

# Artjom Maljusch

## List of Publications by Year in descending order

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Version: 2024-02-01

39  
papers

1,530  
citations

279798

23  
h-index

302126

39  
g-index

40  
all docs

40  
docs citations

40  
times ranked

2822  
citing authors

#	ARTICLE	IF	CITATIONS
1	Polybenzimidazole membranes functionalised with 1-methyl-2-mesitylbenzimidazolium ions via a hexyl linker for use in vanadium flow batteries. <i>Polymer</i> , 2019, 174, 210-217.	3.8	29
2	Anion-conductive membranes based on 2-mesityl-benzimidazolium functionalised poly(2,6-dimethyl-1,4-phenylene oxide) and their use in alkaline water electrolysis. <i>Polymer</i> , 2018, 145, 242-251.	3.8	44
3	X-ray Photoelectron Spectroscopic Investigation of Plasma-Enhanced Chemical Vapor Deposited NiO <sub>x</sub> , NiO <sub>x</sub> (OH) <sub>y</sub> , and CoNiO <sub>x</sub> (OH) <sub>y</sub> : Influence of the Chemical Composition on the Catalytic Activity for the Oxygen Evolution Reaction. <i>Journal of Physical Chemistry C</i> , 2017, 121, 6455-6463.	3.1	202
4	NH <sub>3</sub> Post-Treatment Induces High Activity of Co-Based Electrocatalysts Supported on Carbon Nanotubes for the Oxygen Evolution Reaction. <i>ChemElectroChem</i> , 2017, 4, 2091-2098.	3.4	7
5	Impact of the Co:Cu Ratio in CoCu-Containing Oxidic Solids on their Activity for the Water-Splitting Reaction. <i>ChemElectroChem</i> , 2017, 4, 2109-2116.	3.4	8
6	The Influence of Operation Temperature and Variations of the Illumination on the Performance of Integrated Photoelectrochemical Water-Splitting Devices. <i>ChemElectroChem</i> , 2017, 4, 2099-2108.	3.4	15
7	Imidazole based ionenes, their blends with PBI-OO and applicability as membrane in a vanadium Redox flow battery. <i>European Polymer Journal</i> , 2017, 96, 383-392.	5.4	28
8	Advanced Evaluation of the Long-Term Stability of Oxygen Evolution Electrocatalysts. <i>Analytical Chemistry</i> , 2016, 88, 7597-7602.	6.5	38
9	Kinetic Passivation Effect of Localized Differential Aeration on Brass. <i>ChemPlusChem</i> , 2016, 81, 49-57.	2.8	4
10	Kinetic Passivation Effect of Localized Differential Aeration on Brass. <i>ChemPlusChem</i> , 2016, 81, 2-2.	2.8	0
11	CoO <sub>x</sub> thin film deposited by CVD as efficient water oxidation catalyst: change of oxidation state in XPS and its correlation to electrochemical activity. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 10708-10718.	2.8	99
12	Benchmarking the Performance of Thin-Film Oxide Electrocatalysts for Gas Evolution Reactions at High Current Densities. <i>ACS Catalysis</i> , 2016, 6, 3017-3024.	11.2	26
13	Influence of the operating temperature on the performance of silicon based photoelectrochemical devices for water splitting. <i>Materials Science in Semiconductor Processing</i> , 2016, 42, 142-146.	4.0	17
14	Phenolated Oleic Acid Based Polybenzoxazine Derivatives as Corrosion Protection Layers. <i>ChemPlusChem</i> , 2015, 80, 1170-1177.	2.8	19
15	Combined AFM/SECM Investigation of the Solid Electrolyte Interphase in Li-Ion Batteries. <i>ChemElectroChem</i> , 2015, 2, 1607-1611.	3.4	38
16	Experimental Aspects in Benchmarking of the Electrocatalytic Activity. <i>ChemElectroChem</i> , 2015, 2, 143-149.	3.4	57
17	Characterisation of localised corrosion processes using scanning electrochemical impedance microscopy. <i>Electrochemistry Communications</i> , 2014, 44, 38-41.	4.7	28
18	Characterisation of non-uniform functional surfaces: towards linking basic surface properties with electrocatalytic activity. <i>RSC Advances</i> , 2014, 4, 1532-1537.	3.6	6

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19	Techniques and methodologies in modern electrocatalysis: evaluation of activity, selectivity and stability of catalytic materials. <i>Analyst, The</i> , 2014, 139, 1274.	3.5	38
20	Local visualization of catalytic activity at gas evolving electrodes using frequency-dependent scanning electrochemical microscopy. <i>Chemical Communications</i> , 2014, 50, 13250-13253.	4.1	27
21	Localized Impedance Measurements for Electrochemical Surface Science. <i>Journal of Physical Chemistry C</i> , 2014, 118, 8952-8959.	3.1	24
22	Spinel Mn <sup>2+</sup> /Co Oxide in N-Doped Carbon Nanotubes as a Bifunctional Electrocatalyst Synthesized by Oxidative Cutting. <i>Journal of the American Chemical Society</i> , 2014, 136, 7551-7554.	13.7	275
23	Revealing onset potentials using electrochemical microscopy to assess the catalytic activity of gas-evolving electrodes. <i>Electrochemistry Communications</i> , 2014, 38, 142-145.	4.7	22
24	Zr-based conversion layer on Zn-Al-Mg alloy coated steel sheets: insights into the formation mechanism. <i>Electrochimica Acta</i> , 2014, 137, 65-74.	5.2	61
25	Electrochemical formation and surface characterisation of Cu <sub>2-x</sub> Te thin films with adjustable content of Cu. <i>RSC Advances</i> , 2013, 3, 21648.	3.6	8
26	Formation and characterization of Fe <sup>3+</sup> /Cu <sup>2+</sup> -modified zirconium oxide conversion layers on zinc alloy coated steel sheets. <i>Electrochimica Acta</i> , 2013, 112, 14-23.	5.2	52
27	Preparation of thin film Cu <sup>2+</sup> /Pt(111) near-surface alloys: One small step towards up-scaling model single crystal surfaces. <i>Electrochimica Acta</i> , 2013, 112, 887-893.	5.2	7
28	Localized Electrochemical Impedance Spectroscopy: Visualization of Spatial Distributions of the Key Parameters Describing Solid/Liquid Interfaces. <i>Analytical Chemistry</i> , 2013, 85, 2443-2448.	6.5	42
29	Towards a detailed in situ characterization of non-stationary electrocatalytic systems. <i>Analyst, The</i> , 2012, 137, 631-640.	3.5	15
30	Combined high resolution Scanning Kelvin probe <sup>TM</sup> Scanning electrochemical microscopy investigations for the visualization of local corrosion processes. <i>Electrochimica Acta</i> , 2012, 82, 339-348.	5.2	32
31	Thin-Film Cu <sup>2+</sup> /Pt(111) Near-Surface Alloys: Active Electrocatalysts for the Oxygen Reduction Reaction. <i>ACS Catalysis</i> , 2012, 2, 1457-1460.	11.2	41
32	A quick method for the preparation of Pt(111)-like thin films. <i>Electrochemistry Communications</i> , 2012, 16, 88-91.	4.7	9
33	Probing electrode/electrolyte interface during intercalation of Cu into Te. <i>Electrochemistry Communications</i> , 2012, 20, 92-96.	4.7	8
34	SECM and SKPFM Studies of the Local Corrosion Mechanism of Al Alloys – A Pathway to an Integrated SKP <sup>TM</sup> SECM System. <i>Electroanalysis</i> , 2012, 24, 239-245.	2.9	15
35	Simultaneous Acquisition of Impedance and Gravimetric Data in a Cyclic Potential Scan for the Characterization of Nonstationary Electrode/Electrolyte Interfaces. <i>Journal of Physical Chemistry C</i> , 2011, 115, 9122-9130.	3.1	36
36	Integrated Scanning Kelvin Probe-Scanning Electrochemical Microscope System: Development and First Applications. <i>Analytical Chemistry</i> , 2011, 83, 6114-6120.	6.5	11

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37	Pt <sup>+</sup> /Ag Catalysts as Cathode Material for Oxygen-Depolarized Electrodes in Hydrochloric Acid Electrolysis. <i>Analytical Chemistry</i> , 2010, 82, 1890-1896.	6.5	34
38	Visualization of the Local Catalytic Activity of Electrodeposited Pt <sup>+</sup> /Ag Catalysts for Oxygen Reduction by means of SECM. <i>ChemPhysChem</i> , 2009, 10, 2711-2718.	2.1	41
39	Visualization of electrocatalytic activity of microstructured metal hexacyanoferrates by means of redox competition mode of scanning electrochemical microscopy (RC-SECM). <i>Electrochimica Acta</i> , 2009, 54, 3753-3758.	5.2	42