Elisabeth Badens

List of Publications by Year
in descending order

34 papers	1,059 citations	430874 18 h-index	414414 32 g-index
36 all docs	36 docs citations	36 times ranked	1315 citing authors

#	Article	IF	Citations
1	Supercritical CO2 extraction of neutral lipids from microalgae: Experiments and modelling. Journal of Supercritical Fluids, 2013, 77, 7-16.	3.2	112
2	Supercritical Carbon Dioxide Extraction of Molecules of Interest from Microalgae and Seaweeds. Industrial & Engineering Chemistry Research, 2011, 50, 8941-8953.	3.7	111
3	Influence of pretreatment on supercritical CO2 extraction from Nannochloropsis oculata. Journal of Supercritical Fluids, 2013, 79, 337-344.	3.2	98
4	Bioavailability enhancement of an active substance by supercritical antisolvent precipitation. Journal of Supercritical Fluids, 2007, 40, 101-110.	3.2	90
5	Extraction from oleaginous seeds using supercritical CO2: Experimental design and products quality. Journal of Food Engineering, 2009, 92, 396-402.	5.2	56
6	Impregnation of Fenofibrate on mesoporous silica using supercritical carbon dioxide. International Journal of Pharmaceutics, 2016, 499, 1-9.	5.2	52
7	Comparison of solid dispersions produced by supercritical antisolvent and spray-freezing technologies. International Journal of Pharmaceutics, 2009, 377, 25-34.	5.2	51
8	Current situation and perspectives in drug formulation by using supercritical fluid technology. Journal of Supercritical Fluids, 2018, 134, 274-283.	3.2	47
9	Oil extraction from enriched Spirulina platensis microalgae using supercritical carbon dioxide. Journal of Supercritical Fluids, 2017, 119, 289-296.	3.2	42
10	Effects of high water content and drying pre-treatment on supercritical CO2 extraction from Dunaliella salina microalgae: Experiments and modelling. Journal of Supercritical Fluids, 2016, 116, 271-280.	3.2	40
11	Particle design applied to quercetin using supercritical anti-solvent techniques. Journal of Supercritical Fluids, 2015, 105, 119-127.	3.2	37
12	Supercritical antisolvent co-precipitation of rifampicin and ethyl cellulose. European Journal of Pharmaceutical Sciences, 2017, 102, 161-171.	4.0	35
13	Drug recrystallization using supercritical anti-solvent (SAS) process with impinging jets: Effect of process parameters. Journal of Crystal Growth, 2012, 342, 34-41.	1.5	27
14	Optimization of Algerian rosemary essential oil extraction yield by supercritical CO2 using response surface methodology. Comptes Rendus Chimie, 2016, 19, 538-543.	0.5	27
15	Supercritical fluid technology for the development of innovative ophthalmic medical devices: Drug loaded intraocular lenses to mitigate posterior capsule opacification. European Journal of Pharmaceutics and Biopharmaceutics, 2020, 149, 248-256.	4.3	27
16	Development of innovative medical devices by dispersing fatty acid eutectic blend on gauzes using supercritical particle generation processes. Materials Science and Engineering C, 2019, 99, 599-610.	7.3	22
17	Experimental and modelling of supercritical oil extraction from rapeseeds and sunflower seeds. Chemical Engineering Research and Design, 2011, 89, 2477-2484.	5.6	19
18	Supercritical CO2 extraction of oil from Jatropha curcas: An experimental and modelling study. Journal of Supercritical Fluids, 2018, 141, 2-11.	3.2	19

#	Article	IF	Citations
19	Selective extraction of neutral lipids and pigments from Nannochloropsis salina and Nannochloropsis maritima using supercritical CO2 extraction: Effects of process parameters and pre-treatment. Journal of Supercritical Fluids, 2020, 165, 104934.	3.2	19
20	Supercritical impregnation and optical characterization of loaded foldable intraocular lenses using supercritical fluids. Journal of Cataract and Refractive Surgery, 2017, 43, 1343-1349.	1.5	16
21	Multi-scale experimental study and modeling of the supercritical fractionation process. Journal of Supercritical Fluids, 2015, 105, 158-169.	3.2	14
22	Powder Micronization Using a CO2 Supercritical Antisolvent Type Process: Comparison of Different Introduction Devices. Industrial & Engineering Chemistry Research, 2009, 48, 5671-5678.	3.7	13
23	Production of a methyl ester from the microalgae Nannochloropsis grown in raceways on the French west coast. Fuel, 2015, 153, 640-649.	6.4	13
24	Investigation of crystallization mechanisms for polymorphic and habit control from the Supercritical AntiSolvent process. Journal of Supercritical Fluids, 2018, 141, 29-38.	3.2	13
25	Interfacial tension of ethanol, water, and their mixtures in high pressure carbon dioxide: Measurements and modeling. Journal of Colloid and Interface Science, 2022, 613, 847-856.	9.4	13
26	Supercritical loading of gatifloxacin into hydrophobic foldable intraocular lenses â€“ Process control and optimization by following in situ CO2 sorption and polymer swelling. International Journal of Pharmaceutics, 2020, 581, 119247.	5.2	12
27	Î²-Carotene/PVP microspheres produced by Supercritical Assisted Atomization. Powder Technology, 2019, 346, 228-236.	4.2	10
28	Prediction of Crystalâ€“Solvent Interactions in a Supercritical Medium: A Possible Way to Control Crystal Habit at High Supersaturations with Molecular Modeling. Crystal Growth and Design, 2020, 20, 6863-6876.	3.0	9
29	A new model for the fractionation of fish oil FAEEs. Journal of Supercritical Fluids, 2017, 120, 258-265.	3.2	7
30	Elaboration of Luteinâ€Loaded Nanoliposomes Using Supercritical CO 2. European Journal of Lipid Science and Technology, 2021, 123, 2000358.	1.5	3
31	In-Depth Study of Cyclodextrin Complexation with Carotenoids toward the Formation of Enhanced Delivery Systems. Molecular Pharmaceutics, 2021, 18, 1720-1729.	4.6	3
32	A new correlation for predicting flooding point in supercritical fractionation packed columns. Journal of Supercritical Fluids, 2022, 179, 105404.	3.2	2
33	Applications industrielles des technologies supercritiquesÂ: Ã©tat de l'art et perspectives. Mecanique Et Industries, 2004, 5, 541-551.	0.2	0
34	Prof. Dr. Michel Perrut (March 29, 1947â€“July 7, 2018). Journal of Supercritical Fluids, 2019, 145, A1-A2.	3.2	0