

Fahad Ahmed Al-Harathi

List of Publications by Year in descending order

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77
papers

1,398
citations

331670

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414414

32
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all docs

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docs citations

77
times ranked

1187
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient Adsorption of Lead (II) from Aqueous Phase Solutions Using Polypyrrole-Based Activated Carbon. <i>Materials</i> , 2019, 12, 2020.	2.9	155
2	Facile one-pot green synthesis of Ag@ZnO Nanocomposites using potato peel and their Ag concentration dependent photocatalytic properties. <i>Scientific Reports</i> , 2020, 10, 20229.	3.3	97
3	Adsorption of Azo Dye Methyl Orange from Aqueous Solutions Using Alkali-Activated Polypyrrole-Based Graphene Oxide. <i>Molecules</i> , 2019, 24, 3685.	3.8	51
4	Production of renewable diesel from <i>Jatropha curcas</i> oil via pyrolytic-deoxygenation over various multi-wall carbon nanotube-based catalysts. <i>Chemical Engineering Research and Design</i> , 2020, 142, 336-349.	5.6	48
5	Photocatalytic Degradation of the Light Sensitive Organic Dyes: Methylene Blue and Rose Bengal by Using Urea Derived g-C ₃ N ₄ /ZnO Nanocomposites. <i>Catalysts</i> , 2020, 10, 1457.	3.5	47
6	Production of green diesel from catalytic deoxygenation of chicken fat oil over a series binary metal oxide-supported MWCNTs. <i>RSC Advances</i> , 2020, 10, 626-642.	3.6	46
7	Exploring the promising potential of MoS ₂ @RuS ₂ binary metal sulphide towards the electrocatalysis of antibiotic drug sulphadiazine. <i>Analytica Chimica Acta</i> , 2019, 1086, 55-65.	5.4	42
8	Au Nanoparticles Decorated Mesoporous SiO ₂ @WO ₃ Hybrid Materials with Improved Pore Connectivity for Ultratrace Ethanol Detection at Low Operating Temperature. <i>Small</i> , 2020, 16, e2004772.	10.0	37
9	Enhanced CO ₂ Adsorption by Nitrogen-Doped Graphene Oxide Sheets (N-GOs) Prepared by Employing Polymeric Precursors. <i>Materials</i> , 2018, 11, 578.	2.9	36
10	Synthesis of Gd/N co-doped ZnO for enhanced UV-vis and direct solar-light-driven photocatalytic degradation. <i>RSC Advances</i> , 2021, 11, 10194-10202.	3.6	36
11	Click synthesis of 1,2,3-triazole based imidazoles: Antitubercular evaluation, molecular docking and HSA binding studies. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2021, 36, 127810.	2.2	31
12	Green Synthesis of ZnO Nanostructures Using <i>Salvadora Persica</i> Leaf Extract: Applications for Photocatalytic Degradation of Methylene Blue Dye. <i>Crystals</i> , 2020, 10, 441.	2.2	30
13	Potential heterogeneous nano-catalyst via integrating hydrothermal carbonization for biodiesel production using waste cooking oil. <i>Chemosphere</i> , 2022, 286, 131913.	8.2	30
14	Effective adsorption of crystal violet from aqueous solutions with effective adsorbent: equilibrium, mechanism studies and modeling analysis. <i>Environmental Pollutants and Bioavailability</i> , 2021, 33, 214-226.	3.0	29
15	Investigation of biological activity of 2,3-disubstituted quinazolin-4(1 <i>H</i>)-ones against <i>Mycobacterium tuberculosis</i> and DNA <i>via</i> docking, spectroscopy and DFT studies. <i>New Journal of Chemistry</i> , 2021, 45, 403-414.	2.8	28
16	Challenges in tin perovskite solar cells. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 23413-23427.	2.8	27
17	Environmental lead exposure from halide perovskites in solar cells. <i>Trends in Ecology and Evolution</i> , 2022, 37, 281-283.	8.7	26
18	Activation of Persulfate for Improved Naproxen Degradation Using FeCo ₂ O ₄ @g-C ₃ N ₄ Heterojunction Photocatalysts. <i>ACS Omega</i> , 2021, 6, 34563-34571.	3.5	26

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19	Excited-state electronic properties, structural studies, noncovalent interactions, and inhibition of the novel severe acute respiratory syndrome coronavirus 2 proteins in Ripretinib by first-principle simulations. <i>Journal of Molecular Liquids</i> , 2021, 324, 115134.	4.9	23
20	Synthesis and Spectral Identification of Three Schiff Bases with a 2-(Piperazin-1-yl)-N-(thiophen-2-yl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 Antibacterial, and Molecular Docking Investigations. <i>Molecules</i> , 2020, 25, 2253.	3.8	22
21	Hydrothermal synthesis of hierarchical SnO ₂ nanomaterials for high-efficiency detection of pesticide residue. <i>Chinese Chemical Letters</i> , 2021, 32, 1502-1506.	9.0	22
22	Progress on Modified Calcium Oxide Derived Waste-Shell Catalysts for Biodiesel Production. <i>Catalysts</i> , 2021, 11, 194.	3.5	22
23	Synthesis of nanocaliflower ZnO photocatalyst by potato waste and its photocatalytic efficiency against dye. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 11538-11547.	2.2	21
24	Structural, Morphological, and Electrochemical Performance of CeO ₂ /NiO Nanocomposite for Supercapacitor Applications. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 411.	2.5	20
25	Dihydropyrimidinones: efficient one-pot green synthesis using Montmorillonite-KSF and evaluation of their cytotoxic activity. <i>RSC Advances</i> , 2020, 10, 42221-42234.	3.6	19
26	A facile construction of heterostructured ZnO/Co ₃ O ₄ mesoporous spheres and superior acetone sensing performance. <i>Chinese Chemical Letters</i> , 2021, 32, 1998-2004.	9.0	19
27	A sensitive electrochemical determination of chemotherapy agent using graphitic carbon nitride covered vanadium oxide nanocomposite; sonochemical approach. <i>Ultrasonics Sonochemistry</i> , 2019, 58, 104664.	8.2	18
28	Cost-effective adsorbent from arabinogalactan and pectin of cactus pear peels: Kinetics and thermodynamics studies. <i>International Journal of Biological Macromolecules</i> , 2020, 150, 941-947.	7.5	18
29	Structural investigations, quantum mechanical studies on proton and metal affinity and biological activity predictions of selpercatinib. <i>Journal of Molecular Liquids</i> , 2021, 325, 114765.	4.9	18
30	Synthesis and physicochemical, DFT, thermal and DNA-binding analysis of a new pentadentate N ₃ S ₂ Schiff base ligand and its [CuN ₃ S ₂] ²⁺ complexes. <i>RSC Advances</i> , 2020, 10, 21806-21821.	3.6	17
31	Discovery of a novel series of substituted quinolines acting as anticancer agents and selective EGFR blocker: Molecular docking study. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2021, 44, 128118.	2.2	17
32	Structure Engineering of Yolka€Shell Magnetic Mesoporous Silica Microspheres with Broccoli€Like Morphology for Efficient Catalysis and Enhanced Cellular Uptake. <i>Small</i> , 2021, 17, e2006925.	10.0	16
33	Syngas Production via CO ₂ Reforming of Methane over SrNiO ₃ and CeNiO ₃ Perovskites. <i>Energies</i> , 2021, 14, 2928.	3.1	16
34	Synthesis and Characterization of rGO@ZnO Nanocomposites for Esterification of Acetic Acid. <i>ACS Omega</i> , 2022, 7, 2786-2797.	3.5	16
35	Synthesis, physicochemical, thermal, and XRD/HSA interactions of mixed [Cu(Bipy)(Dipn)](X) ₂ complexes: DNA binding and molecular docking evaluation. <i>Journal of Coordination Chemistry</i> , 2020, 73, 3236-3248.	2.2	15
36	2D g-C ₃ N ₄ as a bifunctional photocatalyst for co-catalyst and sacrificial agent-free photocatalytic N ₂ fixation and dye photodegradation. <i>New Journal of Chemistry</i> , 2021, 45, 7174-7184.	2.8	15

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37	High Reserve in $\hat{\gamma}$ -Tocopherol of Peganum harmala Seeds Oil and Antifungal Activity of Oil against Ten Plant Pathogenic Fungi. <i>Molecules</i> , 2020, 25, 4569.	3.8	13
38	Synthesis and amide imidic prototropic tautomerization in thiophene-2-carbohydrazide: XRD, DFT/HSA-computation, DNA-docking, TG and isoconversional kinetics via FWO and KAS models. <i>RSC Advances</i> , 2020, 10, 2037-2048.	3.6	13
39	Facile synthesis of nanocrystalline $\hat{\gamma}$ -SnWO ₄ : as a photocatalyst, biosensor and anode for Li-ion battery. <i>SN Applied Sciences</i> , 2019, 1, 1.	2.9	12
40	Enhanced Photocatalytic Activity and Electrochemical Behaviour Towards Hg(II) of CeO ₂ :Ag Nanocomposite. <i>Journal of Electronic Materials</i> , 2020, 49, 7568-7580.	2.2	10
41	Impact of Quercetin Encapsulation with Added Phytosterols on Bilayer Membrane and Photothermal-Alteration of Novel Mixed Soy Lecithin-Based Liposome. <i>Nanomaterials</i> , 2020, 10, 2432.	4.1	10
42	Dinuclear uranium(vi) salen coordination compound: an efficient visible-light-active catalyst for selective reduction of CO ₂ to methanol. <i>Dalton Transactions</i> , 2020, 49, 17243-17251.	3.3	9
43	An insight into the mechanism of $\hat{\gamma}$ -symbiotic-bioremoval $\hat{\gamma}$ ™ of heavy metal ions from synthetic and industrial samples using bacterial consortium. <i>Environmental Technology and Innovation</i> , 2021, 21, 101302.	6.1	9
44	General and Efficient Synthesis of Two-Dimensional Monolayer Mesoporous Materials with Diverse Framework Compositions. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 1222-1233.	8.0	9
45	One-dimensional nanochains consisting of magnetic core and mesoporous aluminosilicate for use as efficient nanocatalysts. <i>Nano Research</i> , 2021, 14, 4197-4203.	10.4	9
46	A Novel Route of Mixed Catalysis for Production of Fatty Acid Methyl Esters from Potential Seed Oil Sources. <i>Catalysts</i> , 2021, 11, 811.	3.5	9
47	Lyotropic $\hat{\gamma}$ -hairy $\hat{\gamma}$ ™ TiO ₂ nanorods. <i>Nanoscale Advances</i> , 2019, 1, 254-264.	4.6	8
48	Removal of Lead(II) from Synthetic Wastewater by Lavandula pubescens Decne Biosorbent: Insight into Composition $\hat{\gamma}$ “Adsorption Relationship. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 7450.	2.5	8
49	Instant Cyclohexene Epoxidation Over Ni-TUD-1 Under Ambient Conditions. <i>Catalysis Letters</i> , 2021, 151, 1612-1622.	2.6	8
50	Low temperature ionothermal synthesis of TiO ₂ nanomaterials for efficient photocatalytic H ₂ production, dye degradation and photoluminescence studies. <i>International Journal of Energy Research</i> , 2020, 44, 8362-8371.	4.5	8
51	Energy Distribution in Tin Halide Perovskite. <i>Solar Rrl</i> , 2022, 6, 2100825.	5.8	8
52	Poly(ethylene-co-vinylalcohol)/ Poly($\hat{\gamma}$ -valerolactone)/Aspirin Composite: Model for a New Drug-Carrier System. <i>Polymers</i> , 2019, 11, 439.	4.5	6
53	Catalytic Performance of SBA-15-Supported Poly (Styrenesulfonic Acid) in the Esterification of Acetic Acid with n-Heptanol. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 5835.	2.5	6
54	Solution-processable and photopolymerisable TiO ₂ nanorods as dielectric layers for thin film transistors. <i>RSC Advances</i> , 2020, 10, 25540-25546.	3.6	6

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55	Rapid Microwave Synthesis of $\text{I}^2\text{-SnWO}_4$ Nanoparticles: An Efficient Anode Material for Lithium Ion Batteries. <i>Crystals</i> , 2021, 11, 334.	2.2	6
56	Tamarindusindica Mediated Combustion Synthesis of BiOCl: Photocatalytic Degradation of Dyes and Synthesis of $\text{I}^2\text{-Enaminones}$. <i>Journal of Electronic Materials</i> , 2021, 50, 4650-4662.	2.2	6
57	The Role of Strontium in CeNiO ₃ Nano-Crystalline Perovskites for Greenhouse Gas Mitigation to Produce Syngas. <i>Molecules</i> , 2022, 27, 356.	3.8	6
58	Adsorption of Methylene Blue by Biosorption on Alkali-Treated Solanum incanum: Isotherms, Equilibrium and Mechanism. <i>Sustainability</i> , 2022, 14, 2644.	3.2	6
59	Synthesis of Novel Tetra(μ^3 -Methoxo) Bridged with [Cu(II)-O-Cd(II)] Double-Open-Cubane Cluster: XRD/HSA-Interactions, Spectral and Oxidizing Properties. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8787.	4.1	5
60	Instant and quantitative epoxidation of styrene under ambient conditions over a nickel(μ^2 -dibenzotetramethyltetraaza[14]annulene complex immobilized on amino-functionalized SBA-15. <i>RSC Advances</i> , 2020, 10, 35407-35418.	3.6	5
61	In Vitro Bioadsorption of Cd ²⁺ Ions: Adsorption Isotherms, Mechanism, and an Insight to Mycoremediation. <i>Processes</i> , 2020, 8, 1085.	2.8	5
62	Fabrication of visible-light-responsive TiO ₂ / μ^2 -Fe ₂ O ₃ -heterostructured composite for rapid photo-oxidation of organic pollutants in water. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 8906-8919.	2.2	5
63	Rhodium Nanoparticles Incorporated Mesoporous Silica as an Active Catalyst for Cyclohexene Hydrogenation under Ambient Conditions. <i>Catalysts</i> , 2020, 10, 925.	3.5	4
64	Exo \rightarrow Endo Isomerism, MEP/DFT, XRD/HSA-Interactions of 2,5-Dimethoxybenzaldehyde: Thermal, 1BNA-Docking, Optical, and TD-DFT Studies. <i>Molecules</i> , 2020, 25, 5970.	3.8	4
65	Design, XRD/HSA-interactions, spectral, thermal, Solvatochromism and DNA-binding of two [Cu(phen)(triene)]Br ₂ complexes: Experimental and DFT/TD-DFT investigations. <i>Journal of Molecular Structure</i> , 2021, 1231, 129983.	3.6	4
66	Production and Evaluation of Fractionated Tamarind Seed Oil Methyl Esters as a New Source of Biodiesel. <i>Energies</i> , 2021, 14, 7148.	3.1	4
67	Effect of terbium doping in bismuth ferrite nanoparticles for the degradation of organic pollutant under sunlight irradiation. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 9324-9333.	2.2	4
68	Photocatalytic degradation of anionic dye using well-crystalline SnWO ₄ polyoxometalate. <i>Physica Scripta</i> , 2022, 97, 085813.	2.5	4
69	High capacitive $\mu^3\text{-MoO}_3$ hexagonal rods and its applications towards lithium ion battery, humidity and nitrite sensing. <i>International Journal of Energy Research</i> , 2021, 45, 17315-17326.	4.5	3
70	Green Synthesis of NiO Nanoparticle Using Ziziphus Spina-Christi Leaves Extract for Photocatalytic Methylene Blue Dye Degradation. <i>Science of Advanced Materials</i> , 2021, 13, 1756-1763.	0.7	3
71	Micro-Plasma Assisted Synthesis of ZnO Nanosheets for the Efficient Removal of Cr ⁶⁺ from the Aqueous Solution. <i>Crystals</i> , 2021, 11, 2.	2.2	2
72	Structural, Morphological and Optical Behavior of Green Synthesized NiO Nanoparticle for Methylene Blue Photo-Degradation. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2021, 16, 1684-1689.	0.5	2

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73	Green photosensitisers for the degradation of selected pesticides of high risk in most susceptible food: A safer approach. PLoS ONE, 2021, 16, e0258864.	2.5	1
74	Effect of Preparation Method and Ni ²⁺ Substitution on the Structural, Thermal, and Optical Properties of Nanocrystalline Lanthanum Zirconate Pyrochlore. Crystals, 2021, 11, 1463.	2.2	1
75	Utilization of Greenhouse Gases for Syngas Production by Dry Reforming Process Using Reduced BaNiO ₃ Perovskite as a Catalyst. Sustainability, 2021, 13, 13855.	3.2	1
76	Novel transition metal complexes of 5-(2-phenyl-1H-benzo[d]imidazol-1-yl)quinolin-8-ol as active pharmacophore: Experimental and computational explorations. Chemical Data Collections, 2021, 36, 100777.	2.3	0
77	Glycine based auto-combustion synthesis of ZnO nanoparticles as electrode material for supercapacitor. Physica Scripta, 0, , .	2.5	0