

# Marcelo Martins Seckler

## List of Publications by Year in descending order

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47  
papers

1,630  
citations

430874

18  
h-index

315739

38  
g-index

48  
all docs

48  
docs citations

48  
times ranked

2491  
citing authors

#	ARTICLE	IF	CITATIONS
1	Silver Nanoparticles: Therapeutical Uses, Toxicity, and Safety Issues. <i>Journal of Pharmaceutical Sciences</i> , 2014, 103, 1931-1944.	3.3	398
2	Comparison of methods to detect the in vitro activity of silver nanoparticles (AgNP) against multidrug resistant bacteria. <i>Journal of Nanobiotechnology</i> , 2015, 13, 64.	9.1	183
3	Bacterial cellulose production by <i>Gluconacetobacter xylinus</i> by employing alternative culture media. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 1181-1190.	3.6	130
4	Calcium phosphate precipitation in a fluidized bed in relation to process conditions: A black box approach. <i>Water Research</i> , 1996, 30, 1677-1685.	11.3	68
5	INDUSTRIAL CRYSTALLIZATION AND PRECIPITATION FROM SOLUTIONS: STATE OF THE TECHNIQUE. <i>Brazilian Journal of Chemical Engineering</i> , 2001, 18, 423-440.	1.3	68
6	Phosphate removal in a fluidized bed. Process optimization. <i>Water Research</i> , 1996, 30, 1589-1596.	11.3	53
7	Eutectic freeze crystallization in a new apparatus: the cooled disk column crystallizer. <i>Chemical Engineering and Processing: Process Intensification</i> , 2004, 43, 161-167.	3.6	41
8	Phosphate removal in a fluidized bed. Identification of physical processes. <i>Water Research</i> , 1996, 30, 1585-1588.	11.3	40
9	Antimicrobial effectiveness of silver nanoparticles co-stabilized by the bioactive copolymer pluronic F68. <i>Journal of Nanobiotechnology</i> , 2012, 10, 43.	9.1	38
10	Membrane Distillation Crystallization Applied to Brine Desalination: A Hierarchical Design Procedure. <i>Industrial &amp; Engineering Chemistry Research</i> , 2015, 54, 2776-2793.	3.7	35
11	Eco-efficiency analysis of desalination by precipitation integrated with reverse osmosis for zero liquid discharge in oil refineries. <i>Journal of Cleaner Production</i> , 2020, 250, 119547.	9.3	35
12	Evaluation of the Performance of a Newly Developed Eutectic Freeze Crystallizer. <i>Chemical Engineering Research and Design</i> , 2003, 81, 1363-1372.	5.6	27
13	Alkaline extraction of humic substances from peat applied to organic-mineral fertilizer production. <i>Brazilian Journal of Chemical Engineering</i> , 2014, 31, 675-682.	1.3	27
14	Biopolymers from Composted Biowaste as Stabilizers for the Synthesis of Spherical and Homogeneously Sized Silver Nanoparticles for Textile Applications on Natural Fibers. <i>ChemPhysChem</i> , 2015, 16, 3902-3909.	2.1	25
15	MgSO <sub>4</sub> + H <sub>2</sub> O System at Eutectic Conditions and Thermodynamic Solubility Products of MgSO <sub>4</sub> ·12H <sub>2</sub> O(s) and MgSO <sub>4</sub> ·7H <sub>2</sub> O(s). <i>Journal of Chemical &amp; Engineering Data</i> , 2005, 50, 551-555.	1.9	24
16	Diesel exhaust particulates affect cell signaling, mucin profiles, and apoptosis in trachea explants of Balb/C mice. <i>Environmental Toxicology</i> , 2015, 30, 1297-1308.	4.0	23
17	Product characteristics in simultaneous crystallization of NaCl and CaSO <sub>4</sub> from aqueous solution under different evaporation rates. <i>Desalination</i> , 2019, 457, 85-95.	8.2	22
18	INFLUENCE OF HYDRODYNAMICS ON PRECIPITATION: A COMPUTATIONAL STUDY. <i>Chemical Engineering Communications</i> , 1995, 135, 113-131.	2.6	19

#	ARTICLE	IF	CITATIONS
19	Changes in copper sulfate crystal habit during cooling crystallization. Journal of Crystal Growth, 1996, 166, 1089-1093.	1.5	18
20	Solid Phases and Their Solubilities in the System Na <sub>2</sub> CO <sub>3</sub> + NaHCO <sub>3</sub> + Ethylene Glycol + Water from (50) Tj ETQq0 0 0 rgBT /Overlock 10	1.9	18
21	Eutectic Freeze Crystallization with an Aqueous KNO <sub>3</sub> +HNO <sub>3</sub> Solution in a 100-L Cooled-Disk Column Crystallizer. Industrial & Engineering Chemistry Research, 2003, 42, 4874-4880.	3.7	17
22	Water recovery from saline streams produced by electrodialysis. Environmental Technology (United) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.2	17
23	Environmental Performance of Effluent Conditioning Systems for Reuse in Oil Refining Plants: A Case Study in Brazil. Energies, 2019, 12, 326.	3.1	17
24	Effect of Selected Parameters on Crystallization of Copper Sulphate Pentahydrate. Crystal Research and Technology, 1999, 34, 959-967.	1.3	16
25	Dynamic modeling and simulation of eutectic freeze crystallization. Journal of Crystal Growth, 2002, 237-239, 2257-2263.	1.5	15
26	EVALUATION OF SODIUM CHLORIDE CRYSTALLIZATION IN MEMBRANE DISTILLATION CRYSTALLIZATION APPLIED TO WATER DESALINATION. Brazilian Journal of Chemical Engineering, 2016, 33, 675-690.	1.3	15
27	Heat transfer in scraped eutectic crystallizers. International Journal of Heat and Mass Transfer, 2004, 47, 717-728.	4.8	14
28	Membrane Distillation Crystallization Applied to Brine Desalination: Additional Design Criteria. Industrial & Engineering Chemistry Research, 2016, 55, 1004-1012.	3.7	13
29	Simultaneous Crystallization of NaCl and KCl from Aqueous Solution: Elementary Phenomena and Product Characterization. Crystal Growth and Design, 2018, 18, 1645-1656.	3.0	13
30	Reactive Recrystallization of Sodium Bicarbonate. Industrial & Engineering Chemistry Research, 2005, 44, 4272-4283.	3.7	12
31	Comparative antibacterial activity of silver nanoparticles synthesised by biological and chemical routes with pluronic F68 as a stabilising agent. IET Nanobiotechnology, 2016, 10, 200-205.	3.8	12
32	Recrystallization of calcium sulfate in phosphoric acid solutions; batchwise operation. Journal of Crystal Growth, 1990, 99, 1117-1123.	1.5	11
33	Thermodynamic modeling of phases equilibrium in aqueous systems to recover potassium chloride from natural brines. Journal of Materials Research and Technology, 2017, 6, 57-64.	5.8	9
34	Improved barium removal and supersaturation depletion in wastewater by precipitation with excess sulfate. Journal of Water Process Engineering, 2018, 23, 265-276.	5.6	9
35	Strategies To Control Product Characteristics in Simultaneous Crystallization of NaCl and KCl from Aqueous Solution: Seeding with KCl. Crystal Growth and Design, 2019, 19, 1257-1267.	3.0	7
36	PRODUCT CHARACTERISTICS IN SIMULTANEOUS CRYSTALLIZATION OF NaCl AND CaSO <sub>4</sub> FROM AQUEOUS SOLUTION WITH SEEDING. Desalination, 2020, 474, 114180.	8.2	7

#	ARTICLE	IF	CITATIONS
37	In Situ Observation of Epitaxial Growth during Evaporative Simultaneous Crystallization from Aqueous Electrolytes in Droplets. <i>Crystals</i> , 2021, 11, 1122.	2.2	6
38	A new approach to characterize suspensions in stirred vessels based on computational fluid dynamics. <i>Brazilian Journal of Chemical Engineering</i> , 2010, 27, 265-273.	1.3	4
39	Development of static mixers for miscible fluids in laminar flow with the use of computational fluid dynamics (CFD). <i>Canadian Journal of Chemical Engineering</i> , 2011, 89, 734-744.	1.7	4
40	Salt Crystallization on a 1 m <sup>3</sup> Scale: From Hierarchical Design to Pilot Plant Operation. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 4161-4167.	3.7	4
41	Production, stabilisation and characterisation of silver nanoparticles coated with bioactive polymers pluronic F68, PVP and PVA. <i>IET Nanobiotechnology</i> , 2017, 11, 552-556.	3.8	3
42	Application of Model Predictive Control to a Continuous Multiple-Effect Crystallizer. <i>Chemical Engineering and Technology</i> , 2018, 41, 1406-1416.	1.5	3
43	Strategies to control product characteristics in simultaneous crystallization of NaCl and KCl from aqueous solution: seeding with NaCl and KCl. <i>CrystEngComm</i> , 2020, 22, 7590-7600.	2.6	3
44	RECOVERY OF SALEABLE SALTS FROM OCCURRING NATURAL BRINES REPRESENTING THE QUINARY AQUEOUS SYSTEM Na-K-Mg-Ca-Cl. <i>Tecnologia Em Metalurgia, Materiais E Mineracao</i> , 2018, 15, 350-357.	0.2	1
45	Chemical Precipitation of Copper Powder for P/M Applications. <i>Key Engineering Materials</i> , 2001, 189-191, 252-257.	0.4	0
46	Melt crystallization. , 0, , 261-283.		0
47	An Experimental Study to the Effects of Super-Saturation Ratio, Impeller Design and Impeller Speed on Agglomeration of Aluminum Trihydroxide. , 2000, , 151-161.		0