Zenonas Jusys

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/9082025/publications.pdf

Version: 2024-02-01

35 papers	1,881 citations	361413 20 h-index	377865 34 g-index
39 all docs	39 docs citations	39 times ranked	2830 citing authors

#	Article	IF	Citations
1	Tracking Catalyst Redox States and Reaction Dynamics in Niâ€“Fe Oxyhydroxide Oxygen Evolution Reaction Electrocatalysts: The Role of Catalyst Support and Electrolyte pH. Journal of the American Chemical Society, 2017, 139, 2070-2082.	13.7	518
2	Kinetics and Mechanism of the Electrooxidation of Formic Acidâ€"Spectroelectrochemical Studies in a Flow Cell. Angewandte Chemie - International Edition, 2006, 45, 981-985.	13.8	338
3	Application of In-situ Attenuated Total Reflection-Fourier Transform Infrared Spectroscopy for the Understanding of Complex Reaction Mechanism and Kinetics: Formic Acid Oxidation on a Pt Film Electrode at Elevated Temperatures. Journal of Physical Chemistry B, 2006, 110, 9534-9544.	2.6	141
4	Kinetic Isotope Effects in Complex Reaction Networks: Formic Acid Electro-Oxidation. ChemPhysChem, 2007, 8, 380-385.	2.1	103
5	Characterization of Carbon Felt Electrodes for Vanadium Redox Flow Batteries: Impact of Treatment Methods. Journal of the Electrochemical Society, 2018, 165, A2577-A2586.	2.9	82
6	Au/TiO₂ Photo(electro)catalysis: The Role of the Au Cocatalyst in Photoelectrochemical Water Splitting and Photocatalytic H₂ Evolution. Journal of Physical Chemistry C, 2015, 119, 24750-24759.	3.1	70
7	Halide-free water-in-salt electrolytes for stable aqueous sodium-ion batteries. Nano Energy, 2020, 77, 105176.	16.0	46
8	Designing Aqueous Organic Electrolytes for Zincâ€"Air Batteries: Method, Simulation, and Validation. Advanced Energy Materials, 2020, 10, 1903470.	19.5	45
9	Reducing Capacity and Voltage Decay of Coâ€Free Li_{1.2}Ni_{0.2}Mn_{0.6}O₂ as Positive Electrode Material for Lithium Batteries Employing an Ionic Liquidâ€Based Electrolyte. Advanced Energy Materials, 2020, 10, 2001830.	19.5	42
10	Room Temperature CO_{ad} Desorption/Exchange Kinetics on Pt Electrodesâ€"A Combined In Situ IR and Mass Spectrometry Study. ChemPhysChem, 2007, 8, 2484-2489.	2.1	37
11	Borohydride electrooxidation over Pt/C, AuPt/C and Au/C catalysts: Partial reaction pathways and mixed potential formation. Electrochemistry Communications, 2015, 60, 9-12.	4.7	37
12	Highly Reversible Sodiation of Tin in Glyme Electrolytes: The Critical Role of the Solid Electrolyte Interphase and Its Formation Mechanism. ACS Applied Materials & Interfaces, 2020, 12, 3697-3708.	8.0	37
13	A novel DEMS approach for studying gas evolution at battery-type electrode|electrolyte interfaces: High-voltage LiNi0.5Mn1.5O4 cathode in ethylene and dimethyl carbonate electrolytes. Electrochimica Acta, 2019, 314, 188-201.	5.2	34
14	The effect of ammonium ions on oxygen reduction and hydrogen peroxide formation on polycrystalline Pt electrodes. Journal of Power Sources, 2008, 176, 435-443.	7.8	33
15	New Insights into the Mechanism and Kinetics of Adsorbed CO Electrooxidation on Platinum: Online Mass Spectrometry and Kinetic Monte Carlo Simulation Studies. Journal of Physical Chemistry C, 2012, 116, 11040-11053.	3.1	33
16	Fabrication of Pt/Ru Nanoparticle Pair Arrays with Controlled Separation and their Electrocatalytic Properties. ACS Nano, 2011, 5, 2547-2558.	14.6	32
17	Electrochemical quartz crystal microbalance study of perchlorate and perrhenate anion adsorption on polycrystalline gold electrode. Electrochemistry Communications, 2000, 2, 412-416.	4.7	26
18	The Effect of Anions and pH on the Activity and Selectivity of an Annealed Polycrystalline Au Film Electrode in the Oxygen Reduction Reactionâ€Revisited. ChemPhysChem, 2019, 20, 3276-3288.	2.1	22

#	Article	IF	Citations
19	Zincâ€ion Hybrid Supercapacitors Employing Acetateâ€Based Waterâ€inâ€Salt Electrolytes. Small, 2022, 18, .	10.0	22
20	Complete Quantitative Online Analysis of Methanol Electrooxidation Products via Electron Impact and Electrospray Ionization Mass Spectrometry. Analytical Chemistry, 2012, 84, 5479-5483.	6.5	21
21	Electrooxidation of 1-Propanol on Pt â€" Mechanistic Insights from a Spectro-Electrochemical Study using Isotope Labeling. Journal of Physical Chemistry C, 2012, 116, 25852-25867.	3.1	20
22	Interaction of C₁ Molecules with a Pt Electrode at Open Circuit Potential: A Combined Infrared and Mass Spectroscopic Study. Journal of Physical Chemistry C, 2014, 118, 6799-6808.	3.1	16
23	Oscillatory behaviour in Galvanostatic Formaldehyde Oxidation on Nanostructured Pt/Glassy Carbon Model Electrodes. ChemPhysChem, 2010, 11, 1405-1415.	2.1	15
24	Anodic molecular hydrogen formation on Ru and Cu electrodes. Catalysis Science and Technology, 2020, 10, 6870-6878.	4.1	15
25	On the Role of the Support in Pt Anode Catalyst Degradation under Simulated H₂ Fuel Starvation Conditions. Journal of the Electrochemical Society, 2018, 165, J3342-J3349.	2.9	14
26	The kinetic isotope effect in electroless copper plating. A DEMS study. Electrochimica Acta, 1997, 42, 449-454.	5.2	13
27	Photoâ€electrochemical Oxidation of Organic C1 Molecules over WO₃ Films in Aqueous Electrolyte: Competition Between Water Oxidation and C1 Oxidation. ChemSusChem, 2015, 8, 3677-3687.	6.8	12
28	Ionic Liquid Electrolytes for Metal-Air Batteries: Interactions between O₂, Zn²⁺ and H₂O Impurities. Journal of the Electrochemical Society, 2020, 167, 070505.	2.9	11
29	Controlled Surface Structure for In Situ ATR-FTIRS Studies Using Preferentially Shaped Pt Nanocrystals. Electrocatalysis, 2011, 2, 69-74.	3.0	9
30	Adsorption and oxidation of formaldehyde on a polycrystalline Pt film electrode: An in situ IR spectroscopy search for adsorbed reaction intermediates. Beilstein Journal of Nanotechnology, 2014, 5, 747-759.	2.8	9
31	Novel, Highly Conductive Pt/TiO₂ Thinâ€Film Model Catalyst Electrodes: The Role of Metalâ€"Support Interactions. ChemElectroChem, 2016, 3, 1553-1563.	3.4	9
32	O2 reduction on a Au film electrode in an ionic liquid in the absence and presence of Mg2+ ions: Product formation and adlayer dynamics. Journal of Chemical Physics, 2019, 150, 041724.	3.0	9
33	Ru(0001) surface electrochemistry in the presence of specifically adsorbing anions. Electrochimica Acta, 2021, 389, 138350.	5.2	4
34	Spontaneous Bi-modification of polycrystalline Pt electrode: fabrication, characterization, and performance in formic acid electrooxidation. Journal of Solid State Electrochemistry, 2010, 14, 1675-1680.	2.5	3
35	Lithium Metal Batteries: Reducing Capacity and Voltage Decay of Coâ€Free Li_{1.2}Ni_{0.2}Mn_{0.6}O₂ as Positive Electrode Material for Lithium Batteries Employing an Ionic Liquidâ€Based Electrolyte (Adv. Energy Mater. 34/2020). Advanced Energy Materials, 2020, 10, 2070142.	19.5	0