

Sherif A Younis

List of Publications by Year in descending order

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75
papers

2,381
citations

186265

28
h-index

233421

45
g-index

76
all docs

76
docs citations

76
times ranked

1984
citing authors

#	ARTICLE	IF	CITATIONS
1	Multifunctional applications of biochar beyond carbon storage. <i>International Materials Reviews</i> , 2022, 67, 150-200.	19.3	245
2	Metal-organic framework as a photocatalyst: Progress in modulation strategies and environmental/energy applications. <i>Progress in Energy and Combustion Science</i> , 2020, 81, 100870.	31.2	156
3	Rare earth metal-organic frameworks (RE-MOFs): Synthesis, properties, and biomedical applications. <i>Coordination Chemistry Reviews</i> , 2021, 429, 213620.	18.8	117
4	Metal-organic frameworks for photocatalytic detoxification of chromium and uranium in water. <i>Coordination Chemistry Reviews</i> , 2021, 447, 214148.	18.8	81
5	Sustainable applications of rice feedstock in agro-environmental and construction sectors: A global perspective. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 153, 111791.	16.4	78
6	Recent advances in carbon nanotube sponge-based sorption technologies for mitigation of marine oil spills. <i>Journal of Colloid and Interface Science</i> , 2020, 570, 411-422.	9.4	69
7	Evidence for superiority of conventional adsorbents in the sorptive removal of gaseous benzene under real-world conditions: Test of activated carbon against novel metal-organic frameworks. <i>Journal of Cleaner Production</i> , 2019, 235, 1090-1102.	9.3	66
8	Designing AgFeO ₂ -graphene/Cu ₂ (BTC) ₃ MOF heterojunction photocatalysts for enhanced treatment of pharmaceutical wastewater under sunlight. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 401, 112746.	3.9	53
9	Batch bioethanol production via the biological and chemical saccharification of some Egyptian marine macroalgae. <i>Journal of Applied Microbiology</i> , 2018, 125, 422-440.	3.1	50
10	Photoelectrocatalysis as a high-efficiency platform for pulping wastewater treatment and energy production. <i>Chemical Engineering Journal</i> , 2021, 412, 128612.	12.7	49
11	Nanotechnology-based sorption and membrane technologies for the treatment of petroleum-based pollutants in natural ecosystems and wastewater streams. <i>Advances in Colloid and Interface Science</i> , 2020, 275, 102071.	14.7	47
12	A strategy for the efficient removal of chlorophenols in petrochemical wastewater by organophilic and aminated silica@alginate microbeads: Taguchi optimization and isotherm modeling based on partition coefficient. <i>Journal of Hazardous Materials</i> , 2020, 397, 122792.	12.4	47
13	An overview of methods for production and detection of silver nanoparticles, with emphasis on their fate and toxicological effects on human, soil, and aquatic environment. <i>Nanotechnology Reviews</i> , 2021, 10, 954-977.	5.8	46
14	Heterogeneous Photocatalysis Scalability for Environmental Remediation: Opportunities and Challenges. <i>Catalysts</i> , 2020, 10, 1109.	3.5	45
15	Novel mycosynthesis of cobalt oxide nanoparticles using <i>Aspergillus brasiliensis</i> ATCC 16404 optimization, characterization and antimicrobial activity. <i>Journal of Applied Microbiology</i> , 2020, 128, 438-457.	3.1	43
16	Advancements of nanotechnologies in crop promotion and soil fertility: Benefits, life cycle assessment, and legislation policies. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 152, 111686.	16.4	40
17	Physiochemical properties of <i>Trichoderma longibrachiatum</i> DSMZ 16517-synthesized silver nanoparticles for the mitigation of halotolerant sulphate-reducing bacteria. <i>Journal of Applied Microbiology</i> , 2019, 126, 138-154.	3.1	39
18	Use of rice straw-based biochar for batch sorption of barium/strontium from saline water: Protection against scale formation in petroleum/desalination industries. <i>Journal of Cleaner Production</i> , 2020, 250, 119442.	9.3	39

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19	The dynamic competition in adsorption between gaseous benzene and moisture on metal-organic frameworks across their varying concentration levels. <i>Chemical Engineering Journal</i> , 2021, 421, 127813.	12.7	37
20	Photocatalytic and biocidal activities of ZnTiO ₂ oxynitride heterojunction with MOF-5 and g-C ₃ N ₄ : A case study for textile wastewater treatment under direct sunlight. <i>Journal of Hazardous Materials</i> , 2021, 410, 124562.	12.4	36
21	Chemisorption of hydrogen sulfide by metal-organic frameworks and covalent-organic polymers based on experimental/theoretical evaluation. <i>Journal of Cleaner Production</i> , 2020, 250, 119486.	9.3	35
22	Adsorption of environmental contaminants on micro- and nano-scale plastic polymers and the influence of weathering processes on their adsorptive attributes. <i>Journal of Hazardous Materials</i> , 2022, 427, 127903.	12.4	35
23	Statistical modeling and optimization of phenol adsorption from water by modified Cu ₃ (BTC) ₂ : Kinetic, isotherm, and thermodynamic analysis. <i>Microporous and Mesoporous Materials</i> , 2017, 241, 210-217.	4.4	34
24	Metalloporphyrinic metal-organic frameworks: Controlled synthesis for catalytic applications in environmental and biological media. <i>Advances in Colloid and Interface Science</i> , 2020, 277, 102108.	14.7	34
25	Development of aminated poly(glycidyl methacrylate) nanosorbent by green gamma radiation for phenol and malathion contaminated wastewater treatment. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 2325-2336.	6.7	33
26	Radiation induced in-situ cationic polymerization of polystyrene organogel for selective absorption of chlorophenols from petrochemical wastewater. <i>Journal of Environmental Management</i> , 2018, 210, 307-315.	7.8	33
27	Enhanced removal of p-nitrophenol by γ -Ga ₂ O ₃ -TiO ₂ photocatalyst immobilized onto rice straw-based SiO ₂ via factorial optimization of the synergy between adsorption and photocatalysis. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104619.	6.7	33
28	Process optimization of biodiesel production via esterification of oleic acid using sulfonated hierarchical mesoporous ZSM-5 as an efficient heterogeneous catalyst. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105035.	6.7	33
29	Tailored functionalized polymer nanoparticles using gamma radiation for selected adsorption of barium and strontium in oilfield wastewater. <i>Arabian Journal of Chemistry</i> , 2020, 13, 3762-3774.	4.9	31
30	An efficient strategy for the enhancement of adsorptivity of microporous carbons against gaseous formaldehyde: Surface modification with aminosilane adducts. <i>Science of the Total Environment</i> , 2020, 743, 140761.	8.0	31
31	Anisotropic ZnO nanostructures and their nanocomposites as an advanced platform for photocatalytic remediation. <i>Journal of Hazardous Materials</i> , 2021, 415, 125651.	12.4	31
32	Construction of a new ternary γ -MoO ₃ /WO ₃ /CdS solar nanophotocatalyst towards clean water and hydrogen production from artificial wastewater using optimal design methodology. <i>RSC Advances</i> , 2017, 7, 4409-4421.	3.6	30
33	Green synthesis of fluorapatite from waste animal bones and the photo-catalytic degradation activity of a new ZnO/green biocatalyst nano-composite for removal of chlorophenols. <i>Journal of Water Process Engineering</i> , 2016, 12, 8-19.	5.6	27
34	Synthesis of urea-modified MnFe ₂ O ₄ for aromatic micro-pollutants adsorption from wastewater: Mechanism and modeling. <i>Clean Technologies and Environmental Policy</i> , 2017, 19, 527-540.	4.1	27
35	Preparation characterization and non-isothermal decomposition kinetics of different carbon nitride sheets. <i>Egyptian Journal of Petroleum</i> , 2020, 29, 21-29.	2.6	27
36	A strategy for the enhancement of trapping efficiency of gaseous benzene on activated carbon (AC) through modification of their surface functionalities. <i>Environmental Pollution</i> , 2021, 270, 116239.	7.5	27

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37	Synthesis and characterization of MFe ₂ O ₄ sulfur nanoadsorbents. <i>Journal of Sol-Gel Science and Technology</i> , 2013, 65, 269-276.	2.4	26
38	The interactive roles of space velocity and particle size in a microporous carbon bed system in controlling adsorptive removal of gaseous benzene under ambient conditions. <i>Chemical Engineering Journal</i> , 2020, 401, 126010.	12.7	26
39	The potential utility of HKUST-1 for adsorptive removal of benzene vapor from gaseous streams using a denuder versus a packed-bed adsorption system. <i>Journal of Cleaner Production</i> , 2020, 275, 122359.	9.3	25
40	Utilization of a pyrrole derivative based antimicrobial functionality impregnated onto CaO/g-C ₃ N ₄ for dyes adsorption. <i>RSC Advances</i> , 2016, 6, 89367-89379.	3.6	24
41	Potential application of MoO ₃ loaded SBA-15 photo-catalyst for removal of multiple organic pollutants from water environment. <i>Journal of Water Process Engineering</i> , 2017, 18, 102-112.	5.6	24
42	Application of Zr-Cluster-Based MOFs for the Adsorptive Removal of Aliphatic Aldehydes (C ₁ to C ₅) from an Industrial Solvent. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 44270-44281.	8.0	23
43	Zn ²⁺ -doped x-TiO ₂ /SiO ₂ tricomposites for enhancement the photo-catalytic degradation of phenol under UV irradiation. <i>Journal of Sol-Gel Science and Technology</i> , 2017, 83, 422-435.	2.4	20
44	The competing role of moisture in adsorption of gaseous benzene on microporous carbon. <i>Separation and Purification Technology</i> , 2021, 277, 119487.	7.9	18
45	Validation of two contrasting capturing mechanisms for gaseous formaldehyde between two different types of strong metal-organic framework adsorbents. <i>Journal of Hazardous Materials</i> , 2022, 424, 127459.	12.4	18
46	Modeling and Optimization of Oil Adsorption from Wastewater Using an Amorphous Carbon Thin Film Fabricated from Wood Sawdust Waste Modified with Palmitic Acid. <i>Environmental Processes</i> , 2017, 4, 147-168.	3.5	17
47	Preparation of solar-enhanced AlZnO@carbon nano-substrates for remediation of textile wastewaters. <i>Journal of Environmental Sciences</i> , 2020, 92, 52-68.	6.1	17
48	An efficient system for electro-Fenton oxidation of pesticide by a reduced graphene oxide-aminopyrazine@3DNI foam gas diffusion electrode. <i>Journal of Hazardous Materials</i> , 2020, 400, 123323.	12.4	16
49	Recent advances in photocatalytic reduction of CO ₂ by TiO ₂ and MOF-based nanocomposites impregnated with metal nanoparticles. <i>Materials Today Chemistry</i> , 2022, 24, 100870.	3.5	16
50	Colorimetric biosensing of organophosphate pesticides using enzymatic nanoreactor built on zeolitic imidazolate-8. <i>Microchemical Journal</i> , 2021, 166, 106242.	4.5	15
51	Potential applicability of Zn _{0.05} TiO _x Ny@MOF-5 nanocomposite for adsorption and electrochemical detection of Zn(II) in saline wastewater. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106186.	6.7	15
52	Evidence of the dominant role of particle size in controlling the dynamic adsorption breakthrough behavior of gaseous benzene in a microporous carbon bed system. <i>Chemical Engineering Journal</i> , 2022, 427, 130977.	12.7	15
53	Recent progress in bimetallic nanostructure impregnated metal-organic framework for photodegradation of organic pollutants. <i>Applied Materials Today</i> , 2021, 24, 101105.	4.3	14
54	Proof of concept for CUK family metal-organic frameworks as environmentally-friendly adsorbents for benzene vapor. <i>Environmental Pollution</i> , 2021, 285, 117491.	7.5	14

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55	Application of Response Surface Methodology to Enhance Phenol Removal from Refinery Wastewater by Microwave Process. <i>International Journal of Microwave Science and Technology</i> , 2014, 2014, 1-12.	0.6	13
56	Kinetic evaluation and modeling for batch degradation of 2-hydroxybiphenyl and 2,2-dihydroxybiphenyl by <i>Corynebacterium variabilis</i> Sh42. <i>Desalination and Water Treatment</i> , 2013, 51, 4719-4728.	1.0	11
57	The Biosorption of Phenol from Petroleum Refinery Wastewater Using Spent Waste Biomass. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2014, 36, 2566-2578.	2.3	10
58	One-pot three-component synthesis of α -amino nitriles using ZnO as a heterogeneous, reusable, and eco-friendly catalyst. <i>Journal of Cleaner Production</i> , 2019, 234, 329-339.	9.3	10
59	The control on adsorption kinetics and selectivity of formaldehyde in relation to different surface-modification approaches for microporous carbon bed systems. <i>Separation and Purification Technology</i> , 2022, 283, 120178.	7.9	10
60	Preparation of magnetic carbon nanotube nanocomposite for enhancing the separation of dissolved hydrocarbon from petroleum wastewater. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 2240-2250.	6.7	9
61	Statistical enhancement of lipase extracellular production by <i>Bacillus stratosphericus</i> PSP8 in a batch submerged fermentation process. <i>Journal of Applied Microbiology</i> , 2018, 125, 1076-1093.	3.1	9
62	Microwave Assisted production of hydrophilic carbon-based magnetic nanocomposites from saw-dust for elevating oil from oilfield waste water. <i>Journal of Cleaner Production</i> , 2020, 249, 119355.	9.3	9
63	Microwave-assisted synthesis of MnO ₂ nanosorbent for adsorptive removal of Cs(I) and Sr(II) from water solutions. <i>Chemosphere</i> , 2022, 303, 135088.	8.2	9
64	Kinetic, isotherm, and thermodynamic studies of polycyclic aromatic hydrocarbons biosorption from petroleum refinery wastewater using spent waste biomass. <i>Desalination and Water Treatment</i> , 0, , 1-11.	1.0	8
65	Synthesis of recyclable carbon/lignin biocomposite sorbent for in-situ uptake of BTX contaminants from wastewater. <i>Journal of Environmental Management</i> , 2019, 233, 459-470.	7.8	8
66	Nano-wastes and the Environment: Potential Challenges and Opportunities of Nano-waste Management Paradigm for Greener Nanotechnologies. , 2018, , 1-72.		7
67	Main and Interactive Effects of Polyaromatic Sulfur Heterocyclic Compounds on Growth and Biodegradation Efficiencies of <i>Bacillus sphaericus</i> HN1: Modeling and Statistical Analysis. <i>Petroleum Science and Technology</i> , 2015, 33, 1167-1181.	1.5	6
68	An upgraded electro-Fenton treatment of wastewater using nanoclay-embedded graphene composite prepared via exfoliation of pencil rods by submerged liquid plasma. <i>Journal of Hazardous Materials</i> , 2020, 397, 122788.	12.4	6
69	HKUST-1 infused woven cotton filter for enhanced adsorptive removal of toluene vapor from gaseous streams. <i>Separation and Purification Technology</i> , 2022, 299, 121743.	7.9	6
70	Optimization of a batch CaO-catalyzed transesterification of used domestic waste oil with methanol and elucidation of a mathematical correlation between biodiesel yield and percent conversion. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2017, 39, 1013-1028.	2.3	5
71	The use of nanophotocatalysts for the effective mitigation of polycyclic aromatic hydrocarbons in aqueous phase. <i>Journal of Cleaner Production</i> , 2022, 333, 130026.	9.3	5
72	Insights into the performance of the two contrasting dynamic adsorption platforms in the removal of gaseous benzene on microporous carbon materials. <i>Journal of Cleaner Production</i> , 2022, 364, 132520.	9.3	5

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73	Biokinetic aspects for biocatalytic remediation of xenobiotics polluted seawater. Journal of Applied Microbiology, 2020, 129, 319-334.	3.1	4
74	Nano-wastes and the Environment: Potential Challenges and Opportunities of Nano-waste Management Paradigm for Greener Nanotechnologies. , 2019, , 2063-2134.		1
75	Trends in advanced materials for sustainable environmental remediation. , 2022, , 1-29.		1