Laurent E Prat

List of Publications by Year
in descending order

61	1,657	331538 21	289141 40
papers	citations	h-index	g-index

61	61	61	1863
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Exploration of a Two-Step Aqueous Process for the Valorization of Sodium Fluorosilicate (Na2SiF6), an Intermediate Product of the Fluorosilicic Acid Conversion. Waste and Biomass Valorization, 2022, 13, 547-562.	1.8	5
2	Carbonation of Calcium Silicate Hydrates as Secondary Raw Material from the Recovery of Hexafluorosilicic Acid. ACS Sustainable Chemistry and Engineering, 2022, 10, 6023-6032.	3.2	2
3	Gas-liquid flow characterization and mass transfer study in a microreactor for oligomerization catalyst testing. Chemical Engineering and Processing: Process Intensification, 2021, 166, 108476.	1.8	1
4	Experimental Methodology for Kinetic Acquisitions Using High Velocities in a Microfluidic Device. Chemical Engineering and Technology, 2019, 42, 2223-2230.	0.9	5
5	Effects of Process Parameters on an Inverse Concentrated Miniemulsion Flowing in a Microchannel. Chemical Engineering and Technology, 2018, 41, 1965-1974.	0.9	3
6	Real time monitoring of the quiescent suspension copolymerization of vinyl chloride with methyl methacrylate in microreactors â€“ Part 3. A kinetic study by raman spectroscopy and evolution of droplet size. Chemical Engineering Science, 2017, 173, 493-506.	1.9	3
7	General design methodology for reactive liquidâ€“liquid extraction: Application to dicarboxylic acid recovery in fermentation broth. Chemical Engineering and Processing: Process Intensification, 2017, 113, 20-34.	1.8	13
8	Recovery of succinic acid in fermentation broth via reactive LL extraction: effect of chemical kinetics and solvent choice. Computer Aided Chemical Engineering, 2017, , 1099-1104.	0.3	0
9	Optical Feedback Interferometry for Velocity Measurement of Parallel Liquid-Liquid Flows in a Microchannel. Sensors, 2016, 16, 1233.	2.1	18
10	Microreactors as a Tool for Acquiring Kinetic Data on Photochemical Reactions. Chemical Engineering and Technology, 2016, 39, 115-122.	0.9	13
11	Stoichio-kinetic model discrimination and parameter identification in continuous microreactors. Chemical Engineering Research and Design, 2016, 114, 39-51.	2.7	4
12	Continuous-flow photochemistry: A need for chemical engineering. Chemical Engineering and Processing: Process Intensification, 2016, 104, 120-132.	1.8	109
13	Real time monitoring of the quiescent suspension polymerization of vinyl chloride in microreactors â€“ Part 2. A kinetic study by Raman spectroscopy and evolution of droplet size. Chemical Engineering Science, 2016, 145, 279-293.	1.9	11
14	What are the needs for Process Intensification?. Oil and Gas Science and Technology, 2015, 70, 463-473.	1.4	17
15	Real time monitoring of the quiescent suspension polymerization of methyl methacrylate in microreactorsâ€”Part 1. A kinetic study by Raman spectroscopy and evolution of droplet size. Chemical Engineering Science, 2015, 131, 340-352.	1.9	15
16	Impact of the diffusion limitation in microphotoreactors. AICHE Journal, 2015, 61, 1284-1299.	1.8	27
17	Experiments of mass transfer with liquidâ€“liquid slug flow in square microchannels. Chemical Engineering Science, 2014, 105, 169-178.	1.9	83
18	Accurate Measurement of the Photon Flux Received Inside Two Continuous Flow Microphotoreactors by Actinometry. International Journal of Chemical Reactor Engineering, 2014, 12, 257-269.	0.6	45

#	Article	IF	Citations
19	Transparent and Inexpensive Microfluidic Device for Twoâ€Phase Flow Systems with Highâ€Pressure Performance. Chemical Engineering and Technology, 2014, 37, 1929-1937.	0.9	9
20	Flow profile measurement in microchannel using the optical feedback interferometry sensing technique. Microfluidics and Nanofluidics, 2013, 14, 113-119.	1.0	59
21	Photochemical synthesis of a â€œcageâ€•compound in a microreactor: Rigorous comparison with a batch photoreactor. Chemical Engineering and Processing: Process Intensification, 2013, 64, 38-47.	1.8	42
22	Modelling the kinetics of transesterification reaction of sunflower oil with ethanol in microreactors. Chemical Engineering Science, 2013, 87, 258-269.	1.9	55
23	On-line monitoring of the transesterification reaction carried out in microreactors using near infrared spectroscopy. Fuel, 2013, 104, 318-325.	3.4	26
24	Transposition of a triphosgene-based process for pharmaceutical development: from mgÂ·h-1 to kgÂ·h-1 of an unsymmetrical urea. Green Processing and Synthesis, 2013, 2, .	1.3	4
25	Development of continuous processes for vegetable oil alcoholysis in microfluidic devices. Oleagineux Corps Gras Lipides, 2013, 20, 23-32.	0.2	0
26	Online Monitoring of Vinyl Chloride Polymerization in a Microreactor Using Raman Spectroscopy. Chemical Engineering and Technology, 2012, 35, 705-712.	0.9	15
27	Some recent advances in the design and the use of miniaturized droplet-based continuous process: Applications in chemistry and high-pressure microflows. Lab on A Chip, 2011, 11, 779-787.	3.1	68
28	Numerical study of the coupling between reaction and mass transfer for liquid-liquid slug flow in square microchannels. AICHE Journal, 2011, 57, 1719-1732.	1.8	19
29	On-line monitoring of the transesterification reaction between triglycerides and ethanol using near infrared spectroscopy combined with gas chromatography. Bioresource Technology, 2011, 102, 6702-6709.	4.8	47
30	Handling of Polymer Particles in Microchannels. Chemical Engineering and Technology, 2010, 33, 1779-1787.	0.9	14
31	Intensification of Ester Production in a Continuous Reactor. International Journal of Chemical Reactor Engineering, 2009, 7, .	0.6	3
32	Fast Built and Designed Microdevices for Earlyâ€Stage Liquidâ€Liquid System Studies. Chemical Engineering and Technology, 2009, 32, 1823-1830.	0.9	2
33	Effect of microchannel aspect ratio on residence time distributions and the axial dispersion coefficient. Chemical Engineering and Processing: Process Intensification, 2009, 48, 554-559.	1.8	55
34	Co-axial capillaries microfluidic device for synthesizing size- and morphology-controlled polymer core-polymer shell particles. Lab on A Chip, 2009, 9, 3007.	3.1	74
35	Hydrodynamic structures of droplets engineered in rectangular micro-channels. Microfluidics and Nanofluidics, 2008, 5, 131-137.	1.0	58
36	Microfluidic synthesis and assembly of reactive polymer beads to form new structured polymer materials. Chemical Engineering Journal, 2008, 135, S93-S98.	6.6	39

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37	Direct numerical simulations of mass transfer in square microchannels for liquidâ€“liquid slug flow. Chemical Engineering Science, 2008, 63, 5522-5530.	1.9	69
38	Pre-Design of a Continuous Intensified Reactor Based on Pure Thermo-Chemical Optimisation. Chemical Product and Process Modeling, 2008, 3, .	0.5	1
39	A Predictive Approach of the Influence of the Operating Parameters on the Size of Polymer Particles Synthesized in a Simplified Microfluidic System. Langmuir, 2007, 23, 7745-7750.	1.6	93
40	Fast Batch to Continuous Solid-Liquid Extraction from Plants in Continuous Industrial Extractor. Chemical Engineering and Technology, 2007, 30, 46-51.	0.9	14
41	Use of Pulsation to Control Polydispersed Particle Flow in a New Type of Pulsed Column. Chemical Engineering and Technology, 2007, 30, 1571-1575.	0.9	0
42	Mixing characterization inside microdroplets engineered on a microcoalescer. Chemical Engineering Science, 2007, 62, 1042-1048.	1.9	95
43	Selection of Sensors by a New Methodology Coupling a Classification Technique and Entropy Criteria. Chemical Engineering Research and Design, 2007, 85, 825-838.	2.7	11
44	Increasing and decreasing droplets velocity in microchannels. Microfluidics and Nanofluidics, 2006, 2, 271-274.	1.0	11
45	Optimisation of solvent replacement procedures according to economic and environmental criteria. Chemical Engineering Journal, 2006, 117, 169-177.	6.6	27
46	Fast Batch to Continuous Transposition: Application to the Extraction of Andrographolide from Plants. Chemical Engineering and Technology, 2006, 29, 401-407.	0.9	12
47	An Innovative Pulsed Column Applied to Solid-Liquid Contacting the BPC Column. Chemical Engineering and Technology, 2006, 29, 729-735.	0.9	4
48	Experimental and numerical study of droplets hydrodynamics in microchannels. AICHE Journal, 2006, 52, 4061-4070.	1.8	109
49	Mise en Å“uvre de micro-rÃ©acteurs Ã lâ€™Ã©chelle de micro-gouttesÂ: caractÃ©risation du mÃ©lange. Houille Blanche, 2006, 92, 50-55.	0.3	2
50	A New Pulsation Policy in a Disk and Doughnut Pulsed Column Applied to Solid-Liquid Extraction of Andrographolide from Plants. Chemical Engineering and Technology, 2005, 28, 110-118.	0.9	4
51	Performance Evaluation of a Novel Concept â€œOpen Plate Reactorâ€•Applied to Highly Exothermic Reactions. Chemical Engineering and Technology, 2005, 28, 1028-1034.	0.9	33
52	Measurement-based run-to-run optimization of a batch reaction-distillation system. Computer Aided Chemical Engineering, 2005, 20, 1417-1422.	0.3	1
53	Solidâ€“liquid extraction of andrographolide from plantsâ€”experimental study, kinetic reaction and model. Separation and Purification Technology, 2004, 40, 147-154.	3.9	130
54	Influence of solvent choice on the optimisation of a reactionâ€“separation operation: application to a Beckmann rearrangement reaction. Separation and Purification Technology, 2004, 34, 273-281.	3.9	13

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55	Solidâ€“liquid transport in a modified co-rotating twin-screw extruderâ€”dynamic simulator and experimental validations. Chemical Engineering and Processing: Process Intensification, 2004, 43, 881-886.	1.8	4
56	Dynamic models for start-up operations of batch distillation columns with experimental validation. Computers and Chemical Engineering, 2004, 28, 2735-2747.	2.0	22
57	A global approach for the optimisation of batch reaction-separation processes. Computer Aided Chemical Engineering, 2003, 14, 641-646.	0.3	0
58	Optimisation of a Methyl Acetate Production Process by Reactive Batch Distillation. Computer Aided Chemical Engineering, 2002, , 475-480.	0.3	2
59	A one dimensional model for the prediction of extraction yields in a two phases modified twin-screw extruder. Chemical Engineering and Processing: Process Intensification, 2002, 41, 743-751.	1.8	16
60	Optimisation of global pharmaceutical syntheses integrating environmental aspects. Computer Aided Chemical Engineering, 2001, 9, 1127-1132.	0.3	1
61	Two phase residence time distribution in a modified twin screw extruder. Chemical Engineering and Processing: Process Intensification, 1999, 38, 73-83.	1.8	20