Pedro Mc Simoes

List of Publications by Year in descending order

62 papers	1,875 citations	201674 27 h-index	276875 41 g-index
62 all docs	62 docs citations	62 times ranked	2157 citing authors

#	Article	IF	Citations
1	Supercritical fluid extraction of lipids from spent coffee grounds. Journal of Supercritical Fluids, 2009, 51, 159-166.	3.2	156
2	Production of polyhydroxyalkanoates from spent coffee grounds oil obtained by supercritical fluid extraction technology. Bioresource Technology, 2014, 157, 360-363.	9.6	110
3	Poly(vinyl alcohol)/chitosan asymmetrical membranes: Highly controlled morphology toward the ideal wound dressing. Journal of Membrane Science, 2014, 469, 262-271.	8.2	106
4	The green generation of sunscreens: Using coffee industrial sub-products. Industrial Crops and Products, 2016, 80, 93-100.	5.2	74
5	Economic analysis of a plant for biodiesel production from waste cooking oil via enzymatic transesterification using supercritical carbon dioxide. Journal of Supercritical Fluids, 2014, 85, 31-40.	3.2	72
6	Phase equilibria of natural flavours and supercritical solvents. Fluid Phase Equilibria, 1989, 52, 357-364.	2.5	67
7	From coffee industry waste materials to skinâ€friendly products with improved skin fat levels. European Journal of Lipid Science and Technology, 2013, 115, 330-336.	1.5	66
8	Computational-fluid-dynamics study of a Kenics static mixer as a heat exchanger for supercritical carbon dioxide. Journal of Supercritical Fluids, 2010, 55, 107-115.	3.2	58
9	Synthesis of fatty acid methyl esters via direct transesterification with methanol/carbon dioxide mixtures from spent coffee grounds feedstock. Green Chemistry, 2011, 13, 1196.	9.0	57
10	Application of CFD in the study of supercritical fluid extraction with structured packing: Wet pressure drop calculations. Journal of Supercritical Fluids, 2009, 50, 61-68.	3.2	56
11	Supercritical Fluid Extraction of Eucalyptus globulus Barkâ€”A Promising Approach for Triterpenoid Production. International Journal of Molecular Sciences, 2012, 13, 7648-7662.	4.1	49
12	Valorization of white wine grape pomace through application of subcritical water: Analysis of extraction, hydrolysis, and biological activity of the extracts obtained. Journal of Supercritical Fluids, 2017, 128, 138-144.	3.2	46
13	Application of CFD in the study of supercritical fluid extraction with structured packing: Dry pressure drop calculations. Journal of Supercritical Fluids, 2008, 47, 17-24.	3.2	45
14	Continuous enzymatic production of biodiesel from virgin and waste sunflower oil in supercritical carbon dioxide. Journal of Supercritical Fluids, 2011, 56, 259-264.	3.2	44
15	Supercritical CO2 and subcritical water technologies for the production of bioactive extracts from sardine (Sardina pilchardus) waste. Journal of Supercritical Fluids, 2020, 164, 104943.	3.2	41
16	Fractionation of Lipids in a Static Mixer and Packed Column Using Supercritical Carbon Dioxide. Industrial & Engineering Chemistry Research, 2000, 39, 4820-4827.	3.7	38
17	Supercritical carbon dioxide-based integrated continuous extraction of oil from chicken feather meal, and its conversion to biodiesel in a packed-bed enzymatic reactor, at pilot scale. Fuel, 2015, 153, 135-142.	6.4	38
18	Supercritical fluid extraction of lipids from the heterotrophic microalga Crypthecodinium cohnii. Engineering in Life Sciences, 2010, 10, 158-164.	3.6	36

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19	Semi-continuous extraction/hydrolysis of spent coffee grounds with subcritical water. Journal of Industrial and Engineering Chemistry, 2019, 72, 453-456.	5.8	36
20	Fractionation technologies for liquid mixtures using dense carbon dioxide. Journal of Supercritical Fluids, 2016, 107, 321-348.	3.2	35
21	Converting Spent Coffee Grounds into Bioactive Extracts with Potential Skin Antiaging and Lightening Effects. ACS Sustainable Chemistry and Engineering, 2018, 6, 6289-6295.	6.7	35
22	An apparatus for high-pressure VLE measurements using a static mixer. Results for (CO2+limonene+citral) and (CO2+limonene+linalool). Journal of Supercritical Fluids, 2003, 25, 7-17.	3.2	33
23	Development of Ion-JellyÂ® membranes. Separation and Purification Technology, 2013, 106, 22-31.	7.9	33
24	Fractionation of Edible Oil Model Mixtures by Supercritical Carbon Dioxide in a Packed Column. Part I:Â Experimental Results. Industrial & Engineering Chemistry Research, 2001, 40, 1706-1711.	3.7	31
25	Fractionation of red wine grape pomace by subcritical water extraction/hydrolysis. Journal of Supercritical Fluids, 2020, 160, 104793.	3.2	31
26	Recovery of Wine-Must Aroma Compounds by Supercritical CO2. Food and Bioprocess Technology, 2008, 1, 74-81.	4.7	30
27	Supported Ionic Liquid Membranes and Ion-JellyÂ® Membranes with [BMIM][DCA]: Comparison of Its Performance for CO2 Separation. Membranes, 2015, 5, 13-21.	3.0	29
28	Mass Transfer in Countercurrent Packed Columns: Application to Supercritical CO2 Extraction of Terpenes. Industrial & Engineering Chemistry Research, 1995, 34, 613-618.	3.7	27
29	Supercritical carbon dioxide fractionation of the model mixture squalene/oleic acid in a membrane contactor. Separation and Purification Technology, 2008, 59, 231-237.	7.9	26
30	Development and characterization of a thermoresponsive polysulfone membrane using an environmental friendly technology. Green Chemistry, 2009, 11, 638.	9.0	24
31	Phase equilibria of the ternary system methyl oleate/squalene/carbon dioxide at high pressure conditions. Journal of Supercritical Fluids, 2004, 29, 77-85.	3.2	23
32	Fractionation of Edible Oil Model Mixtures by Supercritical Carbon Dioxide in a Packed Column. 2. A Mass-Transfer Study. Industrial & Engineering Chemistry Research, 2002, 41, 2305-2315.	3.7	21
33	Multi-Step Subcritical Water Extracts of Fucus vesiculosus L. and Codium tomentosum Stackhouse: Composition, Health-Benefits and Safety. Processes, 2021, 9, 893.	2.8	21
34	Subcritical Water Extraction and Hydrolysis of Cod (Gadus morhua) Frames to Produce Bioactive Protein Extracts. Foods, 2021, 10, 1222.	4.3	20
35	Dynamic model of a countercurrent packed column operating at high pressure conditions. Journal of Supercritical Fluids, 2004, 32, 183-192.	3.2	19
36	Hydrodynamics and mass transfer of a static mixer at high pressure conditions. Chemical Engineering and Processing: Process Intensification, 2006, 45, 224-231.	3.6	18

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37	Solubility of Polar and Nonpolar Aromatic Molecules in Subcritical Water: The Role of the Dielectric Constant. Journal of Chemical Theory and Computation, 2019, 15, 6277-6293.	5.3	18
38	Static mixers as heat exchangers in supercritical fluid extraction processes. Journal of Supercritical Fluids, 2008, 43, 477-483.	3.2	17
39	Dynamic model of a supercritical carbon dioxide heat exchanger. Journal of Supercritical Fluids, 2005, 35, 167-173.	3.2	16
40	Quality assessment of refined olive oils by gas extraction. Journal of Supercritical Fluids, 1998, 13, 337-341.	3.2	15
41	Fractionation of Lipid Mixtures by Subcritical R134a in a Packed Column. Industrial & Engineering Chemistry Research, 2002, 41, 267-276.	3.7	14
42	Non-isothermal dynamic model of a supercritical fluid extraction packed column. Journal of Supercritical Fluids, 2007, 41, 20-30.	3.2	14
43	Interfacial tension of edible oils in supercritical carbon dioxide. European Journal of Lipid Science and Technology, 2000, 102, 263-265.	1.5	12
44	Effect of reactor configuration on the subcritical water hydrolysis of recycled paper mill sludge. Journal of Analytical and Applied Pyrolysis, 2017, 127, 68-74.	5.5	12
45	Valorization of Cork Using Subcritical Water. Molecules, 2020, 25, 4695.	3.8	11
46	Screening of ionic liquids as promising separation agents of oil mixtures for application in membranes. Separation and Purification Technology, 2010, 76, 84-88.	7.9	10
47	Separation of free fatty acids from deodorizer distillates using choline hydrogen carbonate and supercritical carbon dioxide. Separation and Purification Technology, 2014, 131, 14-18.	7.9	10
48	High-Pressure Phase Equilibria of the Ternary System Oleic Acid + Squalene + Carbon Dioxide. Journal of Chemical & Engineering Data, 2007, 52, 566-570.	1.9	9
49	Supercritical CO2 extraction of bioactive lipids from canned sardine waste streams. Journal of CO2 Utilization, 2021, 43, 101359.	6.8	9
50	Task specific ionic liquids as polarity shifting additives of common organic solvents. New Journal of Chemistry, 2014, 38, 5559-5565.	2.8	8
51	High pressure vaporâ€“liquid equilibrium for the ternary system ethanol/(Â±)-menthol/carbon dioxide. Journal of Supercritical Fluids, 2014, 92, 282-287.	3.2	7
52	Dynamic model of a supercritical fluid extraction plant. AICHE Journal, 2007, 53, 825-837.	3.6	6
53	Modelling and Simulation of a Complete Supercritical Fluid Extraction Plant with Countercurrent Fractionation Column. Separation Science and Technology, 2011, 46, 2088-2098.	2.5	6
54	Evaluation of the quality of coffee extracts concentrated by osmotic evaporation. Journal of Food Engineering, 2018, 222, 178-184.	5.2	6

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55	Evaluating the Presence of Lycopene-Enriched Extracts from Tomato on Topical Emulsions: Physico-Chemical Characterization and Sensory Analysis. Applied Sciences (Switzerland), 2021, 11, 5120.	2.5	6
56	Evaluation of the Biological Potential of Himanthalia elongata (L.) S.F.Gray and Eisenia bicyclis (Kjellman) Setchell Subcritical Water Extracts. Foods, 2022, 11, 746.	4.3	6
57	Ternary phase equilibria of ethene + cineole + limonene at 288 and 298 K and pressures to 7 MPa. Journal of Supercritical Fluids, 1994, 7, 101-106.	3.2	4
58	Scale-up of a supercritical extraction unit for the deacidification of olive oil. Process Technol, 1996, , 487-492.	0.1	2
59	Studies of the Influence in Acetonitrile Polarity Using Imidazolium Ionic Liquids as Additives. Journal of Chemical & Engineering Data, 2013, 58, 1449-1453.	1.9	2
60	White wine grape pomace as a suitable carbon source for lipid and carotenoid production by fructophilic Rhodorotula babjevae. Journal of Applied Microbiology, 2022, 133, 656-664.	3.1	2
61	Dynamic model of a countercurrent packed column operating at high pressure conditions. Journal of Supercritical Fluids, 2004, 32, 183-183.	3.2	1
62	Phase equilibrium data needs for the design of supercritical fluid extraction columns. Pure and Applied Chemistry, 1999, 71, 1301-1306.	1.9	1