MA Barakat

List of Publications by Citations

131 papers	8,347 citations	42 h-index	89 g-index
134 ext. papers	9,662 ext. citations	5.8 avg, IF	6.99 L-index

#	Paper	IF	Citations
131	New trends in removing heavy metals from industrial wastewater. *Arabian Journal of Chemistry*, **2011**, 4, 361-377	5.9	1762
130	Adsorptive removal of dyes from aqueous solution onto carbon nanotubes: a review. *Advances in Colloid and Interface Science*, **2013**, 193-194, 24-34	14.3	902
129	Catalytic pyrolysis of plastic waste: A review. *Chemical Engineering Research and Design*, **2016**, 102, 822-838	3.9	371
128	Remediation of wastewater using various nano-materials. *Arabian Journal of Chemistry*, **2019**, 12, 4897-4919	5.9	316
127	Photocatalytic degradation of 2-chlorophenol by Co-doped TiO2 nanoparticles. *Applied Catalysis B: Environmental*, **2005**, 57, 23-30	21.8	269
126	Polymer-enhanced ultrafiltration process for heavy metals removal from industrial wastewater. *Desalination*, **2010**, 256, 90-93	10.3	213
125	Effect of plastic waste types on pyrolysis liquid oil. *International Biodeterioration and Biodegradation*, **2017**, 119, 239-252	4.8	198
124	Plastic waste to liquid oil through catalytic pyrolysis using natural and synthetic zeolite catalysts. *Waste Management*, **2017**, 69, 66-78	8.6	143
123	Removal of toxic cyanide and Cu(II) Ions from water by illuminated TiO2 catalyst. *Applied Catalysis B: Environmental*, **2004**, 53, 13-20	21.8	126
122	Anion selective pTSA doped polyaniline@graphene oxide-multiwalled carbon nanotube composite for Cr(VI) and Congo red adsorption. *Journal of Colloid and Interface Science*, **2017**, 496, 407-415	9.3	121
121	Catalytic Pyrolysis of Plastic Waste: Moving Toward Pyrolysis Based Biorefineries. *Frontiers in Energy Research*, **2019**, 7,	3.8	117
120	Wastewater sludge stabilization using pre-treatment methods. *Chemical Engineering Research and Design*, **2016**, 102, 615-632	5.5	117
119	Recovery of platinum from spent catalyst. *Hydrometallurgy*, **2004**, 72, 179-184	4	116
118	Development of biochar as fuel and catalyst in energy recovery technologies. *Journal of Cleaner Production*, **2018**, 188, 477-488	10.3	106
117	Influence of temperature and reaction time on the conversion of polystyrene waste to pyrolysis liquid oil. *Waste Management*, **2016**, 58, 250-259	8.6	104
116	DBSA doped polyaniline/multi-walled carbon nanotubes composite for high efficiency removal of Cr(VI) from aqueous solution. *Chemical Engineering Journal*, **2013**, 228, 748-755	14.7	103
115	Hydrogen peroxide-assisted photocatalytic oxidation of phenolic compounds. *Applied Catalysis B: Environmental*, **2005**, 59, 99-104	21.8	93

114	Optimization of food waste compost with the use of biochar. *Journal of Environmental Management*, **2018**, 216, 70-81	7.9	89
113	Rice husk ash as a renewable source for the production of zeolite NaY and its characterization. *Arabian Journal of Chemistry*, **2015**, 8, 48-53	5.9	84
112	Cationic hydrogels for toxic arsenate removal from aqueous environment. *Journal of Environmental Management*, **2008**, 88, 955-61	7.9	84
111	Recovery and separation of palladium from spent catalyst. *Applied Catalysis A: General*, **2006**, 301, 182-186	5.1	84
110	Butterfly cluster like lamellar BiOBr/TiO nanocomposite for enhanced sunlight photocatalytic mineralization of aqueous ciprofloxacin. *Science of the Total Environment*, **2019**, 665, 668-677	10.2	77
109	Effect of zeolite catalysts on pyrolysis liquid oil. *International Biodeterioration and Biodegradation*, **2017**, 119, 162-175	4.8	76
108	EDTA functionalized silica for removal of Cu(II), Zn(II) and Ni(II) from aqueous solution. *Journal of Colloid and Interface Science*, **2013**, 408, 200-5	9.3	76
107	Adsorption behavior of copper and cyanide ions at TiO2-solution interface. *Journal of Colloid and Interface Science*, **2005**, 291, 345-52	9.3	76
106	Electrophoreted Zn□TiO2□nO nanocomposite coating films for photocatalytic degradation of 2-chlorophenol. *Applied Surface Science*, **2008**, 254, 4577-4583	6.7	74
105	Hybrid chitosan/polyaniline-polypyrrole biomaterial for enhanced adsorption and antimicrobial activity. *Journal of Colloid and Interface Science*, **2017**, 490, 488-496	9.3	71
104	Remediation of Cu(II), Ni(II), and Cr(III) ions from simulated wastewater by dendrimer/titania composites. *Journal of Environmental Management*, **2013**, 117, 50-7	7.9	69
103	Effect of cobalt doping on the phase transformation of TiO2 nanoparticles. *Journal of Nanoscience and Nanotechnology*, **2005**, 5, 759-65	1.3	67
102	Utilization of aluminum sludge and aluminum slag (dross) for the manufacture of calcium aluminate cement. *Ceramics International*, **2009**, 35, 3381-3388	5.1	63
101	Enhancement of photocatalytic activity of zinc/cobalt spinel oxides by doping with ZrO2 for visible light photocatalytic degradation of 2-chlorophenol in wastewater. *Journal of Photochemistry and Photobiology A: Chemistry*, **2014**, 284, 1-7	4.7	62
100	Untapped conversion of plastic waste char into carbon-metal LDOs for the adsorption of Congo red. *Journal of Colloid and Interface Science*, **2018**, 511, 402-410	9.3	61
99	Synthesis and characterization of a starch□lOOH□eS2 nanocomposite for the adsorption of congo red dye from aqueous solution. *RSC Advances*, **2014**, 4, 38334-38340	3.7	61
98	Oxidized g-CN/polyaniline nanofiber composite for the selective removal of hexavalent chromium. *Scientific Reports*, **2017**, 7, 12850	4.9	60
97	Fe□/SiO□/TiO□nanoparticles for photocatalytic degradation of 2-chlorophenol in simulated wastewater. *Environmental Science and Pollution Research*, **2015**, 22, 3149-57	5.1	56

96	Recovery of lead, tin and indium from alloy wire scrap. *Hydrometallurgy*, **1998**, 49, 63-73	4	55
95	Zero valent Ag deposited TiO2 for the efficient photocatalysis of methylene blue under UV-C light irradiation. *Colloids and Interface Science Communications*, **2015**, 5, 1-4	5.4	53
94	Decolourization of hazardous brilliant green from aqueous solution using binary oxidized cactus fruit peel. *Chemical Engineering Journal*, **2013**, 226, 377-383	14.7	52
93	Optimizing the process of food waste compost and valorizing its applications: A case study of Saudi Arabia. *Journal of Cleaner Production*, **2018**, 176, 426-438	10.3	50
92	Adsorption of Brilliant Green by Surfactant Doped Polyaniline/MWCNTs Composite: Evaluation of the Kinetic, Thermodynamic, and Isotherm. *Industrial & Engineering Chemistry Research*, **2014**, 53, 7167-7175	3.9	48
91	Synthesis and Characterization of Ag-Ag2O/TiO2@polypyrrole Heterojunction for Enhanced Photocatalytic Degradation of Methylene Blue. *Catalysts*, **2016**, 6, 76	4	47
90	Fabrication of ZnO-ZnS@polyaniline nanohybrid for enhanced photocatalytic degradation of 2-chlorophenol and microbial contaminants in wastewater. *International Biodeterioration and Biodegradation*, **2017**, 119, 66-77	4.8	43
89	Iron chelation by polyamidoamine dendrimers: a second-order kinetic model for metal-amine complexation. *Journal of Physical Chemistry B*, **2011**, 115, 13534-40	3.4	40
88	Effect of advanced catalysts on tire waste pyrolysis oil. *Chemical Engineering Research and Design*, **2018**, 116, 542-552	5.5	39
87	Pt nanoparticles/TiO2 for photocatalytic degradation of phenols in wastewater. *Environmental Technology (United Kingdom)*, **2014**, 35, 137-44	2.6	39
86	Facile route to a conducting ternary polyaniline@TiO2/GN nanocomposite for environmentally benign applications: photocatalytic degradation of pollutants and biological activity. *RSC Advances*, **2016**, 6, 111308-111317	3.7	37
85	l-Methionine modified Dowex-50 ion-exchanger of reduced size for the separation and removal of Cu(II) and Ni(II) from aqueous solution. *Chemical Engineering Journal*, **2013**, 218, 32-38	14.7	37
84	Adsorption and photodegradation of Procion yellow H-EXL dye in textile wastewater over TiO2 suspension. *Journal of Hydro-Environment Research*, **2011**, 5, 137-142	2.3	36
83	Visible light photocatalysis with nitrogen-doped titanium dioxide nanoparticles prepared by plasma assisted chemical vapor deposition. *Journal of Vacuum Science & Technology B*, **2006**, 24, 1210		36
82	ZnO-nanoparticles thin films synthesized by RF sputtering for photocatalytic degradation of 2-chlorophenol in synthetic wastewater. *Journal of Industrial and Engineering Chemistry*, **2015**, 23, 134-139	6.3	35
81	Simple route for the generation of differently functionalized PVC@graphene–polyaniline fiber bundles for the removal of Congo red from wastewater. *RSC Advances*, **2015**, 5, 61486-61494	3.7	35
80	Synthesis and characterization of porous magnetic silica composite for the removal of heavy metals from aqueous solution. *Journal of Industrial and Engineering Chemistry*, **2015**, 23, 93-99	6.3	34
79	Construction of a ternary g-CN/TiO@polyaniline nanocomposite for the enhanced photocatalytic activity under solar light. *Scientific Reports*, **2019**, 9, 12091	4.9	34

78	Immobilization of Ni and Cd in Soil by Biochar Derived From Unfertilized Dates. *Water, Air, and Soil Pollution*, **2014**, 225, 1	2.6	34
77	Visible light driven photocatalytic degradation of organic pollutants in wastewater and real sludge using ZnO□ZnS/Ag2O□Ag2S nanocomposite. *Journal of the Taiwan Institute of Chemical Engineers*, **2017**, 77, 227-235	5.3	33
76	Adsorption and anion exchange insight of indigo carmine onto CuAl-LDH/SWCNTs nanocomposite: kinetic, thermodynamic and isotherm analysis.. *RSC Advances*, **2018**, 9, 560-568	3.7	32
75	Synthesis and characterization of carbon/AlOOH composite for adsorption of chromium(VI) from synthetic wastewater. *Journal of Industrial and Engineering Chemistry*, **2014**, 20, 4202-4206	6.3	32
74	Ag/ZnO nanoparticles thin films as visible light photocatalysts. *RSC Advances*, **2014**, 4, 56892-56899	3.7	30
73	InVO4/TiO2 composite for visible-light photocatalytic degradation of 2-chlorophenol in wastewater. *Environmental Technology (United Kingdom)*, **2014**, 35, 2153-9	2.6	28
72	A polyaniline@MoS2-based organic□inorganic nanohybrid for the removal of Congo red: adsorption kinetic, thermodynamic and isotherm studies. *New Journal of Chemistry*, **2018**, 42, 18802-18809	3.6	28
71	Titania-supported silver-based bimetallic nanoparticles as photocatalysts. *Environmental Science and Pollution Research*, **2013**, 20, 3751-9	5.1	27
70	A recyclable multifunctional graphene oxide/SiO2@polyaniline microspheres composite for Cu(II) and Cr(VI) decontamination from wastewater. *Journal of Cleaner Production*, **2020**, 268, 122290	10.3	27
69	Modified Adsorbents for Removal of Heavy Metals from Aqueous Environment: A Review. *Earth Systems and Environment*, **2019**, 3, 83-93	7.5	27
68	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	3.6	26
67	Design of ternary Ni(OH)2/graphene oxide/TiO2 nanocomposite for enhanced photocatalytic degradation of organic, microbial contaminants, and aerobic digestion of dairy wastewater. *Journal of Cleaner Production*, **2020**, 258, 120588	10.3	26
66	Synthesis and characterization of Fe□Al binary oxyhydroxides/ MWCNTs nanocomposite for the removal of Cr(VI) from aqueous solution. *Journal of the Taiwan Institute of Chemical Engineers*, **2016**, 63, 303-311	5.3	25
65	Photocatalytic degradation of cefoxitin sodium antibiotic using novel BN/CdAl2O4 composite. *Journal of Cleaner Production*, **2020**, 246, 119076	10.3	24
64	Stabilized fabrication of anatase-TiO/FeS (pyrite) semiconductor composite nanocrystals for enhanced solar light-mediated photocatalytic degradation of methylene blue.. *RSC Advances*, **2018**, 8, 11935-11945	3.7	23
63	CuO sputtered flexible polyaniline@graphene thin films:A recyclable photocatalyst with enhanced electrical properties. *Composites Part B: Engineering*, **2019**, 175, 107092	10	23
62	Methanol oxidation over silica-supported Pt and Ag nanoparticles: Toward selective production of hydrogen and carbon dioxide. *Catalysis Communications*, **2012**, 28, 128-133	3.2	23
61	The Energy and Value-Added Products from Pyrolysis of Waste Plastics. *Environmental Footprints and Eco-design of Products and Processes*, **2016**, 333-355	0.9	22

60	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	4.3	22
59	Synthesis of PVC/CNT nanocomposite fibers using a simple deposition technique for the application of Alizarin Red S (ARS) removal. *RSC Advances*, **2015**, 5, 14393-14399	3.7	21
58	Facile strategy for the synthesis of non-covalently bonded and para-toluene sulfonic acid-functionalized fibrous polyaniline@graphene/PVC nanocomposite for the removal of Congo red. *New Journal of Chemistry*, **2015**, 39, 7004-7011	3.6	21
57	Synthesis of CrO/CN composite for enhancement of visible light photocatalysis and anaerobic digestion of wastewater sludge. *Journal of Environmental Management*, **2018**, 212, 65-76	7.9	21
56	Synthesis of Graphene Oxide/Silica/Carbon Nanotubes Composite for Removal of Dyes from Wastewater. *Earth Systems and Environment*, **2019**, 3, 651-659	7.5	21
55	Adsorptive removal of antibiotics from water over natural and modified adsorbents. *Environmental Science and Pollution Research*, **2019**, 26, 34775-34788	5.1	21
54	Fabrication of Novel Al(OH)/CuMnAl-Layered Double Hydroxide for Detoxification of Organic Contaminants from Aqueous Solution. *ACS Omega*, **2019**, 4, 18268-18278	3.9	20
53	Synthesis and characterization of S-doped-rGO/ZnS nanocomposite for the photocatalytic degradation of 2-chlorophenol and disinfection of real dairy wastewater. *Journal of Photochemistry and Photobiology A: Chemistry*, **2019**, 377, 190-197	4.7	20
52	Adsorption modeling and mechanistic insight of hazardous chromium on para toluene sulfonic acid immobilized-polyaniline@CNTs nanocomposites. *Journal of Saudi Chemical Society*, **2019**, 23, 188-197	4.3	20
51	Hydrothermal synthesis of structurally variable binary CuAl, MnAl and ternary CuMnAl hydroxides for oxytetracycline antibiotic adsorption. *Journal of Environmental Chemical Engineering*, **2020**, 8, 103535	6.8	19
50	Untapped potential of zeolites in optimization of food waste composting. *Journal of Environmental Management*, **2019**, 241, 99-112	7.9	18
49	Visible light photocatalytic disintegration of waste activated sludge for enhancing biogas production. *Journal of Environmental Management*, **2018**, 216, 120-127	7.9	18
48	Verification of Organic Capping Agent Removal from Supported Colloidal Synthesized Pt Nanoparticle Catalysts. *Topics in Catalysis*, **2013**, 56, 1835-1842	2.3	17
47	Equilibrium and kinetics of Pb2+ adsorption from aqueous solution by dendrimer/titania composites. *Desalination and Water Treatment*, **2014**, 52, 5869-5875		16
46	Carbon nitride/titania nanotubes composite for photocatalytic degradation of organics in water and sludge: Pre-treatment of sludge, anaerobic digestion and biogas production. *Journal of Environmental Management*, **2018**, 223, 495-502	7.9	16
45	Removal of tannic acid from aqueous solution by magnetic carbohydrate natural polymer. *Journal of Industrial and Engineering Chemistry*, **2014**, 20, 2992-2997	6.3	15
44	Energy saving and pollution control for short rotary furnace in secondary lead smelters. *Renewable Energy*, **2001**, 23, 561-577	8.1	15
43	Synthesis and characterization of CuFe2O4/NiMgAl-LDH composite for the efficient removal of oxytetracycline antibiotic. *Journal of Saudi Chemical Society*, **2020**, 24, 139-150	4.3	15

42	Experimental and Theoretical Studies of Methyl Orange Uptake by Mn-Rich Synthetic Mica: Insights into Manganese Role in Adsorption and Selectivity. *Nanomaterials*, **2020**, 10,	5.4	15
41	Activated carbon from residual oil fly ash for heavy metals removal from aqueous solution. *Desalination and Water Treatment*, **2015**, 1-10		14
40	Novel hybrid multifunctional composite of chitosan and altered basalt for barium adsorption: Experimental and theoretical studies. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2020**, 593, 124613	5.1	13
39	Valorization of biogas production through disintegration of waste activated sludge using visible light ZnO-ZnS/Ag2O-Ag2S photocatalyst. *Chemical Engineering Research and Design*, **2018**, 119, 330-339	5.5	13
38	Utilization of anion exchange resin Spectra/Gel for separation of arsenic from water. *Arabian Journal of Chemistry*, **2013**, 6, 307-311	5.9	13
37	Recovery of metal values from zinc solder dross. *Waste Management*, **1999**, 19, 503-507	8.6	13
36	Fabrication of SiO2/CuFe2O4/polyaniline composite: A highly efficient adsorbent for heavy metals removal from aquatic environment. *Arabian Journal of Chemistry*, **2020**, 13, 7533-7543	5.9	13
35	Synthesis of CuO□O/TiO2 visible light photocatalyst for 2-chlorophenol degradation, pretreatment of dairy wastewater and aerobic digestion. *Applied Nanoscience (Switzerland)*, **2019**, 9, 579-591	3.3	13
34	Novel AlO/GO/halloysite nanotube composite for sequestration of anionic and cationic dyes.. *RSC Advances*, **2019**, 9, 13916-13926	3.7	12
33	Role of N doping on the structural, optical and photocatalytic properties of the silver deposited ZnO thin films. *Journal of the Taiwan Institute of Chemical Engineers*, **2016**, 69, 131-138	5.3	12
32	Zeolite Y from rice husk ash encapsulated with Ag-TiO2: characterization and applications for photocatalytic degradation catalysts. *Desalination and Water Treatment*, **2013**, 51, 7562-7569		12
31	The pyrometallurgical processing of galvanizing zinc ash and flue dust. *Jom*, **2003**, 55, 26-29	2.1	12
30	Metal ion remediation by polyamidoamine dendrimers: a comparison of metal ion, oxidation state, and titania immobilization. *International Journal of Environmental Science and Technology*, **2014**, 11, 1497-1502	2.3	11
29	Hydrometallurgical Recovery of Zinc from Fine Blend of Galvanization Processes. *Separation Science and Technology*, **2006**, 41, 1757-1772	2.5	11
28	Regeneration of spent alkali from aluminum washing. *Separation and Purification Technology*, **2005**, 46, 214-218	8.3	11
27	Exfoliated Clay Decorated with Magnetic Iron Nanoparticles for Crystal Violet Adsorption: Modeling and Physicochemical Interpretation. *Nanomaterials*, **2020**, 10,	5.4	11
26	Simple and sustainable route for large scale fabrication of few layered molybdenum disulfide sheets towards superior adsorption of the hazardous organic pollutant. *Journal of Materials Science: Materials in Electronics*, **2018**, 29, 7792-7800	2.1	10
25	Ag Sm 2 O 3 nanocomposite for environmental remediation of cyanide from aqueous solution. *Journal of the Taiwan Institute of Chemical Engineers*, **2016**, 65, 134-139	5.3	10

24	A facile synthesis of bismuth oxychloride-graphene oxide composite for visible light photocatalysis of aqueous diclofenac sodium. *Scientific Reports*, **2020**, 10, 14191	4.9	10
23	Recovering metal values hydrometallurgically from spent dry battery cells. *Jom*, **1999**, 51, 41-43	2.1	8
22	Enhancement of Photocatalytic Activity of ZnO/SiO2by Nanosized Pt for Photocatalytic Degradation of Phenol in Wastewater. *International Journal of Photoenergy*, **2012**, 2012, 1-8	2.1	7
21	Utilization of spent copper-pickle liquor for recovery of metal values. *Renewable Energy*, **2001**, 23, 651-662	2.1	7
20	Removing Al and regenerating caustic soda from the spent washing liquor of Al etching. *Jom*, **2005**, 57, 34-38	2.1	6
19	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. *Journal of Materials Science*, **2021**, 56, 7434-7450	4.3	6
18	UV-irradiated carbon nanotubes synthesized from fly ash for adsorption of congo red dyes in aqueous solution. *Desalination and Water Treatment*, **2016**, 57, 21534-21544		5
17	Kinetic parameters associated with self-heating of New Zealand coals under adiabatic conditions. *Mineralogical Magazine*, **2003**, 67, 665-670	1.7	5
16	Sulfonated polyether sulfone reinforced multiwall carbon nanotubes composite for the removal of lead in wastewater. *Applied Nanoscience (Switzerland)*, **2019**, 9, 1695-1705	3.3	5
15	Zinc and cadmium accumulation by Lupinus uncinatus Schldl. grown in nutrient solution. *International Journal of Environmental Science and Technology*, **2015**, 12, 307-316	3.3	4
14	Arsenic bioaccumulation in arsenic-contaminated soil: a review. *Chemical Papers*, **2020**, 74, 2743-2757	1.9	4
13	S-rGO/ZnS nanocomposite-mediated photocatalytic pretreatment of dairy wastewater to enhance aerobic digestion. *Korean Journal of Chemical Engineering*, **2019**, 36, 1281-1290	2.8	4
12	Photocatalytic Activity Enhancement of Titanium Dioxide Nanoparticles. *Springer Briefs in Molecular Science*, **2016**,	0.6	3
11	Experimental design and data on the adsorption and photocatalytic properties of boron nitride/cadmium aluminate composite for Cr(VI) and cefoxitin sodium antibiotic. *Data in Brief*, **2020**, 28, 105051	1.2	3
10	Photocatalytic Activity Enhancement of Titanium Dioxide Nanoparticles. *Springer Briefs in Molecular Science*, **2016**, 1-29	0.6	2
9	Immobilization of Silver-based Bimetallic Nanoparticles on Titania-Support for Photocatalysis. *Journal of Physics: Conference Series*, **2013**, 431, 012020	0.3	1
8	Recovery of Metal Values from Car-Radiator Scrap. *Separation Science and Technology*, **2000**, 35, 2359-2374	2.5	1
7	Active nickel catalyst from metallurgical waste. *Hydrometallurgy*, **1993**, 32, 99-109	4	1

List of Publications

6	Adsorption and photocatalytic scavenging of 2-chlorophenol using carbon nitride-titania nanotubes based nanocomposite: Experimental data, kinetics and mechanism. *Data in Brief*, **2021**, 34, 106664	1.2	1
5	Sustainable visible light photocatalytic scavenging of the noxious organic pollutant using recyclable and reusable polyaniline coupled WO3/WS2 nanohybrid. *Journal of Cleaner Production*, **2022**, 330, 129942	10.3	0
4	Immobilized Microbial Biosorbents for Wastewater Remediation **2017**, 101-128		
3	Pt-Doped TiO2 Nanoparticles for Photocatalytic Degradation of Phenols in Wastewater **2013**, 309-322		
2	Recovery of Zinc from Zinc Ash and Flue Dust by Pyrometallurgical Processing **2013**, 211-223		
1	Pt-doped TiO2 nanoparticles for photocatalytic degradation of phenols in wastewater **2013**, 309-322		