Asim Jilani

List of Publications by Year in descending order

77 papers	1,883 citations	236612 25 h-index	301761 39 g-index
78 all docs	78 docs citations	78 times ranked	1930 citing authors

#	Article	IF	Citations
1	Coal fly ash supported CoFe2O4 nanocomposites: Synergetic Fenton-like and photocatalytic degradation of methylene blue. Environmental Research, 2022, 206, 112280.	3.7	38
2	Prewetting Induced Hydrophilicity to Augment Photocatalytic Activity of Nanocalcite @ Polyester Fabric. Polymers, 2022, 14, 295.	2.0	4
3	Phenol removal and hydrogen production from water: Silver nanoparticles decorated on polyaniline wrapped zinc oxide nanorods. Journal of Industrial and Engineering Chemistry, 2022, 109, 347-358.	2.9	14
4	Development and Mechanistic Studies of Ternary Nanocomposites for Hydrogen Production from Water Splitting to Yield Sustainable/Green Energy and Environmental Remediation. Polymers, 2022, 14, 1290.	2.0	8
5	An Electrochemical Investigation of Methanol Oxidation on Thin Films of Nickel Oxide and Its Composites with Zirconium and Yttrium Oxides. Crystals, 2022, 12, 534.	1.0	9
6	Synthesis and Application of Egg Shell Biochar for As(V) Removal from Aqueous Solutions. Catalysts, 2022, 12, 431.	1.6	9
7	Challenges, Opportunities and Future Directions of Membrane Technology for Natural Gas Purification: A Critical Review. Membranes, 2022, 12, 646.	1.4	12
8	Microwave Irradiation and Glutamic Acid-Assisted Phytotreatment of Textile and Surgical Industrial Wastewater by Sorghum. Molecules, 2022, 27, 4004.	1.7	3
9	Reduced graphene oxide-assisted graphitic carbon nitride@ZnO rods for enhanced physical and photocatalytic degradation. Inorganic Chemistry Communication, 2022, 142, 109623.	1.8	8
10	Freestanding Activated Carbon Nanocomposite Electrodes for Capacitive Deionization of Water. Polymers, 2022, 14, 2891.	2.0	3
11	Characterization of niobium-doped zinc oxide thin films: Structural changes and optical properties. Materials Today Communications, 2021, 26, 101791.	0.9	2
12	Aerogels in the environment protection. , 2021, , 245-257.		0
13	Synthesis and characterization of a novel single-phase sputtered Cu2O thin films: Structural, antibacterial activity and photocatalytic degradation of methylene blue. Inorganic Chemistry Communication, 2021, 128, 108606.	1.8	20
14	Improvement the morphology, surface roughness, and some physical properties of sputtered CuO thin films by Si. Optical and Quantum Electronics, 2021, 53, 1.	1.5	4
15	Mechanistic insight of dye degradation using TiO2 anchored Î±-MnO2 nanorods as promising sunlight driven photocatalyst. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 271, 115257.	1.7	20
16	Mixed metal ferrite (Mn_{0.6}Zn_{0.4}Fe₂O₄) intercalated g-C₃N₄ nanocomposite: efficient sunlight driven photocatalyst for methylene blue degradation. Nanotechnology, 2021, 32, 505714.	1.3	8
17	Effective Removal of Cr(VI) from Wastewater Using Biochar Derived from Walnut Shell. International Journal of Environmental Research and Public Health, 2021, 18, 9670.	1.2	19
18	Coal fly ash-based copper ferrite nanocomposites as potential heterogeneous photocatalysts for wastewater remediation. Applied Surface Science, 2021, 565, 150542.	3.1	40

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19	Nanocomposites for hydrolysis of NaBH4, nanomaterials for hydrogen storage applications. , 2021, , 187-196.		0
20	Ternary nanocomposites for supercapattery. , 2021, , 141-173.		2
21	Immobilization techniques of a photocatalyst into and onto a polymer membrane for photocatalytic activity. RSC Advances, 2021, 11, 6985-7014.	1.7	76
22	Facile synthesis of silver decorated reduced graphene oxide@zinc oxide as ternary nanocomposite: an efficient photocatalyst for the enhanced degradation of organic dye under UVâ€“visible light. Journal of Materials Science, 2021, 56, 7434-7450.	1.7	17
23	Fabrication of High Performance PVDF Hollow Fiber Membrane Using Less Toxic Solvent at Different Additive Loading and Air Gap. Membranes, 2021, 11, 843.	1.4	10
24	High Performance Membrane for Natural Gas Sweetening Plants. Advances in Science, Technology and Innovation, 2021, , 59-72.	0.2	1
25	Plasmon-Based Label-Free Biosensor Using Gold Nanosphere for Dengue Detection. Crystals, 2021, 11, 1340.	1.0	2
26	Fabrication of Metal (Cu and Cr) Incorporated Nickel Oxide Films for Electrochemical Oxidation of Methanol. Crystals, 2021, 11, 1398.	1.0	16
27	Investigation of Fe-Doped Graphitic Carbon Nitride-Silver Tungstate as a Ternary Visible Light Active Photocatalyst. Journal of Chemistry, 2021, 2021, 1-18.	0.9	11
28	Enhanced Solar Photocatalytic Reduction of Cr(VI) Using a (ZnO/CuO) Nanocomposite Grafted onto a Polyester Membrane for Wastewater Treatment. Polymers, 2021, 13, 4047.	2.0	14
29	Facile removal of bisphenol A from water through novel Ag-doped TiO2 photocatalytic hollow fiber ceramic membrane. Journal of the Australian Ceramic Society, 2020, 56, 29-39.	1.1	15
30	High sorption efficiency for As(III) and As(V) from aqueous solutions using novel almond shell biochar. Chemosphere, 2020, 243, 125330.	4.2	81
31	Degradation of reactive dye using heterogeneous photo-Fenton catalysts: ZnFe₂O₄ and GO-ZnFe₂O₄ composite. Materials Research Express, 2020, 7, 015519.	0.8	64
32	Ternary nanocomposite of cobalt oxide nanograins and silver nanoparticles grown on reduced graphene oxide conducting platform for high-performance supercapattery electrode material. Journal of Alloys and Compounds, 2020, 821, 153452.	2.8	46
33	Self-healing of polymer materials and their composites. , 2020, , 103-121.		0
34	Graphene-based material for self-healing: mechanism, synthesis, characteristics, and applications. , 2020, , 163-175.		2
35	Sulfonated polyaniline-encapsulated graphene@graphitic carbon nitride nanocomposites for significantly enhanced photocatalytic degradation of phenol: a mechanistic study. New Journal of Chemistry, 2020, 44, 19570-19580.	1.4	25
36	Controlled engineering of nickel carbide induced N-enriched carbon nanotubes for hydrogen and oxygen evolution reactions in wide pH range. Electrochimica Acta, 2020, 341, 136032.	2.6	45

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37	Comparative evaluation of wheat straw and press mud biochars for Cr(VI) elimination from contaminated aqueous solution. Environmental Technology and Innovation, 2020, 19, 101017.	3.0	18
38	ZIF-8 based polysulfone hollow fiber membranes for natural gas purification. Polymer Testing, 2020, 84, 106415.	2.3	30
39	Temperature-dependent heterojunction device characteristics of n-ZnO nanorods/p-Si assembly. Materials Express, 2020, 10, 29-36.	0.2	3
40	Degradation of acetamiprid using graphene-oxide-based metal (Mn and Ni) ferrites as Fenton-like photocatalysts. Water Science and Technology, 2020, 81, 178-189.	1.2	39
41	Graphene Based Composites of Metals/Metal Oxides as Photocatalysts. , 2020, , 329-337.		1
42	CuO sputtered flexible polyaniline@graphene thin films:A recyclable photocatalyst with enhanced electrical properties. Composites Part B: Engineering, 2019, 175, 107092.	5.9	36
43	Magnetic Hierarchically Macroporous Emulsion-Templated Poly(acrylic acid)â€“Iron Oxide Nanocomposite Beads for Water Remediation. Langmuir, 2019, 35, 8996-9003.	1.6	28
44	Comparative efficiency of peanut shell and peanut shell biochar for removal of arsenic from water. Environmental Science and Pollution Research, 2019, 26, 18624-18635.	2.7	69
45	Linear /nonlinear optical susceptibility spectroscopic constants of polyaniline@graphene oxide nanocomposite thin films. Synthetic Metals, 2019, 251, 30-39.	2.1	10
46	Structural and optical characteristics, and bacterial decolonization studies on non-reactive RF sputtered Cuâ€“ZnO@ graphene based nanoparticles thin films. Journal of Materials Science, 2019, 54, 6515-6529.	1.7	16
47	UV- ozone treated graphene oxide/ PEDOT:PSS bilayer as a novel hole transport layer in highly efficient and stable organic solar cells. Organic Electronics, 2019, 66, 32-42.	1.4	30
48	Chemical state analysis, optical band gap, and photocatalytic decolorization of cobalt-doped ZnO nanospherical thin films by DC/RF sputtering technique. Optik, 2018, 164, 143-154.	1.4	17
49	A simple route to layer-by-layer assembled few layered graphene oxide nanosheets: Optical, dielectric and antibacterial aspects. Journal of Molecular Liquids, 2018, 253, 284-296.	2.3	28
50	Sunlight-enhanced catalytic degradation over Agâ€“CuO nanoparticles thin films prepared by DC/RF sputtering technique. Bulletin of Materials Science, 2018, 41, 1.	0.8	13
51	Status and improvement of dual-layer hollow fiber membranes via co-extrusion process for gas separation: A review. Journal of Natural Gas Science and Engineering, 2018, 52, 215-234.	2.1	45
52	Modified photo-current response of an organic photodiode by using V2O5 in both hole and electron transport layers. Sensors and Actuators A: Physical, 2018, 272, 334-340.	2.0	10
53	Structural transition from two-dimensional ZIF-L to three-dimensional ZIF-8 nanoparticles in aqueous room temperature synthesis with improved CO2 adsorption. Materials Characterization, 2018, 136, 407-416.	1.9	48
54	Novel Control of the Synthesis and Band Gap of Zinc Aluminate (ZnAl2O4) by Using a DC/RF Sputtering Technique. Silicon, 2018, 10, 1217-1223.	1.8	3

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55	Impact of titanium ions in the hexagonal nanostructured ZnO thin films. Journal of Materials Science: Materials in Electronics, 2018, 29, 3056-3065.	1.1	18
56	Facile Synthesis of Ternary Alloy of CdSe1-xSx Quantum Dots with Tunable Absorption and Emission of Visible Light. Nanomaterials, 2018, 8, 979.	1.9	10
57	Graphene and its derivatives: synthesis, modifications, and applications in wastewater treatment. Environmental Chemistry Letters, 2018, 16, 1301-1323.	8.3	84
58	Moderately reduced graphene oxide via UV-ozone treatment as hole transport layer for high efficiency organic solar cells. Organic Electronics, 2018, 59, 140-148.	1.4	11
59	Economical, environmental friendly synthesis, characterization for the production of zeolitic imidazolate framework-8 (ZIF-8) nanoparticles with enhanced CO2 adsorption. Arabian Journal of Chemistry, 2018, 11, 1072-1083.	2.3	50
60	Combination of Mesenchymal Stem Cells, Cartilage Pellet and Bioscaffold Supported Cartilage Regeneration of a Full Thickness Articular Surface Defect in Rabbits. Tissue Engineering and Regenerative Medicine, 2018, 15, 661-671.	1.6	16
61	A comprehensive study on the surface chemistry of particulate matter collected from Jeddah, Saudi Arabia. Journal of Atmospheric Chemistry, 2018, 75, 271-283.	1.4	2
62	Structural, optical, and photocatalytic investigation of nickel oxide@graphene oxide nanocomposite thin films by RF magnetron sputtering. Journal of Materials Science, 2018, 53, 15034-15050.	1.7	25
63	Influence of ammonolysis, Cu-incorporation and film thickness on structure, optical and photocatalytic properties of Ta2O5 thin films fabricated via solâ€“gel: a comparative study. Journal of Materials Science: Materials in Electronics, 2017, 28, 6812-6822.	1.1	8
64	Development of Silver-Nanoparticle-Decorated Emulsion-Templated Hierarchically Porous Poly(1-vinylimidazole) Beads for Water Treatment. ACS Applied Materials & Interfaces, 2017, 9, 24190-24197.	4.0	38
65	Facile spectroscopic approach to obtain the optoelectronic properties of few-layered graphene oxide thin films and their role in photocatalysis. New Journal of Chemistry, 2017, 41, 14217-14227.	1.4	33
66	Sputtered CuO mono-phase thin films: Structural, compositional and spectroscopic linear/nonlinear optical characteristics. Optik, 2017, 144, 207-218.	1.4	18
67	Polymer composite reinforced with nanoparticles produced from graphitic carbon-rich fly ash. Journal of Composite Materials, 2017, 51, 2675-2685.	1.2	6
68	Non-linear optics of nano-scale pentacene thin film. Applied Physics B: Lasers and Optics, 2016, 122, 1.	1.1	9
69	Enhanced the photocatalytic activity of Ni-doped ZnO thin films: Morphological, optical and XPS analysis. Superlattices and Microstructures, 2016, 94, 108-118.	1.4	186
70	ALD grown nanostructured ZnO thin films: Effect of substrate temperature on thickness and energy band gap. Journal of King Saud University - Science, 2016, 28, 347-354.	1.6	53
71	Microwave synthesis of ultrathin, non-agglomerated CuO nanosheets and their evaluation as nanofillers for polymer nanocomposites. Journal of Alloys and Compounds, 2016, 680, 350-358.	2.8	17
72	Linear and nonlinear optical investigations of nano-scale Si-doped ZnO thin films: spectroscopic approach. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	26

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73	The photocatalytic activity of graphene oxide/Ag3PO4 nano-composite: Loading effect. Optik, 2016, 127, 10746-10757.	1.4	31
74	Morphological, optical and X-ray photoelectron chemical state shift investigations of ZnO thin films. Optik, 2016, 127, 6358-6365.	1.4	27
75	Nonlinear optical parameters of nanocrystalline AZO thin film measured at different substrate temperatures. Physica B: Condensed Matter, 2016, 481, 97-103.	1.3	46
76	A study on linear and non-linear optical constants of Rhodamine B thin film deposited on FTO glass. Physica B: Condensed Matter, 2016, 490, 25-30.	1.3	24
77	Advance Deposition Techniques for Thin Film and Coating. , 0, , .		52