

# Mohammad Qureshi

## List of Publications by Year in descending order

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Version: 2024-02-01

58  
papers

1,698  
citations

279798

23  
h-index

289244

40  
g-index

58  
all docs

58  
docs citations

58  
times ranked

2556  
citing authors

#	ARTICLE	IF	CITATIONS
1	In Situ Grown Cuboidal MnCo <sub>2</sub> O <sub>4</sub> /h Boron Nitride Heterojunction: A Noble Metal-Free Approach Based on Efficient Hole Extraction for Electrochemical Oxygen Evolution Reaction. ACS Applied Energy Materials, 2022, 5, 1551-1559.	5.1	9
2	Synchronized carrier extraction and injection through boron nitride nanoplatelets in hierarchical BiVO <sub>4</sub> /CoCr-layered double hydroxides for efficient water oxidation. Electrochimica Acta, 2022, 415, 140269.	5.2	3
3	Bimetallic cyclic redox couple in dimanganese copper oxide supported by nickel borate for boosted alkaline electrocatalytic oxygen evolution reaction. Sustainable Energy and Fuels, 2021, 5, 2517-2527.	4.9	5
4	Phosphorus nitride nano-dots as a versatile and metal-free support for efficient photoelectrochemical water oxidation. Chemical Communications, 2021, 57, 6157-6160.	4.1	3
5	Hollow cuboidal MnCo <sub>2</sub> O <sub>4</sub> coupled with nickel phosphate: a promising oxygen evolution reaction electrocatalyst. Chemical Communications, 2021, 57, 8027-8030.	4.1	11
6	Augmentation in photocurrent through organic ionic plastic crystals as an efficient redox mediator for solid-state mesoscopic photovoltaic devices. Sustainable Energy and Fuels, 2021, 5, 1466-1476.	4.9	7
7	Electrocatalytic oxygen evolution surpassing benchmark RuO <sub>2</sub> using stable, noble metal free vanadium doped hematite co-modified by NiFe Layered Double Hydroxide. Electrochimica Acta, 2021, 370, 137726.	5.2	9
8	One-Dimensional Co(OH)F as a Noble Metal-Free Redox Mediator and Hole Extractor for Boosted Photoelectrochemical Water Oxidation in Worm-like Bismuth Vanadate. ACS Sustainable Chemistry and Engineering, 2021, 9, 5155-5165.	6.7	15
9	Silver grafted graphitic-carbon nitride ternary hetero-junction Ag/gC <sub>3</sub> N <sub>4</sub> (Urea)-gC <sub>3</sub> N <sub>4</sub> (Thiourea) with efficient charge transfer for enhanced visible-light photocatalytic green H <sub>2</sub> production. Applied Surface Science, 2021, 558, 149900.	6.1	54
10	Step-Scheme Heterojunction between CdS Nanowires and Facet-Selective Assembly of MnO <sub>x</sub> -BiVO <sub>4</sub> for an Efficient Visible-Light-Driven Overall Water Splitting. ACS Applied Materials & Interfaces, 2021, 13, 45475-45487.	8.0	36
11	Interfacial Bridging Strategy for Charge Extraction/Injection in the BiVO <sub>4</sub> /CoSn-Layered Double Hydroxide in Heterojunction Approach Using Graphene Quantum Dots for Enhanced Water Oxidation Kinetics. Journal of Physical Chemistry Letters, 2021, 12, 8947-8955.	4.6	7
12	Spontaneous Fenton-like dye degradation in clustered-petal di-manganese copper oxide by virtue of self-cyclic redox couple. Journal of Environmental Chemical Engineering, 2021, 9, 106094.	6.7	12
13	Hierarchical FeO(OH)-CoCeV (Oxy)hydroxide as a Water Cleavage Promoter. ACS Applied Materials & Interfaces, 2021, 13, 51151-51160.	8.0	9
14	Transcription methodology for rationally designed morphological complex metal oxides: a versatile strategy for improved electrocatalysis. Sustainable Energy and Fuels, 2021, 5, 6392-6405.	4.9	3
15	Modulating water oxidation kinetics utilizing h-BN quantum dots as an efficient hole extractor on fluorine doped hematite photoanode. Journal of Power Sources, 2020, 445, 227341.	7.8	28
16	Tuning the Electronic Structure of Monoclinic Tungsten Oxide Nanoblocks by Indium Doping for Boosted Photoelectrochemical Performance. Chemistry - an Asian Journal, 2020, 15, 3886-3896.	3.3	12
17	Surface-engineering of decahedron shaped bismuth vanadate for improved photoelectrochemical water oxidation by indium doping coupled with graphitic carbon nitride quantum dots. Journal of Power Sources, 2020, 477, 229024.	7.8	14
18	Effect of Catalytically Silent Cerium Hydroxide in Cobalt-Cerium Mixed Double Hydroxide for Enhanced Water Oxidation Kinetics in a BiVO <sub>4</sub> Photoanode. ACS Applied Energy Materials, 2020, 3, 5610-5619.	5.1	10

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19	Contribution in Light Harvesting by Solid Ionic Conductors for Efficient Photoelectrochemical Cells: An Effect of an Identical Donor Molecule in Sensitizers and Electrolytes. ACS Applied Energy Materials, 2020, 3, 7073-7082.	5.1	15
20	Bio-template assisted hierarchical ZnO superstructures coupled with graphene quantum dots for enhanced water oxidation kinetics. Solar Energy, 2020, 199, 39-46.	6.1	13
21	Low Overpotential and Stable Electrocatalytic Oxygen Evolution Reaction Utilizing Doped Perovskite Oxide, La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> , Modified by Cobalt Phosphate. ACS Applied Energy Materials, 2020, 3, 1279-1285.	5.1	29
22	Supported palladium nanoclusters: morphological modification towards enhancement of catalytic performance using surfactant-assisted metal deposition. Applied Nanoscience (Switzerland), 2020, 10, 1793-1809.	3.1	3
23	Ultrasensitive NO <sub>x</sub> Detection in Simulated Exhaled Air: Enhanced Sensing via Alumina Modification of In-situ Grown WO <sub>3</sub> Nanoblocks. Chemistry - an Asian Journal, 2019, 14, 4673-4680.	3.3	2
24	Hexagonal Boron Nitride Quantum Dots as a Superior Hole Extractor for Efficient Charge Separation in WO <sub>3</sub> -Based Photoelectrochemical Water Oxidation. ACS Applied Energy Materials, 2019, 2, 7457-7466.	5.1	37
25	Enhanced Surface and Bulk Recombination Kinetics by Virtue of Sequential Metal and Nonmetal Incorporation in Hematite-Based Photoanode for Superior Photoelectrochemical Water Oxidation. ACS Applied Energy Materials, 2019, 2, 4325-4334.	5.1	22
26	A Z-scheme Strategy that Utilizes ZnIn <sub>2</sub> S <sub>4</sub> and Hierarchical VS <sub>2</sub> Microflowers with Improved Charge Carrier Dynamics for Superior Photoelectrochemical Water Oxidation. Chemistry - an Asian Journal, 2019, 14, 4607-4615.	3.3	17
27	Superior light harnessing and charge injection kinetics utilizing mirror-like nano cuboidal ceria coupled with reduced graphene oxide in zinc oxide nanoparticle based photovoltaics. Solar Energy, 2019, 185, 89-99.	6.1	4
28	Reduced graphene oxide modified CuBi <sub>2</sub> O <sub>4</sub> as an efficient and noble metal free photocathode for superior photoelectrochemical hydrogen production. Sustainable Energy and Fuels, 2019, 3, 1554-1561.	4.9	40
29	Combined effect of in-situ grown p-type CuSbS <sub>2</sub> / n-type CdS coupled with hierarchical ZnO nano disks for improved photovoltaic light harvesting efficiency. Journal of Power Sources, 2019, 425, 204-216.	7.8	3
30	Design of noble metal free hierarchical VS <sub>2</sub> onto WO <sub>3</sub> nanoflakes as an effective heterojunction strategy for enhanced photoelectrochemical water oxidation. Sustainable Energy and Fuels, 2019, 3, 3481-3488.	4.9	4
31	Combined Experimental and Theoretical Insights into the Synergistic Effect of Cerium Doping and Oxygen Vacancies in BaZrO <sub>3</sub> Hollow Nanospheres for Efficient Photocatalytic Hydrogen Production. Journal of Physical Chemistry C, 2019, 123, 233-249.	3.1	13
32	Hybrid of g-C <sub>3</sub> N <sub>4</sub> and MoS <sub>2</sub> Integrated onto Cd <sub>0.5</sub> Zn <sub>0.5</sub> S: Rational Design with Efficient Charge Transfer for Enhanced Photocatalytic Activity. ACS Sustainable Chemistry and Engineering, 2018, 6, 6718-6729.	6.7	54
33	Enhanced photovoltaic performance using biomass derived nano 3D ZnO hierarchical superstructures and a D <sup>A</sup> type CS-Symmetric triphenylamine linked bithiazole. Electrochimica Acta, 2018, 259, 262-275.	5.2	10
34	Efficient Energy Harvesting in SnO <sub>2</sub> -Based Dye-Sensitized Solar Cells Utilizing Nano-Amassed Mesoporous Zinc Oxide Hollow Microspheres as Synergy Boosters. ACS Omega, 2018, 3, 14482-14493.	3.5	28
35	Ordered-Disordered BaZrO <sub>3</sub> Hollow Nanosphere/Carbon Dot Hybrid Nanocomposite: A New Visible-Light-Driven Efficient Composite Photocatalyst for Hydrogen Production and Dye Degradation. ACS Omega, 2018, 3, 10980-10991.	3.5	15
36	Thermodynamic Barrier and Light Scattering Effects of Nanocube Assembled SrTiO <sub>3</sub> in Enhancing the Photovoltaic Properties of Zinc Oxide Based Dye Sensitized Solar Cells. Journal of Physical Chemistry C, 2018, 122, 16550-16560.	3.1	28

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37	Multifunctional hierarchical 3-D ZnO superstructures directly grown over FTO glass substrates: enhanced photovoltaic and selective sensing applications. <i>Journal of Materials Chemistry A</i> , 2018, 6, 15868-15887.	10.3	21
38	Effect of surface overlayer in enhancing the photoelectrochemical water oxidation of <i>in situ</i> grown one-dimensional spinel zinc ferrite nanorods directly onto the substrate. <i>Chemical Communications</i> , 2018, 54, 10483-10486.	4.1	23
39	Morphological tuning of photo-booster g-C <sub>3</sub> N <sub>4</sub> with higher surface area and better charge transfers for enhanced power conversion efficiency of quantum dot sensitized solar cells. <i>Carbon</i> , 2017, 121, 90-105.	10.3	38
40	Modulating the electronic structure of lanthanum manganite by ruthenium doping for enhanced photocatalytic water oxidation. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 12167-12174.	2.8	23
41	<i>C<sub>s</sub></i> -Symmetric Triphenylamine-Linked Bisthiazole-Based Metal-Free Donor-Acceptor Organic Dye for Efficient ZnO Nanoparticles-Based Dye-Sensitized Solar Cells: Synthesis, Theoretical Studies, and Photovoltaic Properties. <i>ACS Omega</i> , 2017, 2, 5981-5991.	3.5	5
42	Efficient and Rapid Removal of Environmental Malignant Arsenic(III) and Industrial Dyes Using Reusable, Recoverable Ternary Iron Oxide - ORMOSIL - Reduced Graphene Oxide Composite. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 5912-5921.	6.7	41
43	Understanding the role of silica nanospheres with their light scattering and energy barrier properties in enhancing the photovoltaic performance of ZnO based solar cells. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 27818-27828.	2.8	21
44	Rational design of hierarchical ZnO superstructures for efficient charge transfer: mechanistic and photovoltaic studies of hollow, mesoporous, cage-like nanostructures with compacted 1D building blocks. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 5344-5357.	2.8	22
45	Graphitic carbon nitride as a photovoltaic booster in quantum dot sensitized solar cells: a synergistic approach for enhanced charge separation and injection. <i>Journal of Materials Chemistry A</i> , 2016, 4, 5528-5541.	10.3	79
46	Noble metal-free counter electrodes utilizing Cu <sub>2</sub> ZnSnS <sub>4</sub> loaded with MoS <sub>2</sub> for efficient solar cells based on ZnO nanowires co-sensitized with CuInS <sub>2</sub> CdSe quantum dots. <i>Journal of Materials Chemistry A</i> , 2015, 3, 14378-14388.	10.3	41
47	Ethyl Cellulose and Cetrimonium Bromide Assisted Synthesis of Mesoporous, Hexagon Shaped ZnO Nanodisks with Exposed {0001} Polar Facets for Enhanced Photovoltaic Performance in Quantum Dot Sensitized Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 13266-13279.	8.0	52
48	Mimicking the Heteroleptic Dyes for an Efficient 1D-ZnO Based Dye-Sensitized Solar Cell Using the Homoleptic Ruthenium(II) Dipyridophenazine Complex as a Photosensitizer. <i>Journal of Physical Chemistry C</i> , 2015, 119, 3892-3902.	3.1	24
49	Enhanced photovoltaic performance of meso-porous SnO <sub>2</sub> based solar cells utilizing 2D MgO nanosheets sensitized by a metal-free carbazole derivative. <i>Journal of Materials Chemistry A</i> , 2015, 3, 4291-4300.	10.3	34
50	Quaternary semiconductor Cu <sub>2</sub> ZnSnS <sub>4</sub> loaded with MoS <sub>2</sub> as a co-catalyst for enhanced photo-catalytic activity. <i>RSC Advances</i> , 2015, 5, 40475-40483.	3.6	31
51	Highly Efficient One-Dimensional ZnO Nanowire-Based Dye-Sensitized Solar Cell Using a Metal-Free, D-A-Type, Carbazole Derivative with More than 5% Power Conversion. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 12629-12639.	8.0	85
52	Enhanced photovoltaic performance utilizing effective charge transfers and light scattering effects by the combination of mesoporous, hollow 3D-ZnO along with 1D-ZnO in CdS quantum dot sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 9625.	2.8	28
53	Strontium doped lanthanum manganites for efficient and robust photocatalytic water oxidation coupled with graphene oxide. <i>Materials Letters</i> , 2014, 131, 125-127.	2.6	15
54	Enhanced Photovoltaic Performance of Semiconductor-Sensitized ZnO-CdS Coupled with Graphene Oxide as a Novel Photoactive Material. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 11673-11682.	8.0	56

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55	Hierarchically Grown Urchinlike CdS@ZnO and CdS@Al <sub>2</sub> O <sub>3</sub> Heteroarrays for Efficient Visible-Light-Driven Photocatalytic Hydrogen Generation. Journal of Physical Chemistry C, 2012, 116, 150-156.	3.1	147
56	Visible light assisted photocatalytic hydrogen generation and organic dye degradation by CdS-metal oxide hybrids in presence of graphene oxide. RSC Advances, 2012, 2, 12122.	3.6	151
57	Rational design of hyperbranched 3D heteroarrays of SrS/CdS: synthesis, characterization and evaluation of photocatalytic properties for efficient hydrogen generation and organic dye degradation. Nanoscale, 2012, 4, 3543.	5.6	35
58	Hierarchical 3D NiO-CdS heteroarchitecture for efficient visible light photocatalytic hydrogen generation. Journal of Materials Chemistry, 2012, 22, 12090.	6.7	142