

Marcus Petermann

List of Publications by Year in descending order

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59
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744
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68
docs citations

68
times ranked

754
citing authors

#	ARTICLE	IF	CITATIONS
1	Application of Raman Spectroscopy for Sorption Analysis of Functionalized Porous Materials. <i>Advanced Science</i> , 2022, 9, e2105477.	11.2	7
2	Encapsulation of limonene in yeast cells using the concentrated powder form technology. <i>Journal of Supercritical Fluids</i> , 2021, 168, 105076.	3.2	17
3	Direct generation of 3D structures by laser polymer deposition. <i>Journal of Laser Applications</i> , 2021, 33, .	1.7	4
4	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
5	Measuring low vapor pressures employing the Knudsen effusion technique and a magnetic suspension balance. <i>Review of Scientific Instruments</i> , 2019, 90, 055105.	1.3	2
6	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
7	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 . <i>Journal of Supercritical Fluids</i> , 2019, 146, 65-77.	3.2	2
8	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
9	Viscosity of squalane under carbon dioxide pressure – Comparison of acoustic levitation with conventional methods. <i>Journal of Supercritical Fluids</i> , 2018, 141, 252-259.	3.2	1
10	Supercritical fluid-assisted sprays for particle generation. <i>Journal of Supercritical Fluids</i> , 2018, 134, 234-243.	3.2	9
11	Special Issue - 15th European meeting on supercritical Fluids. <i>Journal of Supercritical Fluids</i> , 2018, 132, 1-2.	3.2	0
12	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
13	Study of L-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
14	Polymorphic transition of lipid particles obtained with the PGSS process for pharmaceutical applications. <i>Journal of Supercritical Fluids</i> , 2018, 132, 99-104.	3.2	2
15	In situ measurement of drug transport in porous silica gel. <i>Microporous and Mesoporous Materials</i> , 2018, 260, 17-23.	4.4	4
16	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
17	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
18	Enhancement of gravimetric forced flow through system to determine sorption, swelling, and mass transfer characteristics of liquid sorbents. <i>Review of Scientific Instruments</i> , 2018, 89, 045102.	1.3	0

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19	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
20	Electrochemical Reduction of Protic Supercritical CO ₂ on Copper Electrodes. ChemSusChem, 2017, 10, 3660-3670.	6.8	30
21	GoING.Ä;broad:: A discipline-specific approach to promote the mobility of German engineering students. , 2017, , .		3
22	Benchmarking of Gasâ€Assisted Atomization Systems for Liquid Disintegration. Chemical Engineering and Technology, 2016, 39, 699-707.	1.5	5
23	Particle Formation from Gas-Enriched Polymeric Melts and Polymeric Solutions. , 2016, , 235-264.		1
24	Student Exchange Programs in Engineering Sciences Between USA and Germany. , 2016, , 611-617.		2
25	Chemicals loading in acetylated bamboo assisted by supercritical CO ₂ based on phase equilibrium data. AIP Conference Proceedings, 2015, , .	0.4	0
26	Polymorphismus bei der HochdruckverÄ¼sung nach dem PGSS-Verfahren. Chemie-Ingenieur-Technik, 2015, 87, 1072-1072.	0.8	0
27	An experimental study on rheological behaviors of paraffin/water phase change emulsion. International Journal of Heat and Mass Transfer, 2015, 83, 479-486.	4.8	43
28	Silica ionogels synthesized with imidazolium based ionic liquids in presence of supercritical CO ₂ . Journal of Supercritical Fluids, 2015, 105, 60-65.	3.2	19
29	Synthesis and powder generation of powder coatings using supercritical carbon dioxide. Journal of Supercritical Fluids, 2015, 96, 324-333.	3.2	9
30	Effect of drying parameters on physiochemical and sensory properties of fruit powders processed by PGSS-, Vacuum- and Spray-drying. Acta Chimica Slovenica, 2015, 62, 479-487.	0.6	19
31	Landscape Jormat - A course concept to stimulate interdisciplinary dialogue. , 2014, , .		0
32	What students use: Results of a survey on media use among engineering students. , 2014, , .		3
33	ALLES ING! Count me in! Attracting human talents in providing open access to universities with focusing on individual opportunities in engineering sciences. , 2014, , .		0
34	Virtual Labs and Remote Labs: Practical experience for everyone. , 2014, , .		22
35	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
36	Vergleich des Stofftransports von hÄngenden und akustisch levitierten Wassertropfen in CO ₂ . Chemie-Ingenieur-Technik, 2014, 86, 666-674.	0.8	2

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37	Student exchange programs in engineering sciences between USA and Germany. , 2014, , .		2
38	Durability Assessment and Physical Properties Investigation of Modified Petung Bamboo (Dendrocalamus asper) as Resulted on Acetylation, Assisted by Supercritical CO ₂ . Procedia Chemistry, 2014, 9, 273-283.	0.7	11
39	CO ₂ -Abtrennung mittels ionischer-Flüssigkeits-basierter Lösungen. Chemie-Ingenieur-Technik, 2013, 85, 1419-1419.	0.8	0
40	International student mobility in engineering education. , 2012, , .		2
41	Verdichtetes Kohlendioxid - Ein gutes Reinigungsmittel für medizinische Teile. Chemie-Ingenieur-Technik, 2012, 84, 1278-1279.	0.8	0
42	Micronisation of poly(ethylene oxide) solutions and separation of water by PGSS-Drying. Journal of Supercritical Fluids, 2012, 64, 19-24.	3.2	11
43	Stability of emulsions in presence of compressed propane. Journal of Supercritical Fluids, 2012, 66, 282-290.	3.2	3
44	Apparatur zur Untersuchung der Stofftransportmechanismen an schwebenden Tropfen unter erhöhten Drücken. Chemie-Ingenieur-Technik, 2012, 84, 145-148.	0.8	3
45	New sorption and solvation measuring methods: Forced flow through liquids and solid state fluidised bed sorbents in high pressure gravimetry. Fluid Phase Equilibria, 2011, 301, 217-224.	2.5	6
46	Thermal analysis of the droplet solidification in the PGSS-process. Journal of Supercritical Fluids, 2011, 56, 299-303.	3.2	7
47	Experimental study on heat capacity of paraffin/water phase change emulsion. Energy Conversion and Management, 2010, 51, 1264-1269.	9.2	41
48	Manufacturing of pulverised nanocomposites – Dosing and dispersion of additives by the use of supercritical carbon dioxide. Journal of Supercritical Fluids, 2010, 53, 137-141.	3.2	6
49	Evaluation of paraffin/water emulsion as a phase change slurry for cooling applications. Energy, 2009, 34, 1145-1155.	8.8	141
50	Urinary excretion of fluorescent advanced glycation end products (AGEs) in the elderly. Journal of Nutrition, Health and Aging, 2008, 12, 222-224.	3.3	9
51	Emulsionsspaltung mit verdichtetem Propan. Chemie-Ingenieur-Technik, 2008, 80, 1289-1289.	0.8	1
52	New instrument to measure the selective sorption of gas mixtures under high pressures. Journal of Supercritical Fluids, 2008, 45, 156-160.	3.2	19
53	Drying of aqueous green tea extracts using a supercritical fluid spray process. Journal of Supercritical Fluids, 2008, 45, 253-259.	3.2	46
54	Extraction of green tea and drying with a high pressure spray process. Hemijska Industrija, 2007, 61, 222-228.	0.7	12

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55	Preparation and Processing of Micro- and Nano-Scale Materials by Supercritical Fluid Technology. , 2007, , 367-390.		2
56	Multifunctional composites by high-pressure spray processes. Current Opinion in Solid State and Materials Science, 2003, 7, 385-390.	11.5	38
57	Manufacture of Powder Coatings by Spraying of Gas-Enriched Melts. Chemical Engineering and Technology, 2001, 24, 529.	1.5	36
58	99. Herstellung von Pulverlacken durch die Versprühung gasgesättigter Schmelzen. Chemie-Ingenieur-Technik, 1999, 71, 1006-1007.	0.8	3
59	Leucine and Glucose Turnover in Chronic Alcoholics During Early Abstinence and After an Ethanol Load. Alcoholism: Clinical and Experimental Research, 1993, 17, 1295-1300.	2.4	6