

Leen Braeken

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

2,388
citations

159525

30
h-index

206029

48
g-index

61
all docs

61
docs citations

61
times ranked

2470
citing authors

#	ARTICLE	IF	CITATIONS
1	Batch reactor scale-up of the mixing-sensitive Bechamp reaction based on the heat pulse method. <i>Chemical Engineering Science</i> , 2022, 247, 116928.	1.9	2
2	Overcoming mass and photon transfer limitations in a scalable reactor: Oxidation in an aerosol photoreactor. <i>Chemical Engineering Journal</i> , 2021, 408, 127357.	6.6	11
3	Ultrasound as a tool for polymorph control and high yield in flow crystallization. <i>Chemical Engineering Journal</i> , 2021, 408, 127272.	6.6	15
4	Ultrasound in Continuous Tubular Crystallizers: Parameters Affecting the Nucleation Rate. <i>Crystals</i> , 2021, 11, 1054.	1.0	3
5	Continuous Production of Water-Based UV-Curable Polyurethane Dispersions Using Static Mixers and a Rotor-Stator Mixer. <i>ACS Omega</i> , 2021, 6, 25884-25891.	1.6	1
6	Continuous Crystallization Using Ultrasound Assisted Nucleation, Cubic Cooling Profiles and Oscillatory Flow. <i>Processes</i> , 2021, 9, 2268.	1.3	2
7	Dawn of a new era in industrial photochemistry: the scale-up of micro- and mesostructured photoreactors. <i>Beilstein Journal of Organic Chemistry</i> , 2020, 16, 2484-2504.	1.3	44
8	Scale-up of continuous microcapsule production. <i>Chemical Engineering and Processing: Process Intensification</i> , 2020, 153, 107989.	1.8	2
9	How Photocatalyst Dosage and Ultrasound Application Influence the Photocatalytic Degradation Rate of Phenol in Water: Elucidating the Mechanisms Behind. <i>Water (Switzerland)</i> , 2020, 12, 1672.	1.2	10
10	Characterization method for mass mixing in batch reactors based on temperature profiles. <i>Chemical Engineering Research and Design</i> , 2020, 156, 300-310.	2.7	2
11	Process intensified anti-solvent crystallization of o-aminobenzoic acid via sonication and flow. <i>Chemical Engineering and Processing: Process Intensification</i> , 2020, 149, 107823.	1.8	8
12	Enhancing pharmaceutical crystallization in a flow crystallizer with ultrasound: Anti-solvent crystallization. <i>Ultrasonics Sonochemistry</i> , 2019, 59, 104743.	3.8	35
13	Development of a continuous reactor for emulsion-based microencapsulation of hexyl acetate with a polyuria shell. <i>Journal of Microencapsulation</i> , 2019, 36, 371-384.	1.2	3
14	Sonocrystallisation: Observations, theories and guidelines. <i>Chemical Engineering and Processing: Process Intensification</i> , 2019, 139, 130-154.	1.8	44
15	Effect of fluid properties on ultrasound assisted liquid-liquid extraction in a microchannel. <i>Ultrasonics Sonochemistry</i> , 2018, 42, 68-75.	3.8	19
16	Reducing the Induction Time Using Ultrasound and High-Shear Mixing in a Continuous Crystallization Process. <i>Crystals</i> , 2018, 8, 326.	1.0	23
17	Energy efficient crystallization of paracetamol using pulsed ultrasound. <i>Chemical Engineering and Processing: Process Intensification</i> , 2017, 114, 55-66.	1.8	39
18	Characterization of Milli- and Microflow Reactors: Mixing Efficiency and Residence Time Distribution. <i>Organic Process Research and Development</i> , 2017, 21, 531-542.	1.3	85

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19	Particle Size Control during Ultrasonic Cooling Crystallization of Paracetamol. <i>Chemical Engineering and Technology</i> , 2017, 40, 1300-1308.	0.9	21
20	Temperature controlled interval contact design for ultrasound assisted liquid-liquid extraction. <i>Chemical Engineering Research and Design</i> , 2017, 125, 146-155.	2.7	24
21	Technical and clinical validation of three commercial real-time PCR kits for the diagnosis of neuroborreliosis in cerebrospinal fluid on three different real-time PCR platforms. <i>European Journal of Clinical Microbiology and Infectious Diseases</i> , 2017, 36, 273-279.	1.3	2
22	Ultrasound assisted liquid-liquid extraction with a novel interval-contact reactor. <i>Chemical Engineering and Processing: Process Intensification</i> , 2017, 113, 35-41.	1.8	29
23	Agglomeration Control during Ultrasonic Crystallization of an Active Pharmaceutical Ingredient. <i>Crystals</i> , 2017, 7, 40.	1.0	47
24	Ultrasound Assisted Particle Size Control by Continuous Seed Generation and Batch Growth. <i>Crystals</i> , 2017, 7, 195.	1.0	24
25	Remarkable Anti-Fouling Performance of TiO ₂ -Modified TFC Membranes with Mussel-Inspired Polydopamine Binding. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 81.	1.3	23
26	Ultrasonic precipitation of manganese carbonate: Reactor design and scale-up. <i>Chemical Engineering Research and Design</i> , 2016, 115, 131-144.	2.7	9
27	Sonofragmentation: Effect of Ultrasound Frequency and Power on Particle Breakage. <i>Crystal Growth and Design</i> , 2016, 16, 6167-6177.	1.4	79
28	Ultrasound assisted liquid-liquid extraction in microchannels—A direct contact method. <i>Chemical Engineering and Processing: Process Intensification</i> , 2016, 102, 37-46.	1.8	42
29	Influence of dissolved gases on sonochemistry and sonoluminescence in a flow reactor. <i>Ultrasonics Sonochemistry</i> , 2016, 31, 463-472.	3.8	36
30	The effects of ultrasound on micromixing. <i>Ultrasonics Sonochemistry</i> , 2016, 32, 68-78.	3.8	41
31	Ultrasound precipitation of manganese carbonate: The effect of power and frequency on particle properties. <i>Ultrasonics Sonochemistry</i> , 2015, 26, 64-72.	3.8	36
32	A design of composite hollow fiber membranes with tunable performance and reinforced mechanical strength. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	5
33	Characterization of stable and transient cavitation bubbles in a milliflow reactor using a multibubble sonoluminescence quenching technique. <i>Ultrasonics Sonochemistry</i> , 2015, 25, 31-39.	3.8	32
34	Determination of the effect of the ultrasonic frequency on the cooling crystallization of paracetamol. <i>Chemical Engineering and Processing: Process Intensification</i> , 2014, 84, 38-44.	1.8	49
35	Potential of activated carbon to recover randomly-methylated- β -cyclodextrin solution from washing water originating from in situ soil flushing. <i>Science of the Total Environment</i> , 2014, 485-486, 764-768.	3.9	4
36	Investigation of design parameters in ultrasound reactors with confined channels. <i>Ultrasonics Sonochemistry</i> , 2013, 20, 1345-1352.	3.8	32

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37	Novel binding procedure of TiO ₂ nanoparticles to thin film composite membranes via self-polymerized polydopamine. <i>Journal of Membrane Science</i> , 2013, 437, 179-188.	4.1	134
38	AOX removal from industrial wastewaters using advanced oxidation processes: assessment of a combined chemical—biological oxidation. <i>Water Science and Technology</i> , 2013, 68, 2048-2054.	1.2	7
39	Kinetic Study and Scaleup of the Oxidation of Nanofiltration Retentates by O ₃ . <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 7056-7066.	1.8	6
40	Ozone oxidation for the alleviation of membrane fouling by natural organic matter: A review. <i>Water Research</i> , 2011, 45, 3551-3570.	5.3	219
41	Evaluation of electrodialysis for scaling prevention of nanofiltration membranes at high water recoveries. <i>Resources, Conservation and Recycling</i> , 2011, 56, 34-42.	5.3	25
42	Influence of type and position of functional groups of phenolic compounds on NF/RO performance. <i>Journal of Membrane Science</i> , 2011, 372, 380-386.	4.1	38
43	Ozone oxidation of nanofiltration concentrates alleviates membrane fouling in drinking water industry. <i>Journal of Membrane Science</i> , 2011, 378, 128-137.	4.1	59
44	Eightfold increased membrane flux of NF 270 by O ₃ oxidation of natural humic acids without deteriorated permeate quality. <i>Journal of Chemical Technology and Biotechnology</i> , 2010, 85, 1480-1488.	1.6	8
45	The use of integrated countercurrent nanofiltration cascades for advanced separations. <i>Journal of Chemical Technology and Biotechnology</i> , 2009, 84, 391-398.	1.6	45
46	Feasibility of nanofiltration for the removal of endocrine disrupting compounds. <i>Desalination</i> , 2009, 240, 127-131.	4.0	28
47	Integrated nanofiltration cascades with low salt rejection for complete removal of pesticides in drinking water production. <i>Desalination</i> , 2009, 241, 111-117.	4.0	49
48	Ozonation and perozone oxidation of humic acids in nanofiltration concentrates. <i>Desalination and Water Treatment</i> , 2009, 6, 217-221.	1.0	8
49	Comparison of Methods To Enhance Separation Characteristics in Nanofiltration. <i>Industrial & Engineering Chemistry Research</i> , 2007, 46, 2236-2242.	1.8	5
50	Flux Decline in Nanofiltration Due to Adsorption of Dissolved Organic Compounds: A Model Prediction of Time Dependency. <i>Journal of Physical Chemistry B</i> , 2006, 110, 2957-2962.	1.2	50
51	The challenge of zero discharge: from water balance to regeneration. <i>Desalination</i> , 2006, 188, 177-183.	4.0	40
52	Improved separation efficiency in nanofiltration by using a membrane stack. <i>Desalination</i> , 2006, 199, 302-304.	4.0	0
53	Transport mechanisms of dissolved organic compounds in aqueous solution during nanofiltration. <i>Journal of Membrane Science</i> , 2006, 279, 311-319.	4.1	86
54	Assessment of a semi-quantitative method for estimation of the rejection of organic compounds in aqueous solution in nanofiltration. <i>Journal of Chemical Technology and Biotechnology</i> , 2006, 81, 1166-1176.	1.6	52

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55	Influence of hydrophobicity on retention in nanofiltration of aqueous solutions containing organic compounds. <i>Journal of Membrane Science</i> , 2005, 252, 195-203.	4.1	178
56	Modeling of the Adsorption of Organic Compounds on Polymeric Nanofiltration Membranes in Solutions Containing Two Compounds. <i>ChemPhysChem</i> , 2005, 6, 1606-1612.	1.0	38
57	How a Microfiltration Pretreatment Affects the Performance in Nanofiltration. <i>Separation Science and Technology</i> , 2005, 39, 1443-1459.	1.3	17
58	Removal of pesticides by nanofiltration: effect of the water matrix. <i>Separation and Purification Technology</i> , 2004, 38, 163-172.	3.9	135
59	Regeneration of brewery waste water using nanofiltration. <i>Water Research</i> , 2004, 38, 3075-3082.	5.3	76
60	Flux decline in nanofiltration due to adsorption of organic compounds. <i>Separation and Purification Technology</i> , 2002, 29, 23-31.	3.9	114
61	Evaluation of parameters describing flux decline in nanofiltration of aqueous solutions containing organic compounds. <i>Desalination</i> , 2002, 147, 281-288.	4.0	88