Arshid M Ali

List of Publications by Citations

96 papers	2,377 citations	27 h-index	47 g-index
100 ext. papers	3,297 ext. citations	5.8 avg, IF	6.72 L-index

#	Paper	IF	Citations
96	Synergistic effect in plasmonic Au/Ag alloy NPs co-coated TiO2 NWs toward visible-light enhanced CO2 photoreduction to fuels. *Applied Catalysis B: Environmental*, **2017**, 204, 548-560	21.8	189
95	International Proceedings of Chemical, Biological and Environmental Engineering		174
94	Well-designed ZnV2O6/g-C3N4 2D/2D nanosheets heterojunction with faster charges separation via pCN as mediator towards enhanced photocatalytic reduction of CO2 to fuels. *Applied Catalysis B: Environmental*, **2019**, 242, 312-326	21.8	125
93	Photo-induced CO2 reduction by CH4/H2O to fuels over Cu-modified g-C3N4 nanorods under simulated solar energy. *Applied Surface Science*, **2017**, 419, 875-885	6.7	111
92	Recent advancements in engineering approach towards design of photo-reactors for selective photocatalytic CO2 reduction to renewable fuels. *Journal of CO2 Utilization*, **2019**, 29, 205-239	7.6	105
91	Photocatalysis with nanostructured zinc oxide thin films: The relationship between morphology and photocatalytic activity under oxygen limited and oxygen rich conditions and evidence for a Mars Van Krevelen mechanism. *Applied Catalysis B: Environmental*, **2010**, 97, 168-181	21.8	102
90	Recent development in band engineering of binary semiconductor materials for solar driven photocatalytic hydrogen production. *International Journal of Hydrogen Energy*, **2020**, 45, 15985-16038	6.7	91
89	Selective photocatalytic reduction of CO2 by H2O/H2 to CH4 and CH3OH over Cu-promoted In2O3/TiO2 nanocatalyst. *Applied Surface Science*, **2016**, 389, 46-55	6.7	91
88	Gold□ndium modified TiO2 nanocatalysts for photocatalytic CO2 reduction with H2 as reductant in a monolith photoreactor. *Applied Surface Science*, **2015**, 338, 1-14	6.7	74
87	Indirect Z-Scheme Assembly of 2D ZnV2O6/RGO/g-C3N4 Nanosheets with RGO/pCN as Solid-State Electron Mediators toward Visible-Light-Enhanced CO2 Reduction. *Industrial & Engineering Chemistry Research*, **2019**,	3.9	64
86	Ag-La loaded protonated carbon nitrides nanotubes (pCNNT) with improved charge separation in a monolithic honeycomb photoreactor for enhanced bireforming of methane (BRM) to fuels. *Applied Catalysis B: Environmental*, **2019**, 248, 167-183	21.8	60
85	Tailoring performance of La-modified TiO 2 nanocatalyst for continuous photocatalytic CO 2 reforming of CH 4 to fuels in the presence of H 2 O. *Energy Conversion and Management*, **2018**, 159, 284-298	10.6	60
84	La-modified TiO2/carbon nanotubes assembly nanocomposite for efficient photocatalytic hydrogen evolution from glycerol-water mixture. *International Journal of Hydrogen Energy*, **2019**, 44, 3711-3725	6.7	59
83	Enhanced photocatalytic carbon dioxide reforming of methane to fuels over nickel and montmorillonite supported TiO2 nanocomposite under UV-light using monolith photoreactor. *Journal of Cleaner Production*, **2019**, 213, 451-461	10.3	56
82	Well-designed 2D/2D Ti3C2TA/R MXene coupled g-C3N4 heterojunction with in-situ growth of anatase/rutile TiO2 nucleates to boost photocatalytic dry-reforming of methane (DRM) for syngas production under visible light. *Applied Catalysis B: Environmental*, **2021**, 285, 119777	21.8	55
81	Hierarchical 3D VO2/ZnV2O4 microspheres as an excellent visible light photocatalyst for CO2 reduction to solar fuels. *Applied Surface Science*, **2019**, 467-468, 1170-1180	6.7	54
80	Cold plasma dielectric barrier discharge reactor for dry reforming of methane over Ni/?-Al2O3-MgO nanocomposite. *Fuel Processing Technology*, **2018**, 178, 166-179	7.2	52

79	Template free synthesis of graphitic carbon nitride nanotubes mediated by lanthanum (La/g-CNT) for selective photocatalytic CO2 reduction via dry reforming of methane (DRM) to fuels. *Applied Surface Science*, **2020**, 504, 144177	6.7	47
78	Cu-NPs embedded 1D/2D CNTs/pCN heterojunction composite towards enhanced and continuous photocatalytic CO2 reduction to fuels. *Applied Surface Science*, **2019**, 485, 450-461	6.7	44
77	Construction of a Stable Two-Dimensional MAX Supported Protonated Graphitic Carbon Nitride (pg-C3N4)/Ti3AlC2/TiO2 Z-Scheme Multiheterojunction System for Efficient Photocatalytic CO2 Reduction through Dry Reforming of Methanol. *Energy & Fuels*, **2020**, 34, 3540-3556	4.1	43
76	Constructing a Stable 2D Layered Ti3C2 MXene Cocatalyst-Assisted TiO2/g-C3N4/Ti3C2 Heterojunction for Tailoring Photocatalytic Bireforming of Methane under Visible Light. *Energy & Fuels*, **2020**, 34, 9810-9828	4.1	42
75	Engineering approach to enhance photocatalytic water splitting for dynamic H2 production using La2O3/TiO2 nanocatalyst in a monolith photoreactor. *Applied Surface Science*, **2019**, 484, 1089-1101	6.7	34
74	Conventional versus lattice photocatalysed reactions: Implications of the lattice oxygen participation in the liquid phase photocatalytic oxidation with nanostructured ZnO thin films on reaction products and mechanism at both 254 nm and 340 nm. *Applied Catalysis B: Environmental*,	21.8	31
73	Enhanced photocatalytic CO2 reduction to fuels through bireforming of methane over structured 3D MAX Ti3AlC2/TiO2 heterojunction in a monolith photoreactor. *Journal of CO2 Utilization*, **2020**, 38, 99-112	7.6	29
72	Facile synthesis of GO and g-CN nanosheets encapsulated magnetite ternary nanocomposite for superior photocatalytic degradation of phenol. *Environmental Pollution*, **2019**, 253, 1066-1078	9.3	29
71	Montmorillonite dispersed single wall carbon nanotubes (SWCNTs)/TiO2 heterojunction composite for enhanced dynamic photocatalytic H2 production under visible light. *Applied Clay Science*, **2019**, 174, 110-119	5.2	28
70	Implication of iron nitride species to enhance the catalytic activity and stability of carbon nanotubes supported Fe catalysts for carbon-free hydrogen production via low-temperature ammonia decomposition. *Catalysis Science and Technology*, **2018**, 8, 907-915	5.5	27
69	Size structure-catalytic performance correlation of supported Ni/MCF-17 catalysts for CO-free hydrogen production. *Chemical Communications*, **2018**, 54, 6364-6367	5.8	25
68	Recent Developments in Natural Gas Flaring Reduction and Reformation to Energy-Efficient Fuels: A Review. *Energy & Fuels*, **2021**, 35, 3675-3714	4.1	25
67	Sub-3 nm Rh nanoclusters confined within a metal-organic framework for enhanced hydrogen generation. *Chemical Communications*, **2019**, 55, 4699-4702	5.8	24
66	Asian Journal of Chemistry. *Asian Journal of Chemistry*,	0.4	24
65	In-situ growth of TiO imbedded TiCT nanosheets to construct PCN/TiCT MXenes 2D/3D heterojunction for efficient solar driven photocatalytic CO reduction towards CO and CH production. *Journal of Colloid and Interface Science*, **2021**, 591, 20-37	9.3	24
64	Kinetics of hydrogen adsorption on MgH2/CNT composite. *Materials Research Bulletin*, **2016**, 77, 23-28	5.1	22
63	Effect of preparation methods on the catalyst performance of Co/Mg La mixed oxide catalyst for COx-free hydrogen production by ammonia decomposition. *International Journal of Hydrogen Energy*, **2017**, 42, 24213-24221	6.7	19
62	Well-Designed 3D/2D/2D WO3/Bt/g-C3N4 Z-Scheme Heterojunction for Tailoring Photocatalytic CO2 Methanation with 2D-Layered Bentonite-Clay as the Electron Moderator under Visible Light. *Energy & Fuels*, **2020**, 34, 14400-14418	4.1	19

61	Photocatalytic CO2 conversion over Au/TiO2 nanostructures for dynamic production of clean fuels in a monolith photoreactor. *Clean Technologies and Environmental Policy*, **2016**, 18, 2147-2160	4.3	17
60	In-situ synthesis of TiO2/La2O2CO3/rGO composite under acidic/basic treatment with La3+/Ti3+ as mediators for boosting photocatalytic H2 evolution. *International Journal of Hydrogen Energy*, **2019**, 44, 23669-23688	6.7	15
59	Role of Ti3C2 MXene as Prominent Schottky Barriers in Driving Hydrogen Production through Photoinduced Water Splitting: A Comprehensive Review. *ACS Applied Energy Materials*, **2021**, 4, 11982-12006	6.1	15
58	Advances in structural modification of perovskite semiconductors for visible light assisted photocatalytic CO2 reduction to renewable solar fuels: A review. *Journal of Environmental Chemical Engineering*, **2021**, 9, 106264	6.8	15
57	Investigating the Influential Effect of Etchant Time in Constructing 2D/2D HCN/MXene Heterojunction with Controlled Growth of TiO2 NPs for Stimulating Photocatalytic H2 Production. *Energy & Fuels*, **2021**, 35, 6807-6822	4.1	14
56	Biodiesel production from novel non-edible caper (Capparis spinosa L.) seeds oil employing Cu□Ni doped ZrO2 catalyst. *Renewable and Sustainable Energy Reviews*, **2021**, 138, 110558	16.2	14
55	Effect of nonmetals (B, O, P, and S) doped with porous g-CN for improved electron transfer towards photocatalytic CO reduction with water into CH. *Chemosphere*, **2022**, 286, 131765	8.4	14
54	Constructing LaxCoyO3 Perovskite Anchored 3D g-C3N4 Hollow Tube Heterojunction with Proficient Interface Charge Separation for Stimulating Photocatalytic H2 Production. *Energy & Fuels*, **2021**, 35, 9727-9746	4.1	12
53	Binary Ni2P/Ti3C2 Multilayer Cocatalyst Anchored TiO2 Nanocomposite with Etchant/Oxidation Grown TiO2 NPs for Enhancing Photocatalytic H2 Production. *Energy & Fuels*, **2021**, 35, 14197-14211	4.1	12
52	Strong synergism between gold and manganese in an Au□Mn/triple-oxide-support (TOS) oxidation catalyst. *Applied Catalysis A: General*, **2015**, 489, 24-31	5.1	11
51	Bimetallic Ru-Fe Nanoparticles Supported on Carbon Nanotubes for Ammonia Decomposition and Synthesis. *Chemical Engineering and Technology*, **2020**, 43, 719-730	2	11
50	Synergistic Effect of Co/La in Oxygen Vacancy Rich Ternary CoAlLa Layered Double Hydroxide with Enhanced Reductive Sites for Selective Photoreduction of CO2 to CH4. *Energy & Fuels*, **2021**, 35, 8922-8943	4.1	11
49	Current Trends and Approaches to Boost the Performance of Metal Organic Frameworks for Carbon Dioxide Methanation through Photo/Thermal Hydrogenation: A Review. *Industrial & Engineering Chemistry Research*, **2021**, 60, 13149-13179	3.9	11
48	MgFe and Mg□Co□Fe mixed oxides derived from hydrotalcites: Highly efficient catalysts for COx free hydrogen production from NH3. *International Journal of Hydrogen Energy*, **2020**, 45, 873-890	6.7	10
47	Photoinduced Dry and Bireforming of Methane to Fuels over La-Modified TiO2 in Fixed-Bed and Monolith Reactors. *Energy Technology*, **2020**, 8, 2000106	3.5	8
46	Tailoring metal/support interaction in 0D TiO2 NPs/MPs embedded 2D MAX composite with boosted interfacial charge carrier separation for stimulating photocatalytic H2 production. *Journal of Environmental Chemical Engineering*, **2020**, 8, 104529	6.8	8
45	Carbon Nanotubes Incorporated Z-Scheme Assembly of AgBr/TiO for Photocatalytic Hydrogen Production under Visible Light Irradiations. *Nanomaterials*, **2019**, 9,	5.4	8
44	Facile fabrication of well-designed 2D/2D porous g-C3N4□O nanocomposite for photocatalytic methane reforming (DRM) with CO2 towards enhanced syngas production under visible light. *Fuel*, **2021**, 305, 121558	7.1	8

43	Structural, electronics and optical properties of sodium based fluoroperovskites NaXF3 (X = Ca, Mg, Sr and Zn): First principles calculations. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2021**, 412, 127574	2.3	7
42	Titanium Carbide MXene Nanostructures as Catalysts and Cocatalysts for Photocatalytic Fuel Production: A Review. *ACS Applied Nano Materials*, **2022**, 5, 18-54	5.6	6
41	Fabricating 2D/2D/2D heterojunction of graphene oxide mediated g-C3N4 and ZnV2O6 composite with kinetic modelling for photocatalytic CO2 reduction to fuels under UV and visible light. *Journal of Materials Science*, **2021**, 56, 9985-10007	4.3	6
40	Methanol Synthesis Using CO□and H□on Nano Silver-Ceria Zirconia Catalysts: Influence of Preparation Method. *Journal of Nanoscience and Nanotechnology*, **2019**, 19, 3197-3204	1.3	5
39	Novel, facile and first time synthesis of zinc oxide nanoparticles using leaves extract of Citrus reticulata for photocatalytic and antibacterial activity. *Optik*, **2021**, 243, 167495	2.5	5
38	Ethyl benzene oxidative dehydrogenation to styrene on Al-B and Al-B-Sb catalysts. *Applied Catalysis A: General*, **2018**, 552, 49-57	5.1	4
37	Carbon Dioxide (CO2) Capture in Alkanolamines Impregnated Activated Carbon Developed from Date Stones. *Science of Advanced Materials*, **2021**, 13, 98-104	2.3	4
36	Ammonia removal from raw water by using adsorptive membrane filtration process. *Separation and Purification Technology*, **2021**, 270, 118757	8.3	4
35	Characterization of an amorphous indium tin oxide (ITO) film on a polylactic acid (PLA) substrate. *Bulletin of Materials Science*, **2019**, 42, 1	1.7	3
34	Comprehensive dynamic modeling, simulation, and validation for an industrial boiler incident investigation. *Process Safety Progress*, **2019**, 38, e12040	1	3
33	Effect of Au Precursor and Support on the Catalytic Activity of the Nano-Au-Catalysts for Propane Complete Oxidation. *Journal of Nanomaterials*, **2015**, 2015, 1-10	3.2	3
32	Construction of an S-Scheme Heterojunction with Oxygen-Vacancy-Rich Trimetallic CoAlLa-LDH Anchored on Titania-Sandwiched Ti3C2 Multilayers for Boosting Photocatalytic CO2 Reduction under Visible Light. *Industrial & Engineering Chemistry Research*,	3.9	3
31	Role of Microalgae as a Source for Biofuel Production in the Future: A Short Review. *Bulletin of Chemical Reaction Engineering and Catalysis*, **2021**, 16, 396-412	1.7	3
30	Daily variation of radon gas and its short-lived progeny concentration near ground level and estimation of aerosol residence time. *Chinese Physics B*, **2016**, 25, 050701	1.2	3
29	The economic and environmental analysis of energy production from slaughterhouse waste in Saudi Arabia. *Environment, Development and Sustainability*, **2021**, 23, 4252-4269	4.5	3
28	Cellulose triacetate fiber-reinforced polystyrene composite. *Journal of Thermoplastic Composite Materials*, **2021**, 34, 707-721	1.9	3
27	Influence of van der waals heterostructures of 2D materials on catalytic performance of ZnO and its applications in energy: A review. *International Journal of Hydrogen Energy*, **2021**, 46, 25413-25423	6.7	3
26	First-principles calculations to investigate structural, electronic and optical properties of Na based fluoroperovskites NaXF3 (X= Sr, Zn). *Solid State Communications*, **2021**, 334-335, 114396	1.6	3

25	Investigating influential effect of methanol-phenol-steam mixture on hydrogen production through thermodynamic analysis with experimental evaluation. *International Journal of Energy Research*,	4.5	3
24	MOF-Based Catalysts for Production of Value-Added Fine Chemicals from Carbon Dioxide. *ACS Symposium Series*,155-171	0.4	3
23	Highly efficient hydrotalcite supported palladium catalyst for hydrodechlorination of 1, 2, 4-tri chlorobenzene: Influence of Pd loading. *Journal of Chemical Sciences*, **2020**, 132, 1	1.8	2
22	Influence of Ce substitution in LaMO3 (M□Co/Ni) perovskites for COx-free hydrogen production from ammonia decomposition. *Arabian Journal of Chemistry*, **2022**, 15, 103547	5.9	2
21	Functionalized role of highly porous activated carbon in bismuth vanadate nanomaterials for boosted photocatalytic hydrogen evolution and synchronous activity in water. *International Journal of Hydrogen Energy*, **2021**, 46, 39778-39778	6.7	2
20	Synthesis of BiVO4/NiFe2O4 composite for photocatalytic degradation of methylene blue. *Applied Nanoscience (Switzerland)*, **2021**, 11, 2793	3.3	2
19	Polypropylene-based nanocomposites for HVDC cable insulation. *IET Nanodielectrics*, **2021**, 4, 84-97	2.8	2
18	Torrefaction and Thermochemical Properties of Agriculture Residues. *Energies*, **2021**, 14, 4218	3.1	2
17	Correlation Between Tunable Oxygen Defects in TiO2 Nanoflower and Its Photocatalytic Performance for the Degradation of Organic Waste. *Nano*, **2020**, 15, 2050018	1.1	2
16	Hydrothermal synthesis of an efficient and visible light responsive pure and strontium doped zinc oxide nano-hexagonal photocatalysts for photodegradation of Rhodamine B dye. *Applied Nanoscience (Switzerland)*, **2021**, 11, 1045-1056	3.3	2
15	Nipah (Musa Acuminata Balbisiana) banana peel as a lignocellulosic precursor for activated carbon: characterization study after carbonization process with phosphoric acid impregnated activated carbon. *Biomass Conversion and Biorefinery*,1	2.3	2
14	Capacitive properties of novel Sb-doped Co3O4 electrode material synthesized by hydrothermal method. *Ceramics International*, **2021**, 47, 32210-32217	5.1	2
13	Constructing S-Scheme Heterojunction of CoAlLa-LDH/g-C3N4 through Monolayer Ti3C2-MXene to Promote Photocatalytic CO2 Re-forming of Methane to Solar Fuels. *ACS Applied Energy Materials*, **2022**, 5, 784-806	6.1	2
12	A review on sensitivity of operating parameters on biogas catalysts for selective oxidation of Hydrogen Sulfide to elemental sulfur.. *Chemosphere*, **2022**, 134579	8.4	2
11	Single-step fabrication of highly stable amorphous TiO nanotubes arrays (am-TNTA) for stimulating gas-phase photoreduction of CO to methane. *Chemosphere*, **2021**, 289, 133170	8.4	1
10	Recent developments in layered double hydroxide structures with their role in promoting photocatalytic hydrogen production: A comprehensive review. *International Journal of Energy Research*,	4.5	1
9	Insighting role of activated carbon based nanostructures for complete photocatalytic degradation of hazardous pharmaceutical compound. *Applied Nanoscience (Switzerland)*, **2021**, 11, 1117-1126	3.3	1
8	H2-rich syngas production from air gasification of date palm waste: an experimental and modeling investigation. *Biomass Conversion and Biorefinery*,1	2.3	0

7	Structural, Thermal, Morphological and Magnetic Properties of Al3+-Doped Nanostructured Spinel Nickel Ferrites. *Science of Advanced Materials*, **2021**, 13, 794-802	2.3	0
6	Photocatalytic CO2 reduction to CO and CH4 using g-C3N4/RGO on titania nanotube arrays (TNTAs). *Journal of Materials Science*, **2021**, 56, 18989	4.3	0
5	Sequential and/or Simultaneous Wet-Impregnation Impact on the Mesoporous Pt/Sn/Zn/Al2O3 Catalysts for the Direct Ethane Dehydrogenation. *Journal of Nanomaterials*, **2022**, 2022, 1-17	3.2	0
4	Recent advances in constructing heterojunctions of binary semiconductor photocatalysts for visible light responsive CO 2 reduction to energy efficient fuels: A review. *International Journal of Energy Research*, **2022**, 46, 5523-5584	4.5	0
3	Doped Nanostructured Manganese Ferrites: Synthesis, Characterization, and Magnetic Properties. *Journal of Nanomaterials*, **2021**, 2021, 1-12	3.2	0
2	Impact of cobalt as dopant on surface morphologies of undoped ZnO nanostructured thin films. *Asia-Pacific Journal of Chemical Engineering*, **2018**, 13, e2183	1.3	
1	Mechanistic investigation of Mg2+-ion-induced ZnO nanorods for enhanced photocatalytic performance. *Applied Nanoscience (Switzerland)*, **2021**, 11, 1917-1927	3.3	