Artjom Maljusch

List of Publications by Year
in descending order

39	1,530	279798	302126
papers	citations	23 h-index	39 g-index

40	40	40	2822
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Spinel Mnâ€“Co Oxide in N-Doped Carbon Nanotubes as a Bifunctional Electrocatalyst Synthesized by Oxidative Cutting. Journal of the American Chemical Society, 2014, 136, 7551-7554.	13.7	275
2	X-ray Photoelectron Spectroscopic Investigation of Plasma-Enhanced Chemical Vapor Deposited NiO_x, NiO_x(OH)_y, and CoNiO_x(OH)_y: Influence of the Chemical Composition on the Catalytic Activity for the Oxygen Evolution Reaction. Journal of Physical Chemistry C, 2017, 121, 6455-6463.	3.1	202
3	CoO_xthin film deposited by CVD as efficient water oxidation catalyst: change of oxidation state in XPS and its correlation to electrochemical activity. Physical Chemistry Chemical Physics, 2016, 18, 10708-10718.	2.8	99
4	Zr-based conversion layer on Zn-Al-Mg alloy coated steel sheets: insights into the formation mechanism. Electrochimica Acta, 2014, 137, 65-74.	5.2	61
5	Experimental Aspects in Benchmarking of the Electrocatalytic Activity. ChemElectroChem, 2015, 2, 143-149.	3.4	57
6	Formation and characterization of Fe3+-/Cu2+-modified zirconium oxide conversion layers on zinc alloy coated steel sheets. Electrochimica Acta, 2013, 112, 14-23.	5.2	52
7	Anion-conductive membranes based on 2-mesityl-benzimidazolium functionalised poly(2,6-dimethyl-1,4-phenylene oxide) and their use in alkaline water electrolysis. Polymer, 2018, 145, 242-251.	3.8	44
8	Visualization of electrocatalytic activity of microstructured metal hexacyanoferrates by means of redox competition mode of scanning electrochemical microscopy (RC-SECM). Electrochimica Acta, 2009, 54, 3753-3758.	5.2	42
9	Localized Electrochemical Impedance Spectroscopy: Visualization of Spatial Distributions of the Key Parameters Describing Solid/Liquid Interfaces. Analytical Chemistry, 2013, 85, 2443-2448.	6.5	42
10	Visualization of the Local Catalytic Activity of Electrodeposited Ptâ€“Ag Catalysts for Oxygen Reduction by means of SECM. ChemPhysChem, 2009, 10, 2711-2718.	2.1	41
11	Thin-Film Cuâ€“Pt(111) Near-Surface Alloys: Active Electrocatalysts for the Oxygen Reduction Reaction. ACS Catalysis, 2012, 2, 1457-1460.	11.2	41
12	Techniques and methodologies in modern electrocatalysis: evaluation of activity, selectivity and stability of catalytic materials. Analyst, The, 2014, 139, 1274.	3.5	38
13	Combined AFM/SECM Investigation of the Solid Electrolyte Interphase in Liâ€ion Batteries. ChemElectroChem, 2015, 2, 1607-1611.	3.4	38
14	Advanced Evaluation of the Long-Term Stability of Oxygen Evolution Electrocatalysts. Analytical Chemistry, 2016, 88, 7597-7602.	6.5	38
15	Simultaneous Acquisition of Impedance and Gravimetric Data in a Cyclic Potential Scan for the Characterization of Nonstationary Electrode/Electrolyte Interfaces. Journal of Physical Chemistry C, 2011, 115, 9122-9130.	3.1	36
16	Ptâ^'Ag Catalysts as Cathode Material for Oxygen-Depolarized Electrodes in Hydrochloric Acid Electrolysis. Analytical Chemistry, 2010, 82, 1890-1896.	6.5	34
17	Combined high resolution Scanning Kelvin probeâ€”Scanning electrochemical microscopy investigations for the visualization of local corrosion processes. Electrochimica Acta, 2012, 82, 339-348.	5.2	32
18	Polybenzimidazole membranes functionalised with 1-methyl-2-mesitylbenzimidazolium ions via a hexyl linker for use in vanadium flow batteries. Polymer, 2019, 174, 210-217.	3.8	29

#	Article	IF	Citations
19	Characterisation of localised corrosion processes using scanning electrochemical impedance microscopy. Electrochemistry Communications, 2014, 44, 38-41.	4.7	28
20	Imidazole based ionenes, their blends with PBI-OO and applicability as membrane in a vanadium Redox flow battery. European Polymer Journal, 2017, 96, 383-392.	5.4	28
21	Local visualization of catalytic activity at gas evolving electrodes using frequency-dependent scanning electrochemical microscopy. Chemical Communications, 2014, 50, 13250-13253.	4.1	27
22	Benchmarking the Performance of Thin-Film Oxide Electrocatalysts for Gas Evolution Reactions at High Current Densities. ACS Catalysis, 2016, 6, 3017-3024.	11.2	26
23	Localized Impedance Measurements for Electrochemical Surface Science. Journal of Physical Chemistry C, 2014, 118, 8952-8959.	3.1	24
24	Revealing onset potentials using electrochemical microscopy to assess the catalytic activity of gas-evolving electrodes. Electrochemistry Communications, 2014, 38, 142-145.	4.7	22
25	Phenolated Oleic Acid Based Polybenzoxazine Derivatives as Corrosion Protection Layers. ChemPlusChem, 2015, 80, 1170-1177.	2.8	19
26	Influence of the operating temperature on the performance of silicon based photoelectrochemical devices for water splitting. Materials Science in Semiconductor Processing, 2016, 42, 142-146.	4.0	17
27	Towards a detailed in situ characterization of non-stationary electrocatalytic systems. Analyst, The, 2012, 137, 631-640.	3.5	15
28	SECM and SKPFM Studies of the Local Corrosion Mechanism of Al Alloys â€“ A Pathway to an Integrated SKPâ€SECM System. Electroanalysis, 2012, 24, 239-245.	2.9	15
29	The Influence of Operation Temperature and Variations of the Illumination on the Performance of Integrated Photoelectrochemical Waterâ€Splitting Devices. ChemElectroChem, 2017, 4, 2099-2108.	3.4	15
30	Integrated Scanning Kelvin Probe-Scanning Electrochemical Microscope System: Development and First Applications. Analytical Chemistry, 2011, 83, 6114-6120.	6.5	11
31	A quick method for the preparation of Pt(111)-like thin films. Electrochemistry Communications, 2012, 16, 88-91.	4.7	9
32	Probing electrode/electrolyte interface during intercalation of Cu into Te. Electrochemistry Communications, 2012, 20, 92-96.	4.7	8
33	Electrochemical formation and surface characterisation of Cu2â^'xTe thin films with adjustable content of Cu. RSC Advances, 2013, 3, 21648.	3.6	8
34	Impact of the Coâ€‰:â€‰Cu Ratio in CoCuâ€Containing Oxidic Solids on their Activity for the Waterâ€Splitting Reaction. ChemElectroChem, 2017, 4, 2109-2116.	3.4	8
35	Preparation of thin film Cuâ€“Pt(111) near-surface alloys: One small step towards up-scaling model single crystal surfaces. Electrochimica Acta, 2013, 112, 887-893.	5.2	7
36	NH₃ Postâ€Treatment Induces High Activity of Coâ€Based Electrocatalysts Supported on Carbon Nanotubes for the Oxygen Evolution Reaction. ChemElectroChem, 2017, 4, 2091-2098.	3.4	7

#	Article	IF	Citations
37	Characterisation of non-uniform functional surfaces: towards linking basic surface properties with electrocatalytic activity. RSC Advances, 2014, 4, 1532-1537.	3.6	6
38	Kinetic Passivation Effect of Localized Differential Aeration on Brass. ChemPlusChem, 2016, 81, 49-57.	2.8	4
39	Kinetic Passivation Effect of Localized Differential Aeration on Brass. ChemPlusChem, 2016, 81, 2-2.	2.8	0