Heidrun Gruber-Woelfler

List of Publications by Year
in descending order

43 papers	975 citations	567281 15 h-index	454955 30 g-index
43 all docs	43 docs citations	43 times ranked	1091 citing authors

#	Article	IF	Citations
1	Photobiocatalysis in Continuous Flow. Frontiers in Catalysis, 2022, 1, .	3.9	18
2	Advances in Continuous Flow Calorimetry. Organic Process Research and Development, 2022, 26, 267-277.	2.7	10
3	Comparison of Derivativeâ€Free Algorithms for their Applicability in Selfâ€Optimization of Chemical Processes. Chemistry Methods, 2022, 2, .	3.8	2
4	Inline monitoring of high ammonia concentrations in methanol with a customized 3D printed flow cell. Journal of Flow Chemistry, 2021, 11, 717-723.	1.9	3
5	3D printed ceramics as solid supports for enzyme immobilization: an automated DoE approach for applications in continuous flow. Journal of Flow Chemistry, 2021, 11, 675-689.	1.9	15
6	Complete chiral resolution in a continuous flow crystallizer with recycle stream. Journal of Flow Chemistry, 2021, 11, 483-493.	1.9	5
7	Multistep synthesis of a valsartan precursor in continuous flow. Journal of Flow Chemistry, 2020, 10, 283-294.	1.9	8
8	Development of a multistep reaction cascade for the synthesis of a sacubitril precursor in continuous flow. Journal of Flow Chemistry, 2020, 10, 259-270.	1.9	6
9	Optimization of a Catalytic Chemoenzymatic Tandem Reaction for the Synthesis of Natural Stilbenes in Continuous Flow. Catalysts, 2020, 10, 1404.	3.5	9
10	A modular 3D printed isothermal heat flow calorimeter for reaction calorimetry in continuous flow. Reaction Chemistry and Engineering, 2020, 5, 1410-1420.	3.7	13
11	3D Printed Reactors for Synthesis of Active Pharmaceutical Ingredients in Continuous Flow. Organic Process Research and Development, 2020, 24, 2197-2207.	2.7	21
12	A chemo-enzymatic tandem reaction in a mixture of deep eutectic solvent and water in continuous flow. Reaction Chemistry and Engineering, 2020, 5, 263-269.	3.7	38
13	DERA in Flow: Synthesis of a Statin Side Chain Precursor in Continuous Flow Employing Deoxyribose-5-Phosphate Aldolase Immobilized in Alginate-Luffa Matrix. Catalysts, 2020, 10, 137.	3.5	12
14	Development of customized 3D printed stainless steel reactors with inline oxygen sensors for aerobic oxidation of Grignard reagents in continuous flow. Reaction Chemistry and Engineering, 2019, 4, 393-401.	3.7	35
15	Room-temperature solid phase ionic liquid (RTSPIL) coated Ï‰-transaminases: Development and application in organic solvents. Molecular Catalysis, 2018, 452, 11-19.	2.0	9
16	Continuous-Flow In-Line Solvent-Swap Crystallization of Vitamin D₃. Organic Process Research and Development, 2018, 22, 178-189.	2.7	12
17	Biocatalytic production of adiponitrile and related aliphatic linear Î±,Ï‰-dinitriles. Nature Communications, 2018, 9, 5112.	12.8	35
18	Heterogeneous Pd catalysts as emulsifiers in Pickering emulsions for integrated multistep synthesis in flow chemistry. Beilstein Journal of Organic Chemistry, 2018, 14, 648-658.	2.2	11

#	Article	IF	Citations
19	Crystal Shape Modification via Cycles of Growth and Dissolution in a Tubular Crystallizer. Crystal Growth and Design, 2018, 18, 4403-4415.	3.0	33
20	Reaction Calorimetry in Microreactor Environmentsâ€"Measuring Heat of Reaction by Isothermal Heat Flux Calorimetry. Organic Process Research and Development, 2017, 21, 763-770.	2.7	24
21	Drugâ€"Excipient Interactions in the Solid State: The Role of Different Stress Factors. Molecular Pharmaceutics, 2017, 14, 4560-4571.	4.6	15
22	Design and 3D printing of a stainless steel reactor for continuous difluoromethylations using fluoroform. Reaction Chemistry and Engineering, 2017, 2, 919-927.	3.7	73
23	Suzuki-Miyaura coupling reactions using novel metal oxide supported ionic palladium catalysts. Journal of Molecular Catalysis A, 2017, 426, 39-51.	4.8	19
24	Effect of Acetonitrileâ€Based Crystallization Conditions on the Crystal Quality ofÂVitaminÂD₃. Chemical Engineering and Technology, 2017, 40, 2016-2024.	1.5	5
25	Continuous Suzukiâ€"Miyaura reactions with novel Ceâ€"Snâ€"Pd oxides and integrated crystallization as continuous downstream protocol. Journal of Flow Chemistry, 2016, 6, 244-251.	1.9	16
26	The Plug & Play Reactor: A Highly Flexible Device for Heterogeneous Reactions in Continuous Flow. Chemie-Ingenieur-Technik, 2016, 88, 1518-1523.	0.8	8
27	Development of an Integrated Continuous Crystallization Process of Vitamin D3. Chemie-Ingenieur-Technik, 2016, 88, 1213-1213.	0.8	1
28	Mit ionischen FlÃ¼ssigkeiten Ã¼berzogene Transaminase fÃ¼r Biokatalyse in organischen LÃ¶sungsmitteln. Chemie-Ingenieur-Technik, 2016, 88, 1244-1244.	0.8	0
29	Printing medicines as orodispersible dosage forms: Effect of substrate on the printed micro-structure. International Journal of Pharmaceutics, 2016, 509, 518-527.	5.2	52
30	Particle-loaded monolithic materials for separations via planar electrochromatography. Journal of Planar Chromatography - Modern TLC, 2016, 29, 15-21.	1.2	1
31	IPPE-TU Graz: green engineering inside and beyond the borders of process technology. Green Processing and Synthesis, 2015, 4, .	3.4	0
32	Retention-time prediction for polycyclic aromatic compounds in reversed-phase capillary electro-chromatography. Journal of Molecular Modeling, 2015, 21, 124.	1.8	2
33	Coating of glass substrates to prevent alkali ion diffusion into pharmaceutical solutions. Surface and Coatings Technology, 2014, 258, 1249-1255.	4.8	5
34	Separation, Hydrodynamics and Heating Effects in Continuous Annular Electro-Chromatography (CAEC). Procedia Engineering, 2012, 42, 1611-1623.	1.2	3
35	Tethered ansa-bridged titanium complexes immobilized on 3-mercaptopropyl-functionalized silica gel and their application for the hydrosilylation of imines. Dalton Transactions, 2012, 41, 12711.	3.3	8
36	Continuous Sonocrystallization of Acetylsalicylic Acid (ASA): Control of Crystal Size. Crystal Growth and Design, 2012, 12, 4733-4738.	3.0	110

#	Article	IF	Citations
37	Synthesis, catalytic activity, and leaching studies of a heterogeneous Pd-catalyst including an immobilized bis(oxazoline) ligand. Journal of Catalysis, 2012, 286, 30-40.	6.2	89
38	Seed loading effects on the mean crystal size of acetylsalicylic acid in a continuousâ€flow crystallization device. Crystal Research and Technology, 2011, 46, 227-237.	1.3	81
39	Continuously Seeded, Continuously Operated Tubular Crystallizer for the Production of Active Pharmaceutical Ingredients. Crystal Growth and Design, 2010, 10, 2247-2257.	3.0	118
40	Titanocene-Catalyzed Hydrosilylation of Imines: Experimental and Computational Investigations of the Catalytically Active Species. Organometallics, 2009, 28, 2546-2553.	2.3	26
41	UV-induced immobilization of tethered zirconocenes on H-terminated silicon surfaces. Chemical Communications, 2008, , 1329.	4.1	11
42	A Two-Step Method to Covalently Bind Biomolecules to Group-IV Semiconductors: Si(111)/1,2-Epoxy-9-decene/Esterase. Langmuir, 2008, 24, 13957-13961.	3.5	6
43	Structureâ^'Functionâ^'Performance Relationship of Bis(cyclopentadienyl)-Based Group 4 Metallocenes: A DFT Study. Organometallics, 2008, 27, 5196-5202.	2.3	7