

# Edson Ant4nio Da Silva

## List of Publications by Year in descending order

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165  
papers

4,032  
citations

117625

34  
h-index

155660

55  
g-index

166  
all docs

166  
docs citations

166  
times ranked

4270  
citing authors

#	ARTICLE	IF	CITATIONS
1	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> , 2006, 30, 184-191.	3.6	202
2	A comparative study for the ion exchange of Fe(III) and Zn(II) on zeolite NaY. <i>Journal of Hazardous Materials</i> , 2009, 161, 1404-1412.	12.4	124
3	Extraction of sesame seed ( <i>Sesamun indicum</i> L.) oil using compressed propane and supercritical carbon dioxide. <i>Journal of Supercritical Fluids</i> , 2010, 52, 56-61.	3.2	120
4	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> , 2017, 150, 58-64.	9.3	119
5	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> , 2007, 140, 211-220.	12.4	101
6	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> , 2011, 168, 262-268.	12.7	98
7	Equilibrium study of the binary mixture of cadmium and zinc ions biosorption by the <i>Sargassum filipendula</i> species using adsorption isotherms models and neural network. <i>Biochemical Engineering Journal</i> , 2007, 34, 136-146.	3.6	95
8	Extraction of canola seed ( <i>Brassica napus</i> ) oil using compressed propane and supercritical carbon dioxide. <i>Journal of Food Engineering</i> , 2011, 102, 189-196.	5.2	94
9	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> , 2011, 102, 4610-4617.	9.6	86
10	Treatment of brewery wastewater and its use for biological production of methane and hydrogen. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 26243-26256.	7.1	84
11	Adsorption and desorption of binary mixtures of copper and mercury ions on natural and crosslinked chitosan membranes. <i>Adsorption</i> , 2007, 13, 603-611.	3.0	82
12	Supercritical extraction process and phase equilibrium of Candeia ( <i>Eremanthus erythropappus</i> ) oil using supercritical carbon dioxide. <i>Journal of Supercritical Fluids</i> , 2008, 47, 182-187.	3.2	79
13	Application of Acai Stalks as Biosorbents for the Removal of the Dye Procion Blue MX-R from Aqueous Solution. <i>Separation Science and Technology</i> , 2012, 47, 513-526.	2.5	79
14	Removal of Cr(III) in the fixed bed column and batch reactors using as adsorbent zeolite NaX. <i>Chemical Engineering Science</i> , 2004, 59, 5959-5966.	3.8	73
15	Modeling of copper(II) biosorption by marine alga <i>Sargassum</i> sp. in fixed-bed column. <i>Process Biochemistry</i> , 2002, 38, 791-799.	3.7	71
16	Extraction of crambe seed oil using subcritical propane: Kinetics, characterization and modeling. <i>Journal of Supercritical Fluids</i> , 2015, 104, 54-61.	3.2	70
17	Pressure Swing Adsorption for Biogas Upgrading with Carbon Molecular Sieve. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 8057-8067.	3.7	68
18	Screening, optimization and kinetics of <i>Jatropha curcas</i> oil transesterification with heterogeneous catalysts. <i>Renewable Energy</i> , 2011, 36, 726-731.	8.9	61

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19	Nickel(II) and zinc(II) removal using Amberlite IR-120 resin: Ion exchange equilibrium and kinetics. <i>Chemical Engineering Journal</i> , 2013, 221, 426-435.	12.7	59
20	Effect of solution pH and influence of water hardness on caffeine adsorption onto activated carbons. <i>Canadian Journal of Chemical Engineering</i> , 2015, 93, 68-77.	1.7	56
21	Extraction of palm oil using propane, ethanol and its mixtures as compressed solvent. <i>Journal of Supercritical Fluids</i> , 2013, 81, 245-253.	3.2	55
22	Prediction of the copper (II) ions dynamic removal from a medium by using mathematical models with analytical solution. <i>Journal of Hazardous Materials</i> , 2008, 152, 366-372.	12.4	54
23	Kinetic studies of thermal decomposition of sugarcane bagasse and cassava bagasse. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016, 125, 437-445.	3.6	54
24	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> , 2019, 143, 313-320.	3.2	51
25	Enzymatic catalyzed palm oil hydrolysis under ultrasound irradiation: Diacylglycerol synthesis. <i>Ultrasonics Sonochemistry</i> , 2013, 20, 1002-1007.	8.2	49
26	Compressed n-propane extraction of lipids and bioactive compounds from <i>Perilla</i> ( <i>Perilla frutescens</i> ). <i>Journal of Supercritical Fluids</i> , 2015, 102, 1-8.	3.2	46
27	H <sub>2</sub> S adsorption on NaY zeolite. <i>Microporous and Mesoporous Materials</i> , 2019, 284, 247-257.	4.4	46
28	Copper and nickel competitive biosorption simulation from single and binary systems by <i>Sargassum filipendula</i> . <i>Chemical Engineering Journal</i> , 2012, 184, 16-22.	12.7	45
29	Biosorption of Chromium(III) by Biomass of Seaweed <i>Sargassum</i> sp. in a Fixed-Bed Column. <i>Adsorption</i> , 2004, 10, 129-138.	3.0	44
30	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> , 2019, 32, 100904.	5.6	43
31	Oil extraction from macauba pulp using compressed propane. <i>Journal of Supercritical Fluids</i> , 2017, 126, 72-78.	3.2	41
32	Removal of Cr <sup>3+</sup> in fixed bed using zeolite NaY. <i>Chemical Engineering Journal</i> , 2006, 117, 253-261.	12.7	38
33	Production of biohydrogen from brewery wastewater using <i>Klebsiella pneumoniae</i> isolated from the environment. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 4276-4283.	7.1	37
34	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> , 2019, 150, 30-39.	3.2	35
35	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> , 2017, 128, 323-330.	3.2	33
36	Breakthrough curves for oleic acid removal from ethanolic solutions using a strong anion exchange resin. <i>Separation and Purification Technology</i> , 2009, 69, 1-6.	7.9	31

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37	Adsorption of turquoise blue QG reactive dye on commercial activated carbon in batch reactor: kinetic and equilibrium studies. Brazilian Journal of Chemical Engineering, 2010, 27, 289-298.	1.3	31
38	Application of the mass action law to describe ion exchange equilibrium in a fixed-bed column. Chemical Engineering Journal, 2011, 172, 312-320.	12.7	31
39	Chemical composition, antioxidant activity and thermal analysis of oil extracted from favela () Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 147 Td	5.2	31
40	Use of supercritical CO <sub>2</sub> and ultrasound-assisted extractions to obtain $\alpha$ -tocopherol-rich extracts from uvaia leaves ( <i>Eugenia pyriformis</i> Cambess.). Journal of Supercritical Fluids, 2018, 137, 1-8.	3.2	31
41	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. Journal of Cleaner Production, 2018, 185, 860-869.	9.3	30
42	Production of biohydrogen by an anaerobic digestion process using the residual glycerol from biodiesel production as additive to cassava wastewater. Journal of Cleaner Production, 2020, 258, 120833.	9.3	30
43	Kinetics of Lead Bioaccumulation from a Hydroponic Medium by Aquatic Macrophytes Pistia stratiotes. Water, Air, and Soil Pollution, 2009, 203, 29-37.	2.4	29
44	Supercritical extraction of <i>Eugenia involucrata</i> leaves: Influence of operating conditions on yield and $\alpha$ -tocopherol content. Journal of Supercritical Fluids, 2019, 143, 55-63.	3.2	29
45	Chromium ions phytoaccumulation by three floating aquatic macrophytes from a nutrient medium. World Journal of Microbiology and Biotechnology, 2008, 24, 3063-3070.	3.6	28
46	Biosorption of binary mixtures of Cr(III) and Cu(II) ions by <i>Sargassum</i> sp. Brazilian Journal of Chemical Engineering, 2003, 20, 213-227.	1.3	28
47	Reactive Blue 5G Adsorption onto Activated Carbon: Kinetics and Equilibrium. Journal of Chemical & Engineering Data, 2013, 58, 106-114.	1.9	27
48	Optimization of multiple-effect evaporation in the pulp and paper industry using response surface methodology. Applied Thermal Engineering, 2016, 95, 18-23.	6.0	27
49	Extraction of oil and bioactive compounds from <i>Araucaria angustifolia</i> (Bertol.) Kuntze using subcritical n-propane and organic solvents. Journal of Supercritical Fluids, 2016, 112, 14-21.	3.2	27
50	Study of candeia oil extraction using pressurized fluids and purification by adsorption process. Journal of Supercritical Fluids, 2014, 92, 177-182.	3.2	26
51	Mathematical modeling of supercritical CO <sub>2</sub> extraction of hops ( <i>Humulus lupulus</i> L.). Journal of Supercritical Fluids, 2017, 130, 347-356.	3.2	26
52	Extraction and assessment of oil and bioactive compounds from cashew nut ( <i>Anacardium</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 147 Td	3.2	26
53	Continuous catalyst-free production of esters from <i>Jatropha curcas</i> L. oil under supercritical ethanol. Brazilian Journal of Chemical Engineering, 2014, 31, 727-735.	1.3	25
54	Supercritical CO <sub>2</sub> oil extraction from <i>Bauhinia forficata</i> link subsp. <i>pruinosa</i> leaves: Composition, antioxidant activity and mathematical modeling. Journal of Supercritical Fluids, 2019, 153, 104588.	3.2	25

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55	Pressurized liquid and ultrasound-assisted extraction of $\alpha$ -bisabolol from candeia ( <i>Eremanthus</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock 10	5.2	25
56	Comparing Conventional and Supercritical Extraction of ( $\alpha$ )-Mammea A/BB and the Antioxidant Activity of <i>Calophyllum brasiliense</i> Extracts. <i>Molecules</i> , 2013, 18, 6215-6229.	3.8	24
57	Supercritical CO <sub>2</sub> extraction of favela ( <i>Cnidioscolus quercifolius</i> ) seed oil: Yield, composition, antioxidant activity, and mathematical modeling. <i>Journal of Supercritical Fluids</i> , 2020, 165, 104981.	3.2	24
58	Briquettes production for use as power source for combustion using charcoal thin waste and sanitary sewage sludge. <i>Environmental Science and Pollution Research</i> , 2017, 24, 10778-10785.	5.3	23
59	Extraction of oil from <i>Elaeis</i> spp. using subcritical propane and cosolvent: Experimental and modeling. <i>Journal of Supercritical Fluids</i> , 2018, 133, 401-410.	3.2	23
60	Improvement of biohydrogen production from brewery wastewater: Evaluation of inocula, support and reactor. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 5216-5226.	7.1	23
61	Debye-Hückel approximation for simplification of ions adsorption equilibrium model based on Poisson-Boltzmann equation. <i>Surfaces and Interfaces</i> , 2018, 10, 144-148.	3.0	22
62	Uranium biosorption by <i>Lemna</i> sp. and <i>Pistia stratiotes</i> . <i>Journal of Environmental Radioactivity</i> , 2019, 203, 179-186.	1.7	22
63	Evaluation of favela seed oil extraction with alternative solvents and pressurized-liquid ethanol. <i>Journal of Supercritical Fluids</i> , 2021, 169, 105125.	3.2	22
64	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> , 2016, 114, 1-8.	3.2	21
65	Phenomenological determination of mass transfer parameters of oil extraction from grape biomass waste. <i>Journal of Cleaner Production</i> , 2018, 176, 130-139.	9.3	21
66	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> , 2019, 26, 11100-11112.	5.3	21
67	Mass Transfer Mechanism of Ion Exchange in Fixed Bed Columns. <i>Journal of Chemical &amp; Engineering Data</i> , 2011, 56, 375-382.	1.9	20
68	Towards a design of a pressure swing adsorption unit for small scale biogas upgrading at. <i>Energy Procedia</i> , 2019, 158, 848-853.	1.8	19
69	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> , 2020, 203, 111763.	3.8	19
70	Adsorption of atrazine from aqueous systems on chemically activated biochar produced from corn straw. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107039.	6.7	19
71	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> , 2010, 213, 15-26.	2.4	18
72	Effect of Additives in the Reaction Medium on Noncatalytic Ester Production from Used Frying Oil with Supercritical Ethanol. <i>Energy &amp; Fuels</i> , 2014, 28, 3122-3128.	5.1	18

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73	Ag and CuO nanoparticles decorated on graphene oxide/activated carbon as a novel adsorbent for the removal of cephalexin from water. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 627, 127203.	4.7	18
74	Equilibrium modeling of ion adsorption based on Poisson-Boltzmann equation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 468, 159-166.	4.7	17
75	Optimization of ultrasound-assisted extraction of bioactive compounds from <i>B. forficata</i> subsp. <i>Pruinosa</i> . <i>Canadian Journal of Chemical Engineering</i> , 2020, 98, 2214-2226.	1.7	17
76	Ultrasound-assisted extraction of favela ( <i>Cnidocolus quercifolius</i> ) seed oil using ethanol as a solvent. <i>Journal of Food Processing and Preservation</i> , 2021, 45, e15497.	2.0	17
77	PIXE analysis of chromium phytoaccumulation by the aquatic macrophytes <i>Eichhornia crassipes</i> . <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2009, 267, 1153-1157.	1.4	16
78	Comparing models to Neumann and Dirichlet conditions in grape seed drying. <i>Applied Thermal Engineering</i> , 2016, 93, 865-871.	6.0	16
79	Ion Exchange Equilibrium Prediction for the System $Cu^{2+}-Zn^{2+}-Na^{+}$ . <i>Journal of Chemical &amp; Engineering Data</i> , 2010, 55, 1333-1341.	1.9	15
80	Mathematical modeling of a ternary $Cu-Zn-Na$ ion exchange system in a fixed-bed column using Amberlite IR 120. <i>Chemical Engineering Journal</i> , 2012, 189-190, 49-56.	12.7	15
81	Evaluation of a concentrated parameters mathematical model applied to drying of yerba mate leaves with variable mass transfer coefficient. <i>Applied Thermal Engineering</i> , 2016, 105, 483-489.	6.0	15
82	Chromium adsorption in olive stone activated carbon. <i>Adsorption</i> , 2006, 12, 155-162.	3.0	14
83	Use of castor bean seeds as lipase source for hydrolysis of crambe oil. <i>Industrial Crops and Products</i> , 2018, 124, 254-264.	5.2	14
84	Study of pyrolysis kinetic of green corn husk. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 143, 3181-3192.	3.6	14
85	Evaluation of the ethanolic ultrasound-assisted extraction from clove ( <i>Syzygium aromaticum</i> ) leaves and chemical characterization of the extracts. <i>Food Chemistry</i> , 2022, 373, 131351.	8.2	14
86	Continuous Catalyst-Free Esterification of Oleic Acid in Compressed Ethanol. <i>International Journal of Chemical Engineering</i> , 2014, 2014, 1-5.	2.4	13
87	Crambe grain drying: Evaluation of a linear and double resistance driving force model and energetic performance. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 80, 1-8.	16.4	13
88	Techno-economical optimization of uvaia ( <i>Eugenia pyriformis</i> ) extraction using supercritical fluid technology. <i>Journal of Supercritical Fluids</i> , 2021, 174, 105239.	3.2	13
89	Dynamic isotherms of dye in activated carbon. <i>Materials Research</i> , 2008, 11, 365-369.	1.3	13
90	Adsorption of Reactive Blue 5G Dye by Activated Carbon and Pyrolyzed Shale Oil Residue. <i>Adsorption Science and Technology</i> , 2007, 25, 741-749.	3.2	12

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91	Thermophysical properties of biodiesel and related systems: Low-pressure vapor+liquid equilibrium of methyl/ethyl soybean biodiesel. <i>Journal of Chemical Thermodynamics</i> , 2013, 64, 65-70.	2.0	12
92	Biosorption study of Ni <sup>2+</sup> and Cr <sup>3+</sup> by <i>Sargassum filipendula</i> : kinetics and equilibrium. <i>Brazilian Journal of Chemical Engineering</i> , 2014, 31, 211-227.	1.3	12
93	Effect of the chemical composition of smectites used in KF/Clay catalysts on soybean oil transesterification into methyl esters. <i>Applied Clay Science</i> , 2014, 102, 121-127.	5.2	12
94	Application of the coconut fiber in radioactive liquid waste treatment. <i>International Journal of Environmental Science and Technology</i> , 2018, 15, 1629-1640.	3.5	12
95	Supercritical CO <sub>2</sub> extraction of $\beta$ -amyryn from uvaia ( <i>Eugenia pyriformis</i> Cambess.): Effects of pressure and co-solvent addition. <i>Journal of Supercritical Fluids</i> , 2019, 153, 104595.	3.2	12
96	Extraction of <i>Morus alba</i> leaves using supercritical CO <sub>2</sub> and ultrasound-assisted solvent: Evaluation of $\beta$ -sitosterol content. <i>Journal of Supercritical Fluids</i> , 2020, 159, 104752.	3.2	12
97	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> , 2022, 181, 105468.	3.2	12
98	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> , 2010, 28, 449-464.	3.2	11
99	Mathematical modeling of a convective textile drying process. <i>Brazilian Journal of Chemical Engineering</i> , 2014, 31, 959-965.	1.3	11
100	Production of linseed diacylglycerol-rich oil by combined glycerolysis and esterification. <i>Industrial Crops and Products</i> , 2020, 145, 111937.	5.2	11
101	The use of rice and coffee husks for biosorption of U (total), <sup>241</sup> Am, and <sup>137</sup> Cs in radioactive liquid organic waste. <i>Environmental Science and Pollution Research</i> , 2020, 27, 36651-36663.	5.3	11
102	Production of a synbiotic composed of galacto-oligosaccharides and <i>Saccharomyces boulardii</i> using enzymatic-fermentative method. <i>Food Chemistry</i> , 2021, 353, 129486.	8.2	11
103	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> , 2017, 119, 1700043.	1.5	10
104	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> , 2017, 34, 831-839.	1.3	10
105	Extraction of natural antioxidants from strawberry guava leaf by conventional and non-conventional techniques. <i>Chemical Engineering Communications</i> , 2021, 208, 1131-1142.	2.6	10
106	Gastroresistant controlled release of OTC encapsulated in alginate/chitosan matrix coated with acrylate MP in fluidized bed. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	2.6	9
107	Chemical equilibrium of ion exchange in the binary mixture Cu <sup>2+</sup> and Ca <sup>2+</sup> in calcium alginate. <i>Adsorption</i> , 2015, 21, 445-458.	3.0	9
108	Modelagem do sistema de resfriamento por imersão de carcaças de frangos utilizando redes neurais artificiais. <i>Acta Scientiarum - Technology</i> , 2009, 31, .	0.4	8



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109	Modelling and optimisation of grape seed drying: Equivalence between the lumped and distributed parameter models. <i>Biosystems Engineering</i> , 2018, 176, 26-35.	4.3	8
110	Use of calcium alginate beads and <i>Saccharomyces cerevisiae</i> for biosorption of <sup>241</sup> Am. <i>Journal of Environmental Radioactivity</i> , 2020, 223-224, 106399.	1.7	8
111	Optimization of dye incorporation into modified poly(ethylene terephthalate) knitted fabrics by response surface methodology. <i>Dyes and Pigments</i> , 2007, 75, 378-384.	3.7	7
112	Phenomenological adsorption isotherm for a binary system based on Poisson-Boltzmann equation. <i>Surfaces and Interfaces</i> , 2018, 10, 50-57.	3.0	7
113	EXTRACTION OF BIOACTIVE COMPOUNDS OF LEAVES OF <i>Duguetia furfuracea</i> (ANNONACEAE) USING GREEN AND ORGANIC SOLVENTS. <i>Brazilian Journal of Chemical Engineering</i> , 2019, 36, 549-556.	1.3	7
114	The Removal of Fe(III) Ions by Adsorption onto Zeolite Columns. <i>Adsorption Science and Technology</i> , 2007, 25, 757-768.	3.2	6
115	ADSORPTION OF THE DYE REACTIVE BLUE 5G IN RETORTED SHALE. <i>Brazilian Journal of Chemical Engineering</i> , 2015, 32, 269-281.	1.3	6
116	Extracts from red <i>Araçá</i> ( <i>Psidium cattleianum</i> ) fruits: Extraction process, modelling and assessment of the bioactivity potentialities. <i>Journal of Supercritical Fluids</i> , 2021, 176, 105278.	3.2	6
117	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> , 2020, 26, 113-124.	0.7	6
118	Competing Ion Exchange of Zn <sup>2+</sup> and Fe <sup>3+</sup> in NaY Zeolite. <i>Adsorption Science and Technology</i> , 2012, 30, 275-291.	3.2	5
119	Steady-state modeling of reactive distillation columns. <i>Acta Scientiarum - Technology</i> , 2012, 34, .	0.4	5
120	Experimental and modelling studies of ion exchange equilibria between zeolite NaY and an electrolytic solution of iron. <i>Fluid Phase Equilibria</i> , 2014, 372, 76-84.	2.5	5
121	Hyaluronic acid incorporation into nanoemulsions containing <i>Pterodon pubescens</i> Benth. Fruit oil for topical drug delivery. <i>Biocatalysis and Agricultural Biotechnology</i> , 2021, 32, 101939.	3.1	5
122	Hydroisomerization of n-hexadecane under mesoporous molecular sieve Pt/Al-SBA-15. <i>Molecular Catalysis</i> , 2021, 512, 111737.	2.0	5
123	Remoção de níquel(II) de soluções aquosas pela biomassa <i>Sargassum filipendula</i> em múltiplos ciclos de sorção-desorção. <i>Acta Scientiarum - Technology</i> , 2009, 31, .	0.4	4
124	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> , 2009, 25, 1849-1856.	3.6	4
125	Organic leaching and metal removal with <i>Sargassum filipendula</i> . <i>Acta Scientiarum - Technology</i> , 2014, 36, 429.	0.4	4
126	Linear Driving Force Model in Carbon Dioxide Capture by Adsorption. <i>Applied Mechanics and Materials</i> , 0, 830, 38-45.	0.2	4



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127	Multi-enzymatic recovery of fungal cellulases ( <i>Aspergillus niger</i> ) through solid-state fermentation of sugarcane bagasse. Canadian Journal of Chemical Engineering, 2022, 100, 1930-1940.	1.7	4
128	Guariroba ( <i>Syagrus oleracea</i> ) kernel oil extraction using supercritical CO <sub>2</sub> and compressed propane and its characterization. Journal of Supercritical Fluids, 2021, 177, 105326.	3.2	4
129	Biossorção de níquel e cromo de um efluente de galvanoplastia utilizando alga marinha pré-tratada em coluna. Acta Scientiarum - Technology, 2009, 31, .	0.4	3
130	Modelagem do efeito do pH na biossorção de metais pela alga marinha <i>Sargassum filipendula</i> . Acta Scientiarum - Technology, 2011, 33, .	0.4	3
131	Modeling the supercritical desorption of orange essential oil from a silica-gel bed. Brazilian Journal of Chemical Engineering, 2000, 17, 283-296.	1.3	3
132	Composition and oxidative stability of oils extracted from <i>Zophobas morio</i> and <i>Tenebrio molitor</i> using pressurized n-propane. Journal of Supercritical Fluids, 2022, 181, 105504.	3.2	3
133	Zinc(II) desorption by <i>Sargassum filipendula</i> biomass in batch and in fixed-bed column for multiple sorption-regeneration cycles. Water Science and Technology, 2009, 60, 357-362.	2.5	2
134	Comparison of Phenomenological and Hybrid Models in the Description of the Ion Exchange Process in a Fixed-Bed Column. Separation Science and Technology, 2013, 48, 1102-1110.	2.5	2
135	Numerical methods and initial estimates for the simulation of steady-state reactive distillation columns with an algorithm based on tearing equations methodology. Thermal Science and Engineering Progress, 2018, 6, 1-13.	2.7	2
136	Hydrolysis of crambe oil by enzymatic catalysis: An evaluation of the operational conditions. Biocatalysis and Biotransformation, 2018, 36, 422-435.	2.0	2
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