

Nina P G Salau

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5334073/publications.pdf>

Version: 2024-02-01

73
papers

1,270
citations

304368

22
h-index

414034

32
g-index

74
all docs

74
docs citations

74
times ranked

1004
citing authors

#	ARTICLE	IF	CITATIONS
1	Detailed numerical solution of pore volume and surface diffusion model in adsorption systems. <i>Chemical Engineering Research and Design</i> , 2017, 122, 298-307.	2.7	87
2	Artificial neural network (ANN) and adaptive neuro-fuzzy interference system (ANFIS) modelling for nickel adsorption onto agro-wastes and commercial activated carbon. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 7152-7160.	3.3	73
3	Single and competitive dye adsorption onto chitosan-based hybrid hydrogels using artificial neural network modeling. <i>Journal of Colloid and Interface Science</i> , 2020, 560, 722-729.	5.0	73
4	Three-dimensional mass transfer modeling of ibuprofen adsorption on activated carbon prepared by sonication. <i>Chemical Engineering Journal</i> , 2018, 341, 65-74.	6.6	72
5	Forecasting the multicomponent adsorption of nimesulide and paracetamol through artificial neural network. <i>Chemical Engineering Journal</i> , 2021, 412, 127527.	6.6	53
6	A mass transfer study considering intraparticle diffusion and axial dispersion for fixed-bed adsorption of crystal violet on pecan pericarp (<i>Carya illinoensis</i>). <i>Chemical Engineering Journal</i> , 2020, 397, 125423.	6.6	52
7	Adsorption mechanisms of single and simultaneous removal of pharmaceutical compounds onto activated carbon: Isotherm and thermodynamic modeling. <i>Journal of Molecular Liquids</i> , 2021, 336, 116203.	2.3	48
8	Experimental analysis and modeling of internal combustion engine operating with wet ethanol. <i>Fuel</i> , 2015, 158, 270-278.	3.4	43
9	Sisal fiber as an alternative and cost-effective adsorbent for the removal of methylene blue and reactive black 5 dyes from aqueous solutions. <i>Chemical Engineering Communications</i> , 2020, 207, 523-536.	1.5	40
10	Optimal artificial neural network design for simultaneous modeling of multicomponent adsorption. <i>Journal of Molecular Liquids</i> , 2020, 320, 114418.	2.3	36
11	Investigation of biochar from <i>Cedrella fissilis</i> applied to the adsorption of atrazine herbicide from an aqueous medium. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107408.	3.3	36
12	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. <i>Energy</i> , 2019, 176, 521-530.	4.5	34
13	Exploring optimal operating conditions for wet ethanol use in spark ignition engines. <i>Applied Thermal Engineering</i> , 2018, 138, 523-533.	3.0	33
14	Analysis of indium (III) adsorption from leachates of LCD screens using artificial neural networks (ANN) and adaptive neuro-fuzzy inference systems (ANIFS). <i>Journal of Hazardous Materials</i> , 2020, 384, 121137.	6.5	33
15	Determination of optimal wet ethanol composition as a fuel in spark ignition engine. <i>Applied Thermal Engineering</i> , 2017, 112, 317-325.	3.0	29
16	Three-dimensional mass transport modeling of pharmaceuticals adsorption inside ZnAl/biochar composite. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 614, 126170.	2.3	29
17	Optimization of enzymatic hydrolysis of cassava to obtain fermentable sugars. <i>Journal of Zhejiang University: Science B</i> , 2012, 13, 579-586.	1.3	28
18	Interpretations on the mechanism of In(III) adsorption onto chitosan and chitin: A mass transfer model approach. <i>Journal of Molecular Liquids</i> , 2020, 304, 112758.	2.3	26

#	ARTICLE	IF	CITATIONS
19	Novel biochar and hydrochar for the adsorption of 2-nitrophenol from aqueous solutions: An approach using the PVSDM model. <i>Chemosphere</i> , 2021, 269, 128748.	4.2	26
20	Analysis of adsorption isotherms of Ag ⁺ , Co ²⁺ , and Cu ²⁺ onto zeolites using computational intelligence models. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104960.	3.3	25
21	Diffusion mechanisms and effect of adsorbent geometry on heavy metal adsorption. <i>Chemical Engineering Research and Design</i> , 2020, 157, 182-194.	2.7	24
22	Analysis of intraparticle diffusion on adsorption of crystal violet on bentonite. <i>Chemical Engineering Communications</i> , 2019, 206, 1463-1473.	1.5	23
23	Adaptive neuro-fuzzy inference system (ANIFS) and artificial neural network (ANN) applied for indium (III) adsorption on carbonaceous materials. <i>Chemical Engineering Communications</i> , 2019, 206, 1452-1462.	1.5	22
24	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. <i>Energy</i> , 2020, 204, 117892.	4.5	20
25	New insights about reactive red 141 adsorption onto multi-walled carbon nanotubes using statistical physics coupled with Van der Waals equation. <i>Separation and Purification Technology</i> , 2019, 224, 290-294.	3.9	19
26	Dynamic Behavior and Control in an Industrial Fluidized-Bed Polymerization Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2008, 47, 6058-6069.	1.8	18
27	Adsorption Kinetics in Liquid Phase: Modeling for Discontinuous and Continuous Systems. , 2017, , 53-76.		18
28	Comparative analysis of different heat transfer correlations in a two-zone combustion model applied on a SI engine fueled with wet ethanol. <i>Applied Thermal Engineering</i> , 2017, 115, 22-32.	3.0	17
29	Experimental and mathematical modeling of hindered diffusion effect of cationic dye in the adsorption onto bentonite. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 102891.	3.3	15
30	A chemical kinetics based investigation on laminar burning velocity and knock occurrence in a spark-ignition engine fueled with ethanol-water blends. <i>Fuel</i> , 2020, 280, 118587.	3.4	15
31	Modeling of fixed-bed dye adsorption using response surface methodology and artificial neural network. <i>Chemical Engineering Communications</i> , 2021, 208, 1081-1092.	1.5	14
32	A new method of developing ANN-isotherm hybrid models for the determination of thermodynamic parameters in the adsorption of ions Ag ⁺ , Co ²⁺ and Cu ²⁺ onto zeolites ZSM-5, HY, and 4A. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106126.	3.3	14
33	Observability analysis and model formulation for nonlinear state estimation. <i>Applied Mathematical Modelling</i> , 2014, 38, 5407-5420.	2.2	12
34	Adsorption of atrazine and 2,4-D pesticides on alternative biochars from cedar bark sawdust (Cedrella) Tj ETQq0 0 0 r gBT /Overlock 10 T	2.7	11
35	Modeling the microbial growth and temperature profile in a fixed-bed bioreactor. <i>Bioprocess and Biosystems Engineering</i> , 2014, 37, 1945-1954.	1.7	10
36	Mass transfer models for the adsorption of Acid Red 357 and Acid Black 210 by tannery solid wastes. <i>Adsorption Science and Technology</i> , 2017, 35, 300-316.	1.5	10

#	ARTICLE	IF	CITATIONS
37	Mechanism and Kinetic Modeling of Ethanol Conversion to 1-Butanol over Mg and Al Oxide Derived from Hydrotalcites. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 12981-12995.	1.8	10
38	Conversion of the forest species <i>Inga marginata</i> and <i>Tipuana tipu</i> wastes into biosorbents: Dye biosorption study from isotherm to mass transfer. <i>Environmental Technology and Innovation</i> , 2021, 22, 101521.	3.0	10
39	The UNIFAC-LLE and COSMO-SAC ternary aqueous LLE calculations. <i>Fluid Phase Equilibria</i> , 2019, 501, 112278.	1.4	9
40	Statistical evaluation of pore volume and surface diffusion model in adsorption systems. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 5293-5297.	3.3	9
41	Multivariable control strategy based on bifurcation analysis of an industrial gas-phase polymerization reactor. <i>Journal of Process Control</i> , 2009, 19, 530-538.	1.7	8
42	Fixed-Bed Adsorption of Allura Red Dye on Chitosan/Polyurethane Foam. <i>Chemical Engineering and Technology</i> , 2019, 42, 2434-2442.	0.9	8
43	State estimators for better bioprocesses operation. <i>Computer Aided Chemical Engineering</i> , 2012, , 1267-1271.	0.3	7
44	Investigation of Compression Ratio Effect on Wet Ethanol Use in Spark Ignition Engines. , 0, , .		7
45	From Wilson to F-SAC: A comparative analysis of correlative and predictive activity coefficient models to determine VLE and IDAC of binary systems. <i>Fluid Phase Equilibria</i> , 2018, 464, 1-11.	1.4	7
46	An approach to assess and identify polymers in the health-care waste of a Brazilian university hospital. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2020, 55, 800-819.	0.9	7
47	Combustion Performance of n-butanol, Hydrous Ethanol and Their Blends as Potential Surrogates for the Brazilian Gasoline. , 0, , .		5
48	Mass transfer models for the adsorption of 2,4-dichlorophenoxyacetic acid (2,4-D) and atrazine herbicides from agricultural wastewaters. <i>Chemical Engineering Communications</i> , 2023, 210, 247-258.	1.5	5
49	Heat Transfer Evaluation of an Internal Combustion Engine Operating using Wet Ethanol Fuel - Part A. , 2014, , .		4
50	Modeling the growth of microalgae <i>Spirulina</i> sp. with application of illuminance and magnetic field. <i>Journal of Chemical Technology and Biotechnology</i> , 2019, 94, 1770-1776.	1.6	4
51	Numerical Pitfalls by State Covariance Computation. <i>Computer Aided Chemical Engineering</i> , 2009, 27, 1215-1220.	0.3	3
52	Heat Transfer Evaluation of an Internal Combustion Engine Operating with Wet Ethanol Fuel - Part B. , 2014, , .		3
53	Identifiability measures to select the parameters to be estimated in a solid-state fermentation distributed parameter model. <i>Biotechnology Progress</i> , 2016, 32, 905-917.	1.3	3
54	Solid-state fermentation process model reparametrization procedure for parameters estimation using particle swarm optimization. <i>Journal of Chemical Technology and Biotechnology</i> , 2016, 91, 762-768.	1.6	3

#	ARTICLE	IF	CITATIONS
55	Performance of hydrous ethanol, butanol, and their blends in comparison to primary reference fuels on a spark-ignited engine. , 0, , .		3
56	State estimation of chemical engineering systems tending to multiple solutions. Brazilian Journal of Chemical Engineering, 2014, 31, 771-785.	0.7	2
57	Study of Wet Ethanol Energy Balance: From Production to Fuel. , 0, , .		2
58	On the mixing rules matter: The VLE predictions for binary systems. Fluid Phase Equilibria, 2019, 484, 1-14.	1.4	2
59	Experimental evaluation of the emissions in an Otto cycle engine operating with hydrous and wet ethanol under different compression ratios. , 0, , .		2
60	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
61	Dynamic behaviour and control of an industrial fluidised-bed polymerisation reactor. Computer Aided Chemical Engineering, 2005, , 409-414.	0.3	1
62	Data treatment and analysis for on-line dynamic process optimization. Computer Aided Chemical Engineering, 2008, 25, 519-524.	0.3	1
63	Curve Fits for Thermodynamic Properties of Butanol Fuel. , 2015, , .		1
64	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
65	Chemical kinetic mechanisms for HCCI combustion of wet ethanol with exhaust gas recirculation. , 0, , .		1
66	Comportamentos dinâmicos em um reator industrial de polimerização em fase gasosa. Controle and Automacao, 2005, 16, 391-406.	0.2	0
67	Online real-time inference of ethanol composition in a mixed distillation column. Computer Aided Chemical Engineering, 2012, 30, 877-881.	0.3	0
68	Implementation of an Indirect Control Structure for Composition in a Hybrid Distillation Column. Separation Science and Technology, 0, , 150629133720007.	1.3	0
69	ExpEngine: A Matlab® Add-On for the Simulation of the Combustion Cycle in a SI Engine Using Wet Ethanol. , 2015, , .		0
70	Adsorption (selected papers presented at the 12th Adsorption Brazilian Meeting (EBA 2018), held April) Tj ETQq0 0,0 rgBT /Oylock 10	1.5	0
71	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
72	Practical aspects on nonlinear state estimation. Computer Aided Chemical Engineering, 2012, 30, 1272-1276.	0.3	0

#	ARTICLE	IF	CITATIONS
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