Mohammad Qamar

List of Publications by Year in Descending Order

69 papers	1,916 citations	28 h-index	42 g-index
71 ext. papers	2,208 ext. citations	5.8 avg, IF	5.17 L-index

#	Paper	IF	Citations
69	A review on heterogeneous oxidation of acetaminophen based on micro and nanoparticles catalyzed by different activators. *Nanotechnology Reviews*, **2022**, 11, 497-525	6.3	2
68	Strategies to Enhance ZnO Photocatalyst's Performance for Water Treatment: A Comprehensive Review.. *Chemical Record*, **2022**, e202100299	6.6	3
67	Photocatalytic Degradation of Recalcitrant Pollutants of Greywater. *Catalysts*, **2022**, 12, 557	4	1
66	Tuning Structural Properties of WO3 Thin Films for Photoelectrocatalytic Water Oxidation. *Catalysts*, **2021**, 11, 381	4	9
65	Direct Self-Assembly of Hierarchically Grown Rhodium Thin Films for Electrocatalytic Hydrogen Evolution Reaction. *Catalysts*, **2021**, 11, 338	4	4
64	Zinc Oxide-Based Acetone Gas Sensors for Breath Analysis: A Review. *Chemistry - an Asian Journal*, **2021**, 16, 1519-1538	4.5	11
63	Engineering the depletion layer of Au-modified ZnO/Ag core-shell films for high-performance acetone gas sensing. *Sensors and Actuators B: Chemical*, **2021**, 338, 129851	8.5	17
62	Morphologically controlled rapid fabrication of rhodium sulfide (Rh2S3) thin films for superior and robust hydrogen evolution reaction. *Sustainable Energy and Fuels*, **2021**, 5, 459-468	5.8	3
61	Reaping the catalytic benefits of both surface (NiFe2O4) and underneath (Ni3Fe) layers for the oxygen evolution reaction. *Sustainable Energy and Fuels*, **2021**, 5, 2704-2714	5.8	0
60	Confined growth and dispersion of FeP nanoparticles in highly mesoporous carbons as efficient electrocatalysts for the hydrogen evolution reaction. *International Journal of Hydrogen Energy*, **2021**, 46, 8507-8518	6.7	2
59	Perforated Co3O4 nanosheets as high-performing supercapacitor material. *Electrochimica Acta*, **2021**, 389, 138661	6.7	4
58	Nanostructured Magnéli-Phase W18O49 Thin Films for Photoelectrochemical Water Splitting. *Catalysts*, **2020**, 10, 526	4	12
57	Interfacial coupling of amorphous cobalt boride with g-C3N4 nanosheets for superior oxygen evolution reaction. *Materials Letters*, **2020**, 268, 127593	3.3	8
56	Surface-engineered WO3 thin films for efficient NO2 sensing. *Applied Surface Science*, **2020**, 517, 146235	6.7	14
55	Direct deposition of a nanoporous palladium electrocatalyst for efficient hydrogen evolution reaction. *New Journal of Chemistry*, **2020**, 44, 7795-7801	3.6	7
54	Ternary Bi2S3/MoS2/TiO2 with double Z-scheme configuration as high performance photocatalyst. *Applied Surface Science*, **2020**, 499, 143938	6.7	57
53	Fabrication of platinum thin films for ultra-high electrocatalytic hydrogen evolution reaction. *International Journal of Hydrogen Energy*, **2020**, 45, 15076-15085	6.7	10

52	Controlled growth of small and uniformly dispersed Mo2C on carbon nanotubes as high performance electrocatalyst for the hydrogen evolution reaction. *International Journal of Hydrogen Energy*, **2019**, 44, 11797-11807	6.7	17
51	The impact of microstructural features of carbon supports on the electrocatalytic hydrogen evolution reaction. *Catalysis Science and Technology*, **2019**, 9, 1497-1503	5.5	13
50	A novel Cs2OBi2O3TiO2ZnO heterostructure with direct Z-Scheme for efficient photocatalytic water splitting. *Ceramics International*, **2019**, 45, 23756-23764	5.1	13
49	Shape-dependent performance of gold nanocrystals supported on TiO2 for photoelectrochemical water oxidation under different radiations. *International Journal of Hydrogen Energy*, **2019**, 44, 23054-23065	6.7	4
48	FeP/MoS2 Enriched with Dense Catalytic Sites and High Electrical Conductivity for the Hydrogen Evolution Reaction. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 17671-17681	8.3	10
47	Shape-dependent activity of anisotropic Ag nanostructures supported on TiO2 for the photoelectrocatalytic water oxidation. *Journal of Materials Science: Materials in Electronics*, **2019**, 30, 1510-1518	2.1	
46	Facile synthesis of ultrathin interconnected carbon nanosheets as a robust support for small and uniformly-dispersed iron phosphide for the hydrogen evolution reaction. *Carbon*, **2019**, 144, 764-771	10.4	43
45	Emissive lead(II) benzenedicarboxylate metal-organic frameworks. *Journal of Chemical Sciences*, **2018**, 130, 1	1.8	1
44	Broad Solar Spectrum-Responsive and Highly Efficient Photoanode of Nonstoichiometric TiO2 Nanoplates/Reduced Graphene Oxide. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 2112-2121	8.3	8
43	Bifunctional CuO/TiO2 nanocomposite as nanofiller for improved corrosion resistance and antibacterial protection. *Progress in Organic Coatings*, **2018**, 114, 9-18	4.8	36
42	Interconnected Hollow Cobalt Phosphide Grown on Carbon Nanotubes for Hydrogen Evolution Reaction. *ACS Applied Materials & Interfaces*, **2018**, 10, 29407-29416	9.5	51
41	Rationally Dispersed Molybdenum Phosphide on Carbon Nanotubes for the Hydrogen Evolution Reaction. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 11414-11423	8.3	31
40	Benzyl Alcohol-Mediated Versatile Method to Fabricate Nonstoichiometric Metal Oxide Nanostructures. *ACS Applied Materials & Interfaces*, **2017**, 9, 40573-40579	9.5	6
39	Simple and Enhanced Thermal Immobilization of Gold Nanoparticles on TiO2 coated ITO Electrodes for Photoelectrochemical Water Oxidation. *ChemistrySelect*, **2017**, 2, 7678-7683	1.8	5
38	Improved photoelectrochemical water oxidation under visible light with mesoporous CoWO4. *Materials Letters*, **2016**, 183, 281-284	3.3	15
37	Metal–organic framework-guided growth of Mo2C embedded in mesoporous carbon as a high-performance and stable electrocatalyst for the hydrogen evolution reaction. *Journal of Materials Chemistry A*, **2016**, 4, 16225-16232	13	84
36	Selective photocatalytic oxidation of aromatic alcohols into aldehydes by tungsten blue oxide (TBO) anchored with Pt nanoparticles. *RSC Advances*, **2016**, 6, 71108-71116	3.7	12
35	Nanostructured cobalt-modified molybdenum carbides electrocatalysts for hydrogen evolution reaction. *International Journal of Hydrogen Energy*, **2016**, 41, 22899-22912	6.7	35

34	Synthesis of mesoporous zeolite Y nanocrystals in octahedral motifs mediated by amphiphilic organosilane surfactant. *Chemical Engineering Journal*, **2016**, 290, 282-289	14.7	17
33	Synthesis of mesoporous NiWO4 nanocrystals for enhanced photoelectrochemical water oxidation. *Materials Letters*, **2016**, 177, 135-138	3.3	32
32	Photoelectrochemical investigation of bare transparent conducting oxides for water oxidation. *Journal of Materials Science: Materials in Electronics*, **2016**, 27, 10325-10329	2.1	2
31	Highly efficient and selective oxidation of aromatic alcohols photocatalyzed by nanoporous hierarchical Pt/Bi2WO6 in organic solvent-free environment. *ACS Applied Materials & Interfaces* , **2015**, 7, 1257-69	9.5	93
30	Amelioration in the visible-light-driven photocatalysis by faceted WO3 nanocuboids. *Catalysis Communications*, **2015**, 70, 21-25	3.2	9
29	Enhanced photoelectrochemical and photocatalytic activity of WO3-surface modified TiO2 thin film. *Nanoscale Research Letters*, **2015**, 10, 54	5	29
28	Single-Pot Synthesis of <001>-Faceted N-Doped Nb2O5/Reduced Graphene Oxide Nanocomposite for Efficient Photoelectrochemical Water Splitting. *ACS Applied Materials & Interfaces*, **2015**, 7, 17954-62	9.5	44
27	Chemoselective and highly efficient conversion of aromatic alcohols into aldehydes photo-catalyzed by Ag3PO4 in aqueous suspension under simulated sunlight. *Catalysis Communications*, **2015**, 58, 34-39	3.2	19
26	Mesoporous hierarchical bismuth tungstate as a highly efficient visible-light-driven photocatalyst. *RSC Advances*, **2014**, 4, 9542	3.7	26
25	Synthesis and photocatalytic activity of mesoporous nanocrystalline Fe-doped titanium dioxide. *Catalysis Today*, **2014**, 230, 158-165	5.3	31
24	Self-assembling behaviour of Pt nanoparticles onto surface of TiO2 and their resulting photocatalytic activity. *Bulletin of Materials Science*, **2013**, 36, 945-951	1.7	8
23	Metal Carbides in Fuel Cell Cathode. *Lecture Notes in Energy*, **2013**, 665-687	0.4	
22	Synthesis of highly active visible-light-driven colloidal silver orthophosphate. *Chemical Physics Letters*, **2012**, 519-520, 54-58	2.5	46
21	Laser-induced efficient reduction of Cr(VI) catalyzed by ZnO nanoparticles. *Journal of Hazardous Materials*, **2011**, 187, 258-63	12.8	55
20	Synthesis of nanostructured NiO and its application in laser-induced photocatalytic reduction of Cr(VI) from water. *Journal of Molecular Catalysis A*, **2011**, 341, 83-88		60
19	Fabrication and magnetic properties of cobalt nanorod arrays containing a number of ultrafine nanowires electrodeposited within an AAO/SBA-15 template. *Solid State Communications*, **2011**, 151, 1151-1155	1.6	11
18	Removal of Rhodamine 6G induced by laser and catalyzed by Pt/WO3 nanocomposite. *Catalysis Communications*, **2010**, 11, 768-772	3.2	50
17	Photocatalyzed reaction of indole in an aqueous suspension of titanium dioxide. *Research on Chemical Intermediates*, **2010**, 36, 121-125	2.8	9

16	Photodegradation of acridine orange catalyzed by nanostructured titanium dioxide modified with platinum and silver metals. *Desalination*, **2010**, 254, 108-113	10.3	18
15	Laser-induced removal of a dye C.I. Acid Red 87 using n-type WO3 semiconductor catalyst. *Journal of Hazardous Materials*, **2009**, 170, 584-9	12.8	41
14	A comparative photocatalytic activity of titanium dioxide and zinc oxide by investigating the degradation of vanillin. *Desalination*, **2009**, 249, 535-540	10.3	96
13	TiO2-based nanotubes modified with nickel: synthesis, properties, and improved photocatalytic activity. *Nanotechnology*, **2009**, 20, 455703	3.4	34
12	Controlling the size, morphology, and aspect ratio of nanostructures using reverse micelles: a case study of copper oxalate monohydrate. *Langmuir*, **2009**, 25, 6469-75	4	63
11	Synthesis of highly active nanocrystalline WO3 and its application in laser-induced photocatalytic removal of a dye from water. *Catalysis Communications*, **2009**, 10, 1980-1984	3.2	34
10	Preparation and photocatalytic activity of nanotubes obtained from titanium dioxide. *Catalysis Today*, **2008**, 131, 3-14	5.3	153
9	Effect of post treatments on the structure and thermal stability of titanate nanotubes. *Nanotechnology*, **2006**, 17, 5922-5929	3.4	86
8	Photocatalysed reaction of few selected organic systems in presence of titanium dioxide. *Applied Catalysis A: General*, **2005**, 289, 224-230	5.1	28
7	Comparative photocatalytic study of two selected pesticide derivatives, indole-3-acetic acid and indole-3-butyric acid in aqueous suspensions of titanium dioxide. *Journal of Hazardous Materials*, **2005**, 120, 219-27	12.8	40
6	Titanium dioxide mediated photocatalytic degradation of two selected azo dye derivatives, chrysoidine R and acid red 29 (chromotrope 2R), in aqueous suspensions. *Desalination*, **2005**, 186, 255-271	10.3	47
5	Photocatalytic degradation of two selected dye derivatives, chromotrope 2B and amido black 10B, in aqueous suspensions of titanium dioxide. *Dyes and Pigments*, **2005**, 65, 1-9	4.6	110
4	Titanium-dioxide-mediated photocatalysed reaction of selected organic systems. *Research on Chemical Intermediates*, **2005**, 31, 807-817	2.8	7
3	Photoinduced electron transfer reaction of few selected organic systems in presence of titanium dioxide. *Journal of Molecular Catalysis A*, **2005**, 234, 151-157		19
2	Semiconductor-mediated photocatalytic degradation of anazo dye, chrysoidine Y in aqueous suspensions. *Desalination*, **2005**, 171, 185-193	10.3	38
1	Titanium-dioxide-mediated photocatalysis reaction of three selected pesticide derivatives. *Research on Chemical Intermediates*, **2004**, 30, 663-672	2.8	12