Klavs F Jensen

List of Publications by Year in Descending Order

521 papers	40,226 citations	105 h-index	184 g-index
550 ext. papers	44,934 ext. citations	6.7 avg, IF	7.9 L-index

#	Paper	IF	Citations
521	The Open Reaction Database. *Journal of the American Chemical Society*, **2021**, 143, 18820-18826	16.4	18
520	Photoredox Iridium–Nickel Dual Catalyzed Cross-Electrophile Coupling: From a Batch to a Continuous Stirred-Tank Reactor via an Automated Segmented Flow Reactor. *Organic Process Research and Development*, **2021**, 25, 2323-2330	3.9	4
519	Dispersion in coiled tubular reactors: A CFD and experimental analysis on the effect of pitch. *Chemical Engineering Science*, **2021**, 233, 116393	4.4	1
518	Ready, Set, Flow! Automated Continuous Synthesis and Optimization. *Trends in Chemistry*, **2021**, 3, 373-386	14.8	15
517	On-Demand Continuous Manufacturing of Ciprofloxacin in Portable Plug-and-Play Factories: Development of a Highly Efficient Synthesis for Ciprofloxacin. *Organic Process Research and Development*, **2021**, 25, 1524-1533	3.9	6
516	Direct Optimization across Computer-Generated Reaction Networks Balances Materials Use and Feasibility of Synthesis Plans for Molecule Libraries. *Journal of Chemical Information and Modeling*, **2021**, 61, 493-504	6.1	3
515	Toward Machine Learning-Enhanced High-Throughput Experimentation. *Trends in Chemistry*, **2021**, 3, 120-132	14.8	20
514	A high-temperature continuous stirred-tank reactor cascade for the multistep synthesis of InP/ZnS quantum dots. *Reaction Chemistry and Engineering*, **2021**, 6, 459-464	4.9	3
513	Nanocrystal synthesis, fluidic sample dilution and direct extraction of single emission linewidths in continuous flow. *Lab on A Chip*, **2020**, 20, 1975-1980	7.2	
512	Development of a Versatile Modular Flow Chemistry Benchtop System. *Organic Process Research and Development*, **2020**, 24, 2105-2112	3.9	1
511	Continuous flow Suzuki–Miyaura couplings in water under micellar conditions in a CSTR cascade catalyzed by Fe/ppm Pd nanoparticles. *Green Chemistry*, **2020**, 22, 3441-3444	10	13
510	Continuous Production of Five Active Pharmaceutical Ingredients in Flexible Plug-and-Play Modules: A Demonstration Campaign. *Organic Process Research and Development*, **2020**, 24, 2183-2196	3.9	19
509	Microfluidic electrochemistry for single-electron transfer redox-neutral reactions. *Science*, **2020**, 368, 1352-1357	33.3	87
508	Current and Future Roles of Artificial Intelligence in Medicinal Chemistry Synthesis. *Journal of Medicinal Chemistry*, **2020**, 63, 8667-8682	8.3	53
507	Data Augmentation and Pretraining for Template-Based Retrosynthetic Prediction in Computer-Aided Synthesis Planning. *Journal of Chemical Information and Modeling*, **2020**, 60, 3398-3407	6.1	15
506	Combining retrosynthesis and mixed-integer optimization for minimizing the chemical inventory needed to realize a WHO essential medicines list. *Reaction Chemistry and Engineering*, **2020**, 5, 367-376	4.9	3
505	Machine learned prediction of reaction template applicability for data-driven retrosynthetic predictions of energetic materials **2020**,		1

504	Autonome Entdeckung in den chemischen Wissenschaften, Teil II: Ausblick. *Angewandte Chemie*, **2020**, 132, 23620-23643	3.6	0
503	Continuous Multistage Synthesis and Functionalization of Sub-100 nm Silica Nanoparticles in 3D-Printed Continuous Stirred-Tank Reactor Cascades. *ACS Applied Materials & Interfaces*, **2020**, 12, 6699-6706	9.5	9
502	Identifying the roles of acid–base sites in formation pathways of tolualdehydes from acetaldehyde over MgO-based catalysts. *Catalysis Science and Technology*, **2020**, 10, 536-548	5.5	4
501	Determination of fast gas–liquid reaction kinetics in flow. *Reaction Chemistry and Engineering*, **2020**, 5, 51-57	4.9	6
500	Accessing multidimensional mixing via 3D printing and showerhead micromixer design. *AICHE Journal*, **2020**, 66, e16873	3.6	10
499	An automated flow platform for accurate determination of gas–liquid–solid reaction kinetics. *Reaction Chemistry and Engineering*, **2020**, 5, 1751-1758	4.9	9
498	Characterization of reaction enthalpy and kinetics in a microscale flow platform. *Reaction Chemistry and Engineering*, **2020**, 5, 2115-2122	4.9	6
497	A Multifunctional Microfluidic Platform for High-Throughput Experimentation of Electroorganic Chemistry. *Angewandte Chemie - International Edition*, **2020**, 59, 20890-20894	16.4	16
496	A Multifunctional Microfluidic Platform for High-Throughput Experimentation of Electroorganic Chemistry. *Angewandte Chemie*, **2020**, 132, 21076-21080	3.6	2
495	Towards efficient discovery of green synthetic pathways with Monte Carlo tree search and reinforcement learning. *Chemical Science*, **2020**, 11, 10959-10972	9.4	12
494	Iterative experimental design based on active machine learning reduces the experimental burden associated with reaction screening. *Reaction Chemistry and Engineering*, **2020**, 5, 1963-1972	4.9	19
493	Autonomous Discovery in the Chemical Sciences Part I: Progress. *Angewandte Chemie - International Edition*, **2020**, 59, 22858-22893	16.4	75
492	Autonomous Discovery in the Chemical Sciences Part II: Outlook. *Angewandte Chemie - International Edition*, **2020**, 59, 23414-23436	16.4	62
491	Autonome Entdeckung in den chemischen Wissenschaften, Teil I: Fortschritt. *Angewandte Chemie*, **2020**, 132, 23054-23091	3.6	5
490	Multitask prediction of site selectivity in aromatic C–H functionalization reactions. *Reaction Chemistry and Engineering*, **2020**, 5, 896-902	4.9	16
489	Evaluating and clustering retrosynthesis pathways with learned strategy. *Chemical Science*, **2020**, 12, 1469-1478	9.4	10
488	Regio-selectivity prediction with a machine-learned reaction representation and on-the-fly quantum mechanical descriptors. *Chemical Science*, **2020**, 12, 2198-2208	9.4	21
487	BigSMILES: A Structurally-Based Line Notation for Describing Macromolecules. *ACS Central Science*, **2019**, 5, 1523-1531	16.8	58

486	Analysis and simulation of multiphase hydrodynamics in capillary microseparators. *Lab on A Chip*, **2019**, 19, 706-715	7.2	6
485	A graph-convolutional neural network model for the prediction of chemical reactivity. *Chemical Science*, **2019**, 10, 370-377	9.4	237
484	Revealing the Formation Mechanism of Alloyed Pd-Ru Nanoparticles: A Conversion Measurement Approach Utilizing a Microflow Reactor. *Langmuir*, **2019**, 35, 2236-2243	4	7
483	RDChiral: An RDKit Wrapper for Handling Stereochemistry in Retrosynthetic Template Extraction and Application. *Journal of Chemical Information and Modeling*, **2019**, 59, 2529-2537	6.1	43
482	Continuous manufacturing the Green Chemistry promise?. *Green Chemistry*, **2019**, 21, 3481-3498	10	140
481	Flow Toolkit for Measuring Gas Diffusivity in Liquids. *Analytical Chemistry*, **2019**, 91, 4004-4009	7.8	8
480	A robotic platform for flow synthesis of organic compounds informed by AI planning. *Science*, **2019**, 365,	33.3	271
479	High-Speed Vapor Transport Deposition of Perovskite Thin Films. *ACS Applied Materials & Interfaces*, **2019**, 11, 32928-32936	9.5	13
478	Use of a Droplet Platform To Optimize Pd-Catalyzed CN Coupling Reactions Promoted by Organic Bases. *Organic Process Research and Development*, **2019**, 23, 1594-1601	3.9	25
477	Analyzing Learned Molecular Representations for Property Prediction. *Journal of Chemical Information and Modeling*, **2019**, 59, 3370-3388	6.1	247
476	A Continuous Stirred-Tank Reactor (CSTR) Cascade for Handling Solid-Containing Photochemical Reactions. *Organic Process Research and Development*, **2019**, 23, 2699-2706	3.9	35
475	Adding Crystals To Minimize Clogging in Continuous Flow Synthesis. *Crystal Growth and Design*, **2019**, 19, 98-105	3.5	9
474	Optimum catalyst selection over continuous and discrete process variables with a single droplet microfluidic reaction platform. *Reaction Chemistry and Engineering*, **2018**, 3, 301-311	4.9	41
473	Ligand-Mediated Nanocrystal Growth. *Langmuir*, **2018**, 34, 3307-3315	4	16
472	Continuous, on-demand generation and separation of diphenylphosphoryl azide. *Tetrahedron*, **2018**, 74, 3137-3142	2.4	6
471	Advanced Continuous Flow Platform for On-Demand Pharmaceutical Manufacturing. *Chemistry - A European Journal*, **2018**, 24, 2776-2784	4.8	59
470	Catalytic hydrogenation of N-4-nitrophenyl nicotinamide in a micro-packed bed reactor. *Green Chemistry*, **2018**, 20, 886-893	10	36
469	SCScore: Synthetic Complexity Learned from a Reaction Corpus. *Journal of Chemical Information and Modeling*, **2018**, 58, 252-261	6.1	90

468	Efficient kinetic experiments in continuous flow microreactors. *Reaction Chemistry and Engineering*, **2018**, 3, 94-101	4.9	41
467	Machine Learning in Computer-Aided Synthesis Planning. *Accounts of Chemical Research*, **2018**, 51, 1281-1289	14.9	255
466	Photoredox Iridium–Nickel Dual-Catalyzed Decarboxylative Arylation Cross-Coupling: From Batch to Continuous Flow via Self-Optimizing Segmented Flow Reactor. *Organic Process Research and Development*, **2018**, 22, 542-550	3.9	67
465	Optimization of Grignard Addition to Esters: Kinetic and Mechanistic Study of Model Phthalide Using Flow Chemistry. *Industrial & Engineering Chemistry Research*, **2018**, 57, 4859-4866	3.9	8
464	High-performance miniature CSTR for biphasic C–C bond-forming reactions. *Chemical Engineering Journal*, **2018**, 335, 936-944	14.7	15
463	Automated measurements of gas-liquid mass transfer in micropacked bed reactors. *AICHE Journal*, **2018**, 64, 564-570	3.6	29
462	Scalable thin-layer membrane reactor for heterogeneous and homogeneous catalytic gas–liquid reactions. *Green Chemistry*, **2018**, 20, 3867-3874	10	17
461	Intracellular Delivery by Membrane Disruption: Mechanisms, Strategies, and Concepts. *Chemical Reviews*, **2018**, 118, 7409-7531	68.1	280
460	Thermoformed fluoropolymer tubing for in-line mixing. *Reaction Chemistry and Engineering*, **2018**, 3, 707-713	4.9	19
459	Reduction of Dispersion in Ultrasonically-Enhanced Micropacked Beds. *Industrial & Engineering Chemistry Research*, **2018**, 57, 122-128	3.9	8
458	Liquid–liquid extraction in flow of the radioisotope titanium-45 for positron emission tomography applications. *Reaction Chemistry and Engineering*, **2018**, 3, 898-904	4.9	16
457	Using Machine Learning To Predict Suitable Conditions for Organic Reactions. *ACS Central Science*, **2018**, 4, 1465-1476	16.8	131
456	Mechanistic Insights and Controlled Synthesis of Radioluminescent ZnSe Quantum Dots Using a Microfluidic Reactor. *Chemistry of Materials*, **2018**, 30, 8562-8570	9.6	22
455	Reconfigurable system for automated optimization of diverse chemical reactions. *Science*, **2018**, 361, 1220-1225	33.3	207
454	Continuous N-Hydroxyphthalimide (NHPI)-Mediated Electrochemical Aerobic Oxidation of Benzylic C-H Bonds. *Chemistry - A European Journal*, **2018**, 24, 10260	4.8	33
453	Multistage Microfluidic Platform for the Continuous Synthesis of III–V Core/Shell Quantum Dots. *Angewandte Chemie*, **2018**, 130, 11081-11084	3.6	10
452	Multistage Microfluidic Platform for the Continuous Synthesis of III-V Core/Shell Quantum Dots. *Angewandte Chemie - International Edition*, **2018**, 57, 10915-10918	16.4	46
451	Flow chemistry—Microreaction technology comes of age. *AICHE Journal*, **2017**, 63, 858-869	3.6	249

450	Facile Soft-Templated Synthesis of High-Surface Area and Highly Porous Carbon Nitrides. *Chemistry of Materials*, **2017**, 29, 1496-1506	9.6	71
449	High-throughput Nuclear Delivery and Rapid Expression of DNA via Mechanical and Electrical Cell-Membrane Disruption. *Nature Biomedical Engineering*, **2017**, 1,	19	105
448	A fully automated flow-based approach for accelerated peptide synthesis. *Nature Chemical Biology*, **2017**, 13, 464-466	11.7	148
447	Next-generation optical imaging with short-wave infrared quantum dots. *Nature Biomedical Engineering*, **2017**, 1,	19	360
446	Microfluidic Assisted Synthesis of Hybrid AuPd Dumbbell-like Nanostructures: Sequential Addition of Reagents and Ultrasonic Radiation. *Crystal Growth and Design*, **2017**, 17, 2700-2710	3.5	16
445	Prediction of Organic Reaction Outcomes Using Machine Learning. *ACS Central Science*, **2017**, 3, 434-443	16.8	325
444	A Rapid Total Synthesis of Ciprofloxacin Hydrochloride in Continuous Flow. *Angewandte Chemie*, **2017**, 129, 8996-8999	3.6	17
443	Multistage extraction platform for highly efficient and fully continuous purification of nanoparticles. *Nanoscale*, **2017**, 9, 7703-7707	7.7	32
442	A segmented flow platform for on-demand medicinal chemistry and compound synthesis in oscillating droplets. *Chemical Communications*, **2017**, 53, 6649-6652	5.8	53
441	Hydrodynamics of gas–liquid flow in micropacked beds: Pressure drop, liquid holdup, and two-phase model. *AICHE Journal*, **2017**, 63, 4694-4704	3.6	34
440	A Rapid Total Synthesis of Ciprofloxacin Hydrochloride in Continuous Flow. *Angewandte Chemie - International Edition*, **2017**, 56, 8870-8873	16.4	80
439	Design and Scaling Up of Microchemical Systems: A Review. *Annual Review of Chemical and Biomolecular Engineering*, **2017**, 8, 285-305	8.9	141
438	Design of Multistage Counter-Current Liquid–Liquid Extraction for Small-Scale Applications. *Industrial & Engineering Chemistry Research*, **2017**, 56, 4095-4103	3.9	40
437	Simulations and analysis of multiphase transport and reaction in segmented flow microreactors. *Chemical Engineering Science*, **2017**, 169, 106-116	4.4	59
436	In-Situ Microfluidic Study of Biphasic Nanocrystal Ligand-Exchange Reactions Using an Oscillatory Flow Reactor. *Angewandte Chemie - International Edition*, **2017**, 56, 16333-16337	16.4	27
435	In-Situ Microfluidic Study of Biphasic Nanocrystal Ligand-Exchange Reactions Using an Oscillatory Flow Reactor. *Angewandte Chemie*, **2017**, 129, 16551-16555	3.6	5
434	Characterization and Modeling of the Operating Curves of Membrane Microseparators. *Industrial & Engineering Chemistry Research*, **2017**, 56, 12184-12191	3.9	10
433	Convolutional Embedding of Attributed Molecular Graphs for Physical Property Prediction. *Journal of Chemical Information and Modeling*, **2017**, 57, 1757-1772	6.1	191

432	Automated in Situ Measurement of Gas Solubility in Liquids with a Simple Tube-in-Tube Reactor. *Analytical Chemistry*, **2017**, 89, 8524-8530	7.8	23
431	Ozonolysis of quinoline and quinoline derivatives in a Corning low flow reactor. *Reaction Chemistry and Engineering*, **2017**, 2, 696-702	4.9	3
430	Computer-Assisted Retrosynthesis Based on Molecular Similarity. *ACS Central Science*, **2017**, 3, 1237-1245	6.8	112
429	Material-Efficient Microfluidic Platform for Exploratory Studies of Visible-Light Photoredox Catalysis. *Angewandte Chemie - International Edition*, **2017**, 56, 9847-9850	16.4	33
428	Material-Efficient Microfluidic Platform for Exploratory Studies of Visible-Light Photoredox Catalysis. *Angewandte Chemie*, **2017**, 129, 9979-9982	3.6	9
427	Modeling of the formation kinetics and size distribution evolution of III-V quantum dots. *Reaction Chemistry and Engineering*, **2017**, 2, 567-576	4.9	8
426	Continuous purification of active pharmaceutical ingredients utilizing polymer membrane surface wettability. *Chemical Communications*, **2017**, 54, 70-73	5.8	21
425	Feedback in Flow for Accelerated Reaction Development. *Accounts of Chemical Research*, **2016**, 49, 1786-1796	24.3	166
424	Intracellular Delivery of Biomolecules by Mechanical Deformation **2016**, 143-176		1
423	Molecular Engineering of Trifunctional Supported Catalysts for the Aerobic Oxidation of Alcohols. *Angewandte Chemie*, **2016**, 128, 11210-11214	3.6	8
422	Molecular Engineering of Trifunctional Supported Catalysts for the Aerobic Oxidation of Alcohols. *Angewandte Chemie - International Edition*, **2016**, 55, 11044-8	16.4	41
421	Suzuki-Miyaura cross-coupling optimization enabled by automated feedback. *Reaction Chemistry and Engineering*, **2016**, 1, 658-666	4.9	87
420	Compact and Integrated Approach for Advanced End-to-End Production, Purification, and Aqueous Formulation of Lidocaine Hydrochloride. *Organic Process Research and Development*, **2016**, 20, 1347-1353	3.9	27
419	Continuous synthesis of palladium nanorods in oxidative segmented flow. *AICHE Journal*, **2016**, 62, 373-380	3.8	27
418	Direct Observation of Early-Stage Quantum Dot Growth Mechanisms with High-Temperature Ab Initio Molecular Dynamics. *Journal of Physical Chemistry C*, **2016**, 120, 2472-2483	3.8	18
417	Live-cell protein labelling with nanometre precision by cell squeezing. *Nature Communications*, **2016**, 7, 10372	17.4	77
416	Shape-controlled continuous synthesis of metal nanostructures. *Nanoscale*, **2016**, 8, 7534-43	7.7	57
415	Kinetics analysis and automated online screening of aminocarbonylation of aryl halides in flow. *Reaction Chemistry and Engineering*, **2016**, 1, 272-279	4.9	25

414	Oscillatory multiphase flow strategy for chemistry and biology. *Lab on A Chip*, **2016**, 16, 2775-84	7.2	51
413	Portable, Constriction-Expansion Blood Plasma Separation and Polymerization-Based Malaria Detection. *Analytical Chemistry*, **2016**, 88, 7627-32	7.8	11
412	On-demand continuous-flow production of pharmaceuticals in a compact, reconfigurable system. *Science*, **2016**, 352, 61-7	33.3	578
411	One □click□ to controlled bifunctional supported catalysts for the Cu/TEMPO-catalyzed aerobic oxidation of alcohols. *RSC Advances*, **2016**, 6, 36602-36605	3.7	30
410	A miniature CSTR cascade for continuous flow of reactions containing solids. *Reaction Chemistry and Engineering*, **2016**, 1, 501-507	4.9	45
409	A Size-Selective Intracellular Delivery Platform. *Small*, **2016**, 12, 5873-5881	11	18
408	Characterization of Indium Phosphide Quantum Dot Growth Intermediates Using MALDI-TOF Mass Spectrometry. *Journal of the American Chemical Society*, **2016**, 138, 13469-13472	16.4	81
407	In vitro and ex vivo strategies for intracellular delivery. *Nature*, **2016**, 538, 183-192	50.4	489
406	Nanoengineering a library of metallic nanostructures using a single microfluidic reactor. *Nanoscale*, **2016**, 8, 15288-95	7.7	45
405	Biphasic Catalytic Hydrogen Peroxide Oxidation of Alcohols in Flow: Scale-up and Extraction. *Organic Process Research and Development*, **2016**, 20, 1677-1685	3.9	35
404	Characterization and modeling of multiphase flow in structured microreactors: a post microreactor case study. *Lab on A Chip*, **2015**, 15, 3232-41	7.2	21
403	Effect of Trace Water on the Growth of Indium Phosphide Quantum Dots. *Chemistry of Materials*, **2015**, 27, 5058-5063	9.6	51
402	Simultaneous solvent screening and reaction optimization in microliter slugs. *Chemical Communications*, **2015**, 51, 13290-3	5.8	58
401	OpenFOAM Computational Fluid Dynamic Simulations of Two-Phase Flow and Mass Transfer in an Advanced-Flow Reactor. *Industrial & Engineering Chemistry Research*, **2015**, 54, 6649-6659	3.9	39
400	Oscillatory three-phase flow reactor for studies of bi-phasic catalytic reactions. *Chemical Communications*, **2015**, 51, 8916-9	5.8	33
399	Continuous Nanofiltration and Recycle of an Asymmetric Ketone Hydrogenation Catalyst. *ACS Catalysis*, **2015**, 5, 2615-2622	13.1	29
398	Multiphase Oscillatory Flow Strategy for in Situ Measurement and Screening of Partition Coefficients. *Analytical Chemistry*, **2015**, 87, 11130-6	7.8	23
397	Oscillatory Microprocessor for Growth and in Situ Characterization of Semiconductor Nanocrystals. *Chemistry of Materials*, **2015**, 27, 6131-6138	9.6	61

396	OpenFOAM Computational Fluid Dynamic Simulations of Single-Phase Flows in an Advanced-Flow Reactor. *Industrial & Engineering Chemistry Research*, **2015**, 54, 7543-7553	3.9	15
395	Achieving continuous manufacturing: technologies and approaches for synthesis, workup, and isolation of drug substance. May 20-21, 2014 Continuous Manufacturing Symposium. *Journal of Pharmaceutical Sciences*, **2015**, 104, 781-91	3.9	108
394	Mass transfer characteristics of ozonolysis in microreactors and advanced-flow reactors. *Journal of Flow Chemistry*, **2015**, 5, 160-165	3.3	18
393	The Unexpected Influence of Precursor Conversion Rate in the Synthesis of III-V Quantum Dots. *Angewandte Chemie - International Edition*, **2015**, 54, 14299-303	16.4	60
392	The Unexpected Influence of Precursor Conversion Rate in the Synthesis of III□V Quantum Dots. *Angewandte Chemie*, **2015**, 127, 14507-14511	3.6	17
391	Ex vivo cytosolic delivery of functional macromolecules to immune cells. *PLoS ONE*, **2015**, 10, e0118803	3.7	38
390	Microfluidic squeezing for intracellular antigen loading in polyclonal B-cells as cellular vaccines. *Scientific Reports*, **2015**, 5, 10276	4.9	61
389	Continuous Thermal Oxidation of Alkenes with Nitrous Oxide in a Packed Bed Reactor. *Industrial & Engineering Chemistry Research*, **2015**, 54, 4166-4173	3.9	12
388	Development of a Multi-Step Synthesis and Workup Sequence for an Integrated, Continuous Manufacturing Process of a Pharmaceutical. *Organic Process Research and Development*, **2014**, 18, 402-409	3.9	133
387	Rapid flow-based peptide synthesis. *ChemBioChem*, **2014**, 15, 713-20	3.8	101
386	Scale-Up Investigation of the Continuous Phase-Transfer-Catalyzed Hypochlorite Oxidation of Alcohols and Aldehydes. *Organic Process Research and Development*, **2014**, 18, 1476-1481	3.9	40
385	Tools for chemical synthesis in microsystems. *Lab on A Chip*, **2014**, 14, 3206-12	7.2	154
384	Plasma membrane recovery kinetics of a microfluidic intracellular delivery platform. *Integrative Biology (United Kingdom)*, **2014**, 6, 470-5	3.7	45
383	High throughput synthesis of uniform biocompatible polymer beads with high quantum dot loading using microfluidic jet-mode breakup. *Langmuir*, **2014**, 30, 2216-22	4	9
382	Olefin Autoxidation in Flow. *Industrial & Engineering Chemistry Research*, **2014**, 53, 601-608	3.9	21
381	Continuous Nanofiltration and Recycle of a Metathesis Catalyst in a Microflow System. *ChemCatChem*, **2014**, 6, 3004-3011	5.2	19
380	Rapid Wolff□Kishner reductions in a silicon carbide microreactor. *Green Chemistry*, **2014**, 16, 176-180	10	29
379	Scalability of mass transfer in liquid□liquid flow. *Chemical Engineering Science*, **2014**, 116, 1-8	4.4	102

378	Batch Kinetics in Flow: Online IR Analysis and Continuous Control. *Angewandte Chemie*, **2014**, 126, 480-483	3.6	30
377	Application of Continuous Crystallization in an Integrated Continuous Pharmaceutical Pilot Plant. *Crystal Growth and Design*, **2014**, 14, 2148-2157	3.5	60
376	"Batch" kinetics in flow: online IR analysis and continuous control. *Angewandte Chemie - International Edition*, **2014**, 53, 470-3	16.4	101
375	Nested potassium hydroxide etching and protective coatings for silicon-based microreactors. *Journal of Micromechanics and Microengineering*, **2014**, 24, 035011	2	1
374	Design, Execution, and Analysis of Time-Varying Experiments for Model Discrimination and Parameter Estimation in Microreactors. *Organic Process Research and Development*, **2014**, 18, 1461-1467	3.9	17
373	Investigation of Petasis and Ugi reactions in series in an automated microreactor system. *RSC Advances*, **2014**, 4, 63627-63631	3.7	10
372	Microfluidic production of perfluorocarbon-alginate core-shell microparticles for ultrasound therapeutic applications. *Langmuir*, **2014**, 30, 12391-9	4	29
371	Engineering the synthesis of silica-gold nano-urchin particles using continuous synthesis. *Nanoscale*, **2014**, 6, 13228-35	7.7	17
370	Membrane-Based, Liquid Liquid Separator with Integrated Pressure Control. *Industrial & Engineering Chemistry Research*, **2013**, 52, 10802-10808	3.9	132
369	Process intensification and optimization for hydroxyapatite nanoparticles production. *Chemical Engineering Science*, **2013**, 100, 352-359	4.4	33
368	End-to-end continuous manufacturing of pharmaceuticals: integrated synthesis, purification, and final dosage formation. *Angewandte Chemie - International Edition*, **2013**, 52, 12359-63	16.4	426
367	Gas Liquid Flow and Mass Transfer in an Advanced-Flow Reactor. *Industrial & Engineering Chemistry Research*, **2013**, 52, 8996-9010	3.9	63
366	Cell squeezing as a robust, microfluidic intracellular delivery platform. *Journal of Visualized Experiments*, **2013**, e50980	1.6	20
365	A vector-free microfluidic platform for intracellular delivery. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 2082-7	11.5	293
364	Automation in Microreactor Systems **2013**, 81-100		7
363	The role of flow in green chemistry and engineering. *Green Chemistry*, **2013**, 15, 1456	10	373
362	A clock reaction based on molybdenum blue. *Journal of Physical Chemistry A*, **2013**, 117, 4343-51	2.8	12
361	A Microfluidic System for the Continuous Recycling of Unmodified Homogeneous Palladium Catalysts through Liquid/Liquid Phase Separation. *ChemCatChem*, **2013**, 5, 1729-1733	5.2	20

360	Mass Transport and Reactions in the Tube-in-Tube Reactor. *Organic Process Research and Development*, **2013**, 17, 927-933	3.9	78
359	Continuous-flow precipitation of hydroxyapatite in ultrasonic microsystems. *Chemical Engineering Journal*, **2013**, 215-216, 979-987	14.7	46
358	Multistep synthesis of amides from alcohols and amines in continuous flow microreactor systems using oxygen and urea hydrogen peroxide as oxidants. *Green Chemistry*, **2013**, 15, 1538	10	33
357	Flow-through comb electroporation device for delivery of macromolecules. *Analytical Chemistry*, **2013**, 85, 1637-41	7.8	42
356	Large-area fabrication of high aspect ratio tantalum photonic crystals for high-temperature selective emitters. *Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics*, **2013**, 31, 011802	1.3	62
355	Toward high-energy-density, high-efficiency, and moderate-temperature chip-scale thermophotovoltaics. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 5309-14	11.5	128
354	Microfluidic jet injection for delivering macromolecules into cells. *Journal of Micromechanics and Microengineering*, **2013**, 23,	2	18
353	End-to-End Continuous Manufacturing of Pharmaceuticals: Integrated Synthesis, Purification, and Final Dosage Formation. *Angewandte Chemie*, **2013**, 125, 12585-12589	3.6	56
352	One-step continuous synthesis of biocompatible gold nanorods for optical coherence tomography. *Chemical Communications*, **2012**, 48, 6654-6	5.8	42
351	An Automated Continuous-Flow Platform for the Estimation of Multistep Reaction Kinetics. *Organic Process Research and Development*, **2012**, 16, 1770-1782	3.9	71
350	A pH-Sensitive Laser-Induced Fluorescence Technique To Monitor Mass Transfer in Multiphase Flows in Microfluidic Devices. *Industrial & Engineering Chemistry Research*, **2012**, 51, 8999-9006	3.9	48
349	Realization of a salt bridge-free microfluidic reference electrode. *Lab on A Chip*, **2012**, 12, 1431-3	7.2	11
348	Size-controlled flow synthesis of gold nanoparticles using a segmented flow microfluidic platform. *Langmuir*, **2012**, 28, 7007-13	4	194
347	Microfluidic Continuous Seeded Crystallization: Extraction of Growth Kinetics and Impact of Impurity on Morphology. *Crystal Growth and Design*, **2012**, 12, 6260-6266	3.5	31
346	Direct fluorination of carbon monoxide in microreactors. *Journal of Fluorine Chemistry*, **2012**, 142, 19-23	2.1	14
345	Direct oxidative amidation of aromatic aldehydes using aqueous hydrogen peroxide in continuous flow microreactor systems. *Green Chemistry*, **2012**, 14, 1471	10	67
344	Mixing and Dispersion in Small-Scale Flow Systems. *Organic Process Research and Development*, **2012**, 16, 976-981	3.9	124
343	Hydrodynamics of Liquid–Liquid Dispersion in an Advanced-Flow Reactor. *Industrial & Engineering Chemistry Research*, **2012**, 51, 16251-16262	3.9	61

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