

# Zakaria Anfar

## List of Publications by Year in descending order

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Version: 2024-02-01

46  
papers

1,788  
citations

236925

25  
h-index

276875

41  
g-index

47  
all docs

47  
docs citations

47  
times ranked

1542  
citing authors

#	ARTICLE	IF	CITATIONS
1	Emerging Chemical Functionalization of g-C <sub>3</sub> N <sub>4</sub> : Covalent/Noncovalent Modifications and Applications. ACS Nano, 2020, 14, 12390-12469.	14.6	258
2	Cationic dyes adsorption onto high surface area almond shell <sup>TM</sup> activated carbon: Kinetics, equilibrium isotherms and surface statistical modeling. Materials Today Chemistry, 2018, 8, 121-132.	3.5	141
3	Acridine orange adsorption by zinc oxide/almond shell activated carbon composite: Operational factors, mechanism and performance optimization using central composite design and surface modeling. Journal of Environmental Management, 2018, 206, 383-397.	7.8	115
4	Recent trends on numerical investigations of response surface methodology for pollutants adsorption onto activated carbon materials: A review. Critical Reviews in Environmental Science and Technology, 2020, 50, 1043-1084.	12.8	109
5	Porous carbon by microwave assisted pyrolysis: An effective and low-cost adsorbent for sulfamethoxazole adsorption and optimization using response surface methodology. Journal of Cleaner Production, 2018, 202, 571-581.	9.3	108
6	Treated digested residue during anaerobic co-digestion of Agri-food organic waste: Methylene blue adsorption, mechanism and CCD-RSM design. Journal of Environmental Chemical Engineering, 2017, 5, 5857-5867.	6.7	63
7	Engineering of new hydrogel beads based conducting polymers: Metal-free catalysis for highly organic pollutants degradation. Applied Catalysis B: Environmental, 2021, 286, 119948.	20.2	56
8	Well-designed WO <sub>3</sub> /Activated carbon composite for Rhodamine B Removal: Synthesis, characterization, and modeling using response surface methodology. Fullerenes Nanotubes and Carbon Nanostructures, 2018, 26, 389-397.	2.1	53
9	Selected pharmaceuticals removal using algae derived porous carbon: experimental, modeling and DFT theoretical insights. RSC Advances, 2019, 9, 9792-9808.	3.6	48
10	New functionalization approach synthesis of Sulfur doped, Nitrogen doped and Co-doped porous carbon: Superior metal-free Carbocatalyst for the catalytic oxidation of aqueous organics pollutants. Chemical Engineering Journal, 2021, 405, 126660.	12.7	47
11	High extent mass recovery of alginate hydrogel beads network based on immobilized bio-sourced porous carbon@Fe <sub>3</sub> O <sub>4</sub> -NPs for organic pollutants uptake. Chemosphere, 2019, 236, 124351.	8.2	43
12	Kinetics, equilibrium, statistical surface modeling and cost analysis of paraquat removal from aqueous solution using carbonated jujube seed. RSC Advances, 2019, 9, 1084-1094.	3.6	43
13	Adsorption kinetics and surface modeling of aqueous methylene blue onto activated carbonaceous wood sawdust. Fullerenes Nanotubes and Carbon Nanostructures, 2018, 26, 433-442.	2.1	42
14	Carbon microspheres derived from walnut shell: Rapid and remarkable uptake of heavy metal ions, molecular computational study and surface modeling. Chemosphere, 2019, 231, 140-150.	8.2	42
15	Engineering of amine-based binding chemistry on functionalized graphene oxide/alginate hybrids for simultaneous and efficient removal of trace heavy metals: Towards drinking water. Journal of Colloid and Interface Science, 2021, 589, 511-524.	9.4	41
16	Microwave assisted green synthesis of Fe <sub>2</sub> O <sub>3</sub> /biochar for ultrasonic removal of nonsteroidal anti-inflammatory pharmaceuticals. RSC Advances, 2020, 10, 11371-11380.	3.6	37
17	Adsorptive Removal of Methylene Blue and Crystal Violet onto Micro-Mesoporous Zr <sub>3</sub> O/Activated Carbon Composite: A Joint Experimental and Statistical Modeling Considerations. Journal of Chemistry, 2018, 2018, 1-14.	1.9	36
18	Reusable bentonite clay: modelling and optimization of hazardous lead and p-nitrophenol adsorption using a response surface methodology approach. RSC Advances, 2019, 9, 5756-5769.	3.6	35

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19	Photo/Electrocatalytic Properties of Nanocrystalline ZnO and La <sup>3+</sup> -Doped ZnO: Combined DFT Fundamental Semiconducting Properties and Experimental Study. <i>ChemistrySelect</i> , 2018, 3, 7778-7791.	1.5	34
20	Electrosynthesis of zinc phosphate-polypyrrole coatings for improved corrosion resistance of steel. <i>Surfaces and Interfaces</i> , 2019, 15, 224-231.	3.0	34
21	Apatitic tricalcium phosphate powder: High sorption capacity of hexavalent chromium removal. <i>Surfaces and Interfaces</i> , 2018, 13, 139-147.	3.0	31
22	Combined Methane Energy Recovery and Toxic Dye Removal by Porous Carbon Derived from Anaerobically Modified Digestate. <i>ACS Omega</i> , 2019, 4, 9434-9445.	3.5	31
23	Preparation and Characterization of Porous Carbon@ZnO NPs for Organic Compounds Removal: Classical Adsorption Versus Ultrasound Assisted Adsorption. <i>ChemistrySelect</i> , 2019, 4, 4981-4994.	1.5	30
24	Synergistic effect of g-C <sub>3</sub> N <sub>4</sub> nanosheets/Ag <sub>3</sub> PO <sub>4</sub> microcubes as efficient n-p-type heterostructure based photoanode for photoelectrocatalytic dye degradation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021, 409, 113127.	3.9	29
25	Conjugated polymers templated carbonization to design N, S co-doped finely tunable carbon for enhanced synergistic catalysis. <i>Applied Catalysis B: Environmental</i> , 2022, 300, 120732.	20.2	29
26	Synthesis of sustainable mesoporous treated fish waste as adsorbent for copper removal. <i>Groundwater for Sustainable Development</i> , 2019, 8, 1-9.	4.6	22
27	Removal of reactive red-198 dye using chitosan as an adsorbent: optimization by Central composite design coupled with response surface methodology. <i>Toxin Reviews</i> , 2021, 40, 225-237.	3.4	22
28	Removal of heavy metals and organic pollutants by a sand rich in iron oxide. <i>Euro-Mediterranean Journal for Environmental Integration</i> , 2018, 3, 1.	1.3	20
29	New amino group functionalized porous carbon for strong chelation ability towards toxic heavy metals. <i>RSC Advances</i> , 2020, 10, 31087-31100.	3.6	20
30	Nitrogen doped graphitic porous carbon from almond shells as an efficient persulfate activator for organic compound degradation. <i>New Journal of Chemistry</i> , 2020, 44, 9391-9401.	2.8	17
31	Hematite-titaniferous sand as a new low-cost adsorbent for orthophosphates removal: Adsorption, mechanism and Process Capability study. <i>Environmental Technology and Innovation</i> , 2019, 13, 153-165.	6.1	16
32	Synergistic effect for efficient catalytic persulfate activation in conducting polymers-hematite sand composites: Enhancement of chemical stability. <i>Applied Catalysis A: General</i> , 2021, 623, 118246.	4.3	16
33	Barium Hydrogen Phosphate Electrodes for High Electrocatalytic and Photoelectrocatalytic Degradation of Rhodamine B in Neutral Medium: Optimization by Response Surface Methodology. <i>Electrocatalysis</i> , 2020, 11, 642-654.	3.0	15
34	MoS <sub>2</sub> nanosheets/silver nanoparticles anchored onto textile fabric as a synergistic p-nitrophenol hydrogenation. <i>Environmental Science and Pollution Research</i> , 2021, 28, 64674-64686.	5.3	13
35	Ultrasound-assisted electro-oxidation of Methylene blue dye using new Zn <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> based electrode prepared by electro-deposition. <i>Materials Today: Proceedings</i> , 2020, 22, 32-34.	1.8	12
36	Factorial experimental design to enhance methane production of dairy wastes co-digestion. <i>Sustainable Environment Research</i> , 2018, 28, 389-395.	4.2	11

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37	Polyaniline coated hematite sand supported on graphene oxide (HS@PANI@GO) as a new magnetic material for advanced catalytic oxidation based on sulfate radicals: optimization using response surface methodology. <i>Journal of Chemical Technology and Biotechnology</i> , 2019, 94, 2609-2620.	3.2	11
38	Synthesis and Characterization of Chitosan/Fluorapatite Composites for the Removal of Cr (VI) from Aqueous Solutions and Optimized Parameters. <i>Water, Air, and Soil Pollution</i> , 2020, 231, 1.	2.4	11
39	New insights into N, S doped carbon from conjugated polymers for efficient persulfate activation: Role of hydrogel beads in enhancement of stability. <i>Chemical Engineering Journal</i> , 2022, 442, 136055.	12.7	11
40	High thiabendazole fungicide uptake using <i>Cellana tramoserica</i> shells modified by copper: characterization, adsorption mechanism, and optimization using CCD-RSM approach. <i>Environmental Science and Pollution Research</i> , 2022, 29, 86020-86035.	5.3	10
41	Engineering of H-Bonding Interactions in PVA/g-C <sub>3</sub> N <sub>4</sub> Hybrids for Enhanced Structural, Thermal, and Mechanical Properties: Toward Water-Responsive Shape Memory Nanocomposites. <i>Advanced Materials Interfaces</i> , 2022, 9, .	3.7	10
42	Self-Supporting g-C <sub>3</sub> N <sub>4</sub> Nanosheets/Ag Nanoparticles Embedded onto Polyester Fabric as "Dip-Catalyst" for Synergic 4-Nitrophenol Hydrogenation. <i>Catalysts</i> , 2021, 11, 1533.	3.5	7
43	Core-shell architecture based on bio-sourced porous carbon: the shape formation mechanism at the solid/liquid interface layer. <i>RSC Advances</i> , 2019, 9, 25544-25553.	3.6	4
44	Core-shell particles based on porous carbon@Fe <sub>3</sub> O <sub>4</sub> for efficient removal of dyes from textile effluents. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 827, 012006.	0.6	2
45	Methanisation: A promising green technology to manage organic wastes in the Moroccan dairy industry. <i>Materials Today: Proceedings</i> , 2020, 22, 57-60.	1.8	1
46	Cover Image, Volume 94, Issue 8. <i>Journal of Chemical Technology and Biotechnology</i> , 2019, 94, i.	3.2	0