

# Martial Sauceau

## List of Publications by Year in descending order

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Version: 2024-02-01

40  
papers

1,540  
citations

394390

19  
h-index

345203

36  
g-index

40  
all docs

40  
docs citations

40  
times ranked

1643  
citing authors

#	ARTICLE	IF	CITATIONS
1	Blending and foaming thermoplastic starch with poly (lactic acid) by CO <sub>2</sub> aided hot melt extrusion. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50150.	2.6	13
2	Foaming of PLA Composites by Supercritical Fluid-Assisted Processes: A Review. <i>Molecules</i> , 2020, 25, 3408.	3.8	30
3	Sludge. , 2020, , 939-1083.		0
4	Determination of drug-polymer solubility from supersaturated spray-dried amorphous solid dispersions: A case study with Efavirenz and Soluplus®. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2019, 142, 300-306.	4.3	12
5	How to avoid evaporation during rheological measurements of dewatered pasty sludge at high temperature. <i>Water Science and Technology</i> , 2019, 79, 1503-1510.	2.5	0
6	Solubility of cefuroxime axetil in supercritical CO <sub>2</sub> : Measurement and modeling. <i>Journal of Supercritical Fluids</i> , 2019, 152, 104498.	3.2	18
7	Biocomposite films based on poly(lactic acid) and chitosan nanoparticles: Elaboration, microstructural and thermal characterization. <i>Polymer Engineering and Science</i> , 2019, 59, E350.	3.1	20
8	Experimental rheological procedure adapted to pasty dewatered sludge up to 45 % dry matter. <i>Water Research</i> , 2018, 133, 1-7.	11.3	10
9	Modelling of the rheological behavior of mechanically dewatered sewage sludge in uniaxial cyclic compression. <i>Water Research</i> , 2018, 147, 413-421.	11.3	8
10	Synchrotron X-ray In Situ Tomography of Thermally Induced Phase Separation of Polylactic Acid in 1,4-Dioxane Solution. <i>Crystal Growth and Design</i> , 2018, 18, 7496-7503.	3.0	2
11	Microcellular Foaming of (Nano)Biocomposites by Continuous Extrusion Assisted by Supercritical CO <sub>2</sub> . <i>ACS Symposium Series</i> , 2018, , 171-188.	0.5	3
12	Extrusion assisted by supercritical CO <sub>2</sub> : A review on its application to biopolymers. <i>Journal of Supercritical Fluids</i> , 2017, 120, 408-420.	3.2	110
13	A uniaxial cyclic compression method for characterizing the rheological and textural behaviors of mechanically dewatered sewage sludge. <i>Water Research</i> , 2017, 113, 171-180.	11.3	9
14	Mastering the structure of PLA foams made with extrusion assisted by supercritical CO <sub>2</sub> . <i>Journal of Applied Polymer Science</i> , 2017, 134, 45067.	2.6	24
15	Modeling of a continuous sewage sludge paddle dryer by coupling Markov chains with penetration theory. <i>Applied Mathematical Modelling</i> , 2016, 40, 8201-8216.	4.2	12
16	Characterisation of natural fibre reinforced PLA foams prepared by supercritical CO <sub>2</sub> assisted extrusion. <i>EXPRESS Polymer Letters</i> , 2016, 10, 771-779.	2.1	58
17	Capillary rheometry of a binary mixture polymer/CO <sub>2</sub> in a single screw extruder. <i>Chemical Engineering and Processing: Process Intensification</i> , 2015, 93, 21-26.	3.6	3
18	Influence of Operating Parameters on Sewage Sludge Drying in a Paddle Dryer: Design of Experiments for the Determination of Hold-Up and Water Content Profiles. <i>Drying Technology</i> , 2015, 33, 1276-1285.	3.1	8

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19	Modeling of Sewage Sludge Flow in a Continuous Paddle Dryer. <i>Drying Technology</i> , 2015, 33, 1061-1067.	3.1	14
20	A new methodology for measurement of sludge residence time distribution in a paddle dryer using X-ray fluorescence analysis. <i>Water Research</i> , 2015, 69, 1-8.	11.3	11
21	Effect of supercritical CO <sub>2</sub> plasticization on the degradation and residual crystallinity of melt-extruded spirinolactone. <i>Polymers for Advanced Technologies</i> , 2014, 25, 1135-1144.	3.2	7
22	Foaming of poly(3-hydroxybutyrate-co-3-hydroxyvalerate)/organo-clays nano-biocomposites by a continuous supercritical CO <sub>2</sub> assisted extrusion process. <i>European Polymer Journal</i> , 2014, 61, 157-171.	5.4	32
23	Chitosan nanoparticles generation using CO <sub>2</sub> assisted processes. <i>Journal of Supercritical Fluids</i> , 2014, 95, 118-128.	3.2	19
24	Flow and mixing efficiency characterisation in a CO <sub>2</sub> -assisted single-screw extrusion process by residence time distribution using Raman spectroscopy. <i>Chemical Engineering Research and Design</i> , 2014, 92, 1210-1218.	5.6	9
25	Modelling non-homogeneous flow and residence time distribution in a single-screw extruder by means of Markov chains. <i>Journal of Mathematical Chemistry</i> , 2012, 50, 2141-2154.	1.5	6
26	Use of supercritical CO <sub>2</sub> assisted and conventional melt extrusion for enhancing the dissolution rate of an active pharmaceutical ingredient. <i>Polymers for Advanced Technologies</i> , 2012, 23, 909-918.	3.2	25
27	New challenges in polymer foaming: A review of extrusion processes assisted by supercritical carbon dioxide. <i>Progress in Polymer Science</i> , 2011, 36, 749-766.	24.7	342
28	Controlling the structure of a porous polymer by coupling supercritical CO <sub>2</sub> and single screw extrusion process. <i>Journal of Applied Polymer Science</i> , 2010, 115, 981-990.	2.6	28
29	Residence time distribution of a pharmaceutical grade polymer melt in a single screw extrusion process. <i>Chemical Engineering Research and Design</i> , 2009, 87, 809-816.	5.6	40
30	Preparation of inclusion complex of piroxicam with cyclodextrin by using supercritical carbon dioxide. <i>Journal of Supercritical Fluids</i> , 2008, 47, 326-332.	3.2	56
31	Effect of supercritical carbon dioxide on polystyrene extrusion. <i>Journal of Supercritical Fluids</i> , 2007, 43, 367-373.	3.2	46
32	Chapter 19. Measurements and Modelling Solid Solubilities in Supercritical Phases: Application to a Pharmaceutical Molecule, Eflucimibe. , 2007, , 292-304.		0
33	A three step supercritical process to improve the dissolution rate of Eflucimibe. <i>European Journal of Pharmaceutical Sciences</i> , 2005, 26, 184-193.	4.0	61
34	Particle generation for pharmaceutical applications using supercritical fluid technology. <i>Powder Technology</i> , 2004, 141, 219-226.	4.2	302
35	Solubility of eflucimibe in supercritical carbon dioxide with or without a co-solvent. <i>Journal of Supercritical Fluids</i> , 2004, 31, 133-140.	3.2	61
36	Enhanced density-based models for solid compound solubilities in supercritical carbon dioxide with cosolvents. <i>Fluid Phase Equilibria</i> , 2003, 208, 99-113.	2.5	63

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37	La g�n�ration de solides divis�s par fluides supercritiques. Canadian Journal of Chemical Engineering, 2003, 81, 161-175.	1.7	3
38	Extraction and precipitation particle coating using supercritical CO2. Powder Technology, 2002, 127, 32-44.	4.2	31
39	A Novel Apparatus for Accurate Measurements of Solid Solubilities in Supercritical Phases. Industrial & Engineering Chemistry Research, 2000, 39, 4609-4614.	3.7	44
40	Generation of high drug loading amorphous solid dispersions by Spray Drying. , 0, , .		0