Iolanda De Marco

List of Publications by Year
in descending order

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94 papers	5,256 citations	71102 41 h-index	88630 70 g-index
102 all docs	102 docs citations	102 times ranked	4501 citing authors

#	Article	IF	Citations
1	Supercritical fluid extraction and fractionation of natural matter. Journal of Supercritical Fluids, 2006, 38, 146-166.	3.2	912
2	A review of microencapsulation methods for food antioxidants: Principles, advantages, drawbacks and applications. Food Chemistry, 2019, 272, 494-506.	8.2	314
3	Nanoparticles production by supercritical antisolvent precipitation: A general interpretation. Journal of Supercritical Fluids, 2007, 43, 126-138.	3.2	190
4	The Use of Poly(N-vinyl pyrrolidone) in the Delivery of Drugs: A Review. Polymers, 2020, 12, 1114.	4.5	163
5	Role of Phase Behavior and Atomization in the Supercritical Antisolvent Precipitation. Industrial & Engineering Chemistry Research, 2003, 42, 6406-6414.	3.7	150
6	Spherical microparticles production by supercritical antisolvent precipitation: Interpretation of results. Journal of Supercritical Fluids, 2008, 47, 70-84.	3.2	148
7	Mechanisms controlling supercritical antisolvent precipitate morphology. Chemical Engineering Journal, 2011, 169, 358-370.	12.7	139
8	Rifampicin microparticles production by supercritical antisolvent precipitation. International Journal of Pharmaceutics, 2002, 243, 83-91.	5.2	134
9	Aerogels in drug delivery: From design to application. Journal of Controlled Release, 2021, 332, 40-63.	9.9	123
10	Improving environmental performances in wine production by a life cycle assessment analysis. Journal of Cleaner Production, 2016, 111, 172-180.	9.3	85
11	Pilot scale micronization of amoxicillin by supercritical antisolvent precipitation. Journal of Supercritical Fluids, 2003, 26, 1-7.	3.2	83
12	Supercritical antisolvent micronization of Cefonicid: thermodynamic interpretation of results. Journal of Supercritical Fluids, 2004, 31, 207-215.	3.2	78
13	Complete glutaraldehyde elimination during chitosan hydrogel drying by SC-CO2 processing. Journal of Supercritical Fluids, 2015, 103, 70-76.	3.2	76
14	Starch aerogel loaded with poorly water-soluble vitamins through supercritical CO 2 adsorption. Chemical Engineering Research and Design, 2017, 119, 221-230.	5.6	76
15	Influence of pressure, temperature and concentration on the mechanisms of particle precipitation in supercritical antisolvent micronization. Journal of Supercritical Fluids, 2011, 58, 295-302.	3.2	73
16	Nimesulide adsorbed on silica aerogel using supercritical carbon dioxide. Chemical Engineering Research and Design, 2012, 90, 1082-1089.	5.6	68
17	Zinc Oxide Nanoparticles Obtained by Supercritical Antisolvent Precipitation for the Photocatalytic Degradation of Crystal Violet Dye. Catalysts, 2019, 9, 346.	3.5	68
18	Supercritical antisolvent coprecipitation mechanisms. Journal of Supercritical Fluids, 2018, 138, 247-258.	3.2	67

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19	Supercritical Antisolvent Process for Pharmaceutical Applications: A Review. Processes, 2020, 8, 938.	2.8	62
20	Life cycle assessment of supercritical CO2 extraction of caffeine from coffee beans. Journal of Supercritical Fluids, 2018, 133, 393-400.	3.2	61
21	Tailoring of nano- and micro-particles of some superconductor precursors by supercritical antisolvent precipitation. Journal of Supercritical Fluids, 2002, 23, 81-87.	3.2	59
22	Control of particle size, at micrometric and nanometric range, using supercritical antisolvent precipitation from solvent mixtures: Application to PVP. Chemical Engineering Journal, 2015, 273, 344-352.	12.7	59
23	PVP/corticosteroid microspheres produced by supercritical antisolvent coprecipitation. Chemical Engineering Journal, 2016, 292, 264-275.	12.7	58
24	Supercritical antisolvent precipitation of Cephalosporins. Powder Technology, 2006, 164, 139-146.	4.2	57
25	Interactions of phase equilibria, jet fluid dynamics and mass transfer during supercritical antisolvent micronization: The influence of solvents. Chemical Engineering Journal, 2012, 203, 71-80.	12.7	57
26	Folic acidâ€“PVP nanostructured composite microparticles by supercritical antisolvent precipitation. Chemical Engineering Journal, 2015, 277, 286-294.	12.7	57
27	Expanded micro-particles by supercritical antisolvent precipitation: Interpretation of results. Journal of Supercritical Fluids, 2008, 44, 98-108.	3.2	56
28	Formation of PVP/nimesulide microspheres by supercritical antisolvent coprecipitation. Journal of Supercritical Fluids, 2016, 118, 19-26.	3.2	52
29	Annexin A1 May Induce Pancreatic Cancer Progression as a Key Player of Extracellular Vesicles Effects as Evidenced in the In Vitro MIA PaCa-2 Model System. International Journal of Molecular Sciences, 2018, 19, 3878.	4.1	52
30	Zein/diclofenac sodium coprecipitation at micrometric and nanometric range by supercritical antisolvent processing. Journal of CO2 Utilization, 2018, 27, 366-373.	6.8	52
31	Contact Lenses as Ophthalmic Drug Delivery Systems: A Review. Polymers, 2021, 13, 1102.	4.5	49
32	Pigment Red 60 micronization using supercritical fluids based techniques. Journal of Supercritical Fluids, 2005, 35, 76-82.	3.2	46
33	Coprecipitation of Polyvinylpyrrolidone/Î²-Carotene by Supercritical Antisolvent Processing. Industrial & Engineering Chemistry Research, 2015, 54, 11568-11575.	3.7	46
34	Use of sunflower seed fried oil as an ecofriendly plasticizer for starch and application of this thermoplastic starch as a filler for PLA. Industrial Crops and Products, 2018, 122, 545-552.	5.2	45
35	Supercritical antisolvent micronization of cyclodextrins. Powder Technology, 2008, 183, 239-246.	4.2	44
36	Supercritical CO2 adsorption of non-steroidal anti-inflammatory drugs into biopolymer aerogels. Journal of CO2 Utilization, 2020, 36, 40-53.	6.8	44

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37	Organic nanoparticles recovery in supercritical antisolvent precipitation. Journal of Supercritical Fluids, 2010, 55, 300-306.	3.2	43
38	Supercritical carbon dioxide+ethanol mixtures for the antisolvent micronization of hydrosoluble materials. Chemical Engineering Journal, 2012, 187, 401-409.	12.7	43
39	Silica aerogelâ€“metal composites produced by supercritical adsorption. Journal of Supercritical Fluids, 2010, 54, 243-249.	3.2	42
40	Chitosan scaffolds formation by a supercritical freeze extraction process. Journal of Supercritical Fluids, 2014, 90, 27-34.	3.2	42
41	Supercritical Adsorption of Quercetin on Aerogels for Active Packaging Applications. Industrial & Engineering Chemistry Research, 2018, 57, 15105-15113.	3.7	42
42	PVP/flavonoid coprecipitation by supercritical antisolvent process. Chemical Engineering and Processing: Process Intensification, 2019, 146, 107689.	3.6	42
43	Numerical analysis of the characteristic times controlling supercritical antisolvent micronization. Chemical Engineering Science, 2012, 71, 39-45.	3.8	41
44	Photocatalytic Degradation of Eriochrome Black-T Azo Dye Using Eu-Doped ZnO Prepared by Supercritical Antisolvent Precipitation Route: A Preliminary Investigation. Topics in Catalysis, 2020, 63, 1193-1205.	2.8	41
45	Porous Aerogels and Adsorption of Pollutants from Water and Air: A Review. Molecules, 2021, 26, 4440.	3.8	41
46	Supercritical impregnation of mesoglycan into calcium alginate aerogel for wound healing. Journal of Supercritical Fluids, 2020, 157, 104711.	3.2	40
47	Supercritical CO2 impregnation of Î±-tocopherol into PET/PP films for active packaging applications. Journal of CO2 Utilization, 2019, 34, 266-273.	6.8	39
48	Eudragit: A Novel Carrier for Controlled Drug Delivery in Supercritical Antisolvent Coprecipitation. Polymers, 2020, 12, 234.	4.5	38
49	Preparation of non-steroidal anti-inflammatory drug/Î²-cyclodextrin inclusion complexes by supercritical antisolvent process. Journal of CO2 Utilization, 2021, 44, 101397.	6.8	37
50	Use of solvent mixtures in supercritical antisolvent process to modify precipitates morphology: Cellulose acetate microparticles. Journal of Supercritical Fluids, 2013, 83, 153-160.	3.2	36
51	Nanoparticles and Nanocrystals by Supercritical CO2-Assisted Techniques for Pharmaceutical Applications: A Review. Applied Sciences (Switzerland), 2021, 11, 1476.	2.5	36
52	Dependence of SAS particle morphologies on the ternary phase equilibria. Journal of Supercritical Fluids, 2017, 130, 273-281.	3.2	35
53	Optimization of freeze-drying using a Life Cycle Assessment approach: Strawberriesâ€™ case study. Journal of Cleaner Production, 2017, 168, 1171-1179.	9.3	34
54	Antisolvent micronization of BSA using supercritical mixtures carbon dioxide+organic solvent. Journal of Supercritical Fluids, 2014, 94, 189-197.	3.2	33

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55	Annexin A1 Contained in Extracellular Vesicles Promotes the Activation of Keratinocytes by Mesoglycan Effects: An Autocrine Loop Through FPRs. Cells, 2019, 8, 753.	4.1	32
56	Polycaprolactone/nimesulide patches obtained by a one-step supercritical foamingâ€‰+â€‰impregnation process. Journal of Supercritical Fluids, 2019, 146, 47-54.	3.2	32
57	Uncertainty of input parameters and sensitivity analysis in life cycle assessment: An Italian processed tomato product. Journal of Cleaner Production, 2018, 177, 315-325.	9.3	31
58	Life cycle assessment of supercritical impregnation: Starch aerogelâ€‰+â€‰Î±-tocopherol tablets. Journal of Supercritical Fluids, 2019, 143, 305-312.	3.2	30
59	Supercritical fluids based techniques to process pharmaceutical products difficult to micronize: Palmitoylethanolamide. Journal of Supercritical Fluids, 2015, 102, 24-31.	3.2	29
60	Incorporation of liposoluble vitamins within PVP microparticles using supercritical antisolvent precipitation. Journal of CO2 Utilization, 2017, 19, 230-237.	6.8	28
61	Biodegradable synthetic scaffolds for tendon regeneration. Muscles, Ligaments and Tendons Journal, 2012, 2, 181-6.	0.3	26
62	Polymers' ultrafine particles for drug delivery systems precipitated by supercritical carbon dioxide + organic solvent mixtures. Powder Technology, 2016, 292, 140-148.	4.2	25
63	Production of lysozyme microparticles to be used in functional foods, using an expanded liquid antisolvent process. Journal of Supercritical Fluids, 2016, 107, 106-113.	3.2	25
64	PVP/ketoprofen coprecipitation using supercritical antisolvent process. Powder Technology, 2018, 340, 1-7.	4.2	24
65	Zein electrospun fibers purification and vanillin impregnation in a one-step supercritical process to produce safe active packaging. Food Hydrocolloids, 2022, 122, 107082.	10.7	24
66	PVP microparticles precipitation from acetone-ethanol mixtures using SAS process: Effect of phase behavior. Journal of Supercritical Fluids, 2019, 143, 321-329.	3.2	22
67	Zein Microparticles and Nanoparticles as Drug Delivery Systems. Polymers, 2022, 14, 2172.	4.5	21
68	PCL/Mesoglycan Devices Obtained by Supercritical Foaming and Impregnation. Pharmaceutics, 2019, 11, 631.	4.5	20
69	Nanostructured cellulose acetate filaments produced by supercritical antisolvent precipitation. Journal of Supercritical Fluids, 2011, 55, 1095-1103.	3.2	19
70	Production of zein/antibiotic microparticles by supercritical antisolvent coprecipitation. Journal of Supercritical Fluids, 2019, 145, 31-38.	3.2	19
71	Formation of Rutinâ€“Î²-Cyclodextrin Inclusion Complexes by Supercritical Antisolvent Precipitation. Polymers, 2021, 13, 246.	4.5	19
72	Production, packaging and preservation of semi-finished apricots: AÂcomparative Life Cycle Assessment study. Journal of Food Engineering, 2017, 206, 106-117.	5.2	18

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73	Photocatalytic degradation of atrazine under visible light using Gd-doped ZnO prepared by supercritical antisolvent precipitation route. Catalysis Today, 2022, 397-399, 240-248.	4.4	16
74	Supercritical CO2 impregnation of caffeine in biopolymer films to produce anti-cellulite devices. Journal of Supercritical Fluids, 2022, 179, 105411.	3.2	15
75	Pt on SAS-CeO2 nanopowder as catalyst for the CO-WGS reaction. International Journal of Hydrogen Energy, 2018, 43, 19965-19975.	7.1	14
76	Photocatalytic activity of Eu-doped ZnO prepared by supercritical antisolvent precipitation route: When defects become virtues. Journal of Materials Science and Technology, 2022, 112, 49-58.	10.7	14
77	Controlled-release antihistamines using supercritical antisolvent process. Journal of Supercritical Fluids, 2021, 171, 105201.	3.2	12
78	High-Pressure Technologies for the Recovery of Bioactive Molecules from Agro-Industrial Waste. Applied Sciences (Switzerland), 2022, 12, 3642.	2.5	12
79	Cellulose Acetate and Supercritical Carbon Dioxide: Membranes, Nanoparticles, Microparticles and Nanostructured Filaments. Polymers, 2020, 12, 162.	4.5	9
80	Effect of the Carrier on the Coprecipitation of Curcumin through Supercritical-Assisted Atomization. ChemEngineering, 2021, 5, 59.	2.4	8
81	Investigating the effects of supercritical antisolvent process and food models on antioxidant capacity, bioaccessibility and transepithelial transport of quercetin and rutin. Food and Function, 2022, 13, 4469-4477.	4.6	7
82	Supercritical antisolvent coprecipitation in the pharmaceutical field: Different polymeric carriers for different drug releases. Canadian Journal of Chemical Engineering, 2020, 98, 1935-1943.	1.7	5
83	Supercritical Carbon Dioxide-Based Processes in Photocatalytic Applications. Molecules, 2021, 26, 2640.	3.8	5
84	Polycaprolactone/polyethylene-glycol capsules made by injection molding: A drug release modeling. Materials Science and Engineering C, 2021, 123, 112036.	7.3	5
85	The supercritical antisolvent precipitation from a sustainable perspective: A Life Cycle Assessment. Journal of CO2 Utilization, 2022, 55, 101808.	6.8	5
86	Production of carrier/antioxidant particles by Supercritical Assisted Atomization as an adjuvant treatment of the CoVID-19 pathology. Journal of Supercritical Fluids, 2022, 186, 105604.	3.2	5
87	Essential Oils Extraction and Fractionation Using Supercritical Fluids. , 2007, , 305-335.		4
88	Optimization of PCL Polymeric Films as Potential Matrices for the Loading of Alpha-Tocopherol by a Combination of Innovative Green Processes. Processes, 2021, 9, 2244.	2.8	4
89	Experimental Study of Water Jet Break-Up in and Supercritical Carbon Dioxide. Industrial & Engineering Chemistry Research, 2019, 58, 22389-22398.	3.7	3
90	Supercritical Antisolvent Process: PVP/Nimesulide Coprecipitates. Lecture Notes in Bioengineering, 2018, , 37-49.	0.4	1

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91	Environmental and Sustainability Analysis of a Supercritical Carbon Dioxide-Assisted Process for Pharmaceutical Applications. Processes, 2021, 9, 1788.	2.8	1
92	Supercritical Anti-Solvent Micronization: Control of Morphology and Particle Size. , 2012, , 16-28.		0
93	Analysis of Mechanisms for PVP-Active-Agent Formulation as in Supercritical Antisolvent Spray Process. , 2016, , 987-1035.		0
94	Oral Fast and Topical Controlled Ketoprofen Release Through Supercritical Fluids Based Processes. Lecture Notes in Bioengineering, 2020, , 164-177.	0.4	0