

# Iolanda De Marco

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6690533/publications.pdf>

Version: 2024-02-01

94  
papers

5,256  
citations

70961

41  
h-index

88477

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. <i>Journal of Supercritical Fluids</i> , 2006, 38, 146-166.	1.6	912
2	A review of microencapsulation methods for food antioxidants: Principles, advantages, drawbacks and applications. <i>Food Chemistry</i> , 2019, 272, 494-506.	4.2	314
3	Nanoparticles production by supercritical antisolvent precipitation: A general interpretation. <i>Journal of Supercritical Fluids</i> , 2007, 43, 126-138.	1.6	190
4	The Use of Poly(N-vinyl pyrrolidone) in the Delivery of Drugs: A Review. <i>Polymers</i> , 2020, 12, 1114.	2.0	163
5	Role of Phase Behavior and Atomization in the Supercritical Antisolvent Precipitation. <i>Industrial &amp; Engineering Chemistry Research</i> , 2003, 42, 6406-6414.	1.8	150
6	Spherical microparticles production by supercritical antisolvent precipitation: Interpretation of results. <i>Journal of Supercritical Fluids</i> , 2008, 47, 70-84.	1.6	148
7	Mechanisms controlling supercritical antisolvent precipitate morphology. <i>Chemical Engineering Journal</i> , 2011, 169, 358-370.	6.6	139
8	Rifampicin microparticles production by supercritical antisolvent precipitation. <i>International Journal of Pharmaceutics</i> , 2002, 243, 83-91.	2.6	134
9	Aerogels in drug delivery: From design to application. <i>Journal of Controlled Release</i> , 2021, 332, 40-63.	4.8	123
10	Improving environmental performances in wine production by a life cycle assessment analysis. <i>Journal of Cleaner Production</i> , 2016, 111, 172-180.	4.6	85
11	Pilot scale micronization of amoxicillin by supercritical antisolvent precipitation. <i>Journal of Supercritical Fluids</i> , 2003, 26, 1-7.	1.6	83
12	Supercritical antisolvent micronization of Cefonicid: thermodynamic interpretation of results. <i>Journal of Supercritical Fluids</i> , 2004, 31, 207-215.	1.6	78
13	Complete glutaraldehyde elimination during chitosan hydrogel drying by SC-CO <sub>2</sub> processing. <i>Journal of Supercritical Fluids</i> , 2015, 103, 70-76.	1.6	76
14	Starch aerogel loaded with poorly water-soluble vitamins through supercritical CO <sub>2</sub> adsorption. <i>Chemical Engineering Research and Design</i> , 2017, 119, 221-230.	2.7	76
15	Influence of pressure, temperature and concentration on the mechanisms of particle precipitation in supercritical antisolvent micronization. <i>Journal of Supercritical Fluids</i> , 2011, 58, 295-302.	1.6	73
16	Nimesulide adsorbed on silica aerogel using supercritical carbon dioxide. <i>Chemical Engineering Research and Design</i> , 2012, 90, 1082-1089.	2.7	68
17	Zinc Oxide Nanoparticles Obtained by Supercritical Antisolvent Precipitation for the Photocatalytic Degradation of Crystal Violet Dye. <i>Catalysts</i> , 2019, 9, 346.	1.6	68
18	Supercritical antisolvent coprecipitation mechanisms. <i>Journal of Supercritical Fluids</i> , 2018, 138, 247-258.	1.6	67

#	ARTICLE	IF	CITATIONS
19	Supercritical Antisolvent Process for Pharmaceutical Applications: A Review. <i>Processes</i> , 2020, 8, 938.	1.3	62
20	Life cycle assessment of supercritical CO <sub>2</sub> extraction of caffeine from coffee beans. <i>Journal of Supercritical Fluids</i> , 2018, 133, 393-400.	1.6	61
21	Tailoring of nano- and micro-particles of some superconductor precursors by supercritical antisolvent precipitation. <i>Journal of Supercritical Fluids</i> , 2002, 23, 81-87.	1.6	59
22	Control of particle size, at micrometric and nanometric range, using supercritical antisolvent precipitation from solvent mixtures: Application to PVP. <i>Chemical Engineering Journal</i> , 2015, 273, 344-352.	6.6	59
23	PVP/corticosteroid microspheres produced by supercritical antisolvent coprecipitation. <i>Chemical Engineering Journal</i> , 2016, 292, 264-275.	6.6	58
24	Supercritical antisolvent precipitation of Cephalosporins. <i>Powder Technology</i> , 2006, 164, 139-146.	2.1	57
25	Interactions of phase equilibria, jet fluid dynamics and mass transfer during supercritical antisolvent micronization: The influence of solvents. <i>Chemical Engineering Journal</i> , 2012, 203, 71-80.	6.6	57
26	Folic acid/PVP nanostructured composite microparticles by supercritical antisolvent precipitation. <i>Chemical Engineering Journal</i> , 2015, 277, 286-294.	6.6	57
27	Expanded micro-particles by supercritical antisolvent precipitation: Interpretation of results. <i>Journal of Supercritical Fluids</i> , 2008, 44, 98-108.	1.6	56
28	Formation of PVP/nimesulide microspheres by supercritical antisolvent coprecipitation. <i>Journal of Supercritical Fluids</i> , 2016, 118, 19-26.	1.6	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. <i>International Journal of Molecular Sciences</i> , 2018, 19, 3878.	1.8	52
30	Zein/diclofenac sodium coprecipitation at micrometric and nanometric range by supercritical antisolvent processing. <i>Journal of CO<sub>2</sub> Utilization</i> , 2018, 27, 366-373.	3.3	52
31	Contact Lenses as Ophthalmic Drug Delivery Systems: A Review. <i>Polymers</i> , 2021, 13, 1102.	2.0	49
32	Pigment Red 60 micronization using supercritical fluids based techniques. <i>Journal of Supercritical Fluids</i> , 2005, 35, 76-82.	1.6	46
33	Coprecipitation of Polyvinylpyrrolidone/ $\beta$ -Carotene by Supercritical Antisolvent Processing. <i>Industrial &amp; Engineering Chemistry Research</i> , 2015, 54, 11568-11575.	1.8	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. <i>Industrial Crops and Products</i> , 2018, 122, 545-552.	2.5	45
35	Supercritical antisolvent micronization of cyclodextrins. <i>Powder Technology</i> , 2008, 183, 239-246.	2.1	44
36	Supercritical CO <sub>2</sub> adsorption of non-steroidal anti-inflammatory drugs into biopolymer aerogels. <i>Journal of CO<sub>2</sub> Utilization</i> , 2020, 36, 40-53.	3.3	44

#	ARTICLE	IF	CITATIONS
37	Organic nanoparticles recovery in supercritical antisolvent precipitation. <i>Journal of Supercritical Fluids</i> , 2010, 55, 300-306.	1.6	43
38	Supercritical carbon dioxide+ethanol mixtures for the antisolvent micronization of hydrosoluble materials. <i>Chemical Engineering Journal</i> , 2012, 187, 401-409.	6.6	43
39	Silica aerogel-metal composites produced by supercritical adsorption. <i>Journal of Supercritical Fluids</i> , 2010, 54, 243-249.	1.6	42
40	Chitosan scaffolds formation by a supercritical freeze extraction process. <i>Journal of Supercritical Fluids</i> , 2014, 90, 27-34.	1.6	42
41	Supercritical Adsorption of Quercetin on Aerogels for Active Packaging Applications. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 15105-15113.	1.8	42
42	PVP/flavonoid coprecipitation by supercritical antisolvent process. <i>Chemical Engineering and Processing: Process Intensification</i> , 2019, 146, 107689.	1.8	42
43	Numerical analysis of the characteristic times controlling supercritical antisolvent micronization. <i>Chemical Engineering Science</i> , 2012, 71, 39-45.	1.9	41
44	Photocatalytic Degradation of Eriochrome Black-T Azo Dye Using Eu-Doped ZnO Prepared by Supercritical Antisolvent Precipitation Route: A Preliminary Investigation. <i>Topics in Catalysis</i> , 2020, 63, 1193-1205.	1.3	41
45	Porous Aerogels and Adsorption of Pollutants from Water and Air: A Review. <i>Molecules</i> , 2021, 26, 4440.	1.7	41
46	Supercritical impregnation of mesoglycan into calcium alginate aerogel for wound healing. <i>Journal of Supercritical Fluids</i> , 2020, 157, 104711.	1.6	40
47	Supercritical CO <sub>2</sub> impregnation of $\alpha$ -tocopherol into PET/PP films for active packaging applications. <i>Journal of CO<sub>2</sub> Utilization</i> , 2019, 34, 266-273.	3.3	39
48	Eudragit: A Novel Carrier for Controlled Drug Delivery in Supercritical Antisolvent Coprecipitation. <i>Polymers</i> , 2020, 12, 234.	2.0	38
49	Preparation of non-steroidal anti-inflammatory drug/ $\beta$ -cyclodextrin inclusion complexes by supercritical antisolvent process. <i>Journal of CO<sub>2</sub> Utilization</i> , 2021, 44, 101397.	3.3	37
50	Use of solvent mixtures in supercritical antisolvent process to modify precipitates morphology: Cellulose acetate microparticles. <i>Journal of Supercritical Fluids</i> , 2013, 83, 153-160.	1.6	36
51	Nanoparticles and Nanocrystals by Supercritical CO <sub>2</sub> -Assisted Techniques for Pharmaceutical Applications: A Review. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 1476.	1.3	36
52	Dependence of SAS particle morphologies on the ternary phase equilibria. <i>Journal of Supercritical Fluids</i> , 2017, 130, 273-281.	1.6	35
53	Optimization of freeze-drying using a Life Cycle Assessment approach: Strawberries™ case study. <i>Journal of Cleaner Production</i> , 2017, 168, 1171-1179.	4.6	34
54	Antisolvent micronization of BSA using supercritical mixtures carbon dioxide+organic solvent. <i>Journal of Supercritical Fluids</i> , 2014, 94, 189-197.	1.6	33

#	ARTICLE	IF	CITATIONS
55	Annexin A1 Contained in Extracellular Vesicles Promotes the Activation of Keratinocytes by Mesoglycan Effects: An Autocrine Loop Through FPRs. <i>Cells</i> , 2019, 8, 753.	1.8	32
56	Polycaprolactone/nimesulide patches obtained by a one-step supercritical foaming&#x2013;impregnation process. <i>Journal of Supercritical Fluids</i> , 2019, 146, 47-54.	1.6	32
57	Uncertainty of input parameters and sensitivity analysis in life cycle assessment: An Italian processed tomato product. <i>Journal of Cleaner Production</i> , 2018, 177, 315-325.	4.6	31
58	Life cycle assessment of supercritical impregnation: Starch aerogel&#x2013;tocopherol tablets. <i>Journal of Supercritical Fluids</i> , 2019, 143, 305-312.	1.6	30
59	Supercritical fluids based techniques to process pharmaceutical products difficult to micronize: Palmitoylethanolamide. <i>Journal of Supercritical Fluids</i> , 2015, 102, 24-31.	1.6	29
60	Incorporation of liposoluble vitamins within PVP microparticles using supercritical antisolvent precipitation. <i>Journal of CO2 Utilization</i> , 2017, 19, 230-237.	3.3	28
61	Biodegradable synthetic scaffolds for tendon regeneration. <i>Muscles, Ligaments and Tendons Journal</i> , 2012, 2, 181-6.	0.1	26
62	Polymers' ultrafine particles for drug delivery systems precipitated by supercritical carbon dioxide + organic solvent mixtures. <i>Powder Technology</i> , 2016, 292, 140-148.	2.1	25
63	Production of lysozyme microparticles to be used in functional foods, using an expanded liquid antisolvent process. <i>Journal of Supercritical Fluids</i> , 2016, 107, 106-113.	1.6	25
64	PVP/ketoprofen coprecipitation using supercritical antisolvent process. <i>Powder Technology</i> , 2018, 340, 1-7.	2.1	24
65	Zein electrospun fibers purification and vanillin impregnation in a one-step supercritical process to produce safe active packaging. <i>Food Hydrocolloids</i> , 2022, 122, 107082.	5.6	24
66	PVP microparticles precipitation from acetone-ethanol mixtures using SAS process: Effect of phase behavior. <i>Journal of Supercritical Fluids</i> , 2019, 143, 321-329.	1.6	22
67	Zein Microparticles and Nanoparticles as Drug Delivery Systems. <i>Polymers</i> , 2022, 14, 2172.	2.0	21
68	PCL/Mesoglycan Devices Obtained by Supercritical Foaming and Impregnation. <i>Pharmaceutics</i> , 2019, 11, 631.	2.0	20
69	Nanostructured cellulose acetate filaments produced by supercritical antisolvent precipitation. <i>Journal of Supercritical Fluids</i> , 2011, 55, 1095-1103.	1.6	19
70	Production of zein/antibiotic microparticles by supercritical antisolvent coprecipitation. <i>Journal of Supercritical Fluids</i> , 2019, 145, 31-38.	1.6	19
71	Formation of Rutin&#x2013;Cyclodextrin Inclusion Complexes by Supercritical Antisolvent Precipitation. <i>Polymers</i> , 2021, 13, 246.	2.0	19
72	Production, packaging and preservation of semi-finished apricots: A&#x2013;comparative Life Cycle Assessment study. <i>Journal of Food Engineering</i> , 2017, 206, 106-117.	2.7	18

#	ARTICLE	IF	CITATIONS
73	Photocatalytic degradation of atrazine under visible light using Gd-doped ZnO prepared by supercritical antisolvent precipitation route. <i>Catalysis Today</i> , 2022, 397-399, 240-248.	2.2	16
74	Supercritical CO <sub>2</sub> impregnation of caffeine in biopolymer films to produce anti-cellulite devices. <i>Journal of Supercritical Fluids</i> , 2022, 179, 105411.	1.6	15
75	Pt on SAS-CeO <sub>2</sub> nanopowder as catalyst for the CO-WGS reaction. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 19965-19975.	3.8	14
76	Photocatalytic activity of Eu-doped ZnO prepared by supercritical antisolvent precipitation route: When defects become virtues. <i>Journal of Materials Science and Technology</i> , 2022, 112, 49-58.	5.6	14
77	Controlled-release antihistamines using supercritical antisolvent process. <i>Journal of Supercritical Fluids</i> , 2021, 171, 105201.	1.6	12
78	High-Pressure Technologies for the Recovery of Bioactive Molecules from Agro-Industrial Waste. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 3642.	1.3	12
79	Cellulose Acetate and Supercritical Carbon Dioxide: Membranes, Nanoparticles, Microparticles and Nanostructured Filaments. <i>Polymers</i> , 2020, 12, 162.	2.0	9
80	Effect of the Carrier on the Coprecipitation of Curcumin through Supercritical-Assisted Atomization. <i>ChemEngineering</i> , 2021, 5, 59.	1.0	8
81	Investigating the effects of supercritical antisolvent process and food models on antioxidant capacity, bioaccessibility and transepithelial transport of quercetin and rutin. <i>Food and Function</i> , 2022, 13, 4469-4477.	2.1	7
82	Supercritical antisolvent coprecipitation in the pharmaceutical field: Different polymeric carriers for different drug releases. <i>Canadian Journal of Chemical Engineering</i> , 2020, 98, 1935-1943.	0.9	5
83	Supercritical Carbon Dioxide-Based Processes in Photocatalytic Applications. <i>Molecules</i> , 2021, 26, 2640.	1.7	5
84	Polycaprolactone/polyethylene-glycol capsules made by injection molding: A drug release modeling. <i>Materials Science and Engineering C</i> , 2021, 123, 112036.	3.8	5
85	The supercritical antisolvent precipitation from a sustainable perspective: A Life Cycle Assessment. <i>Journal of CO<sub>2</sub> Utilization</i> , 2022, 55, 101808.	3.3	5
86	Production of carrier/antioxidant particles by Supercritical Assisted Atomization as an adjuvant treatment of the CoVID-19 pathology. <i>Journal of Supercritical Fluids</i> , 2022, 186, 105604.	1.6	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. <i>Processes</i> , 2021, 9, 2244.	1.3	4
89	Experimental Study of Water Jet Break-Up in and Supercritical Carbon Dioxide. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 22389-22398.	1.8	3
90	Supercritical Antisolvent Process: PVP/Nimesulide Coprecipitates. <i>Lecture Notes in Bioengineering</i> , 2018, , 37-49.	0.3	1

#	ARTICLE	IF	CITATIONS
91	Environmental and Sustainability Analysis of a Supercritical Carbon Dioxide-Assisted Process for Pharmaceutical Applications. Processes, 2021, 9, 1788.	1.3	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.	0.3	0