

Aliaksandr S Bandarenka

List of Publications by Year in descending order

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134
papers

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87843

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137
all docs

137
docs citations

137
times ranked

6181
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure-reactivity relations in electrocatalysis. , 2023, , 419-436.		2
2	A Systematic Study of the Influence of Electrolyte Ions on the Electrode Activity. ChemElectroChem, 2022, 9, .	1.7	8
3	Exploration of the electrical double-layer structure: Influence of electrolyte components on the double-layer capacitance and potential of maximum entropy. Current Opinion in Electrochemistry, 2022, 32, 100882.	2.5	10
4	Electrolyte Effects on the Stabilization of Prussian Blue Analogue Electrodes in Aqueous Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2022, 14, 3515-3525.	4.0	27
5	Avoiding Pyrolysis and Calcination: Advances in the Benign Routes Leading to MOFâ€Derived Electrocatalysts. ChemElectroChem, 2022, 9, .	1.7	12
6	Dual In Situ Laser Techniques Underpin the Role of Cations in Impacting Electrocatalysts. Angewandte Chemie - International Edition, 2022, 61, .	7.2	16
7	Cover Feature: Avoiding Pyrolysis and Calcination: Advances in the Benign Routes Leading to MOFâ€Derived Electrocatalysts (ChemElectroChem 7/2022). ChemElectroChem, 2022, 9, .	1.7	0
8	Correlative Electrochemical Microscopy for the Elucidation of the Local Ionic and Electronic Properties of the Solid Electrolyte Interphase in Liâ€Ion Batteries. Angewandte Chemie - International Edition, 2022, 61, .	7.2	25
9	Li ⁺ Conductivity of Space Charge Layers Formed at Electrified Interfaces Between a Model Solid-State Electrolyte and Blocking Au-Electrodes. ACS Applied Materials & Interfaces, 2022, 14, 15811-15817.	4.0	12
10	Korrelative elektrochemische Mikroskopie zur Aufkl�rung der lokalen ionischen und elektronischen Eigenschaften der Festk�rperâ€Elektrolyt Zwischenphase in Liâ€Ionenâ€Batterien. Angewandte Chemie, 2022, 134, .	1.6	2
11	Dual In Situ Laser Techniques Underpin the Role of Cations in Impacting Electrocatalysts. Angewandte Chemie, 2022, 134, .	1.6	7
12	Revealing the Nature of Active Sites on Ptâ€Gd and Ptâ€Pr Alloys during the Oxygen Reduction Reaction. ACS Applied Materials & Interfaces, 2022, 14, 19604-19613.	4.0	16
13	Spatially Resolved Electrochemical Impedance Spectroscopy of Automotive PEM Fuel Cells. ChemElectroChem, 2022, 9, .	1.7	2
14	Finding efficient catalyst designs: A high-precision method to reveal active sites. Chem Catalysis, 2022, 2, 657-659.	2.9	0
15	Elucidation of Structureâ€Activity Relations in Proton Electroreduction at Pd Surfaces: Theoretical and Experimental Study. Small, 2022, 18, .	5.2	7
16	Modeling of Space-Charge Layers in Solid-State Electrolytes: A Kinetic Monte Carlo Approach and Its Validation. Journal of Physical Chemistry C, 2022, 126, 10900-10909.	1.5	6
17	Structure-Dependent Electrical Double-Layer Capacitances of the Basal Plane Pd(<i>hkl</i>) Electrodes in HClO ₄ . Journal of Physical Chemistry C, 2022, 126, 11414-11420.	1.5	5
18	In Situ Quantification of the Local Electrocatalytic Activity via Electrochemical Scanning Tunneling Microscopy. Small Methods, 2021, 5, e2000710.	4.6	23

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19	Analysis of the Capacitive Behavior of Polymer Electrolyte Membrane Fuel Cells during Operation. ChemElectroChem, 2021, 8, 96-102.	1.7	1
20	Monitoring the active sites for the hydrogen evolution reaction at model carbon surfaces. Physical Chemistry Chemical Physics, 2021, 23, 10051-10058.	1.3	21
21	Review on physical impedance models in modern battery research. Physical Chemistry Chemical Physics, 2021, 23, 12926-12944.	1.3	34
22	Properties of the Space Charge Layers Formed in Li-Ion Conducting Glass Ceramics. ACS Applied Materials & Interfaces, 2021, 13, 5853-5860.	4.0	27
23	The Potential of Zero Charge and the Electrochemical Interface Structure of Cu(111) in Alkaline Solutions. Journal of Physical Chemistry C, 2021, 125, 5020-5028.	1.5	33
24	Assessment of active areas for the oxygen evolution reaction on an amorphous iridium oxide surface. Journal of Catalysis, 2021, 396, 14-22.	3.1	23
25	Investigation of degradation mechanisms in PEM fuel cells caused by low-temperature cycles. International Journal of Hydrogen Energy, 2021, 46, 15951-15964.	3.8	15
26	Characterization and Quantification of Depletion and Accumulation Layers in Solid-State Li ⁺ -Conducting Electrolytes Using In Situ Spectroscopic Ellipsometry. Advanced Materials, 2021, 33, e2100585.	11.1	17
27	In-situ detection of active sites for carbon-based bifunctional oxygen reduction and evolution catalysis. Electrochimica Acta, 2021, 382, 138285.	2.6	15
28	Solid-State Electrolytes: Characterization and Quantification of Depletion and Accumulation Layers in Solid-State Li ⁺ -Conducting Electrolytes Using In Situ Spectroscopic Ellipsometry (Adv. Tj ETQq0 010.1gBT / Overlock 10	11.1	17
29	Spotlight on the Effect of Electrolyte Composition on the Potential of Maximum Entropy: Supporting Electrolytes Are Not Always Inert. Chemistry - A European Journal, 2021, 27, 10016-10020.	1.7	10
30	Metamorphosis of Heterostructured Surface-Mounted Metal-Organic Frameworks Yielding Record Oxygen Evolution Mass Activities. Advanced Materials, 2021, 33, e2103218.	11.1	43
31	A Review on Experimental Identification of Active Sites in Model Bifunctional Electrocatalytic Systems for Oxygen Reduction and Evolution Reactions. ChemElectroChem, 2021, 8, 3433-3456.	1.7	13
32	Temperature dependences of the double layer capacitance of some solid/liquid and solid/solid electrified interfaces. An experimental study. Electrochimica Acta, 2021, 391, 138969.	2.6	9
33	Fast and accurate determination of the electroactive surface area of MnOx. Electrochimica Acta, 2021, 389, 138692.	2.6	8
34	Dynamic and precise temperature control unit for PEMFC single-cell testing. Engineering Reports, 2021, 3, e12345.	0.9	1
35	Electrochemical top-down synthesis of C-supported Pt nano-particles with controllable shape and size: Mechanistic insights and application. Nano Research, 2021, 14, 2762-2769.	5.8	18
36	Nanosized and metastable molybdenum oxides as negative electrode materials for durable high-energy aqueous Li-ion batteries. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	15

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37	Advanced Bifunctional Oxygen Reduction and Evolution Electrocatalyst Derived from Surface-Mounted Metal-Organic Frameworks. <i>Angewandte Chemie</i> , 2020, 132, 5886-5892.	1.6	16
38	Advanced Bifunctional Oxygen Reduction and Evolution Electrocatalyst Derived from Surface-Mounted Metal-Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 5837-5843.	7.2	99
39	In situ Probing of Mn ₂ O ₃ Activation toward Oxygen Electroreduction by the Laser-Induced Current Transient Technique. <i>ACS Applied Energy Materials</i> , 2020, 3, 9151-9157.	2.5	12
40	Applicability of double layer capacitance measurements to monitor local temperature changes at polymer electrolyte membrane fuel cell cathodes. <i>Results in Chemistry</i> , 2020, 2, 100078.	0.9	5
41	How the Nature of the Alkali Metal Cations Influences the Double-Layer Capacitance of Cu, Au, and Pt Single-Crystal Electrodes. <i>Journal of Physical Chemistry C</i> , 2020, 124, 12442-12447.	1.5	37
42	Real-Time Impedance Analysis for the On-Road Monitoring of Automotive Fuel Cells. <i>ChemElectroChem</i> , 2020, 7, 2784-2791.	1.7	8
43	Temperature Effects in Polymer Electrolyte Membrane Fuel Cells. <i>ChemElectroChem</i> , 2020, 7, 3545-3568.	1.7	34
44	Aktivitätssteigerung der Wasserstoffentwicklung von Platinelektroden in alkalischen Medien unter Verwendung von Ni-Fe-Clustern. <i>Angewandte Chemie</i> , 2020, 132, 11026-11031.	1.6	8
45	Enhancing the Hydrogen Evolution Reaction Activity of Platinum Electrodes in Alkaline Media Using Nickel-Iron Clusters. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 10934-10938.	7.2	70
46	Tailoring the Oxygen Reduction Activity of Pt Nanoparticles through Surface Defects: A Simple Top-Down Approach. <i>ACS Catalysis</i> , 2020, 10, 3131-3142.	5.5	50
47	Oxygen Reduction Activities of Strained Platinum Core-Shell Electrocatalysts Predicted by Machine Learning. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 1773-1780.	2.1	31
48	Prospects of Value-Added Chemicals and Hydrogen via Electrolysis. <i>ChemSusChem</i> , 2020, 13, 2513-2521.	3.6	70
49	Recent Approaches to Design Electrocatalysts Based on Metal-Organic Frameworks and Their Derivatives. <i>Chemistry - an Asian Journal</i> , 2019, 14, 3474-3501.	1.7	34
50	A Cell for Controllable Formation and In Operando Electrochemical Characterization of Intercalation Materials for Aqueous Metal-Ion Batteries. <i>Small Methods</i> , 2019, 3, 1900445.	4.6	4
51	In-situ visualization of hydrogen evolution sites on helium ion treated molybdenum dichalcogenides under reaction conditions. <i>Npj 2D Materials and Applications</i> , 2019, 3, .	3.9	35
52	Revealing the nature of active sites in electrocatalysis. <i>Chemical Science</i> , 2019, 10, 8060-8075.	3.7	96
53	Determination of Electroactive Surface Area of Ni-, Co-, Fe-, and Ir-Based Oxide Electrocatalysts. <i>ACS Catalysis</i> , 2019, 9, 9222-9230.	5.5	80
54	The nature of active centers catalyzing oxygen electro-reduction at platinum surfaces in alkaline media. <i>Energy and Environmental Science</i> , 2019, 12, 351-357.	15.6	38

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55	Fast identification of optimal pure platinum nanoparticle shapes and sizes for efficient oxygen electroreduction. <i>Nanoscale Advances</i> , 2019, 1, 2901-2909.	2.2	12
56	Degradation mechanisms in polymer electrolyte membrane fuel cells caused by freeze-cycles: Investigation using electrochemical impedance spectroscopy. <i>Electrochimica Acta</i> , 2019, 311, 21-29.	2.6	36
57	Optimierung der Groe von Platin-Nanopartikeln fur eine erhohhte Massenaktivitat der elektrochemischen Sauerstoffreduktion. <i>Angewandte Chemie</i> , 2019, 131, 9697-9702.	1.6	9
58	Optimizing the Size of Platinum Nanoparticles for Enhanced Mass Activity in the Electrochemical Oxygen Reduction Reaction. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 9596-9600.	7.2	100
59	Unprecedented High Oxygen Evolution Activity of Electrocatalysts Derived from Surface-Mounted Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2019, 141, 5926-5933.	6.6	125
60	Intercalation of Mg ²⁺ into electrodeposited Prussian Blue Analogue thin films from aqueous electrolytes. <i>Electrochimica Acta</i> , 2019, 307, 157-163.	2.6	17
61	Revealing Active Sites for Hydrogen Evolution at Pt and Pd Atomic Layers on Au Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 12476-12480.	4.0	23
62	Electrochemical Scanning Probe Microscopies in Electrocatalysis. <i>Small Methods</i> , 2019, 3, 1800387.	4.6	50
63	Top-Down Synthesis of Nanostructured Platinum-Lanthanide Alloy Oxygen Reduction Reaction Catalysts: Pt _x Pr/C as an Example. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 5129-5135.	4.0	60
64	Theoretical and experimental identification of active electrocatalytic surface sites. <i>Current Opinion in Electrochemistry</i> , 2019, 14, 206-213.	2.5	12
65	Frontispiece: Elucidation of the Oxygen Reduction Volcano in Alkaline Media using a Copper-Platinum(111) Alloy. <i>Angewandte Chemie - International Edition</i> , 2018, 57, .	7.2	1
66	Electrodeposited Na ₂ Ni[Fe(CN) ₆] Thin-Film Cathodes Exposed to Simulated Aqueous Na-Ion Battery Conditions. <i>Journal of Physical Chemistry C</i> , 2018, 122, 8760-8768.	1.5	37
67	High oxygen reduction reaction activity of Pt ₅ Pr electrodes in acidic media. <i>Electrochemistry Communications</i> , 2018, 88, 10-14.	2.3	26
68	Elucidation of the Oxygen Reduction Volcano in Alkaline Media using a Copper-Platinum(111) Alloy. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 2800-2805.	7.2	72
69	Elucidation of the Oxygen Reduction Volcano in Alkaline Media using a Copper-Platinum(111) Alloy. <i>Angewandte Chemie</i> , 2018, 130, 2850-2855.	1.6	10
70	Electrochemically Formed Na _x Mn[Mn(CN) ₆] Thin Film Anodes Demonstrate Sodium Intercalation and Deintercalation at Extremely Negative Electrode Potentials in Aqueous Media. <i>ACS Applied Energy Materials</i> , 2018, 1, 123-128.	2.5	16
71	Frontispiz: Elucidation of the Oxygen Reduction Volcano in Alkaline Media using a Copper-Platinum(111) Alloy. <i>Angewandte Chemie</i> , 2018, 130, .	1.6	0
72	Enabling Generalized Coordination Numbers to Describe Strain Effects. <i>ChemSusChem</i> , 2018, 11, 1824-1828.	3.6	57

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73	Multistage Mechanism of Lithium Intercalation into Graphite Anodes in the Presence of the Solid Electrolyte Interface. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 14063-14069.	4.0	30
74	A Comprehensive Physical Impedance Model of Polymer Electrolyte Fuel Cell Cathodes in Oxygen-free Atmosphere. <i>Scientific Reports</i> , 2018, 8, 4933.	1.6	27
75	Influence of the Nature of the Alkali Metal Cations on the Electrical Double-Layer Capacitance of Model Pt(111) and Au(111) Electrodes. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 1927-1930.	2.1	68
76	Oxygen Electroreduction at High-Index Pt Electrodes in Alkaline Electrolytes: A Decisive Role of the Alkali Metal Cations. <i>ACS Omega</i> , 2018, 3, 15325-15331.	1.6	39
77	Intrinsic Activity of Some Oxygen and Hydrogen Evolution Reaction Electrocatalysts under Industrially Relevant Conditions. <i>ACS Applied Energy Materials</i> , 2018, 1, 4196-4202.	2.5	14
78	Oxygen Reduction Reaction: Rapid Prediction of Mass Activity of Nanostructured Platinum Electrocatalysts. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 4463-4468.	2.1	43
79	Chromium(II) Hexacyanoferrate-Based Thin Films as a Material for Aqueous Alkali Metal Cation Batteries. <i>ACS Omega</i> , 2018, 3, 5111-5115.	1.6	9
80	On the Dominating Mechanism of the Hydrogen Evolution Reaction at Polycrystalline Pt Electrodes in Acidic Media. <i>ACS Catalysis</i> , 2018, 8, 9456-9462.	5.5	46
81	Multiple Potentials of Maximum Entropy for a $\text{Na}_{2}\text{Co}[\text{Fe}(\text{CN})_{6}]$ Battery Electrode Material: Does the Electrolyte Composition Control the Interface?. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 21688-21695.	4.0	13
82	Influence of Alkali Metal Cations on the Hydrogen Evolution Reaction Activity of Pt, Ir, Au, and Ag Electrodes in Alkaline Electrolytes. <i>ChemElectroChem</i> , 2018, 5, 2326-2329.	1.7	95
83	Electrodeposited $\text{Na}_{2}\text{VO}_{x}$ $[\text{Fe}(\text{CN})_{6}]$ films As a Cathode Material for Aqueous Na-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 8107-8112.	4.0	69
84	Quantitative Coordination-Activity Relations for the Design of Enhanced Pt Catalysts for CO Electro-oxidation. <i>ACS Catalysis</i> , 2017, 7, 4355-4359.	5.5	45
85	On the pH Dependence of the Potential of Maximum Entropy of Ir(111) Electrodes. <i>Scientific Reports</i> , 2017, 7, 1246.	1.6	37
86	What Do Laser-Induced Transient Techniques Reveal for Batteries? Na- and K-Intercalation from Aqueous Electrolytes as an Example. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 20213-20222.	4.0	21
87	Why conclusions from platinum model surfaces do not necessarily lead to enhanced nanoparticle catalysts for the oxygen reduction reaction. <i>Chemical Science</i> , 2017, 8, 2283-2289.	3.7	173
88	Synergistically Enhanced Electrochemical Performance of Hierarchical $\text{MoS}_{2}/\text{TiNb}_{2}\text{O}_{7}$ Hetero-nanostructures as Anode Materials for Li-Ion Batteries. <i>ACS Nano</i> , 2017, 11, 1026-1033.	7.3	89
89	Reconsidering Water Electrolysis: Producing Hydrogen at Cathodes Together with Selective Oxidation of $n\text{-Ti}\text{-Butylamine}$ at Anodes. <i>ChemSusChem</i> , 2017, 10, 4812-4816.	3.6	27
90	Direct instrumental identification of catalytically active surface sites. <i>Nature</i> , 2017, 549, 74-77.	13.7	199

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91	Engineering of Highly Active Silver Nanoparticles for Oxygen Electroreduction via Simultaneous Control over Their Shape and Size. <i>Advanced Sustainable Systems</i> , 2017, 1, 1700117.	2.7	13
92	Nature of Highly Active Electrocatalytic Sites for the Hydrogen Evolution Reaction at Pt Electrodes in Acidic Media. <i>ACS Omega</i> , 2017, 2, 8141-8147.	1.6	46
93	Pt Alloy Electrocatalysts for the Oxygen Reduction Reaction: From Model Surfaces to Nanostructured Systems. <i>ACS Catalysis</i> , 2016, 6, 5378-5385.	5.5	130
94	Quick Determination of Electroactive Surface Area of Some Oxide Electrode Materials. <i>Electroanalysis</i> , 2016, 28, 2394-2399.	1.5	57
95	The Mechanism of the Interfacial Charge and Mass Transfer during Intercalation of Alkali Metal Cations. <i>Advanced Science</i> , 2016, 3, 1600211.	5.6	32
96	Kinetic Passivation Effect of Localized Differential Aeration on Brass. <i>ChemPlusChem</i> , 2016, 81, 49-57.	1.3	4
97	Anodic Desorption Monitored by Voltammetric and Gravimetric Measurements for Fast Estimation of Surface Coverage of Complex Organic Molecules on Au Electrodes. <i>Electroanalysis</i> , 2016, 28, 2382-2388.	1.5	0
98	Making the hydrogen evolution reaction in polymer electrolyte membrane electrolyzers even faster. <i>Nature Communications</i> , 2016, 7, 10990.	5.8	97
99	How simple are the models of Na intercalation in aqueous media?. <i>Energy and Environmental Science</i> , 2016, 9, 955-961.	15.6	51
100	Benchmarking the Performance of Thin-Film Oxide Electrocatalysts for Gas Evolution Reactions at High Current Densities. <i>ACS Catalysis</i> , 2016, 6, 3017-3024.	5.5	26
101	In Situ Characterization of Ultrathin Films by Scanning Electrochemical Impedance Microscopy. <i>Analytical Chemistry</i> , 2016, 88, 3354-3362.	3.2	21
102	Elucidation of adsorption processes at the surface of Pt(331) model electrocatalysts in acidic aqueous media. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 10792-10799.	1.3	17
103	Influence of the electrolyte composition on the activity and selectivity of electrocatalytic centers. <i>Catalysis Today</i> , 2016, 262, 24-35.	2.2	48
104	Influence of the alkali metal cations on the activity of Pt(111) towards model electrocatalytic reactions in acidic sulfuric media. <i>Catalysis Today</i> , 2015, 244, 96-102.	2.2	33
105	Electropolymerization: Further Insight into the Formation of Conducting Polyindole Thin Films. <i>Journal of Physical Chemistry C</i> , 2015, 119, 1996-2003.	1.5	30
106	Evaluation of the Electrochemical Stability of Model Cu-Pt(111) Near-Surface Alloy Catalysts. <i>Electrochimica Acta</i> , 2015, 179, 469-474.	2.6	12
107	Non-covalent interactions in water electrolysis: influence on the activity of Pt(111) and iridium oxide catalysts in acidic media. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 8349-8355.	1.3	39
108	Finding optimal surface sites on heterogeneous catalysts by counting nearest neighbors. <i>Science</i> , 2015, 350, 185-189.	6.0	725

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109	Detection of 2D phase transitions at the electrode/electrolyte interface using electrochemical impedance spectroscopy. <i>Surface Science</i> , 2015, 631, 81-87.	0.8	13
110	Experimental Aspects in Benchmarking of the Electrocatalytic Activity. <i>ChemElectroChem</i> , 2015, 2, 143-149.	1.7	57
111	Position of Cu Atoms at the Pt(111) Electrode Surfaces Controls Electrosorption of (H)SO ₄ ²⁻ from H ₂ SO ₄ Electrolytes. <i>ChemElectroChem</i> , 2014, 1, 213-219.	1.7	5
112	Characterisation of localised corrosion processes using scanning electrochemical impedance microscopy. <i>Electrochemistry Communications</i> , 2014, 44, 38-41.	2.3	28
113	Characterisation of Complex Electrode Processes using Simultaneous Impedance Spectroscopy and Electrochemical Nanogravimetric Measurements. <i>ChemPlusChem</i> , 2014, 79, 348-358.	1.3	3
114	Characterisation of non-uniform functional surfaces: towards linking basic surface properties with electrocatalytic activity. <i>RSC Advances</i> , 2014, 4, 1532-1537.	1.7	6
115	Elucidating the activity of stepped Pt single crystals for oxygen reduction. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 13625.	1.3	92
116	Techniques and methodologies in modern electrocatalysis: evaluation of activity, selectivity and stability of catalytic materials. <i>Analyst</i> , The, 2014, 139, 1274.	1.7	38
117	Local visualization of catalytic activity at gas evolving electrodes using frequency-dependent scanning electrochemical microscopy. <i>Chemical Communications</i> , 2014, 50, 13250-13253.	2.2	27
118	Localized Impedance Measurements for Electrochemical Surface Science. <i>Journal of Physical Chemistry C</i> , 2014, 118, 8952-8959.	1.5	24
119	Oxygen Reduction at a Cu-Modified Pt(111) Model Electrocatalyst in Contact with Nafion Polymer. <i>ACS Catalysis</i> , 2014, 4, 3772-3778.	5.5	47
120	Revealing onset potentials using electrochemical microscopy to assess the catalytic activity of gas-evolving electrodes. <i>Electrochemistry Communications</i> , 2014, 38, 142-145.	2.3	22
121	Exploring the interfaces between metal electrodes and aqueous electrolytes with electrochemical impedance spectroscopy. <i>Analyst</i> , The, 2013, 138, 5540.	1.7	89
122	Electrochemical formation and surface characterisation of Cu ₂ xTe thin films with adjustable content of Cu. <i>RSC Advances</i> , 2013, 3, 21648.	1.7	8
123	Multiparametric Characterization of Nonelectroactive Self-Assembled Monolayers During Their Formation. <i>Langmuir</i> , 2013, 29, 9909-9917.	1.6	3
124	Novel approach of processing electrical bioimpedance data using differential impedance analysis. <i>Medical Engineering and Physics</i> , 2013, 35, 1349-1357.	0.8	33
125	A versatile electrochemical cell for the preparation and characterisation of model electrocatalytic systems. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 12998.	1.3	16
126	Theoretical design and experimental implementation of Ag/Au electrodes for the electrochemical reduction of nitrate. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 3196.	1.3	98

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127	The constant phase element reveals 2D phase transitions in adsorbate layers at the electrode/electrolyte interfaces. <i>Electrochemistry Communications</i> , 2013, 27, 42-45.	2.3	25
128	Preparation of thin film Cu/Pt(111) near-surface alloys: One small step towards up-scaling model single crystal surfaces. <i>Electrochimica Acta</i> , 2013, 112, 887-893.	2.6	7
129	Localized Electrochemical Impedance Spectroscopy: Visualization of Spatial Distributions of the Key Parameters Describing Solid/Liquid Interfaces. <i>Analytical Chemistry</i> , 2013, 85, 2443-2448.	3.2	42
130	Tailoring the catalytic activity of electrodes with monolayer amounts of foreign metals. <i>Chemical Society Reviews</i> , 2013, 42, 5210.	18.7	202
131	Structural and electronic effects in heterogeneous electrocatalysis: Toward a rational design of electrocatalysts. <i>Journal of Catalysis</i> , 2013, 308, 11-24.	3.1	132
132	Design of an Active Site towards Optimal Electrocatalysis: Overlayers, Surface Alloys and Near-Surface Alloys of Cu/Pt(111). <i>Angewandte Chemie - International Edition</i> , 2012, 51, 11845-11848.	7.2	94
133	In depth analysis of complex interfacial processes: in situ electrochemical characterization of deposition of atomic layers of Cu, Pb and Te on Pd electrodes. <i>RSC Advances</i> , 2012, 2, 10994.	1.7	17
134	Prospects of Using the Laser-Induced Temperature Jump Techniques for Characterisation of Electrochemical Systems. <i>ChemElectroChem</i> , 0, , .	1.7	1