

# Julia Kunze-Liebhäuser

## List of Publications by Year in descending order

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56  
papers

2,052  
citations

304602

22  
h-index

233338

45  
g-index

60  
all docs

60  
docs citations

60  
times ranked

2672  
citing authors

#	ARTICLE	IF	CITATIONS
1	Formic acid reduction and CO <sub>2</sub> activation at Mo <sub>2</sub> C: The important role of surface oxide. <i>Electrochemical Science Advances</i> , 2022, 2, e2100130.	1.2	7
2	Who Does the Job? How Copper Can Replace Noble Metals in Sustainable Catalysis by the Formation of Copper–Mixed Oxide Interfaces. <i>ACS Catalysis</i> , 2022, 12, 7696-7708.	5.5	7
3	Sodiation mechanism via reversible surface film formation on metal oxides for sodium-ion batteries. <i>Nano Select</i> , 2021, 2, 1533-1543.	1.9	3
4	Operando Fourier-transform infrared–mass spectrometry reactor cell setup for heterogeneous catalysis with glovebox transfer process to surface-chemical characterization. <i>Review of Scientific Instruments</i> , 2021, 92, 024105.	0.6	8
5	The Potential of Zero Charge and the Electrochemical Interface Structure of Cu(111) in Alkaline Solutions. <i>Journal of Physical Chemistry C</i> , 2021, 125, 5020-5028.	1.5	33
6	True Nature of the Transition-Metal Carbide/Liquid Interface Determines Its Reactivity. <i>ACS Catalysis</i> , 2021, 11, 4920-4928.	5.5	25
7	Interfacial Water Structure as a Descriptor for Its Electro-Reduction on Ni(OH) <sub>2</sub> -Modified Cu(111). <i>ACS Catalysis</i> , 2021, 11, 10324-10332.	5.5	20
8	Cu(111) single crystal electrodes: Modifying interfacial properties to tailor electrocatalysis. <i>Electrochimica Acta</i> , 2021, 396, 139222.	2.6	4
9	W <sub>2</sub> C-Supported PtAuSn–A Catalyst with the Earliest Ethanol Oxidation Onset Potential and the Highest Ethanol Conversion Efficiency to CO <sub>2</sub> Known till Date. <i>ACS Catalysis</i> , 2020, 10, 1113-1122.	5.5	34
10	Self-activation of copper electrodes during CO electro-oxidation in alkaline electrolyte. <i>Nature Catalysis</i> , 2020, 3, 797-803.	16.1	60
11	Activation of carbon tow electrodes for use in iron aqueous redox systems for electrochemical applications. <i>Journal of Materials Chemistry C</i> , 2020, 8, 7755-7764.	2.7	4
12	How the Nature of the Alkali Metal Cations Influences the Double-Layer Capacitance of Cu, Au, and Pt Single-Crystal Electrodes. <i>Journal of Physical Chemistry C</i> , 2020, 124, 12442-12447.	1.5	37
13	Substantially Improved Na-Ion Storage Capability by Nanostructured Organic–Inorganic Polyaniline-TiO <sub>2</sub> Composite Electrodes. <i>ACS Applied Energy Materials</i> , 2020, 3, 3477-3487.	2.5	13
14	Nanoporous thin films in optical waveguide spectroscopy for chemical analytics. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 3299-3315.	1.9	9
15	Zirconium Oxycarbide: A Highly Stable Catalyst Material for Electrochemical Energy Conversion. <i>ChemPhysChem</i> , 2019, 20, 3067-3073.	1.0	6
16	Recent Progress in Understanding Ion Storage in Self-Organized Anodic TiO <sub>2</sub> Nanotubes. <i>Small Methods</i> , 2019, 3, 1800385.	4.6	31
17	Hybrid synthesis of zirconium oxycarbide nanopowders with defined and controlled composition. <i>RSC Advances</i> , 2019, 9, 3151-3156.	1.7	13
18	Titanium Oxycarbides: Formation, Properties and Application in Electrocatalysis. , 2019, , .		0

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19	DEMS studies of the ethanol electro-oxidation on TiO <sub>2</sub> supported Pt catalysts—Support effects for higher CO <sub>2</sub> efficiency. <i>Electrochimica Acta</i> , 2019, 304, 80-86.	2.6	14
20	An ultra-flexible modular high vacuum setup for thin film deposition. <i>Review of Scientific Instruments</i> , 2019, 90, 023902.	0.6	5
21	A universal quasi-reference electrode for in situ EC-STM. <i>Electrochemistry Communications</i> , 2019, 98, 15-18.	2.3	19
22	Fuel Cell Comparison to Alternate Technologies. , 2019, , 11-25.		0
23	Nonequilibrium Phase Transitions in Amorphous and Anatase TiO <sub>2</sub> Nanotubes. <i>ACS Applied Energy Materials</i> , 2018, 1, 1924-1929.	2.5	22
24	Photoelectrocatalytic Synthesis of Hydrogen Peroxide by Molecular Copper—Porphyrin Supported on Titanium Dioxide Nanotubes. <i>ChemCatChem</i> , 2018, 10, 1793-1797.	1.8	26
25	Self-Improving Na Ion Storage in Oxygen Deficient, Carbon Coated Self-Organized TiO <sub>2</sub> Nanotubes. <i>ACS Applied Energy Materials</i> , 2018, 1, 6646-6653.	2.5	12
26	Electrochemical Capture and Release of CO <sub>2</sub> in Aqueous Electrolytes Using an Organic Semiconductor Electrode. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 12919-12923.	4.0	20
27	Substrate Grain-Dependent Chemistry of Carburized Planar Anodic TiO <sub>2</sub> on Polycrystalline Ti. <i>ACS Omega</i> , 2017, 2, 631-640.	1.6	9
28	Preferentially Oriented TiO <sub>2</sub> Nanotubes as Anode Material for Li-Ion Batteries: Insight into Li-Ion Storage and Lithiation Kinetics. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 36828-36836.	4.0	56
29	Effect of Air—Aging on the Electrochemical Characteristics of TiO <sub>2</sub> /C Films for Electrocatalysis Applications. <i>ChemElectroChem</i> , 2017, 4, 3100-3109.	1.7	4
30	Optimized Design Principles for Silicon—Coated Nanostructured Electrode Materials and their Application in High—Capacity Lithium—Ion Batteries. <i>Energy Technology</i> , 2017, 5, 2253-2264.	1.8	8
31	Fuel Cell Comparison to Alternate Technologies. , 2017, , 1-16.		0
32	Hexaethylguanidinium tetrakis(trimethylsilylethynyl)borate diethyl ether monosolvate. <i>IUCrData</i> , 2017, 2, .	0.1	0
33	Combined Photoemission Spectroscopy and Electrochemical Study of a Mixture of (Oxy)carbides as Potential Innovative Supports and Electrocatalysts. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 19418-19427.	4.0	6
34	Fabrication of Ti substrate grain dependent C/TiO <sub>2</sub> composites through carbothermal treatment of anodic TiO <sub>2</sub> . <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 9220-9231.	1.3	6
35	Laccase immobilized on a mixed thiol monolayer on Au(111) — structure-dependent activity towards oxygen reduction. <i>Electrochimica Acta</i> , 2016, 213, 761-770.	2.6	10
36	Electrochemical Behavior of TiO <sub>2</sub> /C as Catalyst Support for Direct Ethanol Fuel Cells at Intermediate Temperature: From Planar Systems to Powders. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 716-725.	4.0	30

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37	High-Resolution Imaging of the Initial Stages of Oxidation of Cu(111) with Scanning Electrochemical Potential Microscopy. <i>ChemElectroChem</i> , 2015, 2, 77-84.	1.7	3
38	In-situ Carbon Doping of TiO <sub>2</sub> Nanotubes Via Anodization in Graphene Oxide Quantum Dot Containing Electrolyte and Carburization to TiO <sub>x</sub> C <sub>y</sub> Nanotubes. <i>Advanced Materials Interfaces</i> , 2015, 2, 1400462.	1.9	22
39	Carbon Doping: In-situ Carbon Doping of TiO <sub>2</sub> Nanotubes Via Anodization in Graphene Oxide Quantum Dot Containing Electrolyte and Carburization to TiO <sub>x</sub> C <sub>y</sub> Nanotubes ( <i>Adv. Mater. Interfaces</i> 5/2015). <i>Advanced Materials Interfaces</i> , 2015, 2, .	1.9	0
40	TiO <sub>2</sub> Nanotubes: Interdependence of Substrate Grain Orientation and Growth Rate. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 1662-1668.	4.0	37
41	Compact Titanium Oxycarbide: A New Substrate for Quantitative Analysis of Molecular Films by Means of Infrared Reflection Absorption Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2015, 119, 13767-13776.	1.5	9
42	GISAXS and TOF-GISANS studies on surface and depth morphology of self-organized TiO <sub>2</sub> nanotube arrays: model anode material in Li-ion batteries. <i>Journal of Applied Crystallography</i> , 2015, 48, 444-454.	1.9	20
43	Core-shell TiO <sub>2</sub> @C: towards alternative supports as replacement for high surface area carbon for PEMFC catalysts. <i>Electrochimica Acta</i> , 2014, 139, 21-28.	2.6	39
44	Carbothermal Transformation of TiO <sub>2</sub> into TiO <sub>x</sub> C <sub>y</sub> in UHV: Tracking Intrinsic Chemical Stabilities. <i>Journal of Physical Chemistry C</i> , 2014, 118, 22601-22610.	1.5	29
45	Silicon on conductive self-organized TiO <sub>2</sub> nanotubes – A high capacity anode material for Li-ion batteries. <i>Journal of Power Sources</i> , 2014, 258, 129-133.	4.0	35
46	Ethanol Oxidation on TiO <sub>x</sub> C <sub>y</sub> -Supported Pt Nanoparticles. <i>ChemCatChem</i> , 2013, 5, 3219-3223.	1.8	19
47	Semimetallic TiO <sub>2</sub> Nanotubes. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 7236-7239.	7.2	133
48	Influence of water content on nanotubular anodic titania formed in fluoride/glycerol electrolytes. <i>Electrochimica Acta</i> , 2009, 54, 4321-4327.	2.6	177
49	A lithographic approach to determine volume expansion factors during anodization: Using the example of initiation and growth of TiO <sub>2</sub> -nanotubes. <i>Electrochimica Acta</i> , 2009, 54, 5942-5948.	2.6	97
50	Self-Organized Anodic TiO <sub>2</sub> Nanotube Arrays Functionalized by Iron Oxide Nanoparticles. <i>Chemistry of Materials</i> , 2009, 21, 662-672.	3.2	146
51	Time-dependent growth of biomimetic apatite on anodic TiO <sub>2</sub> nanotubes. <i>Electrochimica Acta</i> , 2008, 53, 6995-7003.	2.6	164
52	Photoresponse in the visible range from Cr doped TiO <sub>2</sub> nanotubes. <i>Chemical Physics Letters</i> , 2007, 433, 323-326.	1.2	167
53	In situ STM study of the duplex passive films formed on Cu(111) and Cu(001) in 0.1 M NaOH. <i>Corrosion Science</i> , 2004, 46, 245-264.	3.0	166
54	In situ STM study of the effect of chlorides on the initial stages of anodic oxidation of Cu(111) in alkaline solutions. <i>Electrochimica Acta</i> , 2003, 48, 1157-1167.	2.6	92

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55	In Situ Scanning Tunneling Microscopy Study of the Anodic Oxidation of Cu(111) in 0.1 M NaOH. Journal of Physical Chemistry B, 2001, 105, 4263-4269.	1.2	136
56	Cu(111) and Ni(OH) <sub>2</sub> modified Cu(111): interfacial water structure and electrocatalysis. , 0, , .		0