Ulrich Kunz

List of Publications by Year
in descending order

31	1,620	304743 22	434195 31
papers	citations	h-index	g-index

34	34	34	1896
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Chlor-alkali electrolysis with oxygen depolarized cathodes: history, present status and future prospects. Journal of Applied Electrochemistry, 2008, 38, 1177-1194.	2.9	230
2	A New Concept for the Noncovalent Binding of a Ruthenium-Based Olefin Metathesis Catalyst to Polymeric Phases:Â Preparation of a Catalyst on Raschig Rings. Journal of the American Chemical Society, 2006, 128, 13261-13267.	13.7	144
3	Development of a Continuous-Flow System for Catalysis with Palladium(0) Particles. European Journal of Organic Chemistry, 2004, 2004, 3601-3610.	2.4	116
4	Techno-economic assessment of novel vanadium redox flow batteries with large-area cells. Journal of Power Sources, 2017, 361, 105-114.	7.8	106
5	PASSflow Syntheses Using Functionalized Monolithic Polymer/Glass Composites in Flow-Through Microreactors Part of these studies were supported by the Fonds der Chemischen Industrie and the European Community (EC project number HPRI-CT-1999-00085) for which we are grateful. PASSflow=Polymer Assisted Solution-Phase Synthesis technique in flow-through mode.. Angewandte Chemie - International Edition, 2001, 40, 3995.	13.8	99
6	Palladium(0) Nanoparticles on Glassâ€Polymer Composite Materials as Recyclable Catalysts: A Comparison Study on their Use in Batch and Continuous Flow Processes. Advanced Synthesis and Catalysis, 2008, 350, 717-730.	4.3	99
7	Zinc-air Batteries: Prospects and Challenges for Future Improvement. Zeitschrift Fur Physikalische Chemie, 2012, 226, 151-166.	2.8	89
8	Influence of acid pretreatment on ionic conductivity of NafionÂ® membranes. Journal of Membrane Science, 2016, 500, 225-235.	8.2	87
9	Electrochemical characterization and mathematical modeling of zinc passivation in alkaline solutions: A review. Electrochimica Acta, 2017, 237, 276-298.	5.2	67
10	Carbon felt and carbon fiber - A techno-economic assessment of felt electrodes for redox flow battery applications. Journal of Power Sources, 2017, 342, 116-124.	7.8	59
11	Electrically rechargeable zinc-oxygen flow battery with high power density. Electrochemistry Communications, 2016, 69, 24-27.	4.7	57
12	Cost and performance prospects for composite bipolar plates in fuel cells and redox flow batteries. Journal of Power Sources, 2016, 305, 182-190.	7.8	51
13	Passivation of Zinc Anodes in Alkaline Electrolyte: Part I. Determination of the Starting Point of Passive Film Formation. Journal of the Electrochemical Society, 2018, 165, A3048-A3055.	2.9	49
14	Enzyme-purification and catalytic transformations in a microstructured PASSflow reactor using a new tyrosine-based Ni-NTA linker system attached to a polyvinylpyrrolidinone-based matrix. Organic and Biomolecular Chemistry, 2007, 5, 3657-64.	2.8	45
15	Polymer/carrier composites as materials and reactors for organic synthesis. Journal of Chromatography A, 2003, 1006, 241-249.	3.7	43
16	Manufacturing and Construction of PASSflowFlow Reactors and Their Utilization in Suzukiâ^'Miyaura Cross-Coupling Reactions. Industrial & Engineering Chemistry Research, 2005, 44, 8458-8467.	3.7	41
17	Polymer-Assisted hornerâ€“Emmons olefination using PASSflow reactors: pure products without purification. Bioorganic and Medicinal Chemistry Letters, 2002, 12, 1833-1835.	2.2	35
18	Polymer Membranes for All-Vanadium Redox Flow Batteries: A Review. Membranes, 2021, 11, 214.	3.0	32

#	Article	IF	Citations
19	Energy-efficient chlorine production by gas-phase HCl electrolysis with oxygen depolarized cathode. Electrochemistry Communications, 2013, 34, 320-322.	4.7	29
20	Passivation of Zinc Anodes in Alkaline Electrolyte: Part II. Influence of Operation Parameters. Journal of the Electrochemical Society, 2019, 166, A1132-A1139.	2.9	27
21	Electrochemical Membrane Reactors for Sustainable Chlorine Recycling. Membranes, 2012, 2, 510-528.	3.0	22
22	Flow through reactors for organic chemistry: directly electrically heated tubular mini reactors as an enabling technology for organic synthesis. Beilstein Journal of Organic Chemistry, 2009, 5, 70.	2.2	20
23	Improving the Treatment Efficiency and Lowering the Operating Costs of Electrochemical Advanced Oxidation Processes. Processes, 2021, 9, 1482.	2.8	13
24	PASSflow Syntheses Using Functionalized Monolithic Polymer/Glass Composites in Flow-Through Microreactors Part of these studies were supported by the Fonds der Chemischen Industrie and the European Community (EC project number HPRI-CT-1999-00085) for which we are grateful. PASSflow=Polymer Assisted Solution-Phase Synthesis technique in flow-through mode.. Angewandte Chemie - International Edition, 2001, 40, 3995-3998.	13.8	10
25	Beitrag der Gelphasendiffusion zum Stofftransport in getrÃgerten Ionenaustauscherkatalysatoren. Chemie-Ingenieur-Technik, 1998, 70, 267-271.	0.8	9
26	Material development and process optimization for gas-phase hydrogen chloride electrolysis with oxygen depolarized cathode. Journal of Applied Electrochemistry, 2016, 46, 755-767.	2.9	7
27	Kinetics of active zinc dissolution in concentrated KOH solutions. Journal of Applied Electrochemistry, 2020, 50, 149-158.	2.9	4
28	Lowâ€Cost Membranen fÃ¼r die Vanadiumâ€Redoxâ€Flowâ€Batterie. Chemie-Ingenieur-Technik, 2021, 93, 1445-1450.	0.8	2
29	Reaktoren fÃ¼r spezielle technisch-chemische Prozesse: Elektrochemische Reaktoren. Springer Reference Naturwissenschaften, 2018, , 1-36.	0.2	2
30	Development of a Continuous-Flow System for Catalysis with Palladium(0) Particles.. ChemInform, 2004, 35, no.	0.0	0
31	Reaktoren fÃ¼r spezielle technisch-chemische Prozesse: Elektrochemische Reaktoren. Springer Reference Naturwissenschaften, 2020, , 1029-1064.	0.2	0