

Lasse Greiner

List of Publications by Year in descending order

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55
papers

1,843
citations

279798

23
h-index

265206

42
g-index

63
all docs

63
docs citations

63
times ranked

1982
citing authors

#	ARTICLE	IF	CITATIONS
1	Ionic liquids in biotechnology: applications and perspectives for biotransformations. <i>Applied Microbiology and Biotechnology</i> , 2008, 81, 607-614.	3.6	165
2	Benzoylformate Decarboxylase from <i>Pseudomonas putida</i> as Stable Catalyst for the Synthesis of Chiral 2-Hydroxy Ketones. <i>Chemistry - A European Journal</i> , 2000, 6, 1483-1495.	3.3	159
3	Continuous Application of Chemzymes in a Membrane Reactor: Asymmetric Transfer Hydrogenation of Acetophenone. <i>Advanced Synthesis and Catalysis</i> , 2001, 343, 711-720.	4.3	99
4	Gaining pH-control in water/carbon dioxide biphasic systems. <i>Green Chemistry</i> , 2007, 9, 455.	9.0	85
5	Practical applications of hydrogenase I from <i>Pyrococcus furiosus</i> for NADPH generation and regeneration. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2003, 24-25, 39-52.	1.8	81
6	Enzyme-catalyzed C-C bond formation using 2-methyltetrahydrofuran (2-MTHF) as (co)solvent: efficient and bio-based alternative to DMSO and MTBE. <i>Green Chemistry</i> , 2010, 12, 2240.	9.0	80
7	Chemo-enzymatic cascade oxidation in supercritical carbon dioxide/water biphasic media. <i>Green Chemistry</i> , 2009, 11, 1052.	9.0	71
8	Cellulose solubilities in carboxylate-based ionic liquids. <i>RSC Advances</i> , 2012, 2, 2476.	3.6	65
9	Screening of new solvents for artemisinin extraction process using ab initio methodology. <i>Green Chemistry</i> , 2010, 12, 241-251.	9.0	64
10	Nanoparticle catalysed oxidation of sulfides to sulfones by in situ generated H ₂ O ₂ in supercritical carbon dioxide/water biphasic medium. <i>Chemical Communications</i> , 2010, 46, 6705.	4.1	57
11	New aspects for biomass processing with ionic liquids: towards the isolation of pharmaceutically active betulin. <i>Green Chemistry</i> , 2012, 14, 940.	9.0	57
12	Highly Flexible Fibre-Optic ATR-IR Probe for Inline Reaction Monitoring. <i>Organic Process Research and Development</i> , 2007, 11, 94-97.	2.7	53
13	Silica-immobilized piperazine: A sustainable organocatalyst for aldol and Knoevenagel reactions. <i>Tetrahedron Letters</i> , 2010, 51, 6670-6672.	1.4	52
14	Oxidation-hydroxymethylation-reduction: a one-pot three-step biocatalytic synthesis of optically active 1,2-aryl vicinal diols. <i>Green Chemistry</i> , 2012, 14, 94-97.	9.0	50
15	Inverted Supercritical Carbon Dioxide/Aqueous Biphasic Media for Rhodium-Catalyzed Hydrogenation Reactions. <i>Chemistry - A European Journal</i> , 2007, 13, 2798-2804.	3.3	46
16	Continuous catalytic Friedel-Crafts acylation in the biphasic medium of an ionic liquid and supercritical carbon dioxide. <i>Chemical Communications</i> , 2008, , 79-81.	4.1	46
17	Maximise Equilibrium Conversion in Biphasic Catalysed Reactions: Mathematical Description and Practical Guideline. <i>Advanced Synthesis and Catalysis</i> , 2006, 348, 1591-1596.	4.3	39
18	Prediction of partition coefficients using COSMO-RS: Solvent screening for maximum conversion in biocatalytic two-phase reaction systems. <i>Chemical Engineering and Processing: Process Intensification</i> , 2008, 47, 1034-1041.	3.6	39

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19	Ionic Liquids as Performance Additives for Electroenzymatic Syntheses. <i>Chemistry - A European Journal</i> , 2009, 15, 11692-11700.	3.3	34
20	Technical aspects of biocatalysis in non-CO ₂ -based supercritical fluids. <i>Biotechnology Journal</i> , 2008, 3, 104-111.	3.5	31
21	A Versatile Lab to Pilot Scale Continuous Reaction System for Supercritical Fluid Processing. <i>Organic Process Research and Development</i> , 2011, 15, 1275-1280.	2.7	31
22	Ionic liquid facilitates biocatalytic conversion of hardly water soluble ketones. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2011, 68, 147-153.	1.8	31
23	Membrane Aerated Hydrogenation: Enzymatic and Chemical Homogeneous Catalysis. <i>Advanced Synthesis and Catalysis</i> , 2003, 345, 679-683.	4.3	24
24	Combining reaction calorimetry and ATR-IR spectroscopy for the operando monitoring of ionic liquids synthesis. <i>Catalysis Today</i> , 2007, 126, 191-195.	4.4	23
25	Towards Small-Scale Continuous Chemical Production: Technology Gaps and Challenges. <i>Chemie-Ingenieur-Technik</i> , 2011, 83, 1337-1342.	0.8	23
26	Operational concept for the improved synthesis of (R)-3,3'-furoin and related hydrophobic compounds with benzaldehyde lyase. <i>Biotechnology Journal</i> , 2006, 1, 564-568.	3.5	22
27	Continuous biocatalytic synthesis of (R)-2-octanol with integrated product separation. <i>Green Chemistry</i> , 2011, 13, 1430.	9.0	22
28	Resolution of 1,2-Diols by Enzyme-Catalyzed Oxidation with Anodic, Mediated Cofactor Regeneration in the Extractive Membrane Reactor: Gaining Insight by Adaptive Simulation. <i>Organic Process Research and Development</i> , 2004, 8, 213-218.	2.7	21
29	Continuous Homogeneous Asymmetric Transfer Hydrogenation of Ketones: Lessons from Kinetics. <i>Chemistry - A European Journal</i> , 2006, 12, 1818-1823.	3.3	20
30	Facile biocatalytic synthesis of a macrocyclic lactone in sub- and supercritical solvents. <i>Biocatalysis and Biotransformation</i> , 2014, 32, 125-131.	2.0	19
31	Illustrating computational solvent screening: Prediction of standard Gibbs energies of reaction in solution. <i>AIChE Journal</i> , 2008, 54, 2729-2734.	3.6	18
32	Systematic Approach to Solvent Selection for Biphasic Systems with a Combination of COSMO-RS and a Dynamic Modeling Tool. <i>Engineering in Life Sciences</i> , 2008, 8, 546-552.	3.6	18
33	Exploring Conversion of Biphasic Catalytic Reactions: An Analytical Solution and Parameter Study. <i>Industrial & Engineering Chemistry Research</i> , 2007, 46, 7073-7078.	3.7	17
34	Biphasic mini-reactor for characterization of biocatalyst performance. <i>Biotechnology Journal</i> , 2009, 4, 44-50.	3.5	17
35	Determination of the Dispersion Characteristics of Miniaturized Coiled Reactors with Fiber-Optic Fourier Transform Mid-infrared Spectroscopy. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 5530-5535.	3.7	17
36	Enantioselective reduction of sparingly water-soluble ketones: continuous process and recycle of the aqueous buffer system. <i>Green Chemistry</i> , 2013, 15, 167-176.	9.0	16

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37	Kinetic Study of Homogeneous Alkene Hydrogenation by Model Discrimination. <i>Advanced Synthesis and Catalysis</i> , 2004, 346, 1392-1396.	4.3	14
38	Utilization of adsorption effects for the continuous reduction of NADP ⁺ with molecular hydrogen by <i>Pyrococcus furiosus</i> hydrogenase. <i>Green Chemistry</i> , 2003, 5, 697-700.	9.0	13
39	Esterification of carboxylate-based ionic liquids with alkyl halides. <i>Chemical Communications</i> , 2011, 47, 2973.	4.1	13
40	Utilising hardly-water soluble substrates as a second phase enables the straightforward synthesis of chiral alcohols. <i>Green Chemistry</i> , 2011, 13, 3093.	9.0	12
41	Bridging the gap: A nested-pipe reactor for slow reactions in continuous flow chemical synthesis. <i>Chemical Engineering Journal</i> , 2011, 168, 759-764.	12.7	12
42	Reaction Engineering of Biocatalytic Enantioselective Reduction: A Case Study for Aliphatic Ketones. <i>Organic Process Research and Development</i> , 2013, 17, 1027-1035.	2.7	11
43	Stability, activity, and selectivity of benzaldehyde lyase in supercritical fluids. <i>Journal of Supercritical Fluids</i> , 2012, 62, 173-177.	3.2	10
44	Continuous Asymmetric Hydrogenation. , 2006, , 111-124.		8
45	Continuous biphasic enzymatic reduction of aliphatic ketones. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2013, 88, 52-59.	1.8	8
46	Reactor concept for continuous reactions and extractions in supercritical fluids at minimum flow rates. <i>Journal of Supercritical Fluids</i> , 2009, 48, 33-35.	3.2	7
47	Stable Continuous Operation of a Biphasic Enantioselective Enzymatic Reduction. <i>Open Catalysis Journal</i> , 2011, 4, 113-116.	0.9	6
48	Enthalpy of mixing for the determination of mixing efficiency of microstructured mixers by isothermal heat balance calorimetry. <i>Chemical Engineering Science</i> , 2012, 76, 45-48.	3.8	4
49	Development of a Promising Method for Producing Oligomeric Mixture of Branched Alkylene Guanidines to Improve Substance Quality and Evaluate Their Antiviral Activity against SARS-CoV-2. <i>Molecules</i> , 2021, 26, 3472.	3.8	3
50	Direct Spectrophotometric Assay for Benzaldehyde Lyase Activity. <i>Biotechnology Research International</i> , 2011, 2011, 1-4.	1.4	2
51	Maximise Equilibrium Conversion in Biphasic Catalysed Reactions: Mathematical Description and Practical Guideline. <i>Advanced Synthesis and Catalysis</i> , 2006, 348, 1785-1785.	4.3	1
52	Automated lab-scale production of PVA/PEG-enzyme immobilisates. <i>Biotechnology Journal</i> , 2010, 5, 881-885.	3.5	1
53	Druids' Knowledge in Chemical Engineering: Analysis of the Illustrated Literature by Gosciny and Uderzo. <i>Chemie-Ingenieur-Technik</i> , 2012, 84, 427-431.	0.8	1
54	Benzoylformate Decarboxylase from <i>Pseudomonas putida</i> as Stable Catalyst for the Synthesis of Chiral 2-Hydroxy Ketones. <i>Chemistry - A European Journal</i> , 2000, 6, 1483-1495.	3.3	1

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55	Continuous Application of Chemzymes in a Membrane Reactor: Asymmetric Transfer Hydrogenation of Acetophenone. <i>Advanced Synthesis and Catalysis</i> , 2001, 343, 711-720.	4.3	1