Leen Braeken

List of Publications by Year
in descending order

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		159525	206029
61	2,388	30	48
papers	citations	h-index	g-index

61	61	61	2470
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ozone oxidation for the alleviation of membrane fouling by natural organic matter: A review. Water Research, 2011, 45, 3551-3570.	5.3	219
2	Influence of hydrophobicity on retention in nanofiltration of aqueous solutions containing organic compounds. Journal of Membrane Science, 2005, 252, 195-203.	4.1	178
3	Removal of pesticides by nanofiltration: effect of the water matrix. Separation and Purification Technology, 2004, 38, 163-172.	3.9	135
4	Novel binding procedure of TiO2 nanoparticles to thin film composite membranes via self-polymerized polydopamine. Journal of Membrane Science, 2013, 437, 179-188.	4.1	134
5	Flux decline in nanofiltration due to adsorption of organic compounds. Separation and Purification Technology, 2002, 29, 23-31.	3.9	114
6	Evaluation of parameters describing flux decline in nanofiltration of aqueous solutions containing organic compounds. Desalination, 2002, 147, 281-288.	4.0	88
7	Transport mechanisms of dissolved organic compounds in aqueous solution during nanofiltration. Journal of Membrane Science, 2006, 279, 311-319.	4.1	86
8	Characterization of Milli- and Microflow Reactors: Mixing Efficiency and Residence Time Distribution. Organic Process Research and Development, 2017, 21, 531-542.	1.3	85
9	Sonofragmentation: Effect of Ultrasound Frequency and Power on Particle Breakage. Crystal Growth and Design, 2016, 16, 6167-6177.	1.4	79
10	Regeneration of brewery waste water using nanofiltration. Water Research, 2004, 38, 3075-3082.	5.3	76
11	Ozone oxidation of nanofiltration concentrates alleviates membrane fouling in drinking water industry. Journal of Membrane Science, 2011, 378, 128-137.	4.1	59
12	Assessment of a semi-quantitative method for estimation of the rejection of organic compounds in aqueous solution in nanofiltration. Journal of Chemical Technology and Biotechnology, 2006, 81, 1166-1176.	1.6	52
13	Flux Decline in Nanofiltration Due to Adsorption of Dissolved Organic Compounds:Â Model Prediction of Time Dependency. Journal of Physical Chemistry B, 2006, 110, 2957-2962.	1.2	50
14	Integrated nanofiltration cascades with low salt rejection for complete removal of pesticides in drinking water production. Desalination, 2009, 241, 111-117.	4.0	49
15	Determination of the effect of the ultrasonic frequency on the cooling crystallization of paracetamol. Chemical Engineering and Processing: Process Intensification, 2014, 84, 38-44.	1.8	49
16	Agglomeration Control during Ultrasonic Crystallization of an Active Pharmaceutical Ingredient. Crystals, 2017, 7, 40.	1.0	47
17	The use of integrated countercurrent nanofiltration cascades for advanced separations. Journal of Chemical Technology and Biotechnology, 2009, 84, 391-398.	1.6	45
18	Sonocrystallisation: Observations, theories and guidelines. Chemical Engineering and Processing: Process Intensification, 2019, 139, 130-154.	1.8	44

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19	Dawn of a new era in industrial photochemistry: the scale-up of micro- and mesostructured photoreactors. Beilstein Journal of Organic Chemistry, 2020, 16, 2484-2504.	1.3	44
20	Ultrasound assisted liquidâ€“liquid extraction in microchannelsâ€”A direct contact method. Chemical Engineering and Processing: Process Intensification, 2016, 102, 37-46.	1.8	42
21	The effects of ultrasound on micromixing. Ultrasonics Sonochemistry, 2016, 32, 68-78.	3.8	41
22	The challenge of zero discharge: from water balance to regeneration. Desalination, 2006, 188, 177-183.	4.0	40
23	Energy efficient crystallization of paracetamol using pulsed ultrasound. Chemical Engineering and Processing: Process Intensification, 2017, 114, 55-66.	1.8	39
24	Modeling of the Adsorption of Organic Compounds on Polymeric Nanofiltration Membranes in Solutions Containing Two Compounds. ChemPhysChem, 2005, 6, 1606-1612.	1.0	38
25	Influence of type and position of functional groups of phenolic compounds on NF/RO performance. Journal of Membrane Science, 2011, 372, 380-386.	4.1	38
26	Ultrasound precipitation of manganese carbonate: The effect of power and frequency on particle properties. Ultrasonics Sonochemistry, 2015, 26, 64-72.	3.8	36
27	Influence of dissolved gases on sonochemistry and sonoluminescence in a flow reactor. Ultrasonics Sonochemistry, 2016, 31, 463-472.	3.8	36
28	Enhancing pharmaceutical crystallization in a flow crystallizer with ultrasound: Anti-solvent crystallization. Ultrasonics Sonochemistry, 2019, 59, 104743.	3.8	35
29	Investigation of design parameters in ultrasound reactors with confined channels. Ultrasonics Sonochemistry, 2013, 20, 1345-1352.	3.8	32
30	Characterization of stable and transient cavitation bubbles in a milliflow reactor using a multibubble sonoluminescence quenching technique. Ultrasonics Sonochemistry, 2015, 25, 31-39.	3.8	32
31	Ultrasound assisted liquidâ€“liquid extraction with a novel interval-contact reactor. Chemical Engineering and Processing: Process Intensification, 2017, 113, 35-41.	1.8	29
32	Feasibility of nanofiltration for the removal of endocrine disrupting compounds. Desalination, 2009, 240, 127-131.	4.0	28
33	Evaluation of electrodialysis for scaling prevention of nanofiltration membranes at high water recoveries. Resources, Conservation and Recycling, 2011, 56, 34-42.	5.3	25
34	Temperature controlled interval contact design for ultrasound assisted liquidâ€“liquid extraction. Chemical Engineering Research and Design, 2017, 125, 146-155.	2.7	24
35	Ultrasound Assisted Particle Size Control by Continuous Seed Generation and Batch Growth. Crystals, 2017, 7, 195.	1.0	24
36	Remarkable Anti-Fouling Performance of TiO2-Modified TFC Membranes with Mussel-Inspired Polydopamine Binding. Applied Sciences (Switzerland), 2017, 7, 81.	1.3	23

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37	Reducing the Induction Time Using Ultrasound and High-Shear Mixing in a Continuous Crystallization Process. Crystals, 2018, 8, 326.	1.0	23
38	Particle Size Control during Ultrasonic Cooling Crystallization of Paracetamol. Chemical Engineering and Technology, 2017, 40, 1300-1308.	0.9	21
39	Effect of fluid properties on ultrasound assisted liquid-liquid extraction in a microchannel. Ultrasonics Sonochemistry, 2018, 42, 68-75.	3.8	19
40	How a Microfiltration Pretreatment Affects the Performance in Nanofiltration. Separation Science and Technology, 2005, 39, 1443-1459.	1.3	17
41	Ultrasound as a tool for polymorph control and high yield in flow crystallization. Chemical Engineering Journal, 2021, 408, 127272.	6.6	15
42	Overcoming mass and photon transfer limitations in a scalable reactor: Oxidation in an aerosol photoreactor. Chemical Engineering Journal, 2021, 408, 127357.	6.6	11
43	How Photocatalyst Dosage and Ultrasound Application Influence the Photocatalytic Degradation Rate of Phenol in Water: Elucidating the Mechanisms Behind. Water (Switzerland), 2020, 12, 1672.	1.2	10
44	Ultrasonic precipitation of manganese carbonate: Reactor design and scale-up. Chemical Engineering Research and Design, 2016, 115, 131-144.	2.7	9
45	Ozonation and perozonation of humic acids in nanofiltration concentrates. Desalination and Water Treatment, 2009, 6, 217-221.	1.0	8
46	Eightfold increased membrane flux of NF 270 by O₃ oxidation of natural humic acids without deteriorated permeate quality. Journal of Chemical Technology and Biotechnology, 2010, 85, 1480-1488.	1.6	8
47	Process intensified anti-solvent crystallization of o-aminobenzoic acid via sonication and flow. Chemical Engineering and Processing: Process Intensification, 2020, 149, 107823.	1.8	8
48	AOX removal from industrial wastewaters using advanced oxidation processes: assessment of a combined chemicalâ€“biological oxidation. Water Science and Technology, 2013, 68, 2048-2054.	1.2	7
49	Kinetic Study and Scaleup of the Oxidation of Nanofiltration Retentates by O₃. Industrial & Engineering Chemistry Research, 2012, 51, 7056-7066.	1.8	6
50	Comparison of Methods To Enhance Separation Characteristics in Nanofiltration. Industrial & Engineering Chemistry Research, 2007, 46, 2236-2242.	1.8	5
51	A design of composite hollow fiber membranes with tunable performance and reinforced mechanical strength. Journal of Applied Polymer Science, 2015, 132, .	1.3	5
52	Potential of activated carbon to recover randomly-methylated-Î²-cyclodextrin solution from washing water originating from in situ soil flushing. Science of the Total Environment, 2014, 485-486, 764-768.	3.9	4
53	Development of a continuous reactor for emulsion-based microencapsulation of hexyl acetate with a polyuria shell. Journal of Microencapsulation, 2019, 36, 371-384.	1.2	3
54	Ultrasound in Continuous Tubular Crystallizers: Parameters Affecting the Nucleation Rate. Crystals, 2021, 11, 1054.	1.0	3

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55	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. European Journal of Clinical Microbiology and Infectious Diseases, 2017, 36, 273-279.	1.3	2
56	Scale-up of continuous microcapsule production. Chemical Engineering and Processing: Process Intensification, 2020, 153, 107989.	1.8	2
57	Characterization method for mass mixing in batch reactors based on temperature profiles. Chemical Engineering Research and Design, 2020, 156, 300-310.	2.7	2
58	Batch reactor scale-up of the mixing-sensitive Bechamp reaction based on the heat pulse method. Chemical Engineering Science, 2022, 247, 116928.	1.9	2
59	Continuous Crystallization Using Ultrasound Assisted Nucleation, Cubic Cooling Profiles and Oscillatory Flow. Processes, 2021, 9, 2268.	1.3	2
60	Continuous Production of Water-Based UV-Curable Polyurethane Dispersions Using Static Mixers and a Rotor-Stator Mixer. ACS Omega, 2021, 6, 25884-25891.	1.6	1
61	Improved separation efficiency in nanofiltration by using a membrane stack. Desalination, 2006, 199, 302-304.	4.0	0