Nina P G Salau

List of Publications by Year
in descending order

73	1,270	304368	414034
papers	citations	22 h-index	32 g-index

74	74	74	1004
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mass transfer models for the adsorption of 2,4-dichlorophenoxyacetic acid (2,4-D) and atrazine herbicides from agricultural wastewaters. Chemical Engineering Communications, 2023, 210, 247-258.	1.5	5
2	Optimization-based artificial neural networks to fit the isotherm models parameters of aqueous-phase adsorption systems. Environmental Science and Pollution Research, 2022, 29, 79798-79807.	2.7	2
3	Adsorption of atrazine and 2,4-D pesticides on alternative biochars from cedar bark sawdust (Cedrella) Tj ETQq1 1 0.784314 rgBT /Ov	2.7	11
4	Investigation of biochar from Cedrella fissilis applied to the adsorption of atrazine herbicide from an aqueous medium. Journal of Environmental Chemical Engineering, 2022, 10, 107408.	3.3	36
5	Modeling of fixed-bed dye adsorption using response surface methodology and artificial neural network. Chemical Engineering Communications, 2021, 208, 1081-1092.	1.5	14
6	Analysis of adsorption isotherms of Ag+, Co+2, and Cu+2 onto zeolites using computational intelligence models. Journal of Environmental Chemical Engineering, 2021, 9, 104960.	3.3	25
7	Forecasting the multicomponent adsorption of nimesulide and paracetamol through artificial neural network. Chemical Engineering Journal, 2021, 412, 127527.	6.6	53
8	Novel biochar and hydrochar for the adsorption of 2-nitrophenol from aqueous solutions: An approach using the PVSDM model. Chemosphere, 2021, 269, 128748.	4.2	26
9	Three-dimensional mass transport modeling of pharmaceuticals adsorption inside ZnAl/biochar composite. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 614, 126170.	2.3	29
10	Conversion of the forest species Inga marginata and Tipuana tipu wastes into biosorbents: Dye biosorption study from isotherm to mass transfer. Environmental Technology and Innovation, 2021, 22, 101521.	3.0	10
11	Adsorption mechanisms of single and simultaneous removal of pharmaceutical compounds onto activated carbon: Isotherm and thermodynamic modeling. Journal of Molecular Liquids, 2021, 336, 116203.	2.3	48
12	A new method of developing ANN-isotherm hybrid models for the determination of thermodynamic parameters in the adsorption of ions Ag+, Co2+ and Cu2+ onto zeolites ZSM-5, HY, and 4A. Journal of Environmental Chemical Engineering, 2021, 9, 106126.	3.3	14
13	Sisal fiber as an alternative and cost-effective adsorbent for the removal of methylene blue and reactive black 5 dyes from aqueous solutions. Chemical Engineering Communications, 2020, 207, 523-536.	1.5	40
14	Analysis of indium (III) adsorption from leachates of LCD screens using artificial neural networks (ANN) and adaptive neuro-fuzzy inference systems (ANIFS). Journal of Hazardous Materials, 2020, 384, 121137.	6.5	33
15	Single and competitive dye adsorption onto chitosanâ€“based hybrid hydrogels using artificial neural network modeling. Journal of Colloid and Interface Science, 2020, 560, 722-729.	5.0	73
16	Optimal artificial neural network design for simultaneous modeling of multicomponent adsorption. Journal of Molecular Liquids, 2020, 320, 114418.	2.3	36
17	A chemical kinetics based investigation on laminar burning velocity and knock occurrence in a spark-ignition engine fueled with ethanolâ€“water blends. Fuel, 2020, 280, 118587.	3.4	15
18	A mass transfer study considering intraparticle diffusion and axial dispersion for fixed-bed adsorption of crystal violet on pecan pericarp (Carya illinoensis). Chemical Engineering Journal, 2020, 397, 125423.	6.6	52

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19	Diffusion mechanisms and effect of adsorbent geometry on heavy metal adsorption. Chemical Engineering Research and Design, 2020, 157, 182-194.	2.7	24
20	Interpretations on the mechanism of In(III) adsorption onto chitosan and chitin: A mass transfer model approach. Journal of Molecular Liquids, 2020, 304, 112758.	2.3	26
21	An approach to assess and identify polymers in the health-care waste of a Brazilian university hospital. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2020, 55, 800-819.	0.9	7
22	Joint use of artificial neural networks and particle swarm optimization to determine optimal performance of an ethanol SI engine operating with negative valve overlap strategy. Energy, 2020, 204, 117892.	4.5	20
23	Fixedâ€Bed Adsorption of Allura Red Dye on Chitosan/Polyurethane Foam. Chemical Engineering and Technology, 2019, 42, 2434-2442.	0.9	8
24	Mechanism and Kinetic Modeling of Ethanol Conversion to 1-Butanol over Mg and Al Oxide Derived from Hydrotalcites. Industrial & Engineering Chemistry Research, 2019, 58, 12981-12995.	1.8	10
25	The UNIFAC-LLE and COSMO-SAC ternary aqueous LLE calculations. Fluid Phase Equilibria, 2019, 501, 112278.	1.4	9
26	Adaptive neuro-fuzzy inference system (ANIFS) and artificial neural network (ANN) applied for indium (III) adsorption on carbonaceous materials. Chemical Engineering Communications, 2019, 206, 1452-1462.	1.5	22
27	Modeling the growth of microalgae Spirulina sp. with application of illuminance and magnetic field. Journal of Chemical Technology and Biotechnology, 2019, 94, 1770-1776.	1.6	4
28	Adsorption (selected papers presented at the 12th Adsorption Brazilian Meeting (EBA 2018), held April) Tj ETQq0 0 0 rgBT /Overlock 10	1.5	0
29	New insights about reactive red 141 adsorption onto multiâ€“walled carbon nanotubes using statistical physics coupled with Van der Waals equation. Separation and Purification Technology, 2019, 224, 290-294.	3.9	19
30	An investigation on performance and combustion characteristics of pure n-butanol and a blend of n-butanol/ethanol as fuels in a spark ignition engine. Energy, 2019, 176, 521-530.	4.5	34
31	Analysis of intraparticle diffusion on adsorption of crystal violet on bentonite. Chemical Engineering Communications, 2019, 206, 1463-1473.	1.5	23
32	On the mixing rules matter: The VLE predictions for binary systems. Fluid Phase Equilibria, 2019, 484, 1-14.	1.4	2
33	Experimental and mathematical modeling of hindered diffusion effect of cationic dye in the adsorption onto bentonite. Journal of Environmental Chemical Engineering, 2019, 7, 102891.	3.3	15
34	From Wilson to F-SAC: A comparative analysis of correlative and predictive activity coefficient models to determine VLE and IDAC of binary systems. Fluid Phase Equilibria, 2018, 464, 1-11.	1.4	7
35	Exploring optimal operating conditions for wet ethanol use in spark ignition engines. Applied Thermal Engineering, 2018, 138, 523-533.	3.0	33
36	Three-dimensional mass transfer modeling of ibuprofen adsorption on activated carbon prepared by sonication. Chemical Engineering Journal, 2018, 341, 65-74.	6.6	72

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37	Artificial neural network (ANN) and adaptive neuro-fuzzy interference system (ANFIS) modelling for nickel adsorption onto agro-wastes and commercial activated carbon. Journal of Environmental Chemical Engineering, 2018, 6, 7152-7160.	3.3	73
38	Comparative analysis of different heat transfer correlations in a two-zone combustion model applied on a SI engine fueled with wet ethanol. Applied Thermal Engineering, 2017, 115, 22-32.	3.0	17
39	Detailed numerical solution of pore volume and surface diffusion model in adsorption systems. Chemical Engineering Research and Design, 2017, 122, 298-307.	2.7	87
40	Mass transfer models for the adsorption of Acid Red 357 and Acid Black 210 by tannery solid wastes. Adsorption Science and Technology, 2017, 35, 300-316.	1.5	10
41	Adsorption Kinetics in Liquid Phase: Modeling for Discontinuous and Continuous Systems. , 2017, , 53-76.		18
42	Determination of optimal wet ethanol composition as a fuel in spark ignition engine. Applied Thermal Engineering, 2017, 112, 317-325.	3.0	29
43	Statistical evaluation of pore volume and surface diffusion model in adsorption systems. Journal of Environmental Chemical Engineering, 2017, 5, 5293-5297.	3.3	9
44	Identifyability measures to select the parameters to be estimated in a solidâ€state fermentation distributed parameter model. Biotechnology Progress, 2016, 32, 905-917.	1.3	3
45	Solidâ€state fermentation process model reparametrization procedure for parameters estimation using particle swarm optimization. Journal of Chemical Technology and Biotechnology, 2016, 91, 762-768.	1.6	3
46	Curve Fits for Thermodynamic Properties of Butanol Fuel. , 2015, , .		1
47	ExpEngine: A MatlabÂ® Add-On for the Simulation of the Combustion Cycle in a SI Engine Using Wet Ethanol. , 2015, , .		0
48	Experimental analysis and modeling of internal combustion engine operating with wet ethanol. Fuel, 2015, 158, 270-278.	3.4	43
49	Heat Transfer Evaluation of an Internal Combustion Engine Operating using Wet Ethanol Fuel - Part A. , 2014, , .		4
50	Heat Transfer Evaluation of an Internal Combustion Engine Operating with Wet Ethanol Fuel - Part B. , 2014, , .		3
51	State estimation of chemical engineering systems tending to multiple solutions. Brazilian Journal of Chemical Engineering, 2014, 31, 771-785.	0.7	2
52	Modeling the microbial growth and temperature profile in a fixed-bed bioreactor. Bioprocess and Biosystems Engineering, 2014, 37, 1945-1954.	1.7	10
53	Observability analysis and model formulation for nonlinear state estimation. Applied Mathematical Modelling, 2014, 38, 5407-5420.	2.2	12
54	State estimators for better bioprocesses operation. Computer Aided Chemical Engineering, 2012, , 1267-1271.	0.3	7

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55	Online real-time inference of ethanol composition in a mixed distillation column. Computer Aided Chemical Engineering, 2012, 30, 877-881.	0.3	0
56	Optimization of enzymatic hydrolysis of cassava to obtain fermentable sugars. Journal of Zhejiang University: Science B, 2012, 13, 579-586.	1.3	28
57	Practical aspects on nonlinear state estimation. Computer Aided Chemical Engineering, 2012, 30, 1272-1276.	0.3	0
58	Numerical Pitfalls by State Covariance Computation. Computer Aided Chemical Engineering, 2009, 27, 1215-1220.	0.3	3
59	Multivariable control strategy based on bifurcation analysis of an industrial gas-phase polymerization reactor. Journal of Process Control, 2009, 19, 530-538.	1.7	8
60	Dynamic Behavior and Control in an Industrial Fluidized-Bed Polymerization Reactor. Industrial & Engineering Chemistry Research, 2008, 47, 6058-6069.	1.8	18
61	Data treatment and analysis for on-line dynamic process optimization. Computer Aided Chemical Engineering, 2008, 25, 519-524.	0.3	1
62	Dynamic behaviour and control of an industrial fluidised-bed polymerisation reactor. Computer Aided Chemical Engineering, 2005, , 409-414.	0.3	1
63	Comportamentos dinÃ¢micos em um reator industrial de polimerizaÃ§Ã£o em fase gasosa. Controle and Automacao, 2005, 16, 391-406.	0.2	0
64	Implementation of an Indirect Control Structure for Composition in a Hybrid Distillation Column. Separation Science and Technology, 0, , 150629133720007.	1.3	0
65	Study of Wet Ethanol Energy Balance: From Production to Fuel. , 0, , .		2
66	Combustion Performance of n-butanol, Hydrous Ethanol and Their Blends as Potential Surrogates for the Brazilian Gasoline. , 0, , .		5
67	Investigation of Compression Ratio Effect on Wet Ethanol Use in Spark Ignition Engines. , 0, , .		7
68	Performance of hydrous ethanol, butanol, and their blends in comparison to primary reference fuels on a spark-ignited engine. , 0, , .		3
69	Synthesis and physico-chemistry properties of a diesel-like fuel produced from waste polypropylene pyrolysis oil. Chemical Engineering Communications, 0, , 1-14.	1.5	0
70	Experimental evaluation of the emissions in an Otto cycle engine operating with hydrous and wet ethanol under different compression ratios. , 0, , .		2
71	Comparison of NOx emissions from hydrous ethanol and n-butanol predicted by an Otto cycle two-zone model using the Zeldovich reactions mechanism. , 0, , .		1
72	Chemical kinetic mechanisms for HCCI combustion of wet ethanol with exhaust gas recirculation. , 0, , .		1

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73	New insights into reaction-diffusion kinetic coupling in the esterification of acetic acid with isopropanol over niobium pentoxide. Chemical Engineering Communications, 0, , 1-17.	1.5	0