Natan Padoin

List of Publications by Year in descending order

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58 papers	900 citations	567281 15 h-index	526287 27 g-index
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58 all docs	58 docs citations	58 times ranked	892 citing authors

#	Article	IF	CITATIONS
1	A critical review on microplastics, interaction with organic and inorganic pollutants, impacts and effectiveness of advanced oxidation processes applied for their removal from aqueous matrices. Chemical Engineering Journal, 2021, 424, 130282.	12.7	106
2	Mechanical, Thermal and Antimicrobial Properties of Chitosan-Based-Nanocomposite with Potential Applications for Food Packaging. Journal of Polymers and the Environment, 2020, 28, 1216-1236.	5.0	69
3	Lanthanum doped titania decorated with silver plasmonic nanoparticles with enhanced photocatalytic activity under UV-visible light. Applied Surface Science, 2018, 441, 1057-1071.	6.1	63
4	Green synthesis of zirconia nanoparticles based on Euclea natalensis plant extract: Optimization of reaction conditions and evaluation of adsorptive properties. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 583, 123915.	4.7	51
5	Computational fluid dynamics (CFD), artificial neural network (ANN) and genetic algorithm (GA) as a hybrid method for the analysis and optimization of micro-photocatalytic reactors: NOx abatement as a case study. Chemical Engineering Journal, 2022, 431, 133771.	12.7	47
6	An explicit correlation for optimal TiO2 film thickness in immobilized photocatalytic reaction systems. Chemical Engineering Journal, 2017, 310, 381-388.	12.7	46
7	Heat and mass transfer modeling for multicomponent multiphase flow with CFD. International Journal of Heat and Mass Transfer, 2014, 73, 239-249.	4.8	32
8	Gas bubbles have controversial effects on Taylor flow electrochemistry. Chemical Engineering Journal, 2021, 406, 126811.	12.7	29
9	Intensification of photocatalytic pollutant abatement in microchannel reactor using TiO ₂ and TiO ₂ â€graphene. AICHE Journal, 2016, 62, 2794-2802.	3.6	28
10	Humic acids adsorption and decomposition on Mn2O3 and α-Al2O3 nanoparticles in aqueous suspensions in the presence of ozone. Journal of Environmental Chemical Engineering, 2020, 8, 102780.	6.7	22
11	CFD + DoE optimization of a flat plate photocatalytic reactor applied to NOx abatement. Chemical Engineering and Processing: Process Intensification, 2020, 154, 107998.	3.6	22
12	Are carbon dots effective for ion sensing and antiviral applications? A state-of-the-art description from synthesis methods to cost evaluation. Journal of Materials Research and Technology, 2021, 12, 688-716.	5.8	22
13	Photocatalytic NOx abatement: Mathematical modeling, CFD validation and reactor analysis. Journal of Hazardous Materials, 2019, 372, 145-153.	12.4	21
14	Polymeric Blends of Carboxymethyl Cellulose and Sodium Alginate Containing Functionalized Carbon Dots Result in Stable and Efficient Fluorescent Films for Silver and Iron (III) Sensing. Journal of Environmental Chemical Engineering, 2021, 9, 105728.	6.7	18
15	CFD analysis of a luminescent solar concentrator-based photomicroreactor (LSC-PM) with feedforward control applied to the synthesis of chemicals under fluctuating light intensity. Chemical Engineering Research and Design, 2020, 153, 626-634.	5.6	16
16	An Overview of Photoreactors and Computational Modeling for the Intensification of Photocatalytic Processes in the Gas-Phase: State-of-Art. Journal of Environmental Chemical Engineering, 2021, 9, 105068.	6.7	16
17	Modeling ketoprofen release from PHB/chitosan composite microparticles. Polymer Bulletin, 2016, 73, 1515-1529.	3.3	15
18	Influence of acoustic waves on the solids dispersion in a gas-solid CFB riser: Numerical analysis. Powder Technology, 2020, 359, 292-304.	4.2	14

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19	Mass transfer modeling and simulation of a transient homogeneous bubbly flow in a bubble column. Chemical Engineering Science, 2020, 218, 115531.	3.8	13
20	Novel carbon dots for zinc sensing from Campomanesia phaea. Materials Letters, 2021, 283, 128813.	2.6	13
21	Green Synthesis of Nano Hydroxyapatite: morphology variation and its effect on cytotoxicity against fibroblast. Materials Letters, 2021, 284, 129013.	2.6	13
22	Synthesis of geranyl acetate by esterification of geraniol with acetic anhydride through heterogeneous catalysis using ion exchange resin. Chemical Engineering Research and Design, 2021, 168, 156-168.	5.6	13
23	Drinking water decontamination by biological denitrification using fresh bamboo as inoculum source. Bioprocess and Biosystems Engineering, 2014, 37, 2009-2017.	3.4	12
24	Cross diffusion effects in the interfacial mass and heat transfer of multicomponent droplets. International Journal of Heat and Mass Transfer, 2015, 85, 830-840.	4.8	12
25	Numerical simulation of isothermal gasâ`'liquid flow patterns in microchannels with varying wettability. Chemical Engineering Research and Design, 2016, 109, 698-706.	5.6	11
26	Stability of immobilized Rhizomucor miehei lipase for the synthesis of pentyl octanoate in a continuous packed bed bioreactor. Brazilian Journal of Chemical Engineering, 2014, 31, 633-641.	1.3	10
27	A Novel Application of Bentonite Modified with Copper Ions in the Tetracycline Adsorption: an experimental design study. Materials Letters, 2021, 291, 129552.	2.6	10
28	Influence of ultrasonic waves on the gas-solid flow and the solids dispersion in a CFB riser: Numerical and experimental study. Powder Technology, 2021, 389, 430-449.	4.2	10
29	Radiation field modeling of the NETmix milli-photocatalytic reactor: Effect of LEDs position over the reactor window. Chemical Engineering Journal, 2022, 429, 131670.	12.7	10
30	Influence of different parameters on the tube-to-bed heat transfer coefficient in a gas-solid fluidized bed heat exchanger. Chemical Engineering and Processing: Process Intensification, 2020, 147, 107693.	3.6	9
31	Ultra-High-Molecular-Weight polyethylene-based nanocomposite for removal of tetracycline in aqueous systems. Journal of Environmental Chemical Engineering, 2020, 8, 103630.	6.7	9
32	Sonoelectrochemistry: Ultrasound-assisted Organic Electrosynthesis. ACS Sustainable Chemistry and Engineering, 2021, 9, 9590-9603.	6.7	9
33	Immobilisation of phosphonium-based ionic liquid in polysulfone capsules for the removal of phenolic compounds, with an emphasis on 2,4-dichlorophenol, in aqueous solution. Journal of Environmental Management, 2021, 291, 112670.	7.8	9
34	Green synthesis of manganese based nanoparticles mediated by Eucalyptus robusta and Corymbia citriodora for agricultural applications. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 636, 128180.	4.7	9
35	Novel porous geopolymeric formulation as green material applied to the recovery of contaminated effluent aiming environmental protection. Journal of Cleaner Production, 2019, 231, 395-405.	9.3	8
36	A novel ultrahigh-molecular-weight polyethylene-based nanocomposite for contaminants adsorption in aqueous systems. Materials Letters, 2019, 240, 197-200.	2.6	8

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37	Eco-friendly ceramic tiles: development based on technical and market demands. Journal of Materials Research and Technology, 2021, 11, 121-134.	5.8	8
38	On the performance of liquid-liquid Taylor flow electrochemistry in a microreactor – A CFD study. Chemical Engineering Journal, 2022, 427, 131443.	12.7	8
39	CFD and radiation field modeling of the NETmix milli-photocatalytic reactor for n-decane oxidation at gas phase: Effect of LEDs number and arrangement. Chemical Engineering Journal, 2022, 444, 136577.	12.7	8
40	Synthesis of aluminum hydroxide nanoparticles from the residue of aluminum anodization for application in polymer materials as antiflame agents. Journal of Materials Research and Technology, 2020, 9, 8937-8952.	5.8	7
41	Evaluation of resistances to fluid flow in fibrous ceramic medium. Applied Mathematical Modelling, 2015, 39, 7197-7210.	4.2	6
42	Lanthanides Effects on TiO2 Photocatalysts. , 0, , .		5
43	Lumped analysis criteria for heat transfer in a diluted co – current moving bed heat exchanger with isothermal walls. Powder Technology, 2020, 361, 1038-1059.	4.2	5
44	Propranolol hydrochloride degradation using La@TiO2 functionalized with CMCD. Journal of Rare Earths, 2022, 40, 579-585.	4.8	5
45	Microstructural characteristics of geopolymer materials with twenty eight days of curing and after eight years stored at room temperature. Journal of Cleaner Production, 2021, 278, 123437.	9.3	4
46	CFD analysis of a H2O2/UVC water treatment process in the annular FluHelik reactor. Environmental Science and Pollution Research, 2021, 28, 41224-41232.	5.3	4
47	RHEOLOGICAL BEHAVIOR OF A SILVER AQUEOUS NANOFLUID STABILIZED WITH AMINOSILANE-BASED SURFACTANT UNDER CONFINED FLOW. Brazilian Journal of Chemical Engineering, 2019, 36, 229-237.	1.3	3
48	Biomorphic microchanneled electrodes for enhanced water desalination through capacitive deionization. Water Science and Technology: Water Supply, 2019, 19, 1221-1228.	2.1	3
49	CO2 adsorption in a zeolite-based bench scale moving bed prototype: Experimental and theoretical investigation. Chemical Engineering Research and Design, 2021, 171, 225-236.	5.6	3
50	Neryl acetate synthesis from nerol esterification with acetic anhydride by heterogeneous catalysis using ion exchange resin. Journal of Industrial and Engineering Chemistry, 2022, 105, 121-131.	5.8	2
51	An investigation of scale effect and applicability of compact light sources in microchannel reactors applied to pollutant abatement. Environmental Science and Pollution Research, 2021, 28, 22957-22968.	5.3	1
52	CFD MODELING OF STEAM CONDENSATION IN INDUSTRIAL PIPES. , 0, , .		1
53	Modeling and Simulation of Reaction Environment in Photoredox Catalysis: A Critical Review. Frontiers in Chemical Engineering, 2022, 3, .	2.7	1
54	Nanosilica:Polycaprolactone ratio and heat treatment modify the wettability of nanosilica/polycaprolactone coatings for application in aqueous systems. Surfaces and Interfaces, 2022, 31, 101997.	3.0	1

#	Article	IF	CITATIONS
55	Computational Modeling of Isothermal Flow Patterns: Effect of Surface Wettability at Different Scales. Anais Do Congresso Ibero-Latino-Americano De MÃ ©todos Computacionais Em Engenharia, 0, , .	0.0	O
56	CARACTERÃSTICAS MORFOLÓGICAS DE MATERIAIS GEOPOLIMÉRICOS APÓS A IMOBILIZAÇÃO DE RESÃE CONTAMINADOS COM METAIS PESADOS. , 0, , .	uos	0
57	EFEITO DO ULTRASSOM SOBRE O ESCOAMENTO GÃ 6 -SÃ"LIDO NA REGIÃ f O DE ENTRADA DE UM RISER DE CFE 0 , , .		O
58	COMPUTATIONAL SIMULATION OF ABDOMINAL AORTIC ANEURISM AND ITS ASSESSMENT TO MEDICAL TREATMENT. , 0, , .		O