K 2 Ti 6 O 13 photocatalyst with Cu(II)-nanocluster for efficient visible-light-driven photocatalytic activity. <i>Materials Letters</i> , 2018, 220, 50-53.	1.3	13
46	Titanium Dioxide-mediated Photocatalysed Mineralization of Two Selected Organic Pollutants in Aqueous Suspensions. <i>Journal of Advanced Oxidation Technologies</i> , 2013, 16, .	0.5	12
47	An environmentally benign approach for the synthesis of 3,4,5-trisubstituted 2-aminofurans under solvent-free conditions via isocyanide-based multicomponent approach. <i>Tetrahedron Letters</i> , 2016, 57, 2638-2641.	0.7	12
48	Influence of Mg ²⁺ ion on the optical and magnetic properties of TiO ₂ nanostructures: A key role of oxygen vacancy. <i>Optik</i> , 2020, 223, 165340.	1.4	11
49	TADF and exciplex emission in a xanthone-carbazole derivative and tuning of its electroluminescence with applied voltage. <i>RSC Advances</i> , 2019, 9, 40248-40254.	1.7	10
50	One-pot hydrothermal synthesis of a double Z-scheme g-C ₃ N ₄ /AgI ² -AgVO ₃ ternary nanocomposite for efficient degradation of organic pollutants and DPC-Cr(VI) complex under visible-light irradiation. <i>Photochemical and Photobiological Sciences</i> , 2022, 21, 1371-1386.	1.6	9
51	Photocatalytic Degradation of Trifluralin, Clodinafop-Propargyl, and 1,2-Dichloro-4-Nitrobenzene As Determined by Gas Chromatography Coupled with Mass Spectrometry. <i>Chromatography Research International</i> , 2014, 2014, 1-9.	0.4	8
52	Single crystal X-ray structure, spectroscopic and DFT studies of Imidazo[2,1-b]thiazole: 2-(3-hydroxy-3-phenylimidazo[2,1-b]thiazol-2(3H)-ylidene)-1-phenylethanone. <i>Journal of Molecular Structure</i> , 2018, 1157, 638-653.	1.8	8
53	Synthesis of ZnO Co-doped Ph-g-C ₃ N ₄ for enhanced photocatalytic organic pollutants removal under visible light. <i>International Journal of Environmental Analytical Chemistry</i> , 2022, 102, 6339-6358.	1.8	7
54	Visible-Light Induced Simultaneous Oxidation of Methyl Orange and Reduction of Cr(VI) with Fe(III)-Grafted K ₂ Ti ₆ O ₁₃ Photocatalyst. <i>ChemistrySelect</i> , 2018, 3, 7906-7912.	0.7	6

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55	Semiconductor Mediated Photocatalysed Degradation of a Pesticide Derivative, Acephate in Aqueous Suspensions of Titanium Dioxide. <i>Journal of Advanced Oxidation Technologies</i> , 2006, 9, .	0.5	5
56	Semiconductor Mediated Photocatalysed Reaction of Two Selected Organic Compounds in Aqueous Suspensions of Titanium Dioxide. <i>Journal of Advanced Oxidation Technologies</i> , 2012, 15, .	0.5	5
57	Deep blue organic light-emitting diodes of 1,8-diaryl anthracene. <i>Journal of Chemical Sciences</i> , 2018, 130, 1.	0.7	5
58	Visible light active Boron doped phenyl-g-C ₃ N ₄ nanocomposites for decomposition of Dyes. <i>Surfaces and Interfaces</i> , 2021, 26, 101394.	1.5	4
59	Heterogeneous photocatalyzed degradation of a pesticide derivative, 3-chloro-4-methoxyaniline, in aqueous suspensions of titania. <i>Research on Chemical Intermediates</i> , 2012, 38, 1323-1333.	1.3	3
60	Fe(III)-grafted K-doped $\text{g-C}_{3}\text{N}_{4}$ /rGO composite photocatalyst with efficient activity to. <i>Journal of Chemical Sciences</i> , 2018, 130, 1.	0.7	3
61	Photocatalysed Degradation of a Herbicide Derivative, Diphenamid in Aqueous Suspension of Titanium Dioxide. <i>Journal of Advanced Oxidation Technologies</i> , 2003, 6, .	0.5	2
62	Triphenylphosphine/Isocyanide Mediated Synthesis of Benzo[4,5]imidazo[1,2-a]pyrimidine, Enamine Ketones and Secondary Ketimines. <i>ChemistrySelect</i> , 2018, 3, 946-950.	0.7	2
63	Semiconductor-mediated photocatalysed degradation of two selected pesticide derivatives, terbacil and 2,4,5-tribromoimidazole, in aqueous suspension. <i>Water Science and Technology</i> , 2001, 44, 331-7.	1.2	2
64	Preparation, Characterization and Application of Polyaniline/silk Fibroin Composite. <i>Polymers and Polymer Composites</i> , 2016, 24, 633-642.	1.0	1
65	Synthesis of CdS-rGO Composite by Photodeposition for Methylene Blue Decolorization. <i>Current Nanoscience</i> , 2016, 12, 547-553.	0.7	1
66	Study of photoconductivity of nanocrystalline titanium dioxide used in dye sensitized solar cell. , 2011, , .		0
67	(E) and (Z)-1,4-Diphenyl-2-(2-phenyl-1H-benzo[d]imidazol-1-yl)but-2-ene-1,4-dione. <i>Journal of Crystallography</i> , 2014, 2014, 1-6.	0.0	0