

Marcus Petermann

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

744
citations

687363

13
h-index

580821

25
g-index

68
all docs

68
docs citations

68
times ranked

754
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of paraffin/water emulsion as a phase change slurry for cooling applications. <i>Energy</i> , 2009, 34, 1145-1155.	8.8	141
2	Drying of aqueous green tea extracts using a supercritical fluid spray process. <i>Journal of Supercritical Fluids</i> , 2008, 45, 253-259.	3.2	46
3	An experimental study on rheological behaviors of paraffin/water phase change emulsion. <i>International Journal of Heat and Mass Transfer</i> , 2015, 83, 479-486.	4.8	43
4	Experimental study on heat capacity of paraffin/water phase change emulsion. <i>Energy Conversion and Management</i> , 2010, 51, 1264-1269.	9.2	41
5	Multifunctional composites by high-pressure spray processes. <i>Current Opinion in Solid State and Materials Science</i> , 2003, 7, 385-390.	11.5	38
6	Manufacture of Powder Coatings by Spraying of Gas-Enriched Melts. <i>Chemical Engineering and Technology</i> , 2001, 24, 529.	1.5	36
7	Simultaneous measurement of surface tension and viscosity using freely decaying oscillations of acoustically levitated droplets. <i>Review of Scientific Instruments</i> , 2018, 89, 015109.	1.3	35
8	Electrochemical Reduction of Protic Supercritical CO ₂ on Copper Electrodes. <i>ChemSusChem</i> , 2017, 10, 3660-3670.	6.8	30
9	Virtual Labs and Remote Labs: Practical experience for everyone. , 2014, , .		22
10	Assessing the Influence of Supercritical Carbon Dioxide on the Electrochemical Reduction to Formic Acid Using Carbon-Supported Copper Catalysts. <i>ACS Catalysis</i> , 2020, 10, 12783-12789.	11.2	22
11	New instrument to measure the selective sorption of gas mixtures under high pressures. <i>Journal of Supercritical Fluids</i> , 2008, 45, 156-160.	3.2	19
12	Silica ionogels synthesized with imidazolium based ionic liquids in presence of supercritical CO ₂ . <i>Journal of Supercritical Fluids</i> , 2015, 105, 60-65.	3.2	19
13	Effect of drying parameters on physiochemical and sensory properties of fruit powders processed by PGSS-, Vacuum- and Spray-drying. <i>Acta Chimica Slovenica</i> , 2015, 62, 479-487.	0.6	19
14	Encapsulation of limonene in yeast cells using the concentrated powder form technology. <i>Journal of Supercritical Fluids</i> , 2021, 168, 105076.	3.2	17
15	Supercritical carbon dioxide and imidazolium based ionic liquids applied during the sol-gel process as suitable candidates for the replacement of classical organic solvents. <i>Journal of Supercritical Fluids</i> , 2018, 132, 76-82.	3.2	12
16	Extraction of green tea and drying with a high pressure spray process. <i>Hemijaska Industrija</i> , 2007, 61, 222-228.	0.7	12
17	Micronisation of poly(ethylene oxide) solutions and separation of water by PGSS-Drying. <i>Journal of Supercritical Fluids</i> , 2012, 64, 19-24.	3.2	11
18	Durability Assessment and Physical Properties Investigation of Modified Petung Bamboo (<i>Dendrocalamus asper</i>) as Resulted on Acetylation, Assisted by Supercritical CO ₂ . <i>Procedia Chemistry</i> , 2014, 9, 273-283.	0.7	11

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19	Study of Lâ€“L water-in-oil dispersions generated in SMX-Plus static mixers with dissolved CO 2 under high pressure. <i>Journal of Supercritical Fluids</i> , 2018, 132, 24-32.	3.2	10
20	Urinary excretion of fluorescent advanced glycation end products (AGEs) in the elderly. <i>Journal of Nutrition, Health and Aging</i> , 2008, 12, 222-224.	3.3	9
21	Synthesis and powder generation of powder coatings using supercritical carbon dioxide. <i>Journal of Supercritical Fluids</i> , 2015, 96, 324-333.	3.2	9
22	Supercritical fluid-assisted sprays for particle generation. <i>Journal of Supercritical Fluids</i> , 2018, 134, 234-243.	3.2	9
23	Thermal analysis of the droplet solidification in the PGSS-process. <i>Journal of Supercritical Fluids</i> , 2011, 56, 299-303.	3.2	7
24	Phase inversion and rheological behavior of emulsions stabilized by silica nanoparticles and nanoclay. <i>Journal of Petroleum Science and Engineering</i> , 2019, 177, 624-633.	4.2	7
25	Application of Raman Spectroscopy for Sorption Analysis of Functionalized Porous Materials. <i>Advanced Science</i> , 2022, 9, e2105477.	11.2	7
26	Leucine and Glucose Turnover in Chronic Alcoholics During Early Abstinence and After an Ethanol Load. <i>Alcoholism: Clinical and Experimental Research</i> , 1993, 17, 1295-1300.	2.4	6
27	Manufacturing of pulverised nanocompositesâ€”Dosing and dispersion of additives by the use of supercritical carbon dioxide. <i>Journal of Supercritical Fluids</i> , 2010, 53, 137-141.	3.2	6
28	New sorption and solvation measuring methods: Forced flow through liquids and solid state fluidised bed sorbents in high pressure gravimetry. <i>Fluid Phase Equilibria</i> , 2011, 301, 217-224.	2.5	6
29	Benchmarking of Gasâ€“Assisted Atomization Systems for Liquid Disintegration. <i>Chemical Engineering and Technology</i> , 2016, 39, 699-707.	1.5	5
30	Measurement of sorption phenomena near dew points of fluid mixtures: concept for the combination of gravimetric sorption analysis and Raman spectroscopy. <i>Measurement Science and Technology</i> , 2018, 29, 105501.	2.6	5
31	Method for estimating vapour pressures based on thermogravimetric measurements with a magnetic suspension balance. <i>Thermochimica Acta</i> , 2018, 664, 128-135.	2.7	5
32	In situ measurement of drug transport in porous silica gel. <i>Microporous and Mesoporous Materials</i> , 2018, 260, 17-23.	4.4	4
33	Direct generation of 3D structures by laser polymer deposition. <i>Journal of Laser Applications</i> , 2021, 33, .	1.7	4
34	99. Herstellung von Pulverlacken durch die VersprÃ¼hlung gasgesÃ¤ttigter Schmelzen. <i>Chemie-Ingenieur-Technik</i> , 1999, 71, 1006-1007.	0.8	3
35	Stability of emulsions in presence of compressed propane. <i>Journal of Supercritical Fluids</i> , 2012, 66, 282-290.	3.2	3
36	Apparatur zur Untersuchung der Stofftransportmechanismen an schwebenden Tropfen unter erhÃ¼hten DrÃ¼cken. <i>Chemie-Ingenieur-Technik</i> , 2012, 84, 145-148.	0.8	3

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37	What students use: Results of a survey on media use among engineering students. , 2014, , .		3
38	GoING.Ä broad:: A discipline-specific approach to promote the mobility of German engineering students. , 2017, , .		3
39	International student mobility in engineering education. , 2012, , .		2
40	Influence of scCO ₂ , Ultrasound, and Quaternary Ammonium Salt on Gelation Time and Structural Characteristics of Silica. Chemical Engineering and Technology, 2014, 37, 1873-1878.	1.5	2
41	Vergleich des Stofftransports von hÄngenden und akustisch levitierten Wassertropfen in CO ₂ . Chemie-Ingenieur-Technik, 2014, 86, 666-674.	0.8	2
42	Student exchange programs in engineering sciences between USA and Germany. , 2014, , .		2
43	Polymorphic transition of lipid particles obtained with the PGSS process for pharmaceutical applications. Journal of Supercritical Fluids, 2018, 132, 99-104.	3.2	2
44	Measuring low vapor pressures employing the Knudsen effusion technique and a magnetic suspension balance. Review of Scientific Instruments, 2019, 90, 055105.	1.3	2
45	On the experimental investigation and numerical fluid dynamic simulation of L-L water-in-oil dispersions in Y-junctions under the presence of dissolved CO ₂ . Journal of Supercritical Fluids, 2019, 146, 65-77.	3.2	2
46	Preparation and Processing of Micro- and Nano-Scale Materials by Supercritical Fluid Technology. , 2007, , 367-390.		2
47	Student Exchange Programs in Engineering Sciences Between USA and Germany. , 2016, , 611-617.		2
48	Emulsionsspaltung mit verdichtetem Propan. Chemie-Ingenieur-Technik, 2008, 80, 1289-1289.	0.8	1
49	Viscosity of squalane under carbon dioxide pressure â€” Comparison of acoustic levitation with conventional methods. Journal of Supercritical Fluids, 2018, 141, 252-259.	3.2	1
50	Particle Formation from Gas-Enriched Polymeric Melts and Polymeric Solutions. , 2016, , 235-264.		1
51	Verdichtetes Kohlendioxid - Ein grÄ¼nes Reinigungsmittel fÄ¼r medizinische Teile. Chemie-Ingenieur-Technik, 2012, 84, 1278-1279.	0.8	0
52	CO ₂ -Abtrennung mittels ionischer-FlÄ¼ssigkeits-basierter LÄ¶sungen. Chemie-Ingenieur-Technik, 2013, 85, 1419-1419.	0.8	0
53	Landscape Jormat - A course concept to stimulate interdisciplinary dialogue. , 2014, , .		0
54	ALLES ING! Count me in! Attracting human talents in providing open access to universities with focusing on individual opportunities in engineering sciences. , 2014, , .		0

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55	Chemicals loading in acetylated bamboo assisted by supercritical CO2 based on phase equilibrium data. AIP Conference Proceedings, 2015, , .	0.4	0
56	Polymorphismus bei der HochdruckverdÄ¼sung nach dem PGSS-Verfahren. Chemie-Ingenieur-Technik, 2015, 87, 1072-1072.	0.8	0
57	Universal electromagnetic suspension balance with nanogramme mass resolution for measurement of sorption on small samples in top and bottom loading configurations. Measurement Science and Technology, 2017, 28, 055903.	2.6	0
58	Special Issue - 15th European meeting on supercritical Fluids. Journal of Supercritical Fluids, 2018, 132, 1-2.	3.2	0
59	Enhancement of gravimetric forced flow through system to determine sorption, swelling, and mass transfer characteristics of liquid sorbents. Review of Scientific Instruments, 2018, 89, 045102.	1.3	0