

# Mohamed Gar Alalm

## List of Publications by Year in descending order

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Version: 2024-02-01

41  
papers

2,066  
citations

218677

26  
h-index

345221

36  
g-index

41  
all docs

41  
docs citations

41  
times ranked

1864  
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparison of solar TiO <sub>2</sub> photocatalysis and solar photo-Fenton for treatment of pesticides industry wastewater: Operational conditions, kinetics, and costs. <i>Journal of Water Process Engineering</i> , 2015, 8, 55-63.	5.6	165
2	Degradation of four pharmaceuticals by solar photo-Fenton process: Kinetics and costs estimation. <i>Journal of Environmental Chemical Engineering</i> , 2015, 3, 46-51.	6.7	157
3	Enhancement of photocatalytic activity of TiO <sub>2</sub> by immobilization on activated carbon for degradation of pharmaceuticals. <i>Journal of Environmental Chemical Engineering</i> , 2016, 4, 1929-1937.	6.7	141
4	Environmental and cost life cycle assessment of different alternatives for improvement of wastewater treatment plants in developing countries. <i>Science of the Total Environment</i> , 2019, 660, 57-68.	8.0	111
5	Improved WO <sub>3</sub> photocatalytic efficiency using ZrO <sub>2</sub> and Ru for the degradation of carbofuran and ampicillin. <i>Journal of Hazardous Materials</i> , 2016, 302, 225-231.	12.4	106
6	Modeling the degradation and disinfection of water pollutants by photocatalysts and composites: A critical review. <i>Science of the Total Environment</i> , 2020, 698, 134197.	8.0	105
7	Revisiting the MIL-101 metal-organic framework: design, synthesis, modifications, advances, and recent applications. <i>Journal of Materials Chemistry A</i> , 2021, 9, 22159-22217.	10.3	100
8	CNTs/MOF-808 painted plates for extended treatment of pharmaceutical and agrochemical wastewaters in a novel photocatalytic reactor. <i>Chemical Engineering Journal</i> , 2021, 406, 127152.	12.7	78
9	Artificial intelligence, regression model, and cost estimation for removal of chlorothalonil pesticide by activated carbon prepared from Acuarina charcoal. <i>Sustainable Environment Research</i> , 2018, 28, 101-110.	4.2	67
10	Effective photocatalytic degradation of sulfamethazine by CNTs/LaVO <sub>4</sub> in suspension and dip coating modes. <i>Separation and Purification Technology</i> , 2020, 235, 116138.	7.9	67
11	Modeling and optimization of heterogeneous Fenton-like and photo-Fenton processes using reusable Fe <sub>3</sub> O <sub>4</sub> -MWCNTs. <i>Chemical Engineering Research and Design</i> , 2019, 128, 273-283.	5.6	66
12	Innovative photocatalytic reactor for the degradation of chlorpyrifos using a coated composite of ZrV <sub>2</sub> O <sub>7</sub> and graphene nano-platelets. <i>Chemical Engineering Journal</i> , 2020, 395, 124974.	12.7	66
13	MIL-53(Al)/ZnO coated plates with high photocatalytic activity for extended degradation of trimethoprim via novel photocatalytic reactor. <i>Separation and Purification Technology</i> , 2020, 249, 117173.	7.9	61
14	Immobilization of S-TiO <sub>2</sub> on reusable aluminum plates by polysiloxane for photocatalytic degradation of 2,4-dichlorophenol in water. <i>Journal of Water Process Engineering</i> , 2018, 26, 329-335.	5.6	60
15	Optimization and modeling of electro-Fenton process for treatment of phenolic wastewater using nickel and sacrificial stainless steel anodes. <i>Journal of Water Process Engineering</i> , 2018, 22, 155-162.	5.6	54
16	Solar photocatalytic degradation of phenol by TiO <sub>2</sub> /AC prepared by temperature impregnation method. <i>Desalination and Water Treatment</i> , 2016, 57, 835-844.	1.0	50
17	Solar photo-oxidation of recalcitrant industrial wastewater: a review. <i>Environmental Chemistry Letters</i> , 2022, 20, 1839-1862.	16.2	49
18	A novel photocatalytic reactor for the extended reuse of W-TiO <sub>2</sub> in the degradation of sulfamethazine. <i>Chemosphere</i> , 2020, 257, 127270.	8.2	48

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19	Optimization of electrochemical activation of persulfate by BDD electrodes for rapid removal of sulfamethazine. <i>Chemosphere</i> , 2022, 286, 131579.	8.2	44
20	Photocatalytic degradation of trimethoprim using S-TiO <sub>2</sub> and Ru/WO <sub>3</sub> /ZrO <sub>2</sub> immobilized on reusable fixed plates. <i>Journal of Water Process Engineering</i> , 2020, 33, 101023.	5.6	42
21	Toward Scaling-Up Photocatalytic Process for Multiphase Environmental Applications. <i>Catalysts</i> , 2021, 11, 562.	3.5	42
22	Investigation of optimum conditions and costs estimation for degradation of phenol by solar photo-Fenton process. <i>Applied Water Science</i> , 2017, 7, 375-382.	5.6	37
23	Recent developments in recalcitrant organic pollutants degradation using immobilized photocatalysts. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	2.3	34
24	Utilization of iron sludge resulted from electro-coagulation in heterogeneous photo-Fenton process. <i>Water Practice and Technology</i> , 2020, 15, 1228-1237.	2.0	31
25	Application of magnetic multi-wall carbon nanotube composite into fermentative treatment process of ultrasonicated waste activated sludge. <i>Bioresource Technology</i> , 2020, 306, 123186.	9.6	29
26	Visible-light-driven photocatalytic disinfection of raw surface waters (300–5000 CFU/mL) using reusable coated Ru/WO <sub>3</sub> /ZrO <sub>2</sub> . <i>Journal of Hazardous Materials</i> , 2021, 402, 123514.	12.4	29
27	Optimization and mechanism insights into the sulfamethazine degradation by bimetallic ZVI/Cu nanoparticles coupled with H <sub>2</sub> O <sub>2</sub> . <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104341.	6.7	27
28	Doping of Ni in MIL-125(Ti) for enhanced photocatalytic degradation of carbofuran: Reusability of coated plates and effect of different water matrices. <i>Journal of Water Process Engineering</i> , 2021, 44, 102449.	5.6	27
29	Application of electro-Fenton process for treatment of water contaminated with benzene, toluene, and p-xylene (BTX) using affordable electrodes. <i>Journal of Water Process Engineering</i> , 2019, 31, 100837.	5.6	26
30	Comparative life cycle assessment of five chemical methods for removal of phenol and its transformation products. <i>Journal of Cleaner Production</i> , 2021, 291, 125923.	9.3	26
31	Assessment of a novel spiral hydraulic flocculation/sedimentation system by CFD simulation, fuzzy inference system, and response surface methodology. <i>Separation and Purification Technology</i> , 2016, 169, 137-150.	7.9	22
32	Paperboard mill wastewater treatment via combined dark and LED-mediated fermentation in the absence of external chemical addition. <i>Bioresource Technology</i> , 2020, 295, 122312.	9.6	22
33	Emerging investigator series: microplastic sources, fate, toxicity, detection, and interactions with micropollutants in aquatic ecosystems – a review of reviews. <i>Environmental Sciences: Processes and Impacts</i> , 2022, 24, 172-195.	3.5	22
34	Modeling and Optimization of Photocatalytic Degradation of Methylene Blue Using Lanthanum Vanadate. <i>Materials Science Forum</i> , 0, 1008, 97-103.	0.3	12
35	Optimization of catalytic wet peroxide oxidation of carbofuran by Ti-LaFeO <sub>3</sub> dual photocatalyst. <i>Environmental Technology and Innovation</i> , 2021, 23, 101778.	6.1	12
36	Photocatalytic degradation of NO <sub>x</sub> and ethanol in the gas phase by spray dried Ce-TiO <sub>2</sub> . <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106813.	6.7	9

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37	ICT based Smart Management Solution to Realize Water and Energy Savings through Energy Efficiency Measures in Water Distribution Systems. , 2018, , .		8
38	A divided flow aerobic-anoxic baffled reactor for simultaneous nitrification-denitrification of domestic wastewater. Science of the Total Environment, 2022, 833, 155247.	8.0	6
39	Improving the ZnO-photocatalytic degradation of humic acid using powdered residuals from water purification plant. Water Practice and Technology, 0, , .	2.0	4
40	Application of CNTs/LaVO <sub>4</sub> on photocatalytic degradation of methylene blue in different contact modes. , 2020, , .		3
41	Effective photocatalytic disinfection of drinking water using TiO <sub>2</sub> and WO <sub>3</sub> coated on fixed plates. , 2020, , .		1