Zenonas Jusys

List of Publications by Year in descending order

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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	Zincâ€Ion Hybrid Supercapacitors Employing Acetateâ€Based Waterâ€inâ€Salt Electrolytes. Small, 2022, 18, .	10.0	22
2	Ru(0001) surface electrochemistry in the presence of specifically adsorbing anions. Electrochimica Acta, 2021, 389, 138350.	5.2	4
3	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
4	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
5	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
6	Halide-free water-in-salt electrolytes for stable aqueous sodium-ion batteries. Nano Energy, 2020, 77, 105176.	16.0	46
7	Anodic molecular hydrogen formation on Ru and Cu electrodes. Catalysis Science and Technology, 2020, 10, 6870-6878.	4.1	15
8	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
9	Designing Aqueous Organic Electrolytes for Zincâ€“Air Batteries: Method, Simulation, and Validation. Advanced Energy Materials, 2020, 10, 1903470.	19.5	45
10	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
11	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
12	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
13	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
14	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
15	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
16	Novel, Highly Conductive Pt/TiO₂ Thinâ€Film Model Catalyst Electrodes: The Role of Metalâ€“Support Interactions. ChemElectroChem, 2016, 3, 1553-1563.	3.4	9
17	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
18	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

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19	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
20	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
21	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
22	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
23	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
24	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
25	Fabrication of Pt/Ru Nanoparticle Pair Arrays with Controlled Separation and their Electrocatalytic Properties. ACS Nano, 2011, 5, 2547-2558.	14.6	32
26	Controlled Surface Structure for In Situ ATR-FTIRS Studies Using Preferentially Shaped Pt Nanocrystals. Electrocatalysis, 2011, 2, 69-74.	3.0	9
27	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
28	Oscillatory behaviour in Galvanostatic Formaldehyde Oxidation on Nanostructured Pt/Glassy Carbon Model Electrodes. ChemPhysChem, 2010, 11, 1405-1415.	2.1	15
29	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
30	Kinetic Isotope Effects in Complex Reaction Networks: Formic Acid Electro-Oxidation. ChemPhysChem, 2007, 8, 380-385.	2.1	103
31	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
32	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
33	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
34	Electrochemical quartz crystal microbalance study of perchlorate and perrhenate anion adsorption on polycrystalline gold electrode. Electrochemistry Communications, 2000, 2, 412-416.	4.7	26
35	The kinetic isotope effect in electroless copper plating. A DEMS study. Electrochimica Acta, 1997, 42, 449-454.	5.2	13