

Asim Jilani

List of Publications by Year in descending order

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77
papers

1,883
citations

236925

25
h-index

302126

39
g-index

78
all docs

78
docs citations

78
times ranked

1930
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced the photocatalytic activity of Ni-doped ZnO thin films: Morphological, optical and XPS analysis. Superlattices and Microstructures, 2016, 94, 108-118.	3.1	186
2	Graphene and its derivatives: synthesis, modifications, and applications in wastewater treatment. Environmental Chemistry Letters, 2018, 16, 1301-1323.	16.2	84
3	High sorption efficiency for As(III) and As(V) from aqueous solutions using novel almond shell biochar. Chemosphere, 2020, 243, 125330.	8.2	81
4	Immobilization techniques of a photocatalyst into and onto a polymer membrane for photocatalytic activity. RSC Advances, 2021, 11, 6985-7014.	3.6	76
5	Comparative efficiency of peanut shell and peanut shell biochar for removal of arsenic from water. Environmental Science and Pollution Research, 2019, 26, 18624-18635.	5.3	69
6	Degradation of reactive dye using heterogeneous photo-Fenton catalysts: ZnFe ₂ O ₄ and GO-ZnFe ₂ O ₄ composite. Materials Research Express, 2020, 7, 015519.	1.6	64
7	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.	3.5	53
8	Advance Deposition Techniques for Thin Film and Coating. , 0, , .		52
9	Economical, environmental friendly synthesis, characterization for the production of zeolitic imidazolate framework-8 (ZIF-8) nanoparticles with enhanced CO ₂ adsorption. Arabian Journal of Chemistry, 2018, 11, 1072-1083.	4.9	50
10	Structural transition from two-dimensional ZIF-L to three-dimensional ZIF-8 nanoparticles in aqueous room temperature synthesis with improved CO ₂ adsorption. Materials Characterization, 2018, 136, 407-416.	4.4	48
11	Nonlinear optical parameters of nanocrystalline AZO thin film measured at different substrate temperatures. Physica B: Condensed Matter, 2016, 481, 97-103.	2.7	46
12	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.	5.5	46
13	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.	4.4	45
14	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.	5.2	45
15	Coal fly ash-based copper ferrite nanocomposites as potential heterogeneous photocatalysts for wastewater remediation. Applied Surface Science, 2021, 565, 150542.	6.1	40
16	Degradation of acetamiprid using graphene-oxide-based metal (Mn and Ni) ferrites as Fenton-like photocatalysts. Water Science and Technology, 2020, 81, 178-189.	2.5	39
17	Development of Silver-Nanoparticle-Decorated Emulsion-Templated Hierarchically Porous Poly(1-vinylimidazole) Beads for Water Treatment. ACS Applied Materials & Interfaces, 2017, 9, 24190-24197.	8.0	38
18	Coal fly ash supported CoFe ₂ O ₄ nanocomposites: Synergetic Fenton-like and photocatalytic degradation of methylene blue. Environmental Research, 2022, 206, 112280.	7.5	38

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19	CuO sputtered flexible polyaniline@graphene thin films:A recyclable photocatalyst with enhanced electrical properties. Composites Part B: Engineering, 2019, 175, 107092.	12.0	36
20	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.	2.8	33
21	The photocatalytic activity of graphene oxide/Ag ₃ PO ₄ nano-composite: Loading effect. Optik, 2016, 127, 10746-10757.	2.9	31
22	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.	2.6	30
23	ZIF-8 based polysulfone hollow fiber membranes for natural gas purification. Polymer Testing, 2020, 84, 106415.	4.8	30
24	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.	4.9	28
25	Magnetic Hierarchically Macroporous Emulsion-Templated Poly(acrylic acid)@Iron Oxide Nanocomposite Beads for Water Remediation. Langmuir, 2019, 35, 8996-9003.	3.5	28
26	Morphological, optical and X-ray photoelectron chemical state shift investigations of ZnO thin films. Optik, 2016, 127, 6358-6365.	2.9	27
27	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.	2.3	26
28	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.	3.7	25
29	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.	2.8	25
30	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.	2.7	24
31	Synthesis and characterization of a novel single-phase sputtered Cu ₂ O thin films: Structural, antibacterial activity and photocatalytic degradation of methylene blue. Inorganic Chemistry Communication, 2021, 128, 108606.	3.9	20
32	Mechanistic insight of dye degradation using TiO ₂ anchored γ -MnO ₂ nanorods as promising sunlight driven photocatalyst. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 271, 115257.	3.5	20
33	Effective Removal of Cr(VI) from Wastewater Using Biochar Derived from Walnut Shell. International Journal of Environmental Research and Public Health, 2021, 18, 9670.	2.6	19
34	Sputtered CuO mono-phase thin films: Structural, compositional and spectroscopic linear/nonlinear optical characteristics. Optik, 2017, 144, 207-218.	2.9	18
35	Impact of titanium ions in the hexagonal nanostructured ZnO thin films. Journal of Materials Science: Materials in Electronics, 2018, 29, 3056-3065.	2.2	18
36	Comparative evaluation of wheat straw and press mud biochars for Cr(VI) elimination from contaminated aqueous solution. Environmental Technology and Innovation, 2020, 19, 101017.	6.1	18

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37	Microwave synthesis of ultrathin, non-agglomerated CuO nanosheets and their evaluation as nanofillers for polymer nanocomposites. <i>Journal of Alloys and Compounds</i> , 2016, 680, 350-358.	5.5	17
38	Chemical state analysis, optical band gap, and photocatalytic decolorization of cobalt-doped ZnO nanospherical thin films by DC/RF sputtering technique. <i>Optik</i> , 2018, 164, 143-154.	2.9	17
39	Facile synthesis of silver decorated reduced graphene oxide@zinc oxide as ternary nanocomposite: an efficient photocatalyst for the enhanced degradation of organic dye under UV-visible light. <i>Journal of Materials Science</i> , 2021, 56, 7434-7450.	3.7	17
40	Combination of Mesenchymal Stem Cells, Cartilage Pellet and Bioscaffold Supported Cartilage Regeneration of a Full Thickness Articular Surface Defect in Rabbits. <i>Tissue Engineering and Regenerative Medicine</i> , 2018, 15, 661-671.	3.7	16
41	Structural and optical characteristics, and bacterial decolonization studies on non-reactive RF sputtered Cu-ZnO@ graphene based nanoparticles thin films. <i>Journal of Materials Science</i> , 2019, 54, 6515-6529.	3.7	16
42	Fabrication of Metal (Cu and Cr) Incorporated Nickel Oxide Films for Electrochemical Oxidation of Methanol. <i>Crystals</i> , 2021, 11, 1398.	2.2	16
43	Facile removal of bisphenol A from water through novel Ag-doped TiO ₂ photocatalytic hollow fiber ceramic membrane. <i>Journal of the Australian Ceramic Society</i> , 2020, 56, 29-39.	1.9	15
44	Enhanced Solar Photocatalytic Reduction of Cr(VI) Using a (ZnO/CuO) Nanocomposite Grafted onto a Polyester Membrane for Wastewater Treatment. <i>Polymers</i> , 2021, 13, 4047.	4.5	14
45	Phenol removal and hydrogen production from water: Silver nanoparticles decorated on polyaniline wrapped zinc oxide nanorods. <i>Journal of Industrial and Engineering Chemistry</i> , 2022, 109, 347-358.	5.8	14
46	Sunlight-enhanced catalytic degradation over Ag-CuO nanoparticles thin films prepared by DC/RF sputtering technique. <i>Bulletin of Materials Science</i> , 2018, 41, 1.	1.7	13
47	Challenges, Opportunities and Future Directions of Membrane Technology for Natural Gas Purification: A Critical Review. <i>Membranes</i> , 2022, 12, 646.	3.0	12
48	Moderately reduced graphene oxide via UV-ozone treatment as hole transport layer for high efficiency organic solar cells. <i>Organic Electronics</i> , 2018, 59, 140-148.	2.6	11
49	Investigation of Fe-Doped Graphitic Carbon Nitride-Silver Tungstate as a Ternary Visible Light Active Photocatalyst. <i>Journal of Chemistry</i> , 2021, 2021, 1-18.	1.9	11
50	Modified photo-current response of an organic photodiode by using V ₂ O ₅ in both hole and electron transport layers. <i>Sensors and Actuators A: Physical</i> , 2018, 272, 334-340.	4.1	10
51	Facile Synthesis of Ternary Alloy of CdSe _{1-x} S _x Quantum Dots with Tunable Absorption and Emission of Visible Light. <i>Nanomaterials</i> , 2018, 8, 979.	4.1	10
52	Linear /nonlinear optical susceptibility spectroscopic constants of polyaniline@graphene oxide nanocomposite thin films. <i>Synthetic Metals</i> , 2019, 251, 30-39.	3.9	10
53	Fabrication of High Performance PVDF Hollow Fiber Membrane Using Less Toxic Solvent at Different Additive Loading and Air Gap. <i>Membranes</i> , 2021, 11, 843.	3.0	10
54	Non-linear optics of nano-scale pentacene thin film. <i>Applied Physics B: Lasers and Optics</i> , 2016, 122, 1.	2.2	9

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55	An Electrochemical Investigation of Methanol Oxidation on Thin Films of Nickel Oxide and Its Composites with Zirconium and Yttrium Oxides. <i>Crystals</i> , 2022, 12, 534.	2.2	9
56	Synthesis and Application of Egg Shell Biochar for As(V) Removal from Aqueous Solutions. <i>Catalysts</i> , 2022, 12, 431.	3.5	9
57	Influence of ammonolysis, Cu-incorporation and film thickness on structure, optical and photocatalytic properties of Ta ₂ O ₅ thin films fabricated via sol-gel: a comparative study. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 6812-6822.	2.2	8
58	Mixed metal ferrite (Mn _{0.6} Zn _{0.4} Fe ₂ O ₄) intercalated g-C ₃ N ₄ nanocomposite: efficient sunlight driven photocatalyst for methylene blue degradation. <i>Nanotechnology</i> , 2021, 32, 505714.	2.6	8
59	Development and Mechanistic Studies of Ternary Nanocomposites for Hydrogen Production from Water Splitting to Yield Sustainable/Green Energy and Environmental Remediation. <i>Polymers</i> , 2022, 14, 1290.	4.5	8
60	Reduced graphene oxide-assisted graphitic carbon nitride@ZnO rods for enhanced physical and photocatalytic degradation. <i>Inorganic Chemistry Communication</i> , 2022, 142, 109623.	3.9	8
61	Polymer composite reinforced with nanoparticles produced from graphitic carbon-rich fly ash. <i>Journal of Composite Materials</i> , 2017, 51, 2675-2685.	2.4	6
62	Improvement the morphology, surface roughness, and some physical properties of sputtered CuO thin films by Si. <i>Optical and Quantum Electronics</i> , 2021, 53, 1.	3.3	4
63	Prewetting Induced Hydrophilicity to Augment Photocatalytic Activity of Nanocalcite @ Polyester Fabric. <i>Polymers</i> , 2022, 14, 295.	4.5	4
64	Novel Control of the Synthesis and Band Gap of Zinc Aluminate (ZnAl ₂ O ₄) by Using a DC/RF Sputtering Technique. <i>Silicon</i> , 2018, 10, 1217-1223.	3.3	3
65	Temperature-dependent heterojunction device characteristics of n-ZnO nanorods/p-Si assembly. <i>Materials Express</i> , 2020, 10, 29-36.	0.5	3
66	Microwave Irradiation and Glutamic Acid-Assisted Phytotreatment of Textile and Surgical Industrial Wastewater by Sorghum. <i>Molecules</i> , 2022, 27, 4004.	3.8	3
67	Freestanding Activated Carbon Nanocomposite Electrodes for Capacitive Deionization of Water. <i>Polymers</i> , 2022, 14, 2891.	4.5	3
68	A comprehensive study on the surface chemistry of particulate matter collected from Jeddah, Saudi Arabia. <i>Journal of Atmospheric Chemistry</i> , 2018, 75, 271-283.	3.2	2
69	Graphene-based material for self-healing: mechanism, synthesis, characteristics, and applications. , 2020, , 163-175.		2
70	Characterization of niobium-doped zinc oxide thin films: Structural changes and optical properties. <i>Materials Today Communications</i> , 2021, 26, 101791.	1.9	2
71	Ternary nanocomposites for supercapattery. , 2021, , 141-173.		2
72	Plasmon-Based Label-Free Biosensor Using Gold Nanosphere for Dengue Detection. <i>Crystals</i> , 2021, 11, 1340.	2.2	2

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73	Graphene Based Composites of Metals/Metal Oxides as Photocatalysts. , 2020, , 329-337.		1
74	High Performance Membrane for Natural Gas Sweetening Plants. Advances in Science, Technology and Innovation, 2021, , 59-72.	0.4	1
75	Self-healing of polymer materials and their composites. , 2020, , 103-121.		0
76	Aerogels in the environment protection. , 2021, , 245-257.		0
77	Nanocomposites for hydrolysis of NaBH ₄ , nanomaterials for hydrogen storage applications. , 2021, , 187-196.		0