

Mahmoud Reza Rahimi

List of Publications by Year in descending order

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41
papers

1,814
citations

279487

23
h-index

301761

39
g-index

42
all docs

42
docs citations

42
times ranked

2181
citing authors

#	ARTICLE	IF	CITATIONS
1	Sonochemical-assisted synthesis of CuO/Cu ₂ O/Cu nanoparticles as efficient photocatalyst for simultaneous degradation of pollutant dyes in rotating packed bed reactor: LED illumination and central composite design optimization. <i>Ultrasonics Sonochemistry</i> , 2018, 40, 601-610.	3.8	202
2	Ultrasonic enhancement of the simultaneous removal of quaternary toxic organic dyes by CuO nanoparticles loaded on activated carbon: Central composite design, kinetic and isotherm study. <i>Ultrasonics Sonochemistry</i> , 2016, 31, 546-557.	3.8	149
3	Photocatalytic degradation of binary mixture of toxic dyes by HKUST-1 MOF and HKUST-1-SBA-15 in a rotating packed bed reactor under blue LED illumination: central composite design optimization. <i>RSC Advances</i> , 2016, 6, 17204-17214.	1.7	140
4	Sonophotocatalytic degradation of trypan blue and vesuvine dyes in the presence of blue light active photocatalyst of Ag ₃ PO ₄ /Bi ₂ S ₃ -HKUST-1-MOF: Central composite optimization and synergistic effect study. <i>Ultrasonics Sonochemistry</i> , 2016, 32, 387-397.	3.8	136
5	BiPO ₄ /Bi ₂ S ₃ -HKUST-1-MOF as a novel blue light-driven photocatalyst for simultaneous degradation of toluidine blue and auramine-O dyes in a new rotating packed bed reactor: optimization and comparison to a conventional reactor. <i>RSC Advances</i> , 2016, 6, 63667-63680.	1.7	103
6	Application of least squares support vector regression and linear multiple regression for modeling removal of methyl orange onto tin oxide nanoparticles loaded on activated carbon and activated carbon prepared from Pistacia atlantica wood. <i>Journal of Colloid and Interface Science</i> , 2016, 461, 425-434.	5.0	99
7	Ag ₃ PO ₄ /AgBr/Ag-HKUST-1-MOF composites as novel blue LED light active photocatalyst for enhanced degradation of ternary mixture of dyes in a rotating packed bed reactor. <i>Chemical Engineering and Processing: Process Intensification</i> , 2017, 114, 24-38.	1.8	94
8	Modeling and optimization of simultaneous removal of ternary dyes onto copper sulfide nanoparticles loaded on activated carbon using second-derivative spectrophotometry. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 65, 212-224.	2.7	91
9	Removal of methyl orange by copper sulfide nanoparticles loaded activated carbon: Kinetic and isotherm investigation. <i>Journal of Molecular Liquids</i> , 2016, 219, 299-305.	2.3	75
10	Correlation of viscosity in nanofluids using genetic algorithm-neural network (GA-NN). <i>Heat and Mass Transfer</i> , 2011, 47, 1417-1425.	1.2	66
11	HKUST-1-MOF/BiVO ₄ hybrid as a new sonophotocatalyst for simultaneous degradation of disulfine blue and rose bengal dyes: optimization and statistical modelling. <i>RSC Advances</i> , 2016, 6, 61516-61527.	1.7	66
12	Intensification of abamectin pesticide degradation using the combination of ultrasonic cavitation and visible-light driven photocatalytic process: Synergistic effect and optimization study. <i>Ultrasonics Sonochemistry</i> , 2017, 35, 449-457.	3.8	58
13	Fixed-bed column performances of azure-II and auramine-O adsorption by Pinus eldarica stalks activated carbon and its composite with zno nanoparticles: Optimization by response surface methodology based on central composite design. <i>Journal of Colloid and Interface Science</i> , 2017, 507, 172-189.	5.0	53
14	CO ₂ capture by amine-based aqueous solution containing atorvastatin functionalized mesocellular silica foam in a counter-current rotating packed bed: Central composite design modeling. <i>Chemical Engineering Research and Design</i> , 2018, 129, 64-74.	2.7	50
15	One step integration of plasmonic Ag ₂ CrO ₄ /Ag/AgCl into HKUST-1-MOF as novel visible-light driven photocatalyst for highly efficient degradation of mixture dyes pollutants: Its photocatalytic mechanism and modeling. <i>Polyhedron</i> , 2019, 166, 217-225.	1.0	47
16	ZnO nanoparticles loaded different mesh size of porous activated carbon prepared from Pinus eldarica and its effects on simultaneous removal of dyes: Multivariate optimization. <i>Chemical Engineering Research and Design</i> , 2017, 125, 408-421.	2.7	46
17	Experimental Investigations on the Viscosity of Magnetic Nanofluids under the Influence of Temperature, Volume Fractions of Nanoparticles and External Magnetic Field. <i>Journal of Applied Fluid Mechanics</i> , 2016, 9, 693-697.	0.4	46
18	Mixing and segregation of solid particles in a conical spouted bed: Effect of particle size and density. <i>Particuology</i> , 2017, 32, 132-140.	2.0	41

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19	A rapid and efficient sonophotocatalytic process for degradation of pollutants: Statistical modeling and kinetics study. <i>Journal of Molecular Liquids</i> , 2018, 261, 291-302.	2.3	29
20	Efficiencies of Sieve Tray Distillation Columns by CFD Simulation. <i>Chemical Engineering and Technology</i> , 2006, 29, 326-335.	0.9	28
21	Simultaneous extraction and preconcentration of Cu ²⁺ , Ni ²⁺ and Zn ²⁺ ions using Ag nanoparticle-loaded activated carbon: Response surface methodology. <i>Advanced Powder Technology</i> , 2016, 27, 426-435.	2.0	23
22	Insight into the experimental and modeling study of process intensification for post-combustion CO ₂ capture by rotating packed bed. <i>Journal of Cleaner Production</i> , 2019, 211, 953-961.	4.6	23
23	Magnetic nanoparticles-embedded nitrogen-doped carbon nanotube/porous carbon hybrid derived from a metal-organic framework as a highly efficient adsorbent for selective removal of Pb(II) ions from aqueous solution. <i>Journal of Molecular Liquids</i> , 2020, 318, 113987.	2.3	23
24	CFD study of hydrodynamics behavior of a vibrating fluidized bed using kinetic-frictional stress model of granular flow. <i>Korean Journal of Chemical Engineering</i> , 2013, 30, 761-770.	1.2	17
25	Spinning disc photoreactor based visible-light-driven Ag/Ag ₂ O/TiO ₂ heterojunction photocatalyst film toward the degradation of amoxicillin. <i>Journal of Environmental Management</i> , 2022, 303, 114216.	3.8	16
26	Visible-light-driven photocatalytic degradation of fenpyroximate in rotating packed bed reactor using Fe ₃ O ₄ @PbS@Ni ₂ P magnetic nanocomposite photocatalyst: Response surface modelling and optimization. <i>Applied Organometallic Chemistry</i> , 2018, 32, e4513.	1.7	13
27	Electrospinning coating of nanoporous anodic alumina for controlling the drug release: Drug release study and modeling. <i>Journal of Drug Delivery Science and Technology</i> , 2019, 54, 101247.	1.4	13
28	Experimental design for the optimization of paraquat removal from aqueous media using a fixed-bed column packed with Pinus Eldarica stalks activated carbon. <i>Chemosphere</i> , 2022, 291, 132670.	4.2	12
29	Experimental study and modeling of in vitro agrochemicals release from nanoporous anodic alumina. <i>Chemical Papers</i> , 2020, 74, 1997-2009.	1.0	10
30	An Expert Model for Estimation of Distillation Sieve Tray Efficiency Based on Artificial Neural Network Approach. <i>Journal of Applied Sciences</i> , 2010, 10, 1076-1082.	0.1	8
31	Characteristics of Gas-Liquid Contact on Cross-Current Trays. <i>Separation Science and Technology</i> , 2014, 49, 2772-2782.	1.3	7
32	An Experimental Study of Different Drying Methods on the Quality and Quantity Essential Oil of <i>Myrtus communis</i> L. leaves. <i>Journal of Essential Oil-bearing Plants: JEOP</i> , 2015, 18, 1395-1405.	0.7	7
33	Sonophotocatalytic treatment of diazinon using visible light-driven Ce:Cu _{1,4} BDOAH ₂ photocatalyst in a batch-mode process: Response surface methodology and optimization. <i>Applied Organometallic Chemistry</i> , 2018, 32, e3962.	1.7	7
34	Prediction of carbon dioxide diffusivity in biodegradable polymers using diffusion neural network. <i>Heat and Mass Transfer</i> , 2012, 48, 1357-1365.	1.2	5
35	CFD Simulation of Hydraulics of Sieve Trays with Gas Mal-Distribution. <i>Chemical Product and Process Modeling</i> , 2010, 5, .	0.5	2
36	CFD Multifluid Simulation of Spouted Beds with and without Internal Draft Tubes. <i>Chemical Product and Process Modeling</i> , 2011, 6, .	0.5	2

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37	A Combined Computational Fluid Dynamics and Artificial Neural Networks Model for Distillation Point Efficiency. Chemical Product and Process Modeling, 2012, 7, .	0.5	2
38	Synthesis and characterization of SnO ₂ /(NH ₄) ₂ SnCl ₆ nanocomposites loaded on activated carbon and its application for adsorption of methylene Blue and Orange G. Applied Organometallic Chemistry, 2018, 32, e3903.	1.7	1
39	New materials and equipment for photocatalytic degradation processes. Interface Science and Technology, 2021, 32, 673-723.	1.6	1
40	Energy and exergy analysis of oil-field produced water treatment process by using a closed-loop spray dryer. , 0, 195, 96-107.		1
41	CFD-PBM MODELING OF VERTICAL BUBBLY FLOWS. , 2009, , .		0