

Natan Padoin

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

900
citations

567281

15
h-index

526287

27
g-index

58
all docs

58
docs citations

58
times ranked

892
citing authors

#	ARTICLE	IF	CITATIONS
1	Propranolol hydrochloride degradation using La@TiO ₂ functionalized with CMCD. <i>Journal of Rare Earths</i> , 2022, 40, 579-585.	4.8	5
2	Neryl acetate synthesis from nerol esterification with acetic anhydride by heterogeneous catalysis using ion exchange resin. <i>Journal of Industrial and Engineering Chemistry</i> , 2022, 105, 121-131.	5.8	2
3	Radiation field modeling of the NETmix milli-photocatalytic reactor: Effect of LEDs position over the reactor window. <i>Chemical Engineering Journal</i> , 2022, 429, 131670.	12.7	10
4	On the performance of liquid-liquid Taylor flow electrochemistry in a microreactor – A CFD study. <i>Chemical Engineering Journal</i> , 2022, 427, 131443.	12.7	8
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: NO _x abatement as a case study. <i>Chemical Engineering Journal</i> , 2022, 431, 133771.	12.7	47
6	Green synthesis of manganese based nanoparticles mediated by <i>Eucalyptus robusta</i> and <i>Corymbia citriodora</i> for agricultural applications. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 636, 128180.	4.7	9
7	Modeling and Simulation of Reaction Environment in Photoredox Catalysis: A Critical Review. <i>Frontiers in Chemical Engineering</i> , 2022, 3, .	2.7	1
8	Nanosilica:Polycaprolactone ratio and heat treatment modify the wettability of nanosilica/polycaprolactone coatings for application in aqueous systems. <i>Surfaces and Interfaces</i> , 2022, 31, 101997.	3.0	1
9	CFD and radiation field modeling of the NETmix milli-photocatalytic reactor for n-decane oxidation at gas phase: Effect of LEDs number and arrangement. <i>Chemical Engineering Journal</i> , 2022, 444, 136577.	12.7	8
10	Microstructural characteristics of geopolymer materials with twenty eight days of curing and after eight years stored at room temperature. <i>Journal of Cleaner Production</i> , 2021, 278, 123437.	9.3	4
11	Novel carbon dots for zinc sensing from <i>Campomanesia phaea</i> . <i>Materials Letters</i> , 2021, 283, 128813.	2.6	13
12	Green Synthesis of Nano Hydroxyapatite: morphology variation and its effect on cytotoxicity against fibroblast. <i>Materials Letters</i> , 2021, 284, 129013.	2.6	13
13	Gas bubbles have controversial effects on Taylor flow electrochemistry. <i>Chemical Engineering Journal</i> , 2021, 406, 126811.	12.7	29
14	An investigation of scale effect and applicability of compact light sources in microchannel reactors applied to pollutant abatement. <i>Environmental Science and Pollution Research</i> , 2021, 28, 22957-22968.	5.3	1
15	CFD analysis of a H ₂ O ₂ /UVC water treatment process in the annular FluHelix reactor. <i>Environmental Science and Pollution Research</i> , 2021, 28, 41224-41232.	5.3	4
16	Eco-friendly ceramic tiles: development based on technical and market demands. <i>Journal of Materials Research and Technology</i> , 2021, 11, 121-134.	5.8	8
17	An Overview of Photoreactors and Computational Modeling for the Intensification of Photocatalytic Processes in the Gas-Phase: State-of-Art. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105068.	6.7	16
18	Synthesis of geranyl acetate by esterification of geraniol with acetic anhydride through heterogeneous catalysis using ion exchange resin. <i>Chemical Engineering Research and Design</i> , 2021, 168, 156-168.	5.6	13

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19	Are carbon dots effective for ion sensing and antiviral applications? A state-of-the-art description from synthesis methods to cost evaluation. <i>Journal of Materials Research and Technology</i> , 2021, 12, 688-716.	5.8	22
20	A Novel Application of Bentonite Modified with Copper Ions in the Tetracycline Adsorption: an experimental design study. <i>Materials Letters</i> , 2021, 291, 129552.	2.6	10
21	Sonoelectrochemistry: Ultrasound-assisted Organic Electrosynthesis. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 9590-9603.	6.7	9
22	CO ₂ adsorption in a zeolite-based bench scale moving bed prototype: Experimental and theoretical investigation. <i>Chemical Engineering Research and Design</i> , 2021, 171, 225-236.	5.6	3
23	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. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105728.	6.7	18
24	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. <i>Journal of Environmental Management</i> , 2021, 291, 112670.	7.8	9
25	Influence of ultrasonic waves on the gas-solid flow and the solids dispersion in a CFB riser: Numerical and experimental study. <i>Powder Technology</i> , 2021, 389, 430-449.	4.2	10
26	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. <i>Chemical Engineering Journal</i> , 2021, 424, 130282.	12.7	106
27	Humic acids adsorption and decomposition on Mn ₂ O ₃ and γ -Al ₂ O ₃ nanoparticles in aqueous suspensions in the presence of ozone. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 102780.	6.7	22
28	Lumped analysis criteria for heat transfer in a diluted co-current moving bed heat exchanger with isothermal walls. <i>Powder Technology</i> , 2020, 361, 1038-1059.	4.2	5
29	CFD analysis of a luminescent solar concentrator-based photomicroreactor (LSC-PM) with feedforward control applied to the synthesis of chemicals under fluctuating light intensity. <i>Chemical Engineering Research and Design</i> , 2020, 153, 626-634.	5.6	16
30	Influence of different parameters on the tube-to-bed heat transfer coefficient in a gas-solid fluidized bed heat exchanger. <i>Chemical Engineering and Processing: Process Intensification</i> , 2020, 147, 107693.	3.6	9
31	Influence of acoustic waves on the solids dispersion in a gas-solid CFB riser: Numerical analysis. <i>Powder Technology</i> , 2020, 359, 292-304.	4.2	14
32	Ultra-High-Molecular-Weight polyethylene-based nanocomposite for removal of tetracycline in aqueous systems. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103630.	6.7	9
33	CFD + DoE optimization of a flat plate photocatalytic reactor applied to NO _x abatement. <i>Chemical Engineering and Processing: Process Intensification</i> , 2020, 154, 107998.	3.6	22
34	Synthesis of aluminum hydroxide nanoparticles from the residue of aluminum anodization for application in polymer materials as ant flame agents. <i>Journal of Materials Research and Technology</i> , 2020, 9, 8937-8952.	5.8	7
35	Mass transfer modeling and simulation of a transient homogeneous bubbly flow in a bubble column. <i>Chemical Engineering Science</i> , 2020, 218, 115531.	3.8	13
36	Mechanical, Thermal and Antimicrobial Properties of Chitosan-Based-Nanocomposite with Potential Applications for Food Packaging. <i>Journal of Polymers and the Environment</i> , 2020, 28, 1216-1236.	5.0	69

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37	Photocatalytic NO _x abatement: Mathematical modeling, CFD validation and reactor analysis. Journal of Hazardous Materials, 2019, 372, 145-153.	12.4	21
38	RHEOLOGICAL BEHAVIOR OF A SILVER AQUEOUS NANOFUID STABILIZED WITH AMINOSILANE-BASED SURFACTANT UNDER CONFINED FLOW. Brazilian Journal of Chemical Engineering, 2019, 36, 229-237.	1.3	3
39	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
40	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
41	A novel ultrahigh-molecular-weight polyethylene-based nanocomposite for contaminants adsorption in aqueous systems. Materials Letters, 2019, 240, 197-200.	2.6	8
42	Biomorphic microchanneled electrodes for enhanced water desalination through capacitive deionization. Water Science and Technology: Water Supply, 2019, 19, 1221-1228.	2.1	3
43	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
44	An explicit correlation for optimal TiO ₂ film thickness in immobilized photocatalytic reaction systems. Chemical Engineering Journal, 2017, 310, 381-388.	12.7	46
45	Intensification of photocatalytic pollutant abatement in microchannel reactor using TiO ₂ and TiO ₂ @graphene. AIChE Journal, 2016, 62, 2794-2802.	3.6	28
46	Numerical simulation of isothermal gas-liquid flow patterns in microchannels with varying wettability. Chemical Engineering Research and Design, 2016, 109, 698-706.	5.6	11
47	Modeling ketoprofen release from PHB/chitosan composite microparticles. Polymer Bulletin, 2016, 73, 1515-1529.	3.3	15
48	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
49	Evaluation of resistances to fluid flow in fibrous ceramic medium. Applied Mathematical Modelling, 2015, 39, 7197-7210.	4.2	6
50	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
51	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
52	Drinking water decontamination by biological denitrification using fresh bamboo as inoculum source. Bioprocess and Biosystems Engineering, 2014, 37, 2009-2017.	3.4	12
53	Lanthanides Effects on TiO ₂ Photocatalysts. , 0, , .		5
54	CFD MODELING OF STEAM CONDENSATION IN INDUSTRIAL PIPES. , 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	0
56	CARACTERÍSTICAS MORFOLÓGICAS DE MATERIAIS GEOPOLIMÉRICOS APÓS A IMOBILIZAÇÃO DE RESÍDUOS CONTAMINADOS COM METAIS PESADOS. , 0, , .		0
57	EFEITO DO ULTRASSOM SOBRE O ESCOAMENTO GÁS-SÓLIDO NA REGIÃO DE ENTRADA DE UM RISER DE CFB. , 0, , .		0
58	COMPUTATIONAL SIMULATION OF ABDOMINAL AORTIC ANEURISM AND ITS ASSESSMENT TO MEDICAL TREATMENT. , 0, , .		0