

Jie Zhang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

237
papers

8,069
citations

46
h-index

77
g-index

244
ext. papers

9,325
ext. citations

7.3
avg, IF

6.52
L-index

#	Paper	IF	Citations
237	Advanced Spatiotemporal Voltammetric Techniques for Kinetic Analysis and Active Site Determination in the Electrochemical Reduction of CO ₂ . <i>Accounts of Chemical Research</i> , 2022 ,	24.3	5
236	Opportunities and Challenges in Applying Machine Learning to Voltammetric Mechanistic Studies. <i>Current Opinion in Electrochemistry</i> , 2022 , 101009	7.2	1
235	Inclusion of multiple cycling of potential in the deep neural network classification of voltammetric reaction mechanisms.. <i>Faraday Discussions</i> , 2021 ,	3.6	2
234	Architectural Design for Enhanced C Product Selectivity in Electrochemical CO Reduction Using Cu-Based Catalysts: A Review. <i>ACS Nano</i> , 2021 , 15, 7975-8000	16.7	41
233	A Comparison of Bayesian Inference Strategies for Parameterisation of Large Amplitude AC Voltammetry Derived from Total Current and Fourier Transformed Versions. <i>ChemElectroChem</i> , 2021 , 8, 2238-2258	4.3	2
232	CdS-Enhanced Ethanol Selectivity in Electrocatalytic CO Reduction at Sulfide-Derived Cu-Cd. <i>ChemSusChem</i> , 2021 , 14, 2924-2934	8.3	2
231	Production of hydrogen peroxide in formulated beverages is associated with the presence of ascorbic acid combined with selected redox-active functional ingredients. <i>Food Chemistry</i> , 2021 , 338, 127947	8.5	7
230	Using Purely Sinusoidal Voltammetry for Rapid Inference of Surface-Confined Electrochemical Reaction Parameters. <i>Analytical Chemistry</i> , 2021 , 93, 2062-2071	7.8	5
229	Selective electrochemical hydrogenation of furfural to 2-methylfuran over a single atom Cu catalyst under mild pH conditions. <i>Green Chemistry</i> , 2021 , 23, 3028-3038	10	10
228	Atomic nickel cluster decorated defect-rich copper for enhanced C ₂ product selectivity in electrocatalytic CO ₂ reduction. <i>Applied Catalysis B: Environmental</i> , 2021 , 291, 120030	21.8	21
227	Lithium/bismuth co-functionalized phosphotungstic acid catalyst for promoting dinitrogen electroreduction with high Faradaic efficiency. <i>Cell Reports Physical Science</i> , 2021 , 2, 100557	6.1	1
226	Recent advances and future perspectives for automated parameterisation, Bayesian inference and machine learning in voltammetry. <i>Chemical Communications</i> , 2021 , 57, 1855-1870	5.8	13
225	Identification of Mechanistic Subtleties that Apply to Voltammetric Studies at Boron-Doped Diamond Electrodes. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 24232-24244	3.8	1
224	Modeling the Influence of Low Concentrations of Water on the Thermodynamics, Electron Transfer Kinetics, and Diffusivity of the [Ru(CN) ₆] ⁴⁻ /[Ru(CN) ₆] ³⁻ Process in Propylene Carbonate. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 13726-13738	3.8	1
223	Thermodynamics, Electrode Kinetics, and Mechanistic Nuances Associated with the Voltammetric Reduction of Dissolved [n-Bu ₄ N] ⁺ [PW ₁₁ O ₃₉ {Sn(C ₆ H ₄) ₂ C(C ₆ H ₄)(N ₃ C ₄ H ₁₀)}] and a Surface-Confined Diazonium Derivative. <i>ACS Applied Energy Materials</i> , 2020 , 3, 3991-4006	6.1	5
222	Electrocatalytic carbon dioxide reduction: from fundamental principles to catalyst design. <i>Materials Today Advances</i> , 2020 , 7, 100074	7.4	38
221	Electrode Material Dependence, Ion Pairing, and Progressive Increase in Complexity of the [S ₂ W ₁₈ O ₆₂] ⁴⁻ /[S ₂ W ₁₈ O ₆₂] ³⁻ Reduction Processes in Acetonitrile Containing [n-Bu ₄ N] ⁺ [PF ₆] ⁻ as the Supporting Electrolyte. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 16032-16047	3.8	3

220	Impact of the Lithium Cation on the Voltammetry and Spectroscopy of [XVMO] (X = P, As (= 4), S (= 3); M = Mo, W): Influence of Charge and Addenda and Hetero Atoms. <i>Inorganic Chemistry</i> , 2020 , 59, 10522-10539	5.1	10539
219	The Origin of the Electrocatalytic Activity for CO Reduction Associated with Metal-Organic Frameworks. <i>ChemSusChem</i> , 2020 , 13, 2552-2556	8.3	8
218	Can Electrification of Ammonia Synthesis Decrease Its Carbon Footprint?. <i>Joule</i> , 2020 , 4, 12-14	27.8	8
217	Mechanistic understanding of the electrocatalytic CO ₂ reduction reaction [New developments based on advanced instrumental techniques. <i>Nano Today</i> , 2020 , 31, 100835	17.9	42
216	Modelling limitations encountered in the thermodynamic and electrode kinetic parameterization of the [S2W18O62]4- processes at glassy carbon and metal electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2020 , 872, 113786	4.1	6
215	Unique Layer-Doping-Induced Regulation of Charge Behavior in Metal-Free Carbon Nitride Photoanodes for Enhanced Performance. <i>ChemSusChem</i> , 2020 , 13, 328-333	8.3	10
214	Two-Dimensional Electrocatalysts for Efficient Reduction of Carbon Dioxide. <i>ChemSusChem</i> , 2020 , 13, 59-77	8.3	18
213	Automatically Identifying Electrode Reaction Mechanisms Using Deep Neural Networks. <i>Analytical Chemistry</i> , 2019 , 91, 12220-12227	7.8	14
212	Unprecedented Formation of a Binuclear Au(II)-Au(II) Complex through Redox State Cycling: Electrochemical Interconversion of Au(I)-Au(I), Au(II)-Au(II), and Au(I)-Au(III) in Binuclear Complexes Containing the Carbanionic Ligand CFPPH. <i>Inorganic Chemistry</i> , 2019 , 58, 13999-14004	5.1	6
211	Radio frequency alternating electromagnetic field enhanced tetra ruthenium polyoxometalate electrocatalytic water oxidation. <i>Chemical Communications</i> , 2019 , 55, 1032-1035	5.8	6
210	Conversion of dinitrogen to ammonia on Ru atoms supported on boron sheets: a DFT study. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 4771-4776	13	158
209	Dual Quantum Dot-Decorated Bismuth Vanadate Photoanodes for Highly Efficient Solar Water Oxidation. <i>ChemSusChem</i> , 2019 , 12, 1240-1245	8.3	14
208	Single-Boron Catalysts for Nitrogen Reduction Reaction. <i>Journal of the American Chemical Society</i> , 2019 , 141, 2884-2888	16.4	320
207	Impact of sp ² Carbon Edge Effects on the Electron-Transfer Kinetics of the Ferrocene/Ferricenium Process at a Boron-Doped Diamond Electrode in an Ionic Liquid. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 17397-17406	3.8	14
206	Spectroscopic Insights into the Mechanism of Selective Catalytic Reduction of NO by Ammonia on Sulfuric Acid-modified Fe ₂ O ₃ Surface. <i>ChemCatChem</i> , 2019 , 11, 3035-3041	5.2	8
205	Stepping towards Solar Water Splitting: Recent Progress in Bismuth Vanadate Photoanodes. <i>ChemElectroChem</i> , 2019 , 6, 3227-3243	4.3	29
204	Application of Bayesian Inference in Fourier-Transformed Alternating Current Voltammetry for Electrode Kinetic Mechanism Distinction. <i>Analytical Chemistry</i> , 2019 , 91, 5303-5309	7.8	8
203	Electrohydrogenation of Carbon Dioxide using a Ternary Pd/Cu O-Cu Catalyst. <i>ChemSusChem</i> , 2019 , 12, 4471-4479	8.3	6

202	Reply to Comment on Stabilization of Low-Valent Iron(I) in a High-Valent Vanadium(V) Oxide Cluster. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 10048-10050	16.4	5
201	Models and Their Limitations in the Voltammetric Parameterization of the Six-Electron Surface-Confined Reduction of [PMo12O40]3- at Glassy Carbon and Boron-Doped Diamond Electrodes. <i>ChemElectroChem</i> , 2019 , 6, 5499-5510	4.3	10
200	Electrocatalytic CO2 Reduction to Formate on Cu Based Surface Alloys with Enhanced Selectivity. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 19453-19462	8.3	16
199	Formation of lattice-dislocated bismuth nanowires on copper foam for enhanced electrocatalytic CO2 reduction at low overpotential. <i>Energy and Environmental Science</i> , 2019 , 12, 1334-1340	35.4	137
198	Oxomolybdate anchored on copper for electrocatalytic hydrogen production over the entire pH range. <i>Applied Catalysis B: Environmental</i> , 2019 , 249, 227-234	21.8	11
197	Separating the Effects of Experimental Noise from Inherent System Variability in Voltammetry: The [Fe(CN)] Process. <i>Analytical Chemistry</i> , 2019 , 91, 1944-1953	7.8	8
196	Phosphomolybdic Acid-Assisted Growth of Ultrathin Bismuth Nanosheets for Enhanced Electrocatalytic Reduction of CO to Formate. <i>ChemSusChem</i> , 2019 , 12, 1091-1100	8.3	22
195	Size Controllable Metal Nanoparticles Anchored on Nitrogen Doped Carbon for Electrocatalytic Energy Conversion. <i>ChemElectroChem</i> , 2019 , 6, 1508-1513	4.3	2
194	Recent advances in the nanoengineering of electrocatalysts for CO reduction. <i>Nanoscale</i> , 2018 , 10, 6235-6260	109	109
193	Facile electrochemical co-deposition of metal (Cu, Pd, Pt, Rh) nanoparticles on reduced graphene oxide for electrocatalytic reduction of nitrate/nitrite. <i>Electrochimica Acta</i> , 2018 , 269, 733-741	6.7	39
192	Demonstration of Superiority of the Marcus-Hush Electrode Kinetic Model in the Electrochemistry of Dissolved Decamethylferrocene at a Gold-Modified Electrode by Fourier-Transformed Alternating Current Voltammetry. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 9009-9014	3.8	9
191	Electrochemical reduction of CO2 on defect-rich Bi derived from Bi2S3 with enhanced formate selectivity. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 4714-4720	13	93
190	Identification of a new substrate effect that enhances the electrocatalytic activity of dendritic tin in CO reduction. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 5936-5941	3.6	16
189	Advanced Composite 2D Energy Materials by Simultaneous Anodic and Cathodic Exfoliation. <i>Advanced Energy Materials</i> , 2018 , 8, 1702794	21.8	34
188	Stannate derived bimetallic nanoparticles for electrocatalytic CO2 reduction. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 7851-7858	13	46
187	Polyoxometalate-Promoted Electrocatalytic CO Reduction at Nanostructured Silver in Dimethylformamide. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 12690-12697	9.5	48
186	Voltammetric Perspectives on the Acidity Scale and H/H Process in Ionic Liquid Media. <i>Annual Review of Analytical Chemistry</i> , 2018 , 11, 397-419	12.5	6
185	Electrodeposition of nanocrystalline zinc-tin alloy from aqueous electrolyte containing gluconate in the presence of polyethylene glycol and hexadecyltrimethylammonium bromide. <i>Journal of Electroanalytical Chemistry</i> , 2018 , 813, 143-151	4.1	5

184	Use of Bayesian Inference for Parameter Recovery in DC and AC Voltammetry. <i>ChemElectroChem</i> , 2018 , 5, 917-935	4.3	17
183	Electrolyte cation dependence of the electron transfer kinetics associated with the [SVW11O4O]3/4[VV/IV] and [SVW11O4O]4/5[WVI/V] processes in propylene carbonate. <i>Journal of Electroanalytical Chemistry</i> , 2018 , 819, 193-201	4.1	6
182	Two-Dimensional Boron Sheets as Metal-Free Catalysts for Hydrogen Evolution Reaction. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 19051-19055	3.8	41
181	Variation of Carbon Based Materials on the Electropolymerization of Tyramine. <i>Electroanalysis</i> , 2018 , 30, 1545-1555	3	1
180	Double-Layer Capacitance at Ionic Liquid-Boron-Doped Diamond Electrode Interfaces Studied by Fourier Transformed Alternating Current Voltammetry. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 11772-11786	3.8	6
179	Fourier transformed alternating current voltammetry in electromaterials research: Direct visualisation of important underlying electron transfer processes. <i>Current Opinion in Electrochemistry</i> , 2018 , 10, 72-81	7.2	20
178	Controllable Synthesis of Few-Layer Bismuth Subcarbonate by Electrochemical Exfoliation for Enhanced CO Reduction Performance. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 13283-13287	16.4	95
177	Controllable Synthesis of Few-Layer Bismuth Subcarbonate by Electrochemical Exfoliation for Enhanced CO2 Reduction Performance. <i>Angewandte Chemie</i> , 2018 , 130, 13467-13471	3.6	26
176	Bismuth Vanadate with Electrostatically Anchored 3D Carbon Nitride Nano-networks as Efficient Photoanodes for Water Oxidation. <i>ChemSusChem</i> , 2018 , 11, 2510-2516	8.3	18
175	Chapter 7:Electrocarboxylation in Ionic Liquids. <i>RSC Energy and Environment Series</i> , 2018 , 160-181	0.6	2
174	Ultra-small Cu nanoparticles embedded in N-doped carbon arrays for electrocatalytic CO2 reduction reaction in dimethylformamide. <i>Nano Research</i> , 2018 , 11, 3678-3690	10	10
173	Mechanical properties of electrodeposited nanocrystalline and ultrafine-grained Zn-Sn coatings. <i>Surface and Coatings Technology</i> , 2018 , 333, 71-80	4.4	10
172	Theoretical Evaluation of Possible 2D Boron Monolayer in N2 Electrochemical Conversion into Ammonia. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 25268-25273	3.8	70
171	Integration of Heuristic and Automated Parametrization of Three Unresolved Two-Electron Surface-Confined Polyoxometalate Reduction Processes by AC Voltammetry. <i>ChemElectroChem</i> , 2018 , 5, 3771-3785	4.3	9
170	NiO Nanoparticles Anchored on Phosphorus-Doped Fe O Nanoarrays: An Efficient Hole Extraction p-n Heterojunction Photoanode for Water Oxidation. <i>ChemSusChem</i> , 2018 , 11, 2156-2164	8.3	48
169	Probing Electrode Heterogeneity Using Fourier-Transformed Alternating Current Voltammetry: Application to a Dual-Electrode Configuration. <i>Analytical Chemistry</i> , 2017 , 89, 2830-2837	7.8	8
168	PdCu@Pd Nanocube with Pt-like Activity for Hydrogen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 8151-8160	9.5	79
167	Comparison of fast electron transfer kinetics at platinum, gold, glassy carbon and diamond electrodes using Fourier-transformed AC voltammetry and scanning electrochemical microscopy. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 8726-8734	3.6	19

166	Electrochemical Reduction of CO ₂ with an Oxide-Derived Lead Nano-Coralline Electrode in Dimcarb. <i>ChemElectroChem</i> , 2017 , 4, 1402-1410	4.3	17
165	Probing Electrode Heterogeneity using Fourier-Transformed Alternating Current Voltammetry: Protocol Development. <i>Electrochimica Acta</i> , 2017 , 240, 514-521	6.7	6
164	Large-Amplitude Fourier-Transformed AC Voltammetric Study of the Capacitive Electrochemical Behavior of the 1-Butyl-3-methylimidazolium Tetrafluoroborate Polycrystalline Gold Electrode Interface. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 12136-12147	3.8	18
163	Enhanced NADH Oxidation Using Polytyramine/Carbon Nanotube Modified Electrodes for Ethanol Biosensing. <i>Electroanalysis</i> , 2017 , 29, 1985-1993	3	11
162	Porous nitrogen-doped carbon derived from biomass for electrocatalytic reduction of CO ₂ to CO. <i>Electrochimica Acta</i> , 2017 , 245, 561-568	6.7	49
161	Direct Detection of Electron Transfer Reactions Underpinning the Tin-Catalyzed Electrochemical Reduction of CO ₂ using Fourier-Transformed ac Voltammetry. <i>ACS Catalysis</i> , 2017 , 7, 4846-4853	13.1	42
160	Hierarchical Mesoporous SnO Nanosheets on Carbon Cloth: A Robust and Flexible Electrocatalyst for CO Reduction with High Efficiency and Selectivity. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 505-509	16.4	407
159	Unlocking the Electrocatalytic Activity of Antimony for CO Reduction by Two-Dimensional Engineering of the Bulk Material. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 14718-14722	16.4	126
158	Unlocking the Electrocatalytic Activity of Antimony for CO ₂ Reduction by Two-Dimensional Engineering of the Bulk Material. <i>Angewandte Chemie</i> , 2017 , 129, 14910-14914	3.6	45
157	Cobalt selenide nanoflake decorated reduced graphene oxide nanocomposite for efficient glucose electro-oxidation in alkaline medium. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 19289-19296	13	19
156	Stabilization of Low-Valent Iron(II) in a High-Valent Vanadium(V) Oxide Cluster. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 14749-14752	16.4	38
155	A Systematic Study of the Mass Transport, Kinetic and Thermodynamic Properties of the Fe ^{III/II} Process at Glassy Carbon and Boron-Doped Diamond Electrodes. <i>Electrochimica Acta</i> , 2017 , 249, 421-430	6.7	3
154	Electrochemical maps and movies of the hydrogen evolution reaction on natural crystals of molybdenite (MoS ₂): basal edge plane activity. <i>Chemical Science</i> , 2017 , 8, 6583-6593	9.4	112
153	Electrochemical Reduction of Carbon Dioxide in a Monoethanolamine Capture Medium. <i>ChemSusChem</i> , 2017 , 10, 4109-4118	8.3	44
152	Influence of Tip and Substrate Properties and Nonsteady-State Effects on Nanogap Kinetic Measurements: Response to Comment on "Impact of Adsorption on Scanning Electrochemical Microscopy Voltammetry and Implications for Nanogap Measurements". <i>Analytical Chemistry</i> , 2017 , 89, 7273-7276	7.8	9
151	Towards a better Sn: Efficient electrocatalytic reduction of CO ₂ to formate by Sn/SnS ₂ derived from SnS ₂ nanosheets. <i>Nano Energy</i> , 2017 , 31, 270-277	17.1	195
150	Efficient Enzymatic Oxidation of Glucose Mediated by Ferrocene Covalently Attached to Polyethylenimine Stabilized Gold Nanoparticles. <i>Electroanalysis</i> , 2016 , 28, 2728-2736	3	7
149	Ionic liquids and their solid-state analogues as materials for energy generation and storage. <i>Nature Reviews Materials</i> , 2016 , 1,	73.3	391

148	Mixed-Metal Hybrid Polyoxometalates with Amino Acid Ligands: Electronic Versatility and Solution Properties. <i>Inorganic Chemistry</i> , 2016 , 55, 12329-12347	5.1	11
147	Electrode Material Dependence of the Electron Transfer Kinetics Associated with the [SVW11O40]374[VV/IV) and [SVW11O40]475[WVI/V) Processes in Dimethylformamide. <i>Electrochimica Acta</i> , 2016 , 201, 45-56	6.7	13
146	Polyethylenimine promoted electrocatalytic reduction of CO2 to CO in aqueous medium by graphene-supported amorphous molybdenum sulphide. <i>Energy and Environmental Science</i> , 2016 , 9, 216-223	35.4	130
145	Room Temperature Electrodeposition of Metallic Magnesium from Ethylmagnesium Bromide in Tetrahydrofuran and Ionic Liquid Mixtures. <i>Journal of the Electrochemical Society</i> , 2016 , 163, H3043-H3051	3.9	7
144	Electrochemistry of Iodide, Iodine, and Iodine Monochloride in Chloride Containing Nonhaloaluminate Ionic Liquids. <i>Analytical Chemistry</i> , 2016 , 88, 1915-21	7.8	21
143	Electrooxidation of Ethanol and Methanol Using the Molecular Catalyst [Ru4O4(OH)2(H2O)4]([SiW10O36]2)(10.). <i>Journal of the American Chemical Society</i> , 2016 , 138, 2617-28	16.4	61
142	Predicting (17)O NMR chemical shifts of polyoxometalates using density functional theory. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 8235-41	3.6	4
141	Effect of the N-based ligands in copper complexes for depolymerisation of lignin. <i>New Journal of Chemistry</i> , 2016 , 40, 3511-3519	3.6	8
140	Dual-Frequency Alternating Current Designer Waveform for Reliable Voltammetric Determination of Electrode Kinetics Approaching the Reversible Limit. <i>Analytical Chemistry</i> , 2016 , 88, 2367-74	7.8	14
139	Impact of Adsorption on Scanning Electrochemical Microscopy Voltammetry and Implications for Nanogap Measurements. <i>Analytical Chemistry</i> , 2016 , 88, 3272-80	7.8	33
138	Electrodeposition of Nanocrystalline Zinc from Sulfate and Sulfate-Gluconate Electrolytes in the Presence of Additives. <i>Journal of the Electrochemical Society</i> , 2016 , 163, D476-D484	3.9	9
137	Electrochemical Reduction of CO2 at Metal Electrodes in a Distillable Ionic Liquid. <i>ChemSusChem</i> , 2016 , 9, 1271-8	8.3	31
136	Bioinspired Electrocatalytic CO2 Reduction by Bovine Serum Albumin-Capped Silver Nanoclusters Mediated by [SiW12O40]4-. <i>ChemSusChem</i> , 2016 , 9, 80-7	8.3	22
135	Influence of 1-butyl-3-methylimidazolium on the electron transfer kinetics associated with the [SVW 11 O 40] 374[V V/IV) and [SVW 11 O 40] 475[W VI/V) processes in dimethylformamide. <i>Journal of Electroanalytical Chemistry</i> , 2016 , 779, 67-74	4.1	7
134	Is the Imidazolium Cation a Unique Promoter for Electrocatalytic Reduction of Carbon Dioxide?. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 23989-24001	3.8	76
133	A Facile Chemical-Free and Universal Method for Transfer of Ultrathin Graphene-Based Films. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1600540	4.6	2
132	Mass-Transport and Heterogeneous Electron-Transfer Kinetics Associated with the Ferrocene/Ferrocenium Process in Ionic Liquids. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 16516-16525	3.8	34
131	Determination of fast electrode kinetics facilitated by use of an internal reference. <i>Analytical Chemistry</i> , 2015 , 87, 8387-93	7.8	4

130	Diminished Electron Transfer Kinetics for [Ru(NH ₃) ₆] ^{3+/2+} , [SiW ₁₂ O ₄₀] ^{4-/5-} and [SiW ₁₂ O ₄₀] ^{5-/6-} Processes at Boron-Doped Diamond Electrodes. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 12464-12472	3.8	21
129	Electroanalytical Applications of Semiintegral and Convolution Voltammetry in Room-Temperature Ionic Liquids 2015 , 143-167		1
128	Voltammetry of Adhered Microparticles in Contact with Ionic Liquids: Principles and Applications 2015 , 405-433		
127	Electrochemical reduction of aromatic ketones in 1-butyl-3-methylimidazolium-based ionic liquids in the presence of carbon dioxide: the influence of the ketone substituent and the ionic liquid anion on bulk electrolysis product distribution. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 19247-54	3.6	16
126	Lindqvist Polyoxoniobate Ion-Assisted Electrodeposition of Cobalt and Nickel Water Oxidation Catalysts. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 16632-44	9.5	22
125	An integrated instrumental and theoretical approach to quantitative electrode kinetic studies based on large amplitude Fourier transformed a.c. voltammetry: A mini review. <i>Electrochemistry Communications</i> , 2015 , 57, 78-83	5.1	56
124	Probing Electrolyte Cation Effects on the Electron Transfer Kinetics of the [SiW ₁₂ O ₄₀] ^{4-/5-} and [SiW ₁₂ O ₄₀] ^{5-/6-} Processes using a Boron-Doped Diamond Electrode. <i>Electrochimica Acta</i> , 2015 , 178, 631-637	6.7	12
123	pH-Dependent solution dynamics of a manganese(II) polyoxometalate, [Mn ₄ (H ₂ O) ₂ (P ₂ W ₁₅ O ₅₆) ₂] ⁽¹⁶⁻⁾ , and [Mn(H ₂ O) ₆] ⁽²⁺⁾ . <i>Dalton Transactions</i> , 2015 , 44, 19068-71	4.3	6
122	Voltammetric Determination of the Iodide/Iodine Formal Potential and Triiodide Stability Constant in Conventional and Ionic Liquid Media. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 22392-22403	3.8	75
121	Electrochemical Proton Reduction and Equilibrium Acidity (pK _a) in Aprotic Ionic Liquids: Protonated Amines and Sulfonamide Acids. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 21828-21839	3.8	21
120	Electrochemical Proton Reduction and Equilibrium Acidity (pK _a) in Aprotic Ionic Liquids: Phenols, Carboxylic Acids, and Sulfonic Acids. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 21840-21851	3.8	14
119	Electroless deposition of iridium oxide nanoparticles promoted by condensation of [Ir(OH) ₆] ²⁺ on an anodized Au surface: application to electrocatalysis of the oxygen evolution reaction. <i>RSC Advances</i> , 2015 , 5, 3196-3199	3.7	30
118	Fourier Transformed Large Amplitude Alternating Current Voltammetry: Principles and Applications. <i>Review of Polarography</i> , 2015 , 61, 21-32	0.2	46
117	Changing the Action of Iron from Stoichiometric to Electrocatalytic in the Hydrogenation of Ketones in Aqueous Acidic Media. <i>ChemSusChem</i> , 2015 , 8, 3712-7	8.3	1
116	One pot synthesis of poly(5-hydroxyl-1,4-naphthoquinone) stabilized gold nanoparticles using the monomer as the reducing agent for nonenzymatic electrochemical detection of glucose. <i>Analytica Chimica Acta</i> , 2015 , 856, 27-34	6.6	16
115	Electrocarboxylation of acetophenone in ionic liquids: the influence of proton availability on product distribution. <i>Green Chemistry</i> , 2014 , 16, 2242-2251	10	32
114	Selective laser sintering of TiO ₂ nanoparticle film on plastic conductive substrate for highly efficient flexible dye-sensitized solar cell application. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 4566-4573	7.3	32
113	Two tetra-Cd(II)-substituted vanadogermanate frameworks. <i>Journal of the American Chemical Society</i> , 2014 , 136, 5065-71	16.4	80

112	Facile electrochemical co-deposition of a graphene-cobalt nanocomposite for highly efficient water oxidation in alkaline media: direct detection of underlying electron transfer reactions under catalytic turnover conditions. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 19035-45	3.6	35
111	Mediator enhanced water oxidation using Rb ₄ [Ru(II)(bpy) ₃] ₅ [{Ru(III)O ₄ (OH) ₂ (H ₂ O) ₄ }(SiW ₁₀ O ₃₆) ₂] film modified electrodes. <i>Inorganic Chemistry</i> , 2014 , 53, 7561-70	5.1	21
110	Electrochemistry of nickel(II) and copper(II) N,N'-ethylenebis(acetylacetonimino) complexes and their electrocatalytic activity for reduction of carbon dioxide and carboxylic acid protons. <i>Transition Metal Chemistry</i> , 2014 , 39, 819-830	2.1	15
109	Synthesis, characterization and morphology of reduced graphene oxide-metal@CNQ nanocomposites. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 870-878	7.1	38
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