

Aleksandar R Zeradjanin

List of Publications by Year in descending order

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48
papers

4,673
citations

159525

30
h-index

182361

51
g-index

53
all docs

53
docs citations

53
times ranked

5983
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrocatalysis Beyond 2020: How to Tune the Preexponential Frequency Factor. <i>ChemElectroChem</i> , 2022, 9, .	1.7	5
2	Perspective on experimental evaluation of adsorption energies at solid/liquid interfaces. <i>Journal of Solid State Electrochemistry</i> , 2021, 25, 33-42.	1.2	4
3	How to minimise destabilising effect of gas bubbles on water splitting electrocatalysts?. <i>Current Opinion in Electrochemistry</i> , 2021, 30, 100797.	2.5	24
4	Expanding the frontiers of hydrogen evolution electrocatalysisâ€“searching for the origins of electrocatalytic activity in the anomalies of the conventional model. <i>Electrochimica Acta</i> , 2021, 388, 138583.	2.6	8
5	Activity and Stability of Oxides During Oxygen Evolution Reactionâ€“From Mechanistic Controversies Toward Relevant Electrocatalytic Descriptors. <i>Frontiers in Energy Research</i> , 2021, 8, .	1.2	45
6	The Effect of Iron Impurities on Transition Metal Catalysts for the Oxygen Evolution Reaction in Alkaline Environment: Activity Mediators or Active Sites?. <i>Catalysis Letters</i> , 2021, 151, 1843-1856.	1.4	46
7	What is the trigger for the hydrogen evolution reaction? â€“ towards electrocatalysis beyond the Sabatier principle. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 8768-8780.	1.3	41
8	Transition Metalâ€“Carbon Bond Enthalpies as Descriptor for the Electrochemical Stability of Transition Metal Carbides in Electrocatalytic Applications. <i>Journal of the Electrochemical Society</i> , 2020, 167, 021501.	1.3	14
9	Extracting the kinetic parameters of the hydrogen evolution reaction at Pt in acidic media by means of dynamic multi-frequency analysis. <i>Electrochimica Acta</i> , 2019, 308, 328-336.	2.6	21
10	Is a major breakthrough in the oxygen electrocatalysis possible?. <i>Current Opinion in Electrochemistry</i> , 2018, 9, 214-223.	2.5	66
11	Frequent Pitfalls in the Characterization of Electrodes Designed for Electrochemical Energy Conversion and Storage. <i>ChemSusChem</i> , 2018, 11, 1278-1284.	3.6	30
12	Carbon Monoxide as a Promoter of Atomically Dispersed Platinum Catalyst in Electrochemical Hydrogen Evolution Reaction. <i>Journal of the American Chemical Society</i> , 2018, 140, 16198-16205.	6.6	74
13	Cyclodextrin inhibits zinc corrosion by destabilizing point defect formation in the oxide layer. <i>Beilstein Journal of Nanotechnology</i> , 2018, 9, 936-944.	1.5	13
14	Utilization of the catalyst layer of dimensionally stable anodes. Part 2: Impact of spatial current distribution on electrocatalytic performance. <i>Journal of Electroanalytical Chemistry</i> , 2018, 828, 63-70.	1.9	14
15	Stability and Activity of Nonâ€“Nobleâ€“Metalâ€“Based Catalysts Toward the Hydrogen Evolution Reaction. <i>Angewandte Chemie</i> , 2017, 129, 9899-9903.	1.6	17
16	Balanced work function as a driver for facile hydrogen evolution reaction â€“ comprehension and experimental assessment of interfacial catalytic descriptor. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 17019-17027.	1.3	69
17	Stability and Activity of Nonâ€“Nobleâ€“Metalâ€“Based Catalysts Toward the Hydrogen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 9767-9771.	7.2	118
18	Screening of material libraries for electrochemical CO ₂ reduction catalysts â€“ Improving selectivity of Cu by mixing with Co. <i>Journal of Catalysis</i> , 2016, 343, 248-256.	3.1	47

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19	Electrochemical dissolution of gold in presence of chloride and bromide traces studied by on-line electrochemical inductively coupled plasma mass spectrometry. <i>Electrochimica Acta</i> , 2016, 222, 1056-1063.	2.6	33
20	A Critical Review on Hydrogen Evolution Electrocatalysis: Re-exploring the Volcano-relationship. <i>Electroanalysis</i> , 2016, 28, 2256-2269.	1.5	241
21	Platinum recycling going green via induced surface potential alteration enabling fast and efficient dissolution. <i>Nature Communications</i> , 2016, 7, 13164.	5.8	55
22	Evaluation of kinetic constants on porous, non-noble catalyst layers for oxygen reduction – A comparative study between SECM and hydrodynamic methods. <i>Catalysis Today</i> , 2016, 262, 74-81.	2.2	20
23	Dissolution of Platinum in the Operational Range of Fuel Cells. <i>ChemElectroChem</i> , 2015, 2, 1407-1407.	1.7	3
24	The Effect of the Voltage Scan Rate on the Determination of the Oxygen Reduction Activity of Pt/C Fuel Cell Catalyst. <i>Electrocatalysis</i> , 2015, 6, 237-241.	1.5	36
25	Dissolution of Platinum in the Operational Range of Fuel Cells. <i>ChemElectroChem</i> , 2015, 2, 1471-1478.	1.7	152
26	Stability of nanostructured iridium oxide electrocatalysts during oxygen evolution reaction in acidic environment. <i>Electrochemistry Communications</i> , 2014, 48, 81-85.	2.3	229
27	Impact of the spatial distribution of morphological pattern on the efficiency of electrocatalytic gas evolving reactions. <i>Journal of the Serbian Chemical Society</i> , 2014, 79, 325-330.	0.4	2
28	A Comparative Study on Gold and Platinum Dissolution in Acidic and Alkaline Media. <i>Journal of the Electrochemical Society</i> , 2014, 161, H822-H830.	1.3	239
29	Coupling of a scanning flow cell with online electrochemical mass spectrometry for screening of reaction selectivity. <i>Review of Scientific Instruments</i> , 2014, 85, 104101.	0.6	83
30	Oxygen Electrochemistry as a Cornerstone for Sustainable Energy Conversion. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 102-121.	7.2	1,186
31	Effect of Temperature on Gold Dissolution in Acidic Media. <i>Journal of the Electrochemical Society</i> , 2014, 161, H501-H507.	1.3	32
32	Temperature-Dependent Dissolution of Polycrystalline Platinum in Sulfuric Acid Electrolyte. <i>Electrocatalysis</i> , 2014, 5, 235-240.	1.5	81
33	Towards a comprehensive understanding of platinum dissolution in acidic media. <i>Chemical Science</i> , 2014, 5, 631-638.	3.7	337
34	Rational design of the electrode morphology for oxygen evolution – enhancing the performance for catalytic water oxidation. <i>RSC Advances</i> , 2014, 4, 9579.	1.7	117
35	On the faradaic selectivity and the role of surface inhomogeneity during the chlorine evolution reaction on ternary Ti-Ru-Ir mixed metal oxide electrocatalysts. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 13741-13747.	1.3	97
36	Dissolution of Noble Metals during Oxygen Evolution in Acidic Media. <i>ChemCatChem</i> , 2014, 6, 2219-2223.	1.8	394

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37	Sustainable generation of hydrogen using chemicals with regional oversupply – Feasibility of the electrolysis in acido-alkaline reactor. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 16275-16281.	3.8	9
38	The impact of dissolved reactive gases on platinum dissolution in acidic media. <i>Electrochemistry Communications</i> , 2014, 40, 49-53.	2.3	54
39	Gold dissolution: towards understanding of noble metal corrosion. <i>RSC Advances</i> , 2013, 3, 16516.	1.7	142
40	Application of SECM in tracing of hydrogen peroxide at multicomponent non-noble electrocatalyst films for the oxygen reduction reaction. <i>Catalysis Today</i> , 2013, 202, 55-62.	2.2	33
41	Microstructural impact of anodic coatings on the electrochemical chlorine evolution reaction. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 7392.	1.3	70
42	Electrochemical characteristics of rechargeable polyaniline/lead dioxide cell. <i>Journal of Power Sources</i> , 2012, 217, 193-198.	4.0	20
43	Role of Water in the Chlorine Evolution Reaction at RuO ₂ -Based Electrodes – Understanding Electrocatalysis as a Resonance Phenomenon. <i>ChemSusChem</i> , 2012, 5, 1897-1904.	3.6	53
44	Evaluation of the Catalytic Performance of Gas-Evolving Electrodes using Local Electrochemical Noise Measurements. <i>ChemSusChem</i> , 2012, 5, 1905-1911.	3.6	51
45	Utilization of the catalyst layer of dimensionally stable anodes – Interplay of morphology and active surface area. <i>Electrochimica Acta</i> , 2012, 82, 408-414.	2.6	49
46	Visualization of Chlorine Evolution at Dimensionally Stable Anodes by Means of Scanning Electrochemical Microscopy. <i>Analytical Chemistry</i> , 2011, 83, 7645-7650.	3.2	57
47	Scanning Electrochemical Microscopy for Investigation of Multicomponent Bioelectrocatalytic Films. <i>ECS Transactions</i> , 2011, 35, 33-44.	0.3	8
48	Electrocatalysis Beyond 2020: How to Tune the Preexponential Frequency Factor. <i>ChemElectroChem</i> , 0, , .	1.7	0