

# Edson Antônio Da Silva

## List of Publications by Citations

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148  
papers

3,051  
citations

30  
h-index

48  
g-index

165  
ext. papers

3,484  
ext. citations

4.4  
avg, IF

5.42  
L-index

#	Paper	IF	Citations
148	Removal of nickel(II) ions from aqueous solution by biosorption in a fixed bed column: Experimental and theoretical breakthrough curves. <i>Biochemical Engineering Journal</i> , <b>2006</b> , 30, 184-191	4.2	166
147	Extraction of sesame seed ( <i>Sesamun indicum</i> L.) oil using compressed propane and supercritical carbon dioxide. <i>Journal of Supercritical Fluids</i> , <b>2010</b> , 52, 56-61	4.2	104
146	A comparative study for the ion exchange of Fe(III) and Zn(II) on zeolite NaY. <i>Journal of Hazardous Materials</i> , <b>2009</b> , 161, 1404-12	12.8	96
145	Biosorption of nickel(II) and copper(II) ions in batch and fixed-bed columns by free and immobilized marine algae <i>Sargassum</i> sp.. <i>Journal of Cleaner Production</i> , <b>2017</b> , 150, 58-64	10.3	91
144	Adsorption of Cu(II) on <i>Araucaria angustifolia</i> wastes: determination of the optimal conditions by statistic design of experiments. <i>Journal of Hazardous Materials</i> , <b>2007</b> , 140, 211-20	12.8	88
143	Extraction of sunflower ( <i>Heliantus annuus</i> L.) oil with supercritical CO <sub>2</sub> and subcritical propane: Experimental and modeling. <i>Chemical Engineering Journal</i> , <b>2011</b> , 168, 262-268	14.7	84
142	Extraction of canola seed ( <i>Brassica napus</i> ) oil using compressed propane and supercritical carbon dioxide. <i>Journal of Food Engineering</i> , <b>2011</b> , 102, 189-196	6	82
141	Equilibrium study of the binary mixture of cadmium/zinc ions biosorption by the <i>Sargassum filipendula</i> species using adsorption isotherms models and neural network. <i>Biochemical Engineering Journal</i> , <b>2007</b> , 34, 136-146	4.2	78
140	Equilibrium of Cu(II) and Ni(II) biosorption by marine alga <i>Sargassum filipendula</i> in a dynamic system: competitiveness and selectivity. <i>Bioresource Technology</i> , <b>2011</b> , 102, 4610-7	11	76
139	Application of Aqai Stalks as Biosorbents for the Removal of the Dye Procion Blue MX-R from Aqueous Solution. <i>Separation Science and Technology</i> , <b>2012</b> , 47, 513-526	2.5	72
138	Adsorption and desorption of binary mixtures of copper and mercury ions on natural and crosslinked chitosan membranes. <i>Adsorption</i> , <b>2007</b> , 13, 603-611	2.6	70
137	Modeling of copper(II) biosorption by marine alga <i>Sargassum</i> sp. in fixed-bed column. <i>Process Biochemistry</i> , <b>2002</b> , 38, 791-799	4.8	69
136	Supercritical extraction process and phase equilibrium of Candeia ( <i>Eremanthus erythropappus</i> ) oil using supercritical carbon dioxide. <i>Journal of Supercritical Fluids</i> , <b>2008</b> , 47, 182-187	4.2	67
135	Treatment of brewery wastewater and its use for biological production of methane and hydrogen. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 26243-26256	6.7	61
134	Extraction of crambe seed oil using subcritical propane: Kinetics, characterization and modeling. <i>Journal of Supercritical Fluids</i> , <b>2015</b> , 104, 54-61	4.2	61
133	Removal of Cr(III) in the fixed bed column and batch reactors using as adsorbent zeolite NaX. <i>Chemical Engineering Science</i> , <b>2004</b> , 59, 5959-5966	4.4	60
132	Screening, optimization and kinetics of <i>Jatropha curcas</i> oil transesterification with heterogeneous catalysts. <i>Renewable Energy</i> , <b>2011</b> , 36, 726-731	8.1	59

131	Nickel(II) and zinc(II) removal using Amberlite IR-120 resin: Ion exchange equilibrium and kinetics. <i>Chemical Engineering Journal</i> , <b>2013</b> , 221, 426-435	14.7	51
130	Extraction of palm oil using propane, ethanol and its mixtures as compressed solvent. <i>Journal of Supercritical Fluids</i> , <b>2013</b> , 81, 245-253	4.2	48
129	Prediction of the copper (II) ions dynamic removal from a medium by using mathematical models with analytical solution. <i>Journal of Hazardous Materials</i> , <b>2008</b> , 152, 366-72	12.8	45
128	Compressed n-propane extraction of lipids and bioactive compounds from Perilla ( <i>Perilla frutescens</i> ). <i>Journal of Supercritical Fluids</i> , <b>2015</b> , 102, 1-8	4.2	43
127	Effect of solution pH and influence of water hardness on caffeine adsorption onto activated carbons. <i>Canadian Journal of Chemical Engineering</i> , <b>2015</b> , 93, 68-77	2.3	38
126	Kinetic studies of thermal decomposition of sugarcane bagasse and cassava bagasse. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2016</b> , 125, 437-445	4.1	38
125	Biosorption of Chromium(III) by Biomass of Seaweed <i>Sargassum</i> sp. in a Fixed-Bed Column. <i>Adsorption</i> , <b>2004</b> , 10, 129-138	2.6	38
124	Copper and nickel competitive biosorption simulation from single and binary systems by <i>Sargassum filipendula</i> . <i>Chemical Engineering Journal</i> , <b>2012</b> , 184, 16-22	14.7	37
123	Pressure Swing Adsorption for Biogas Upgrading with Carbon Molecular Sieve. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 8057-8067	3.9	37
122	Enzymatic catalyzed palm oil hydrolysis under ultrasound irradiation: diacylglycerol synthesis. <i>Ultrasonics Sonochemistry</i> , <b>2013</b> , 20, 1002-7	8.9	36
121	Oil extraction from macauba pulp using compressed propane. <i>Journal of Supercritical Fluids</i> , <b>2017</b> , 126, 72-78	4.2	35
120	Removal of Cr <sup>3+</sup> in fixed bed using zeolite NaY. <i>Chemical Engineering Journal</i> , <b>2006</b> , 117, 253-261	14.7	32
119	Evaluation of the effects of temperature and pressure on the extraction of eugenol from clove ( <i>Syzygium aromaticum</i> ) leaves using supercritical CO <sub>2</sub> . <i>Journal of Supercritical Fluids</i> , <b>2019</b> , 143, 313-320	4.2	32
118	Kinetics of Lead Bioaccumulation from a Hydroponic Medium by Aquatic Macrophytes <i>Pistia stratiotes</i> . <i>Water, Air, and Soil Pollution</i> , <b>2009</b> , 203, 29-37	2.6	28
117	H <sub>2</sub> S adsorption on NaY zeolite. <i>Microporous and Mesoporous Materials</i> , <b>2019</b> , 284, 247-257	5.3	27
116	Biosorption of nickel and copper ions from synthetic solution and electroplating effluent using fixed bed column of immobilized brown algae. <i>Journal of Water Process Engineering</i> , <b>2019</b> , 32, 100904	6.7	26
115	Breakthrough curves for oleic acid removal from ethanolic solutions using a strong anion exchange resin. <i>Separation and Purification Technology</i> , <b>2009</b> , 69, 1-6	8.3	26
114	Production of biohydrogen from brewery wastewater using <i>Klebsiella pneumoniae</i> isolated from the environment. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 4276-4283	6.7	25

113	Adsorption of turquoise blue QG reactive dye on commercial activated carbon in batch reactor: kinetic and equilibrium studies. <i>Brazilian Journal of Chemical Engineering</i> , <b>2010</b> , 27, 289-298	1.7	25
112	Chromium ions phytoaccumulation by three floating aquatic macrophytes from a nutrient medium. <i>World Journal of Microbiology and Biotechnology</i> , <b>2008</b> , 24, 3063-3070	4.4	25
111	Use of supercritical CO <sub>2</sub> and ultrasound-assisted extractions to obtain flavonoid-rich extracts from uvaia leaves ( <i>Eugenia pyriformis</i> Cambess.). <i>Journal of Supercritical Fluids</i> , <b>2018</b> , 137, 1-8	4.2	24
110	Study of candeia oil extraction using pressurized fluids and purification by adsorption process. <i>Journal of Supercritical Fluids</i> , <b>2014</b> , 92, 177-182	4.2	24
109	Extraction of vetiver ( <i>Chrysopogon zizanioides</i> ) root oil by supercritical CO <sub>2</sub> , pressurized-liquid, and ultrasound-assisted methods and modeling of supercritical extraction kinetics. <i>Journal of Supercritical Fluids</i> , <b>2019</b> , 150, 30-39	4.2	23
108	Extraction of oil and bioactive compounds from <i>Araucaria angustifolia</i> (Bertol.) Kuntze using subcritical n-propane and organic solvents. <i>Journal of Supercritical Fluids</i> , <b>2016</b> , 112, 14-21	4.2	23
107	Reactive Blue 5G Adsorption onto Activated Carbon: Kinetics and Equilibrium. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2013</b> , 58, 106-114	2.8	23
106	Continuous catalyst-free production of esters from <i>Jatropha curcas</i> L. oil under supercritical ethanol. <i>Brazilian Journal of Chemical Engineering</i> , <b>2014</b> , 31, 727-735	1.7	22
105	Application of the mass action law to describe ion exchange equilibrium in a fixed-bed column. <i>Chemical Engineering Journal</i> , <b>2011</b> , 172, 312-320	14.7	22
104	Candeia ( <i>Eremanthus erythropappus</i> ) oil extraction using supercritical CO <sub>2</sub> with ethanol and ethyl acetate cosolvents. <i>Journal of Supercritical Fluids</i> , <b>2017</b> , 128, 323-330	4.2	21
103	Chemical composition, antioxidant activity and thermal analysis of oil extracted from favela ( <i>Cnidocolus quercifolius</i> ) seeds. <i>Industrial Crops and Products</i> , <b>2017</b> , 97, 368-373	5.9	21
102	Potential alternative aviation fuel from jatropha ( <i>Jatropha curcas</i> L.), babassu ( <i>Orbignya phalerata</i> ) and palm kernel ( <i>Elaeis guineensis</i> ) as blends with Jet-A1 kerosene. <i>Journal of Cleaner Production</i> , <b>2018</b> , 185, 860-869	10.3	21
101	Supercritical extraction of <i>Eugenia involucrata</i> leaves: Influence of operating conditions on yield and tocopherol content. <i>Journal of Supercritical Fluids</i> , <b>2019</b> , 143, 55-63	4.2	21
100	Biosorption of binary mixtures of Cr(III) and Cu(II) ions by <i>Sargassum</i> sp. <i>Brazilian Journal of Chemical Engineering</i> , <b>2003</b> , 20, 213-227	1.7	20
99	Debye-Hückel approximation for simplification of ions adsorption equilibrium model based on Poisson-Boltzmann equation. <i>Surfaces and Interfaces</i> , <b>2018</b> , 10, 144-148	4.1	18
98	Optimization of multiple-effect evaporation in the pulp and paper industry using response surface methodology. <i>Applied Thermal Engineering</i> , <b>2016</b> , 95, 18-23	5.8	18
97	Mass Transfer Mechanism of Ion Exchange in Fixed Bed Columns. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2011</b> , 56, 375-382	2.8	18
96	Copper Biosorption by Biomass of Marine Alga: Study of Equilibrium and Kinetics in Batch System and Adsorption/Desorption Cycles in Fixed Bed Column. <i>Water, Air, and Soil Pollution</i> , <b>2010</b> , 213, 15-26	2.6	18

95	Extraction of oil from <i>Elaeis</i> spp. using subcritical propane and cosolvent: Experimental and modeling. <i>Journal of Supercritical Fluids</i> , <b>2018</b> , 133, 401-410	4.2	18
94	Wood and industrial residue of candeia ( <i>Eremanthus erythropappus</i> ): Supercritical CO <sub>2</sub> oil extraction, composition, antioxidant activity and mathematical modeling. <i>Journal of Supercritical Fluids</i> , <b>2016</b> , 114, 1-8	4.2	17
93	Effect of Additives in the Reaction Medium on Noncatalytic Ester Production from Used Frying Oil with Supercritical Ethanol. <i>Energy &amp; Fuels</i> , <b>2014</b> , 28, 3122-3128	4.1	17
92	Extraction and assessment of oil and bioactive compounds from cashew nut ( <i>Anacardium occidentale</i> ) using pressurized n-propane and ethanol as cosolvent. <i>Journal of Supercritical Fluids</i> , <b>2020</b> , 157, 104686	4.2	17
91	Uranium biosorption by <i>Lemna</i> sp. and <i>Pistia stratiotes</i> . <i>Journal of Environmental Radioactivity</i> , <b>2019</b> , 203, 179-186	2.4	16
90	Phenomenological determination of mass transfer parameters of oil extraction from grape biomass waste. <i>Journal of Cleaner Production</i> , <b>2018</b> , 176, 130-139	10.3	16
89	Equilibrium modeling of ion adsorption based on Poisson-Boltzmann equation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2015</b> , 468, 159-166	5.1	16
88	Comparing conventional and supercritical extraction of (-)-mammea A/BB and the antioxidant activity of <i>Calophyllum brasiliense</i> extracts. <i>Molecules</i> , <b>2013</b> , 18, 6215-29	4.8	16
87	Pressurized liquid and ultrasound-assisted extraction of Bisabolol from candeia ( <i>Eremanthus erythropappus</i> ) wood. <i>Industrial Crops and Products</i> , <b>2019</b> , 130, 428-435	5.9	16
86	Production of biohydrogen by an anaerobic digestion process using the residual glycerol from biodiesel production as additive to cassava wastewater. <i>Journal of Cleaner Production</i> , <b>2020</b> , 258, 120833	10.3	15
85	Supercritical CO <sub>2</sub> extraction of favela ( <i>Cnidocolus quercifolius</i> ) seed oil: Yield, composition, antioxidant activity, and mathematical modeling. <i>Journal of Supercritical Fluids</i> , <b>2020</b> , 165, 104981	4.2	15
84	Comparing models to Neumann and Dirichlet conditions in grape seed drying. <i>Applied Thermal Engineering</i> , <b>2016</b> , 93, 865-871	5.8	15
83	Supercritical CO <sub>2</sub> oil extraction from <i>Bauhinia forficata</i> link subsp. <i>pruinosa</i> leaves: Composition, antioxidant activity and mathematical modeling. <i>Journal of Supercritical Fluids</i> , <b>2019</b> , 153, 104588	4.2	15
82	Mathematical modeling of supercritical CO <sub>2</sub> extraction of hops ( <i>Humulus lupulus</i> L.). <i>Journal of Supercritical Fluids</i> , <b>2017</b> , 130, 347-356	4.2	15
81	Briquettes production for use as power source for combustion using charcoal thin waste and sanitary sewage sludge. <i>Environmental Science and Pollution Research</i> , <b>2017</b> , 24, 10778-10785	5.1	14
80	Mathematical modeling of a ternary Cu <sup>2+</sup> /Zn <sup>2+</sup> /Ni <sup>2+</sup> ion exchange system in a fixed-bed column using Amberlite IR 120. <i>Chemical Engineering Journal</i> , <b>2012</b> , 189-190, 49-56	14.7	14
79	Biosorption of nickel(II) and copper(II) ions from synthetic and real effluents by alginate-based biosorbent produced from seaweed <i>Sargassum</i> sp. <i>Environmental Science and Pollution Research</i> , <b>2019</b> , 26, 11100-11112	5.1	14
78	Chromium adsorption in olive stone activated carbon. <i>Adsorption</i> , <b>2006</b> , 12, 155-162	2.6	13

77	Improvement of biohydrogen production from brewery wastewater: Evaluation of inocula, support and reactor. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 5216-5226	6.7	13
76	Evaluation of a concentrated parameters mathematical model applied to drying of yerba mate leaves with variable mass transfer coefficient. <i>Applied Thermal Engineering</i> , <b>2016</b> , 105, 483-489	5.8	12
75	Continuous Catalyst-Free Esterification of Oleic Acid in Compressed Ethanol. <i>International Journal of Chemical Engineering</i> , <b>2014</b> , 2014, 1-5	2.2	12
74	Ion Exchange Equilibrium Prediction for the System $\text{Cu}^{2+}/\text{Ni}^{2+}/\text{Na}^{+}$ . <i>Journal of Chemical &amp; Engineering Data</i> , <b>2010</b> , 55, 1333-1341	2.8	12
73	PIXE analysis of chromium phytoaccumulation by the aquatic macrophytes <i>Eicchornia crassipes</i> . <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2009</b> , 267, 1153-1157	1.2	12
72	Thermophysical properties of biodiesel and related systems: Low-pressure vapor+liquid equilibrium of methyl/ethyl soybean biodiesel. <i>Journal of Chemical Thermodynamics</i> , <b>2013</b> , 64, 65-70	2.9	10
71	Biosorption study of $\text{Ni}^{2+}$ and $\text{Cr}^{3+}$ by <i>Sargassum filipendula</i> : kinetics and equilibrium. <i>Brazilian Journal of Chemical Engineering</i> , <b>2014</b> , 31, 211-227	1.7	10
70	Dynamic isotherms of dye in activated carbon. <i>Materials Research</i> , <b>2008</b> , 11, 365-369	1.5	10
69	Optimization of ultrasound-assisted extraction of bioactive compounds from <i>B. forficata</i> subsp. <i>Pruinosa</i> . <i>Canadian Journal of Chemical Engineering</i> , <b>2020</b> , 98, 2214-2226	2.3	10
68	Evaluation of favela seed oil extraction with alternative solvents and pressurized-liquid ethanol. <i>Journal of Supercritical Fluids</i> , <b>2021</b> , 169, 105125	4.2	10
67	Extraction of <i>Morus alba</i> leaves using supercritical $\text{CO}_2$ and ultrasound-assisted solvent: Evaluation of $\beta$ -sitosterol content. <i>Journal of Supercritical Fluids</i> , <b>2020</b> , 159, 104752	4.2	9
66	Application of the coconut fiber in radioactive liquid waste treatment. <i>International Journal of Environmental Science and Technology</i> , <b>2018</b> , 15, 1629-1640	3.3	9
65	Use of castor bean seeds as lipase source for hydrolysis of crambe oil. <i>Industrial Crops and Products</i> , <b>2018</b> , 124, 254-264	5.9	9
64	Mathematical modeling of a convective textile drying process. <i>Brazilian Journal of Chemical Engineering</i> , <b>2014</b> , 31, 959-965	1.7	9
63	Effect of the chemical composition of smectites used in KF/Clay catalysts on soybean oil transesterification into methyl esters. <i>Applied Clay Science</i> , <b>2014</b> , 102, 121-127	5.2	9
62	Biosorption of Chromium(III) and Copper(II) Ions onto Marine Alga <i>Sargassum</i> sp. in a Fixed-bed Column. <i>Adsorption Science and Technology</i> , <b>2010</b> , 28, 449-464	3.6	9
61	Photodamage on <i>Staphylococcus aureus</i> by natural extract from <i>Tetragonia tetragonoides</i> (Pall.) Kuntze: Clean method of extraction, characterization and photophysical studies. <i>Journal of Photochemistry and Photobiology B: Biology</i> , <b>2020</b> , 203, 111763	6.7	9
60	Total fatty acid content, antioxidant composition, antioxidant activity, and content of oil from crambe seeds cultivated with phosphorus. <i>European Journal of Lipid Science and Technology</i> , <b>2017</b> , 119, 1700043	3	8

59	Assessment of process variables on the use of macauba pulp oil as feedstock for the continuous production of ethyl esters under pressurized conditions. <i>Brazilian Journal of Chemical Engineering</i> , <b>2017</b> , 34, 831-839	1.7	8
58	Chemical equilibrium of ion exchange in the binary mixture Cu <sup>2+</sup> and Ca <sup>2+</sup> in calcium alginate. <i>Adsorption</i> , <b>2015</b> , 21, 445-458	2.6	7
57	The use of rice and coffee husks for biosorption of U (total), Am, and Cs in radioactive liquid organic waste. <i>Environmental Science and Pollution Research</i> , <b>2020</b> , 27, 36651-36663	5.1	7
56	Optimization of dye incorporation into modified poly(ethylene terephthalate) knitted fabrics by response surface methodology. <i>Dyes and Pigments</i> , <b>2007</b> , 75, 378-384	4.6	7
55	Adsorption of Reactive Blue 5G Dye by Activated Carbon and Pyrolyzed Shale Oil Residue. <i>Adsorption Science and Technology</i> , <b>2007</b> , 25, 741-749	3.6	7
54	Ultrasound-assisted extraction of favela ( <i>Cnidocolus quercifolius</i> ) seed oil using ethanol as a solvent. <i>Journal of Food Processing and Preservation</i> , <b>2021</b> , 45, e15497	2.1	7
53	Crambe grain drying: Evaluation of a linear and double resistance driving force model and energetic performance. <i>Renewable and Sustainable Energy Reviews</i> , <b>2017</b> , 80, 1-8	16.2	6
52	Towards a design of a pressure swing adsorption unit for small scale biogas upgrading at. <i>Energy Procedia</i> , <b>2019</b> , 158, 848-853	2.3	6
51	Supercritical CO <sub>2</sub> extraction of 7-Ethylmyrin from uvaia ( <i>Eugenia pyriformis</i> Cambess.): Effects of pressure and co-solvent addition. <i>Journal of Supercritical Fluids</i> , <b>2019</b> , 153, 104595	4.2	6
50	ADSORPTION OF THE DYE REACTIVE BLUE 5G IN RETORTED SHALE. <i>Brazilian Journal of Chemical Engineering</i> , <b>2015</b> , 32, 269-281	1.7	6
49	Production of linseed diacylglycerol-rich oil by combined glycerolysis and esterification. <i>Industrial Crops and Products</i> , <b>2020</b> , 145, 111937	5.9	6
48	Use of calcium alginate beads and <i>Saccharomyces cerevisiae</i> for biosorption of Am. <i>Journal of Environmental Radioactivity</i> , <b>2020</b> , 223-224, 106399	2.4	6
47	Phenomenological adsorption isotherm for a binary system based on Poisson-Boltzmann equation. <i>Surfaces and Interfaces</i> , <b>2018</b> , 10, 50-57	4.1	6
46	Gastro-resistant controlled release of OTC encapsulated in alginate/chitosan matrix coated with acryl-EZE MP in fluidized bed. <i>Journal of Applied Polymer Science</i> , <b>2014</b> , 131, n/a-n/a	2.9	5
45	Modelling and optimisation of grape seed drying: Equivalence between the lumped and distributed parameter models. <i>Biosystems Engineering</i> , <b>2018</b> , 176, 26-35	4.8	5
44	Production of a synbiotic composed of galacto-oligosaccharides and <i>Saccharomyces boulardii</i> using enzymatic-fermentative method. <i>Food Chemistry</i> , <b>2021</b> , 353, 129486	8.5	5
43	Ag and CuO nanoparticles decorated on graphene oxide/activated carbon as a novel adsorbent for the removal of cephalixin from water. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2021</b> , 627, 127203	5.1	5
42	Experimental and modelling studies of ion exchange equilibria between zeolite NaY and an electrolytic solution of iron. <i>Fluid Phase Equilibria</i> , <b>2014</b> , 372, 76-84	2.5	4

41	Competing Ion Exchange of Zn <sup>2+</sup> and Fe <sup>3+</sup> in NaY Zeolite. <i>Adsorption Science and Technology</i> , <b>2012</b> , 30, 275-291	3.6	4
40	Linear Driving Force Model in Carbon Dioxide Capture by Adsorption. <i>Applied Mechanics and Materials</i> , <b>2016</b> , 830, 38-45	0.3	3
39	EXTRACTION OF BIOACTIVE COMPOUNDS OF LEAVES OF <i>Duguetia furfuracea</i> (ANNONACEAE) USING GREEN AND ORGANIC SOLVENTS. <i>Brazilian Journal of Chemical Engineering</i> , <b>2019</b> , 36, 549-556	1.7	3
38	Steady-state modeling of reactive distillation columns. <i>Acta Scientiarum - Technology</i> , <b>2012</b> , 34,	0.5	3
37	Modelagem do sistema de resfriamento por imersão de carcaças de frangos utilizando redes neurais artificiais. <i>Acta Scientiarum - Technology</i> , <b>2009</b> , 31,	0.5	3
36	Biosorption of nickel(II) ions by using chemically pre-treated <i>Sargassum filipendula</i> biomass in a fixed bed column. <i>World Journal of Microbiology and Biotechnology</i> , <b>2009</b> , 25, 1849-1856	4.4	3
35	Evaluation of supercritical carbon dioxide extraction to obtain bioactive compounds from <i>Vernonia amygdalina</i> Delile leaves. <i>Chemical Industry and Chemical Engineering Quarterly</i> , <b>2020</b> , 26, 113-124	0.7	3
34	Hyaluronic acid incorporation into nanoemulsions containing <i>Pterodon pubescens</i> Benth. Fruit oil for topical drug delivery. <i>Biocatalysis and Agricultural Biotechnology</i> , <b>2021</b> , 32, 101939	4.2	3
33	Study of pyrolysis kinetic of green corn husk. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2021</b> , 143, 3181-3192	4.1	3
32	Numerical methods and initial estimates for the simulation of steady-state reactive distillation columns with an algorithm based on tearing equations methodology. <i>Thermal Science and Engineering Progress</i> , <b>2018</b> , 6, 1-13	3.6	2
31	Hydrolysis of crambe oil by enzymatic catalysis: An evaluation of the operational conditions. <i>Biocatalysis and Biotransformation</i> , <b>2018</b> , 36, 422-435	2.5	2
30	Organic leaching and metal removal with <i>Sargassum filipendula</i> . <i>Acta Scientiarum - Technology</i> , <b>2014</b> , 36, 429	0.5	2
29	Comparison of Phenomenological and Hybrid Models in the Description of the Ion Exchange Process in a Fixed-Bed Column. <i>Separation Science and Technology</i> , <b>2013</b> , 48, 1102-1110	2.5	2
28	Modelagem do efeito do pH na biossorção de metais pela alga marinha <i>Sargassum filipendula</i> . <i>Acta Scientiarum - Technology</i> , <b>2011</b> , 33,	0.5	2
27	Remoção de níquel(II) de soluções aquosas pela biomassa <i>Sargassum filipendula</i> em múltiplos ciclos de sorção-dessorção. <i>Acta Scientiarum - Technology</i> , <b>2009</b> , 31,	0.5	2
26	Zinc(II) desorption by <i>Sargassum filipendula</i> biomass in batch and in fixed-bed column for multiple sorption-regeneration cycles. <i>Water Science and Technology</i> , <b>2009</b> , 60, 357-62	2.2	2
25	The Removal of Fe(III) Ions by Adsorption onto Zeolite Columns. <i>Adsorption Science and Technology</i> , <b>2007</b> , 25, 757-768	3.6	2
24	Modeling the supercritical desorption of orange essential oil from a silica-gel bed. <i>Brazilian Journal of Chemical Engineering</i> , <b>2000</b> , 17, 283-296	1.7	2



23	Adsorption of atrazine from aqueous systems on chemically activated biochar produced from corn straw. <i>Journal of Environmental Chemical Engineering</i> , <b>2022</b> , 10, 107039	6.8	2
22	Effect of ultraviolet radiation on inactivation of microorganisms present in Brazilian diesel fuel. <i>Biofuels, Bioproducts and Biorefining</i> , <b>2020</b> , 14, 1152-1162	5.3	2
21	Techno-economical optimization of uvaia ( <i>Eugenia pyriformis</i> ) extraction using supercritical fluid technology. <i>Journal of Supercritical Fluids</i> , <b>2021</b> , 174, 105239	4.2	2
20	Extracts from red Araçá ( <i>Psidium cattleianum</i> ) fruits: Extraction process, modelling and assessment of the bioactivity potentialities. <i>Journal of Supercritical Fluids</i> , <b>2021</b> , 176, 105278	4.2	2
19	Assessment of pretreatment temperature on the oil extraction from the vinification waste. <i>Journal of Food Processing and Preservation</i> , <b>2018</b> , 42, e13682	2.1	1
18	UV-Irradiated Strain of <i>Acidithiobacillus ferrooxidans</i> Improved Copper Bioleaching in Chalcopyrite. <i>Journal of Environmental Engineering, ASCE</i> , <b>2018</b> , 144, 04018064	2	1
17	The effect of ultrasound on the hydrolysis of soybean oil catalyzed by phospholipase. <i>European Journal of Lipid Science and Technology</i> , <b>2017</b> , 119, 1600154	3	1
16	Improved extraction of bioactive compounds from <i>Monteverdia aquifolia</i> leaves by pressurized-liquid and ultrasound-assisted extraction: Yield and chemical composition. <i>Journal of Supercritical Fluids</i> , <b>2022</b> , 181, 105468	4.2	1
15	Composition and oxidative stability of oils extracted from <i>Zophobas morio</i> and <i>Tenebrio molitor</i> using pressurized n-propane. <i>Journal of Supercritical Fluids</i> , <b>2022</b> , 181, 105504	4.2	1
14	Evaluation of the ethanolic ultrasound-assisted extraction from clove ( <i>Syzygium aromaticum</i> ) leaves and chemical characterization of the extracts. <i>Food Chemistry</i> , <b>2022</b> , 373, 131351	8.5	1
13	Mathematical modeling of supercritical CO <sub>2</sub> extraction of <i>Eugenia pyriformis</i> Cambess. leaves. <i>Chemical Engineering Communications</i> , <b>2020</b> , 1-10	2.2	1
12	Extraction of natural antioxidants from strawberry guava leaf by conventional and non-conventional techniques. <i>Chemical Engineering Communications</i> , <b>2021</b> , 208, 1131-1142	2.2	1
11	Oil Extraction from <i>Rana catesbeiana</i> by Supercritical Carbon Dioxide and Mechanical Pressing. <i>JAOCs, Journal of the American Oil Chemists Society</i> , <b>2018</b> , 95, 1575-1585	1.8	1
10	Hydroisomerization of n-hexadecane under mesoporous molecular sieve Pt/Al-SBA-15. <i>Molecular Catalysis</i> , <b>2021</b> , 512, 111737	3.3	1
9	Guariroba ( <i>Syagrus oleracea</i> ) kernel oil extraction using supercritical CO <sub>2</sub> and compressed propane and its characterization. <i>Journal of Supercritical Fluids</i> , <b>2021</b> , 177, 105326	4.2	1
8	Ultraviolet radiation as an antimicrobial treatment in Brazilian diesel oil: Effect of biodiesel, sulfur, and water contents. <i>Fuel</i> , <b>2022</b> , 308, 122076	7.1	1
7	Prediction of ion exchange equilibrium of (Cu <sup>2+</sup> -Na <sup>+</sup> -Zn <sup>2+</sup> ) ternary system using artificial neural networks. <i>Adsorption</i> , <b>2015</b> , 21, 17-23	2.6	0
6	Biosorption of uranium from aqueous solutions by <i>Azolla</i> sp. and <i>Limnobium laevigatum</i> .. <i>Environmental Science and Pollution Research</i> , <b>2022</b> , 1	5.1	0

5	Catalyst-free production of fatty acid ethyl esters (FAEE) from macauba pulp oil. <i>Grasas Y Aceites</i> , <b>2021</b> , 72, e398	1.3	0
4	ATIVIDADE IMUNOMODULATÓRIA DE EXTRATOS DE UVAIA (EUGENIA PYRIFORMIS) SOBRE MACRÓBAGOS MURINOS. <i>Brazilian Journal of Development</i> , <b>2020</b> , 6, 57178-57184	0	
3	GELATIN DRYING PROCESS. <i>Brazilian Journal of Chemical Engineering</i> , <b>2001</b> , 18, 467-478	1.7	
2	An analysis about analytical calculation of volume roots from cubic equations of state. <i>AIChE Journal</i> , <b>2021</b> , 67, e17273	3.6	
1	Briquette production from a mixture of biomass: poultry slaughterhouse sludge and sawdust.. <i>Environmental Science and Pollution Research</i> , <b>2022</b> , 1	5.1	