

# Ulrich Kunz

## List of Publications by Year in descending order

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31  
papers

1,620  
citations

304743

22  
h-index

434195

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g-index

34  
all docs

34  
docs citations

34  
times ranked

1896  
citing authors

#	ARTICLE	IF	CITATIONS
1	Polymer Membranes for All-Vanadium Redox Flow Batteries: A Review. <i>Membranes</i> , 2021, 11, 214.	3.0	32
2	Low-Cost Membranen für die Vanadium-Redox-Flow-Batterie. <i>Chemie-Ingenieur-Technik</i> , 2021, 93, 1445-1450.	1.5	2
3	Improving the Treatment Efficiency and Lowering the Operating Costs of Electrochemical Advanced Oxidation Processes. <i>Processes</i> , 2021, 9, 1482.	2.8	13
4	Kinetics of active zinc dissolution in concentrated KOH solutions. <i>Journal of Applied Electrochemistry</i> , 2020, 50, 149-158.	2.9	4
5	Reaktoren für spezielle technisch-chemische Prozesse: Elektrochemische Reaktoren. <i>Springer Reference Naturwissenschaften</i> , 2020, , 1029-1064.	0.2	0
6	Passivation of Zinc Anodes in Alkaline Electrolyte: Part II. Influence of Operation Parameters. <i>Journal of the Electrochemical Society</i> , 2019, 166, A1132-A1139.	2.9	27
7	Passivation of Zinc Anodes in Alkaline Electrolyte: Part I. Determination of the Starting Point of Passive Film Formation. <i>Journal of the Electrochemical Society</i> , 2018, 165, A3048-A3055.	2.9	49
8	Reaktoren für spezielle technisch-chemische Prozesse: Elektrochemische Reaktoren. <i>Springer Reference Naturwissenschaften</i> , 2018, , 1-36.	0.2	2
9	Electrochemical characterization and mathematical modeling of zinc passivation in alkaline solutions: A review. <i>Electrochimica Acta</i> , 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. <i>Journal of Power Sources</i> , 2017, 342, 116-124.	7.8	59
11	Techno-economic assessment of novel vanadium redox flow batteries with large-area cells. <i>Journal of Power Sources</i> , 2017, 361, 105-114.	7.8	106
12	Electrically rechargeable zinc-oxygen flow battery with high power density. <i>Electrochemistry Communications</i> , 2016, 69, 24-27.	4.7	57
13	Material development and process optimization for gas-phase hydrogen chloride electrolysis with oxygen depolarized cathode. <i>Journal of Applied Electrochemistry</i> , 2016, 46, 755-767.	2.9	7
14	Influence of acid pretreatment on ionic conductivity of Nafion® membranes. <i>Journal of Membrane Science</i> , 2016, 500, 225-235.	8.2	87
15	Cost and performance prospects for composite bipolar plates in fuel cells and redox flow batteries. <i>Journal of Power Sources</i> , 2016, 305, 182-190.	7.8	51
16	Energy-efficient chlorine production by gas-phase HCl electrolysis with oxygen depolarized cathode. <i>Electrochemistry Communications</i> , 2013, 34, 320-322.	4.7	29
17	Electrochemical Membrane Reactors for Sustainable Chlorine Recycling. <i>Membranes</i> , 2012, 2, 510-528.	3.0	22
18	Zinc-air Batteries: Prospects and Challenges for Future Improvement. <i>Zeitschrift Fur Physikalische Chemie</i> , 2012, 226, 151-166.	2.8	89

#	ARTICLE	IF	CITATIONS
19	Flow through reactors for organic chemistry: directly electrically heated tubular mini reactors as an enabling technology for organic synthesis. <i>Beilstein Journal of Organic Chemistry</i> , 2009, 5, 70.	2.2	20
20	Chlor-alkali electrolysis with oxygen depolarized cathodes: history, present status and future prospects. <i>Journal of Applied Electrochemistry</i> , 2008, 38, 1177-1194.	2.9	230
21	Palladium(0) Nanoparticles on Glass-Polymer Composite Materials as Recyclable Catalysts: A Comparison Study on their Use in Batch and Continuous Flow Processes. <i>Advanced Synthesis and Catalysis</i> , 2008, 350, 717-730.	4.3	99
22	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. <i>Organic and Biomolecular Chemistry</i> , 2007, 5, 3657-64.	2.8	45
23	A New Concept for the Noncovalent Binding of a Ruthenium-Based Olefin Metathesis Catalyst to Polymeric Phases: A Preparation of a Catalyst on Raschig Rings. <i>Journal of the American Chemical Society</i> , 2006, 128, 13261-13267.	13.7	144
24	Manufacturing and Construction of PASSflow Reactors and Their Utilization in Suzuki-Miyaura Cross-Coupling Reactions. <i>Industrial &amp; Engineering Chemistry Research</i> , 2005, 44, 8458-8467.	3.7	41
25	Development of a Continuous-Flow System for Catalysis with Palladium(0) Particles. <i>European Journal of Organic Chemistry</i> , 2004, 2004, 3601-3610.	2.4	116
26	Development of a Continuous-Flow System for Catalysis with Palladium(0) Particles.. <i>ChemInform</i> , 2004, 35, no.	0.0	0
27	Polymer/carrier composites as materials and reactors for organic synthesis. <i>Journal of Chromatography A</i> , 2003, 1006, 241-249.	3.7	43
28	Polymer-Assisted horner-Emmons olefination using PASSflow reactors: pure products without purification. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2002, 12, 1833-1835.	2.2	35
29	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.. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 3995-3998.	13.8	99
30	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.. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 3995-3998.	13.8	10
31	Beitrag der Gelphasendiffusion zum Stofftransport in geträgerten Ionenaustauscherkatalysatoren. <i>Chemie-Ingenieur-Technik</i> , 1998, 70, 267-271.	0.8	9