Mohammad Abu Haija

List of Publications by Year
in descending order

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Version: 2024-02-01

72 papers	2,730 citations	201575 27 h-index	189801 50 g-index
74 all docs	74 docs citations	74 times ranked	3234 citing authors

#	Article	IF	Citations
1	Use of membrane technology for oil field and refinery produced water treatmentâ€"A review. Chemical Engineering Research and Design, 2016, 100, 183-202.	2.7	301
2	Polyethylenimine modified graphene oxide hydrogel composite as an efficient adsorbent for heavy metal ions. Separation and Purification Technology, 2019, 209, 870-880.	3.9	172
3	Intrinsically superhydrophobic PVDF membrane by phase inversion for membrane distillation. Desalination, 2017, 417, 77-86.	4.0	142
4	Catalytic activation of peroxymonosulfate using CeVO4 for phenol degradation: An insight into the reaction pathway. Applied Catalysis B: Environmental, 2020, 266, 118601.	10.8	136
5	Characterization of H2S gas sensor based on CuFe2O4 nanoparticles. Journal of Alloys and Compounds, 2017, 690, 461-468.	2.8	120
6	V2O3() on Au() and W(): growth, termination and electronic structure. Surface Science, 2003, 539, 99-112.	0.8	114
7	Synergistic effects of activated carbon and nano-zerovalent copper on the performance of hydroxyapatite-alginate beads for the removal of As3+ from aqueous solution. Journal of Cleaner Production, 2019, 235, 875-886.	4.6	108
8	Application and prospects of carbon nanostructured materials in water treatment: A review. Journal of Water Process Engineering, 2020, 33, 100996.	2.6	82
9	Vanadium oxide surfaces and supported vanadium oxide nanoparticles. Topics in Catalysis, 2006, 38, 117-125.	1.3	80
10	Selective hydrogen gas sensor using CuFe2O4 nanoparticle based thin film. Applied Surface Science, 2016, 369, 443-447.	3.1	73
11	Oil-water emulsion separation using intrinsically superoleophilic and superhydrophobic PVDF membrane. Separation and Purification Technology, 2019, 212, 388-395.	3.9	66
12	Chiral-Selective Chemistry Induced by Spin-Polarized Secondary Electrons from a Magnetic Substrate. Physical Review Letters, 2008, 101, 178301.	2.9	64
13	Adsorption of water on thin V2O3(0001) films. Surface Science, 2006, 600, 1040-1047.	0.8	63
14	Preparation and catalytic performance of CuFe2O4 nanoparticles supported on reduced graphene oxide (CuFe2O4/rGO) for phenol degradation. Materials Chemistry and Physics, 2019, 238, 121931.	2.0	62
15	Low temperature adsorption of oxygen on reduced V2O3(0001) surfaces. Surface Science, 2006, 600, 1497-1503.	0.8	55
16	Novel magnetic coffee waste nanocomposite as effective bioadsorbent for Pb(II) removal from aqueous solutions. Journal of Environmental Chemical Engineering, 2018, 6, 2390-2400.	3.3	54
17	Regeneration and reuse of bio-surfactant to produce colloidal gas aphrons for heavy metal ions removal using single and multistage cascade flotation. Journal of Cleaner Production, 2019, 217, 493-502.	4.6	43
18	Spinel ferrite nanoparticles for H2S gas sensor. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	1.1	42

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19	Green Synthesis, Characterization, Antimicrobial, Anti-Cancer, and Optimization of Colorimetric Sensing of Hydrogen Peroxide of Algae Extract Capped Silver Nanoparticles. Nanomaterials, 2020, 10, 1861.	1.9	42
20	Development of watermelon rind derived activated carbon/manganese ferrite nanocomposite for cleaner desalination by capacitive deionization. Journal of Cleaner Production, 2020, 272, 122626.	4.6	41
21	Review of technologies for biotreatment of refinery wastewaters: progress, challenges and future opportunities. Environmental Technology Reviews, 2016, 5, 12-38.	2.1	34
22	Graphene as an Efficient and Reusable Adsorbent Compared to Activated Carbons for the Removal of Phenol from Aqueous Solutions. Water, Air, and Soil Pollution, 2017, 228, 1.	1.1	34
23	Enhanced removal of methyl violet 6B cationic dye from aqueous solutions using calcium alginate hydrogel grafted with poly (styrene-co-maleic anhydride). Polymer Bulletin, 2019, 76, 175-203.	1.7	34
24	Adsorptive removal of Acid Blue 113 using hydroxyapatite nanoadsorbents synthesized using Peltophorum pterocarpum pod extract. Chemosphere, 2022, 299, 134752.	4.2	32
25	A new method for producing microcrystalline cellulose from Gluconacetobacter xylinus and kenaf. Carbohydrate Polymers, 2011, 84, 1301-1305.	5.1	31
26	Cobalt and nickel ferrites based capacitive deionization electrode materials for water desalination applications. Electrochimica Acta, 2020, 363, 137083.	2.6	31
27	Enhanced removal of mixed metal ions from aqueous solutions using flotation by colloidal gas aphrons stabilized with sodium alginate. Separation and Purification Technology, 2018, 202, 103-110.	3.9	30
28	Synthesis and characterization of lignosulfonate/amino-functionalized SBA-15 nanocomposites for the adsorption of methylene blue from wastewater. New Journal of Chemistry, 2020, 44, 2291-2302.	1.4	29
29	Integrated photocatalytic technologies in water treatment using ferrites nanoparticles. Journal of Environmental Chemical Engineering, 2022, 10, 108204.	3.3	27
30	Depth resolved luminescence from oriented ZnO nanowires. Applied Physics Letters, 2009, 95, .	1.5	25
31	Tamarind shell derived N-doped carbon for capacitive deionization (CDI) studies. Journal of Electroanalytical Chemistry, 2019, 848, 113307.	1.9	25
32	Adsorptive Removal of Methylene Blue from Water Using High-Performance Alginate-Based Beads. Water, Air, and Soil Pollution, 2020, 231, 1.	1.1	24
33	Dual-functional paired photoelectrocatalytic system for the photocathodic reduction of CO2 to fuels and the anodic oxidation of furfural to value-added chemicals. Applied Catalysis B: Environmental, 2021, 298, 120520.	10.8	24
34	Heterogeneous catalytic degradation of phenol by a Fenton-type reaction using copper ferrites (CuFe2O4). , 0, 69, 268-283.		23
35	Pyrolysis of date seeds loaded with layered double hydroxide: Kinetics, thermodynamics, and pyrolytic gas properties. Energy Conversion and Management, 2022, 252, 115127.	4.4	23
36	Surface engineering of Au nanostructures for plasmon-enhanced electrochemical reduction of N2 and CO2 into urea in the visible-NIR region. Applied Energy, 2022, 318, 119244.	5.1	23

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37	Fabrication of Pd/MnFe2O4 bifunctional 2-D nanosheets to enhance the yield of HCOOH from CO2 cathodic reduction paired with anodic oxidation to CH3OH. Fuel, 2022, 311, 122619.	3.4	22
38	Synthesis of magnetic CuFe2O4 nanoparticles as green catalyst for toluene oxidation under solvent-free conditions. Arabian Journal of Chemistry, 2020, 13, 4945-4953.	2.3	21
39	Highly ordered mesoporous flower-like NiO nanoparticles: synthesis, characterization and photocatalytic performance. New Journal of Chemistry, 2020, 44, 3402-3411.	1.4	20
40	Self-Assembled Co₃O₄ Nanospheres on N-Doped Reduced Graphene Oxide (Co₃O₄/N-RGO) Bifunctional Electrocatalysts for Cathodic Reduction of CO₂ and Anodic Oxidation of Organic Pollutants. ACS Applied Energy Materials, 2021, 4, 11408-11418.	2.5	19
41	Adsorption and gas sensing properties of CuFe₂O₄ nanoparticles. Materials Science-Poland, 2019, 37, 289-295.	0.4	19
42	Non-enzymatic electrochemical dopamine sensing probe based on hexagonal shape zinc-doped cobalt oxide (Zn-Co2O4) nanostructure. Mikrochimica Acta, 2022, 189, 37.	2.5	19
43	Synthesis of a Magnetic Nanoparticles/Dialdehyde Starchâ€Based Composite Film for Food Packaging. Starch/Staerke, 2019, 71, 1800035.	1.1	18
44	Fabrication of H2S gas sensors using ZnxCu1-xFe2O4 nanoparticles. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	1.1	17
45	Fabrication of Ruâ€“CoFe2O4/RGO hierarchical nanostructures for high-performance photoelectrodes to reduce hazards Cr(VI) into Cr(III) coupled with anodic oxidation of phenols. Chemosphere, 2022, 299, 134439.	4.2	17
46	Molecular adsorption on V2O3(0001)/Au(111) surfaces. Topics in Catalysis, 2007, 46, 223-230.	1.3	16
47	Neutralization of Bayer bauxite residue (red mud) by various brines: A review of chemistry and engineering processes. Hydrometallurgy, 2021, 206, 105758.	1.8	16
48	A facile approach for the synthesis of spinel zinc ferrite/cellulose as an effective photocatalyst for the degradation of methylene blue in aqueous solution. Cellulose, 2022, 29, 2565-2576.	2.4	16
49	Scalable synthesis of an environmentally benign grapheneâ€“sand based organicâ€“inorganic hybrid for sulfide removal from aqueous solution: an insight into the mechanism. New Journal of Chemistry, 2019, 43, 3500-3512.	1.4	15
50	Synthesis and characterization of novel Schiffâ€™s bases derived from dialdehyde cellulose-6-phosphate. Cellulose, 2019, 26, 3703-3712.	2.4	15
51	Synthesis of Mesoporous/Macroporous Microparticles Using Three-Dimensional Assembly of Chitosan-Functionalized Halloysite Nanotubes and Their Performance in the Adsorptive Removal of Oil Droplets from Water. Langmuir, 2019, 35, 2343-2357.	1.6	14
52	Removal of metal ions and organics from real refinery wastewater using double- functionalized graphene oxide in alginate beads. Journal of Water Process Engineering, 2020, 38, 101635.	2.6	13
53	Bio-synthesize of photocatalytic Fe2O3 nanoparticles using Leucas aspera and Jatropha podagrica leaf extract for an effective removal of textile dye pollutants. Optik, 2022, 249, 168275.	1.4	13
54	White LED active Î±-Fe2O3/rGO photocatalytic nanocomposite for an effective degradation of tetracycline and ibuprofen molecules. Environmental Research, 2022, 212, 113301.	3.7	13

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55	Removal of heat stable salts from aqueous MDEA solution via electrosorption using carbon-based electrodes. International Journal of Greenhouse Gas Control, 2019, 85, 166-173.	2.3	12
56	Removal of iron from industrial lean methyldiethanolamine solvent by adsorption on sepiolite. Separation Science and Technology, 2018, 53, 404-416.	1.3	11
57	Carbon Dioxide Adsorption on V2O3(0001). Topics in Catalysis, 2017, 60, 413-419.	1.3	10
58	Catalytic Properties of Phosphate-Coated CuFe₂O₄ Nanoparticles for Phenol Degradation. Journal of Nanomaterials, 2019, 2019, 1-8.	1.5	10
59	Optical sensing of hydrogen peroxide using starch capped silver nanoparticles, synthesis, optimization and detection in urine. Sensors and Actuators Reports, 2020, 2, 100014.	2.3	10
60	Comparative catalytic activity of pure, mixed and P-modified CoFe2O4 nanoparticles for water treatment at neutral pH. Catalysis Communications, 2021, 150, 106267.	1.6	10
61	2D Î±-MoO3-x truncated microplates and microdisks as electroactive materials for highly efficient asymmetric supercapacitors. Journal of Energy Storage, 2022, 48, 103958.	3.9	9
62	Instant Cyclohexene Epoxidation Over Ni-TUD-1 Under Ambient Conditions. Catalysis Letters, 2021, 151, 1612-1622.	1.4	8
63	Gum Arabic dialdehyde thiosemicarbazone chelating resins for removal mercury (II) from aqueous solutions. , 0, 151, 403-413.		8
64	Separation and enrichment of micro and nano sized particles from aqueous solutions by flotation using colloidal gas aphrons. Journal of Water Process Engineering, 2019, 28, 123-128.	2.6	7
65	Sulfide remediation from wastewater using hydrothermally synthesized Î´-MnO2/porous graphitic carbon as adsorbent. Environmental Research, 2021, 196, 110429.	3.7	7
66	Fabrication and characterization of poly(vinyl alcohol)â€"Glycerolâ€"Spinel ferrites flexible membranes. Journal of Applied Polymer Science, 2020, 137, 48821.	1.3	6
67	Morphology-dependent catalytic activity of tungsten trioxide (WO₃) nanostructures for hydrogenation of furfural to furfuryl alcohol. Journal Physics D: Applied Physics, 2021, 54, 305502.	1.3	4
68	Effect of terbium doping in bismuth ferrite nanoparticles for the degradation of organic pollutant under sunlight irradiation. Journal of Materials Science: Materials in Electronics, 2022, 33, 9324-9333.	1.1	4
69	Hydrothermal synthesis of ZnO/C microflowers for photocatalytic degradation of organic pollutants under visible light irradiation: kinetics, mechanism and recyclability. Journal of Materials Science: Materials in Electronics, 2022, 33, 9412-9424.	1.1	1
70	X-ray- and electron-induced infrared emission spectroscopy. Review of Scientific Instruments, 2009, 80, 046104.	0.6	0
71	Solvent Influenced Fragmentations in Freeâ€Standing Threeâ€Dimensional Covalent Organic Framework Membranes for Hydrophobicity Switching. Angewandte Chemie, 0, , .	1.6	0
72	Titelbild: Solventâ€Influenced Fragmentations in Freeâ€Standing Threeâ€Dimensional Covalent Organic Framework Membranes for Hydrophobicity Switching (Angew. Chem. 13/2022). Angewandte Chemie, 2022, 134, .	1.6	0