

Ludwig A Kibler

List of Publications by Year in descending order

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52
papers

1,972
citations

471509

17
h-index

243625

44
g-index

70
all docs

70
docs citations

70
times ranked

2614
citing authors

#	ARTICLE	IF	CITATIONS
1	Tuning Reaction Rates by Lateral Strain in a Palladium Monolayer. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 2080-2084.	13.8	523
2	Hydrogen Evolution Over Bimetallic Systems: Understanding the Trends. <i>ChemPhysChem</i> , 2006, 7, 1032-1035.	2.1	351
3	Hydrogen Electrocatalysis. <i>ChemPhysChem</i> , 2006, 7, 985-991.	2.1	257
4	Temperature-Dependent Kinetic Studies of the Chlorine Evolution Reaction over RuO ₂ (110) Model Electrodes. <i>ACS Catalysis</i> , 2017, 7, 2403-2411.	11.2	111
5	Dependence of electrocatalytic activity on film thickness for the hydrogen evolution reaction of Pd overlayers on Au(111). <i>Electrochimica Acta</i> , 2008, 53, 6824-6828.	5.2	74
6	Electrooxidation of formic acid on gold: An ATR-SEIRAS study of the role of adsorbed formate. <i>Catalysis Today</i> , 2013, 202, 79-86.	4.4	62
7	Potential of zero free charge of Pd overlayers on Pt(111). <i>Electrochimica Acta</i> , 2006, 51, 2518-2522.	5.2	47
8	Enhanced electro-oxidation of formic acid at manganese oxide single crystalline nanorod-modified Pt electrodes. <i>Electrochemistry Communications</i> , 2009, 11, 776-778.	4.7	40
9	Incorporation of Pd into Au(111): enhanced electrocatalytic activity for the hydrogen evolution reaction. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 15225.	2.8	36
10	The double layer capacity of Pt(100) in aqueous perchlorate solutions. <i>Electrochemistry Communications</i> , 2002, 4, 787-789.	4.7	31
11	Bimetallic alloys in action: dynamic atomistic motifs for electrochemistry and catalysis. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 15029-15042.	2.8	30
12	Variation of the potential of zero charge for a silver monolayer deposited onto various noble metal single crystal surfaces. <i>Electrochimica Acta</i> , 2007, 52, 5654-5658.	5.2	29
13	Adsorption of Formate on Au(111) in Acid Solution: Relevance for Electro-Oxidation of Formic Acid. <i>Journal of Physical Chemistry C</i> , 2016, 120, 16238-16245.	3.1	23
14	First principles studies of the potential-induced lifting of the Au(100) surface reconstruction. <i>Chemical Physics Letters</i> , 2008, 455, 47-51.	2.6	20
15	Hydrogen Evolution Electrocatalysis on AgPd(111) Alloys. <i>Electrocatalysis</i> , 2011, 2, 192-199.	3.0	19
16	Preparation and Electrochemical Behavior of PtRu(111) Alloy Single-Crystal Surfaces. <i>ChemPhysChem</i> , 2010, 11, 2906-2911.	2.1	18
17	New insights on hydrogen evolution at Au single crystal electrodes. <i>Current Opinion in Electrochemistry</i> , 2018, 9, 265-270.	4.8	18
18	Electrocatalytic Oxidation of Formate and Formic Acid on Platinum and Gold: Study of pH Dependence with Phosphate Buffers. <i>Electrocatalysis</i> , 2017, 8, 509-517.	3.0	15

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19	Enhanced Electrocatalytic Oxidation of Formic Acid on Au(111) in the Presence of Pyridine. <i>Journal of the Electrochemical Society</i> , 2018, 165, J3192-J3198.	2.9	12
20	An affordable option to Au single crystals through cathodic corrosion of a wire: Fabrication, electrochemical behavior, and applications in electrocatalysis and spectroscopy. <i>Electrochimica Acta</i> , 2021, 372, 137867.	5.2	12
21	Tailoring the electrode surface structure by cathodic corrosion in alkali metal hydroxide solution: Nanostructuring and faceting of Au. <i>Current Opinion in Electrochemistry</i> , 2021, 27, 100696.	4.8	12
22	Electrodeposition of Zinc onto Au(111) and Au(100) from the Ionic Liquid [MPPip][TFSI]. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 20461-20468.	13.8	12
23	In ∞ Liquid Plasma for Surface Engineering of Cu Electrodes with Incorporated SiO ₂ Nanoparticles: From Micro to Nano. <i>Advanced Functional Materials</i> , 2022, 32, 2107058.	14.9	12
24	Electrodeposition of Ag onto Au(111) from Deep Eutectic Solvents. <i>ChemElectroChem</i> , 2019, 6, 141-146.	3.4	11
25	Electrocatalytic Behavior of Pd and Pt Nanoislands Deposited onto 4,4 ∞ -Dithiodipyridine SAMs on Au(111). <i>Electrocatalysis</i> , 2018, 9, 505-513.	3.0	10
26	Adsorption of Acetate on Au(111): An <i>in situ</i> Scanning Tunnelling Microscopy Study and Implications on Formic Acid Electrooxidation. <i>ChemPhysChem</i> , 2019, 20, 2989-2996.	2.1	10
27	Potential-dependent reconstruction kinetics probed by HER on Au(111) electrodes. <i>Electrochimica Acta</i> , 2020, 347, 136287.	5.2	9
28	The Effect of pH and Anion Adsorption on Formic Acid Oxidation on Au(111) Electrodes. <i>Electrochimica Acta</i> , 2021, 385, 138279.	5.2	9
29	Electrochemical behaviour of nano-faceted Ir(210). <i>Electrochemistry Communications</i> , 2009, 11, 31-33.	4.7	8
30	Structural evolution of Pt, Au, and Cu anodes by electrolysis up to contact glow discharge electrolysis in alkaline electrolytes. <i>ChemPhysChem</i> , 2021, 22, 2429-2441.	2.1	8
31	Electrocatalytic Behaviour of Epitaxial Ag(111) Overlayers Electrodeposited onto Noble Metals: Electrooxidation of d-Glucose. <i>Electrocatalysis</i> , 2012, 3, 170-175.	3.0	6
32	Restructuring of an Ir(210) electrode surface by potential cycling. <i>Beilstein Journal of Nanotechnology</i> , 2014, 5, 1349-1356.	2.8	6
33	Formic acid oxidation reaction on Au(111) electrodes modified with 4-mercaptopyridine SAM. <i>Electrochimica Acta</i> , 2021, 388, 138547.	5.2	6
34	Versatile 3D ∞ Printed Micro ∞ Reference Electrodes for Aqueous and Non ∞ Aqueous Solutions. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 22783-22790.	13.8	6
35	Electrodeposition of Cu onto Au(111) from Deep Eutectic Solvents: Molar Ratio of Salt and Hydrogen Bond Donor. <i>ChemElectroChem</i> , 2022, 9, .	3.4	6
36	Cathodic corrosion of Au in aqueous methanolic alkali metal hydroxide electrolytes: Notable role of water. <i>Electrochemical Science Advances</i> , 2022, 2, .	2.8	6

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37	Electrochemical Fabrication of Well-Defined Spherical Iridium Nanoparticles and Electrocatalytic Activity towards Carbon Monoxide Adlayer Oxidation. <i>Electrocatalysis</i> , 2015, 6, 365-372.	3.0	4
38	Electrodeposition of Ag Overlayers onto Pt(111): Structural, Electrochemical and Electrocatalytic Properties. <i>Electrocatalysis</i> , 2017, 8, 605-615.	3.0	4
39	Electrocatalytic Oxidation of CO at Pt Modified with Manganese Oxide Nanorods. <i>Electrocatalysis</i> , 2011, 2, 220-223.	3.0	3
40	Step Dipole Moment and Step Line Tension on Au(100) in Aqueous KBr electrolyte. <i>Electrochimica Acta</i> , 2015, 180, 427-434.	5.2	3
41	Repulsive interactions induced by specific adsorption: Anomalous step diffusivity and inadequacy of nearest-neighbor Ising model. <i>Surface Science</i> , 2016, 651, 84-93.	1.9	3
42	Potentiodynamic Chromium Deposition from Trivalent and Hexavalent Systems on Glassy Carbon Electrodes: Initial Stages and Mechanistic Insights. <i>ChemElectroChem</i> , 2017, 4, 1390-1394.	3.4	3
43	An Electrochemical Route for Hot Alkaline Blackening of Steel: A Nitrite Free Approach. <i>Surfaces</i> , 2019, 2, 216-228.	2.3	3
44	Homoepitaxial electrodeposition on reconstructed and unreconstructed Au(100): An in-situ STM study. <i>Surface Science</i> , 2015, 631, 130-134.	1.9	2
45	Repulsive Interactions Induced by Specific Adsorption: Anomalous Step Diffusivity and Inadequacy of Nearest-Neighbor Ising Model (Part II Theory). <i>Surface Science</i> , 2017, 659, 52-57.	1.9	2
46	An Interfacial Study of Au(111) Electrodes in Deep Eutectic Solvents. <i>ChemElectroChem</i> , 0, , .	3.4	2
47	Electrochemical performance of boron-doped diamond films on tungsten rods with silicon interlayer. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015, 212, 2958-2963.	1.8	1
48	Elementary Reaction Steps in Electrocatalysis: Theory Meets Experiment. <i>Electrocatalysis</i> , 2017, 8, 499-500.	3.0	1
49	Hydrogen Peroxide Oxidation Reaction on a 4-Mercaptopyridine Self-Assembled Monolayer on Au(111) Metallized by Platinum Nanoislands. <i>Electrocatalysis</i> , 2021, 12, 264-271.	3.0	1
50	Electrodeposition of Zinc onto Au(111) and Au(100) from the Ionic Liquid [MPPip][TFSI]. <i>Angewandte Chemie</i> , 2021, 133, 20624-20631.	2.0	0
51	Versatile 3D-Printed Micro-Reference Electrodes for Aqueous and Non-Aqueous Solutions. <i>Angewandte Chemie</i> , 2021, 133, 22965.	2.0	0
52	An Interfacial Study of Au(111) Electrodes in Deep Eutectic Solvents. <i>ChemElectroChem</i> , 0, , .	3.4	0