Julia Kunze-LiebhÃ¤user

List of Publications by Year
in descending order

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	Influence of water content on nanotubular anodic titania formed in fluoride/glycerol electrolytes. Electrochimica Acta, 2009, 54, 4321-4327.	2.6	177
2	Photoresponse in the visible range from Cr doped TiO2 nanotubes. Chemical Physics Letters, 2007, 433, 323-326.	1.2	167
3	In situ STM study of the duplex passive films formed on Cu(111) and Cu(001) in 0.1 M NaOH. Corrosion Science, 2004, 46, 245-264.	3.0	166
4	Time-dependent growth of biomimetic apatite on anodic TiO2 nanotubes. Electrochimica Acta, 2008, 53, 6995-7003.	2.6	164
5	Self-Organized Anodic TiO₂ Nanotube Arrays Functionalized by Iron Oxide Nanoparticles. Chemistry of Materials, 2009, 21, 662-672.	3.2	146
6	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
7	Semimetallic TiO₂ Nanotubes. Angewandte Chemie - International Edition, 2009, 48, 7236-7239.	7.2	133
8	A lithographic approach to determine volume expansion factors during anodization: Using the example of initiation and growth of TiO2-nanotubes. Electrochimica Acta, 2009, 54, 5942-5948.	2.6	97
9	In situ STM study of the effect of chlorides on the initial stages of anodic oxidation of Cu(111) in alkaline solutions. Electrochimica Acta, 2003, 48, 1157-1167.	2.6	92
10	Self-activation of copper electrodes during CO electro-oxidation in alkaline electrolyte. Nature Catalysis, 2020, 3, 797-803.	16.1	60
11	Preferentially Oriented TiO₂ Nanotubes as Anode Material for Li-Ion Batteries: Insight into Li-Ion Storage and Lithiation Kinetics. ACS Applied Materials & Interfaces, 2017, 9, 36828-36836.	4.0	56
12	Core-shell TiO2@C: towards alternative supports as replacement for high surface area carbon for PEMFC catalysts. Electrochimica Acta, 2014, 139, 21-28.	2.6	39
13	TiO₂ Nanotubes: Interdependence of Substrate Grain Orientation and Growth Rate. ACS Applied Materials & Interfaces, 2015, 7, 1662-1668.	4.0	37
14	How the Nature of the Alkali Metal Cations Influences the Double-Layer Capacitance of Cu, Au, and Pt Single-Crystal Electrodes. Journal of Physical Chemistry C, 2020, 124, 12442-12447.	1.5	37
15	Silicon on conductive self-organized TiO2 nanotubes â€“ A high capacity anode material for Li-ion batteries. Journal of Power Sources, 2014, 258, 129-133.	4.0	35
16	W₂C-Supported PtAuSnâ€"A Catalyst with the Earliest Ethanol Oxidation Onset Potential and the Highest Ethanol Conversion Efficiency to CO₂ Known till Date. ACS Catalysis, 2020, 10, 1113-1122.	5.5	34
17	The Potential of Zero Charge and the Electrochemical Interface Structure of Cu(111) in Alkaline Solutions. Journal of Physical Chemistry C, 2021, 125, 5020-5028.	1.5	33
18	Recent Progress in Understanding Ion Storage in Selfâ€Organized Anodic TiO₂ Nanotubes. Small Methods, 2019, 3, 1800385.	4.6	31

#	Article	IF	Citations
19	Electrochemical Behavior of TiO_{<i>x</i>}C_{<i>y</i>} as Catalyst Support for Direct Ethanol Fuel Cells at Intermediate Temperature: From Planar Systems to Powders. ACS Applied Materials & Interfaces, 2016, 8, 716-725.	4.0	30
20	Carbothermal Transformation of TiO₂ into TiO_{<i>x</i>}C_{<i>y</i>} in UHV: Tracking Intrinsic Chemical Stabilities. Journal of Physical Chemistry C, 2014, 118, 22601-22610.	1.5	29
21	Photoelectrocatalytic Synthesis of Hydrogen Peroxide by Molecular Copperâ€Porphyrin Supported on Titanium Dioxide Nanotubes. ChemCatChem, 2018, 10, 1793-1797.	1.8	26
22	True Nature of the Transition-Metal Carbide/Liquid Interface Determines Its Reactivity. ACS Catalysis, 2021, 11, 4920-4928.	5.5	25
23	Inâ€Situ Carbon Doping of TiO₂ Nanotubes Via Anodization in Graphene Oxide Quantum Dot Containing Electrolyte and Carburization to TiO<i>_x</i>C<i>_y</i> Nanotubes. Advanced Materials Interfaces, 2015, 2, 1400462.	1.9	22
24	Nonequilibrium Phase Transitions in Amorphous and Anatase TiO₂ Nanotubes. ACS Applied Energy Materials, 2018, 1, 1924-1929.	2.5	22
25	GISAXS and TOF-GISANS studies on surface and depth morphology of self-organized TiO₂nanotube arrays: model anode material in Li-ion batteries. Journal of Applied Crystallography, 2015, 48, 444-454.	1.9	20
26	Electrochemical Capture and Release of CO₂ in Aqueous Electrolytes Using an Organic Semiconductor Electrode. ACS Applied Materials & Interfaces, 2017, 9, 12919-12923.	4.0	20
27	Interfacial Water Structure as a Descriptor for Its Electro-Reduction on Ni(OH)₂-Modified Cu(111). ACS Catalysis, 2021, 11, 10324-10332.	5.5	20
28	Ethanol Oxidation on TiO_{<i>x</i>}C_{<i>y</i>}â€Supported Pt Nanoparticles. ChemCatChem, 2013, 5, 3219-3223.	1.8	19
29	A universal quasi-reference electrode for in situ EC-STM. Electrochemistry Communications, 2019, 98, 15-18.	2.3	19
30	DEMS studies of the ethanol electro-oxidation on TiOC supported Pt catalystsâ€"Support effects for higher CO2 efficiency. Electrochimica Acta, 2019, 304, 80-86.	2.6	14
31	Hybrid synthesis of zirconium oxycarbide nanopowders with defined and controlled composition. RSC Advances, 2019, 9, 3151-3156.	1.7	13
32	Substantially Improved Na-Ion Storage Capability by Nanostructured Organicâ€"Inorganic Polyaniline-TiO₂ Composite Electrodes. ACS Applied Energy Materials, 2020, 3, 3477-3487.	2.5	13
33	Self-Improving Na Ion Storage in Oxygen Deficient, Carbon Coated Self-Organized TiO₂ Nanotubes. ACS Applied Energy Materials, 2018, 1, 6646-6653.	2.5	12
34	Laccase immobilized on a mixed thiol monolayer on Au(111) â€" structure-dependent activity towards oxygen reduction. Electrochimica Acta, 2016, 213, 761-770.	2.6	10
35	Compact Titanium Oxycarbide: A New Substrate for Quantitative Analysis of Molecular Films by Means of Infrared Reflection Absorption Spectroscopy. Journal of Physical Chemistry C, 2015, 119, 13767-13776.	1.5	9
36	Substrate Grain-Dependent Chemistry of Carburized Planar Anodic TiO₂ on Polycrystalline Ti. ACS Omega, 2017, 2, 631-640.	1.6	9

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37	Nanoporous thin films in optical waveguide spectroscopy for chemical analytics. Analytical and Bioanalytical Chemistry, 2020, 412, 3299-3315.	1.9	9
38	Optimized Design Principles for Siliconâ€Coated Nanostructured Electrode Materials and their Application in Highâ€Capacity Lithiumâ€Ion Batteries. Energy Technology, 2017, 5, 2253-2264.	1.8	8
39	Operando Fourier-transform infraredâ€“mass spectrometry reactor cell setup for heterogeneous catalysis with glovebox transfer process to surface-chemical characterization. Review of Scientific Instruments, 2021, 92, 024105.	0.6	8
40	Formic acid reduction and CO₂ activation at Mo₂C: The important role of surface oxide. Electrochemical Science Advances, 2022, 2, e2100130.	1.2	7
41	Who Does the Job? How Copper Can Replace Noble Metals in Sustainable Catalysis by the Formation of Copperâ€“Mixed Oxide Interfaces. ACS Catalysis, 2022, 12, 7696-7708.	5.5	7
42	Combined Photoemission Spectroscopy and Electrochemical Study of a Mixture of (Oxy)carbides as Potential Innovative Supports and Electrocatalysts. ACS Applied Materials & Interfaces, 2016, 8, 19418-19427.	4.0	6
43	Fabrication of Ti substrate grain dependent C/TiO₂ composites through carbothermal treatment of anodic TiO₂. Physical Chemistry Chemical Physics, 2016, 18, 9220-9231.	1.3	6
44	Zirconium Oxycarbide: A Highly Stable Catalyst Material for Electrochemical Energy Conversion. ChemPhysChem, 2019, 20, 3067-3073.	1.0	6
45	An ultra-flexible modular high vacuum setup for thin film deposition. Review of Scientific Instruments, 2019, 90, 023902.	0.6	5
46	Effect of Airâ€Aging on the Electrochemical Characteristics of TiO_{<i>x</i>}C_{<i>y</i>} Films for Electrocatalysis Applications. ChemElectroChem, 2017, 4, 3100-3109.	1.7	4
47	Activation of carbon tow electrodes for use in iron aqueous redox systems for electrochemical applications. Journal of Materials Chemistry C, 2020, 8, 7755-7764.	2.7	4
48	Cu(111) single crystal electrodes: Modifying interfacial properties to tailor electrocatalysis. Electrochimica Acta, 2021, 396, 139222.	2.6	4
49	Highâ€Resolution Imaging of the Initial Stages of Oxidation of Cu(111) with Scanning Electrochemical Potential Microscopy. ChemElectroChem, 2015, 2, 77-84.	1.7	3
50	Sodiation mechanism via reversible surface film formation on metal oxides for sodiumâ€ion batteries. Nano Select, 2021, 2, 1533-1543.	1.9	3
51	Carbon Doping: Inâ€Situ Carbon Doping of TiO₂ Nanotubes Via Anodization in Graphene Oxide Quantum Dot Containing Electrolyte and Carburization to TiO<i>_x</i>C<i>_y</i> Nanotubes (Adv. Mater. Interfaces 5/2015). Advanced Materials Interfaces, 2015, 2, .	1.9	0
52	Titanium Oxycarbides: Formation, Properties and Application in Electrocatalysis. , 2019, , .		0
53	Fuel Cell Comparison to Alternate Technologies. , 2017, , 1-16.		0
54	Hexaethylguanidinium tetrakis(trimethylsilylethynyl)borate diethyl ether monosolvate. IUCrData, 2017, 2, .	0.1	0

#	Article	IF	Citations
55	Fuel Cell Comparison to Alternate Technologies. , 2019, , 11-25.		0
56	Cu(111) and Ni(OH)2 modified Cu(111): interfacial water structure and electrocatalysis. , 0, , .		0