Hesham A F Hamad

List of Publications by Citations

48 papers	1,811 citations	25 h-index	42 g-index
53 ext. papers	2,303 ext. citations	5.2 avg, IF	5.66 L-index

#	Paper	IF	Citations
48	Potential of using green adsorbent of heavy metal removal from aqueous solutions: Adsorption kinetics, isotherm, thermodynamic, mechanism and economic analysis. *Ecological Engineering*, **2016**, 91, 317-332	3.9	395
47	Green synthesis of graphene from recycled PET bottle wastes for use in the adsorption of dyes in aqueous solution. *Ecotoxicology and Environmental Safety*, **2017**, 145, 57-68	7	110
46	Comparative performance of anodic oxidation and electrocoagulation as clean processes for electrocatalytic degradation of diazo dye Acid Brown 14 in aqueous medium. *Journal of Hazardous Materials*, **2017**, 335, 178-187	12.8	100
45	Management of agricultural waste for removal of heavy metals from aqueous solution: adsorption behaviors, adsorption mechanisms, environmental protection, and techno-economic analysis. *Environmental Science and Pollution Research*, **2017**, 24, 1397-1415	5.1	71
44	Electrospun cellulose acetate nanofiber incorporated with hydroxyapatite for removal of heavy metals. *International Journal of Biological Macromolecules*, **2020**, 151, 1299-1313	7.9	63
43	Electrocatalytic degradation and minimization of specific energy consumption of synthetic azo dye from wastewater by anodic oxidation process with an emphasis on enhancing economic efficiency and reaction mechanism. *Ecotoxicology and Environmental Safety*, **2018**, 148, 501-512	7	63
42	Synthesis and characterization of core□shell□shell magnetic (CoFe2O4□SiO2□TiO2) nanocomposites and TiO2 nanoparticles for the evaluation of photocatalytic activity under UV and visible irradiation. *New Journal of Chemistry*, **2015**, 39, 3116-3128	3.6	62
41	Photocatalytic parameters and kinetic study for degradation of dichlorophenol-indophenol (DCPIP) dye using highly active mesoporous TiO2 nanoparticles. *Journal of Environmental Sciences*, **2016**, 43, 26-39	6.4	58
40	Effect of superparamagnetic nanoparticles on the physicochemical properties of nano hydroxyapatite for groundwater treatment: adsorption mechanism of Fe(II) and Mn(II). *RSC Advances*, **2016**, 6, 82244-82259	3.7	56
39	Highly active and stable magnetically recyclable CuFe2O4 as a heterogenous catalyst for efficient conversion of waste frying oil to biodiesel. *Fuel*, **2020**, 268, 117297	7.1	55
38	Electrospun nanofibers hybrid composites membranes for highly efficient antibacterial activity. *Ecotoxicology and Environmental Safety*, **2018**, 162, 354-364	7	52
37	Nano activated carbon from industrial mine coal as adsorbents for removal of dye from simulated textile wastewater: operational parameters and mechanism study. *Journal of Materials Research and Technology*, **2019**, 8, 4477-4488	5.5	50
36	Synthesis and characterization of highly stable superparamagnetic CoFe2O4 nanoparticles as a catalyst for novel synthesis of thiazolo[4,5-b]quinolin-9-one derivatives in aqueous medium. *Journal of Molecular Catalysis A*, **2015**, 404-405, 148-155		47
35	Synthesis of TixOy nanocrystals in mild synthesis conditions for the degradation of pollutants under solar light. *Applied Catalysis B: Environmental*, **2019**, 241, 385-392	21.8	47
34	Fabrication and characterization of electrospun Fe3O4/o-MWCNTs/polyamide 6 hybrid nanofibrous membrane composite as an efficient and recoverable adsorbent for removal of Pb (II). *Microchemical Journal*, **2019**, 149, 103998	4.8	45
33	Microwave-Assisted Synthesis of Magnetic Hydroxyapatite for Removal of Heavy Metals from Groundwater. *Chemical Engineering and Technology*, **2018**, 41, 553-562	2	44
32	One-pot green synthesis of magnetic fullerene nanocomposite for adsorption characteristics. *Journal of Water Process Engineering*, **2020**, 34, 101047	6.7	41

31	New insights into the activity of green supported nanoscale zero-valent iron composites for enhanced acid blue-25 dye synergistic decolorization from aqueous medium. *Journal of Molecular Liquids*, **2019**, 294, 111628	6	40
30	Physicochemical properties of new cellulose-TiO2 composites for the removal of water pollutants: Developing specific interactions and performances by cellulose functionalization. *Journal of Environmental Chemical Engineering*, **2018**, 6, 5032-5041	6.8	40
29	Ciprofloxacin removal using magnetic fullerene nanocomposite obtained from sustainable PET bottle wastes: Adsorption process optimization, kinetics, isotherm, regeneration and recycling studies. *Chemosphere*, **2020**, 239, 124728	8.4	40
28	New insights into the anodic oxidation and electrocoagulation using a self-gas stirred reactor: A comparative study for synthetic C.I Reactive Violet 2 wastewater. *Journal of Cleaner Production*, **2017**, 167, 432-446	10.3	39
27	Influence of calcination temperatures on the formation of anatase TiO2 nano rods with a polyol-mediated solvothermal method. *RSC Advances*, **2016**, 6, 7310-7316	3.7	38
26	Optimizing the preparation parameters of mesoporous nanocrystalline titania and its photocatalytic activity in water: Physical properties and growth mechanisms. *Chemical Engineering Research and Design*, **2015**, 98, 390-398	5.5	30
25	New Activated Carbon from Mine Coal for Adsorption of Dye in Simulated Water or Multiple Heavy Metals in Real Wastewater. *Materials*, **2020**, 13,	3.5	27
24	Highly efficient photocatalytic performance of Cu2O@TiO2 nanocomposite: influence of various inorganic oxidants and inorganic anions. *Journal of Materials Research and Technology*, **2019**, 8, 5405-5414	5.5	26
23	Study on synthesis of superparamagnetic spinel cobalt ferrite nanoparticles as layered double hydroxides by co-precipitation method. *Russian Journal of General Chemistry*, **2014**, 84, 2031-2036	0.7	24
22	On the Interactions and Synergism between Phases of Carbon?Phosphorus?Titanium Composites Synthetized from Cellulose for the Removal of the Orange-G Dye. *Materials*, **2018**, 11,	3.5	20
21	Functionalized Cellulose for the Controlled Synthesis of Novel Carbon-Ti Nanocomposites: Physicochemical and Photocatalytic Properties. *Nanomaterials*, **2020**, 10,	5.4	17
20	Process intensification of the transesterification of palm oil to biodiesel in a batch agitated vessel provided with mesh screen extended baffles. *Energy*, **2018**, 158, 111-120	7.9	17
19	Unveiling the role of novel biogenic functionalized CuFe hybrid nanocomposites in boosting anticancer, antimicrobial and biosorption activities. *Scientific Reports*, **2021**, 11, 7790	4.9	11
18	Upgrading of agro-industrial green biomass residues from chocolate industry for adsorption process: diffusion and mechanistic insights. *Journal of Food Science and Technology*, **2021**, 58, 1081-1092	3.3	11
17	A novel one-pot facile economic approach for the mass synthesis of exfoliated multilayered nitrogen-doped graphene-like nanosheets: new insights into the mechanistic study. *Physical Chemistry Chemical Physics*, **2019**, 21, 13611-13622	3.6	9
16	Journey from ceramic waste to highly efficient toxic dye adsorption from aqueous solutions via one-pot synthesis of CaSO4 rod-shape with silica. *Journal of Materials Research and Technology*, **2020**, 9, 16051-16063	5.5	9
15	Study on synthesis of superparamagnetic spinel cobalt ferrite nanoparticles as layered double hydroxides by co-precipitation method. *Russian Journal of General Chemistry*, **2014**, 84, 2205-2210	0.7	9
14	Unveiling the exceptional synergism-induced design of Co-Mg-Al layered triple hydroxides (LTHs) for boosting catalytic activity toward the green synthesis of indol-3-yl derivatives under mild conditions. *Journal of Colloid and Interface Science*, **2021**, 599, 227-244	9.3	8

13	Modification of optical and electrical properties of nanocrystalline VO2□0.5 H2O/ZrV2O7: influence of Cs, Cr and Ga doping. *Journal of Materials Research and Technology*, **2019**, 8, 1212-1223	5.5	7
12	Synthesis and Characterization of Stabilized Tetragonal Nano Zirconia by Precipitation Method. *Journal of Nano Research*, **2019**, 56, 142-151	1	4
11	Cellulose□TiO2 composites for the removal of water pollutants **2020**, 329-358		4
10	Influence of calcination temperature on the physical properties of nano-titania prepared by sol-gel/hydrothermal method. *Russian Journal of Physical Chemistry A*, **2015**, 89, 1896-1906	0.7	4
9	A new platform for facile synthesis of hybrid TiO2 nanostructures by various functionalizations of cellulose to be used in highly-efficient photocatalysis. *Materials Letters*, **2020**, 274, 128016	3.3	3
8	Boosting the catalytic performance of manganese (III)-porphyrin complex MnTSPP for facile one-pot green synthesis of 1,4-dihydropyridine derivatives under mild conditions. *Applied Organometallic Chemistry*, **2021**, 35, e6238	3.1	3
7	A Promising Platform of Magnetic Nanofluid and Ultrasonic Treatment for Cancer Hyperthermia Therapy: In Vitro and in Vivo Study. *Ultrasound in Medicine and Biology*, **2021**, 47, 651-665	3.5	3
6	The superior photocatalytic performance and DFT insights of S-scheme CuO@TiO heterojunction composites for simultaneous degradation of organics.. *Scientific Reports*, **2022**, 12, 2217	4.9	2
5	Glucose-Derived N-Doped Graphitic Carbon: Facile One-Pot Graphitic Structure-Controlled Chemical Synthesis with Comprehensive Insight into the Controlling Mechanisms. *ChemistrySelect*, **2020**, 5, 14685-14702	1.8	1
4	Microwave-assisted synthesis of new Cs doped ZrV2O7 nanorods with remarkably improved visible-light-driven photocatalytic performance. *Materials Chemistry and Physics*, **2020**, 254, 123494	4.4	1
3	On the Behavior of Newly Synthesized Functionalized Imidazolium-Based Ionic Liquids for Highly Efficient Extraction and Separation of Pirimicarb from Orchard Real Wastewater. *Adsorption Science and Technology*, **2022**, 2022, 1-14	3.6	1
2	Controlled synthesis of graphene oxide/silica hybrid nanocomposites for removal of aromatic pollutants in water.. *Scientific Reports*, **2022**, 12, 7060	4.9	0
1	Changes in Fe2+/Fe3+ molar ratio for the formation of spinel CoFe2O4 layered double hydroxide nanoparticles. *Micro and Nano Letters*, **2019**, 14, 937-940	0.9	