Jie Zhang

List of Publications by Citations

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	Hierarchical Mesoporous SnO Nanosheets on Carbon Cloth: A Robust and Flexible Electrocatalyst for CO Reduction with High Efficiency and Selectivity. *Angewandte Chemie - International Edition*, **2017**, 56, 505-509	16.4	407
236	Ionic liquids and their solid-state analogues as materials for energy generation and storage. *Nature Reviews Materials*, **2016**, 1,	73.3	391
235	Single-Boron Catalysts for Nitrogen Reduction Reaction. *Journal of the American Chemical Society*, **2019**, 141, 2884-2888	16.4	320
234	Towards a better Sn: Efficient electrocatalytic reduction of CO 2 to formate by Sn/SnS 2 derived from SnS 2 nanosheets. *Nano Energy*, **2017**, 31, 270-277	17.1	195
233	Changing the look of voltammetry. Can FT revolutionize voltammetric techniques as it did for NMR?. *Analytical Chemistry*, **2005**, 77, 186A-195A	7.8	170
232	Conversion of dinitrogen to ammonia on Ru atoms supported on boron sheets: a DFT study. *Journal of Materials Chemistry A*, **2019**, 7, 4771-4776	13	158
231	Practical considerations associated with voltammetric studies in room temperature ionic liquids. *Analyst, The*, **2005**, 130, 1132-47	5	153
230	Formation of lattice-dislocated bismuth nanowires on copper foam for enhanced electrocatalytic CO2 reduction at low overpotential. *Energy and Environmental Science*, **2019**, 12, 1334-1340	35.4	137
229	Polyethylenimine promoted electrocatalytic reduction of CO2 to CO in aqueous medium by graphene-supported amorphous molybdenum sulphide. *Energy and Environmental Science*, **2016**, 9, 216-223	35.4	130
228	Unlocking the Electrocatalytic Activity of Antimony for CO Reduction by Two-Dimensional Engineering of the Bulk Material. *Angewandte Chemie - International Edition*, **2017**, 56, 14718-14722	16.4	126
227	Conditions required to achieve the apparent equivalence of adhered solid- and solution-phase voltammetry for ferrocene and other redox-active solids in ionic liquids. *Analytical Chemistry*, **2003**, 75, 2694-702	7.8	113
226	Electrochemical maps and movies of the hydrogen evolution reaction on natural crystals of molybdenite (MoS): basal edge plane activity. *Chemical Science*, **2017**, 8, 6583-6593	9.4	112
225	Recent advances in the nanoengineering of electrocatalysts for CO reduction. *Nanoscale*, **2018**, 10, 6235-6260	7.7	109
224	Graphene-supported [{Ru4O4(OH)2(H2O)4}(ÐSiW10O36)2]10Ðfor highly efficient electrocatalytic water oxidation. *Energy and Environmental Science*, **2013**, 6, 2654	35.4	109
223	Utilization of nanoparticle labels for signal amplification in ultrasensitive electrochemical affinity biosensors: a review. *Analytica Chimica Acta*, **2013**, 797, 1-12	6.6	96
222	Controllable Synthesis of Few-Layer Bismuth Subcarbonate by Electrochemical Exfoliation for Enhanced CO Reduction Performance. *Angewandte Chemie - International Edition*, **2018**, 57, 13283-13287	16.4	95
221	Electrochemical reduction of CO2 on defect-rich Bi derived from Bi2S3 with enhanced formate selectivity. *Journal of Materials Chemistry A*, **2018**, 6, 4714-4720	13	93

220	Two tetra-Cd(II)-substituted vanadogermanate frameworks. *Journal of the American Chemical Society*, **2014**, 136, 5065-71	16.4	80
219	PdCu@Pd Nanocube with Pt-like Activity for Hydrogen Evolution Reaction. *ACS Applied Materials & Interfaces*, **2017**, 9, 8151-8160	9.5	79
218	Voltammetric studies on the reduction of polyoxometalate anions in ionic liquids. *Inorganic Chemistry*, **2005**, 44, 5123-32	5.1	78
217	Is the Imidazolium Cation a Unique Promoter for Electrocatalytic Reduction of Carbon Dioxide?. *Journal of Physical Chemistry C*, **2016**, 120, 23989-24001	3.8	76
216	Voltammetric Determination of the Iodide/Iodine Formal Potential and Triiodide Stability Constant in Conventional and Ionic Liquid Media. *Journal of Physical Chemistry C*, **2015**, 119, 22392-22403	3.8	75
215	Fourier Transform Large-Amplitude Alternating Current Cyclic Voltammetry of Surface-Bound Azurin. *Analytical Chemistry*, **2004**, 76, 166-177	7.8	72
214	Ultrasensitive electrochemical DNA biosensors based on the detection of a highly characteristic solid-state process. *Small*, **2009**, 5, 1414-7	11	71
213	Theoretical Evaluation of Possible 2D Boron Monolayer in N2 Electrochemical Conversion into Ammonia. *Journal of Physical Chemistry C*, **2018**, 122, 25268-25273	3.8	70
212	Resistance, capacitance, and electrode kinetic effects in Fourier-transformed large-amplitude sinusoidal voltammetry: emergence of powerful and intuitively obvious tools for recognition of patterns of behavior. *Analytical Chemistry*, **2004**, 76, 6214-28	7.8	69
211	A DNA biosensor based on the detection of doxorubicin-conjugated Ag nanoparticle labels using solid-state voltammetry. *Biosensors and Bioelectronics*, **2009**, 25, 282-7	11.8	68
210	Large-amplitude Fourier transformed high-harmonic alternating current cyclic voltammetry: kinetic discrimination of interfering Faradaic processes at glassy carbon and at boron-doped diamond electrodes. *Analytical Chemistry*, **2004**, 76, 3619-29	7.8	65
209	Electrooxidation of Ethanol and Methanol Using the Molecular Catalyst [{Ru4O4(OH)2(H2O)4}(ESiW10O36)2](10.). *Journal of the American Chemical Society*, **2016**, 138, 2617-28	16.4	61
208	Discrimination and evaluation of the effects of uncompensated resistance and slow electrode kinetics from the higher harmonic components of a Fourier transformed large-amplitude alternating current voltammogram. *Analytical Chemistry*, **2007**, 79, 2276-88	7.8	60
207	Proton diffusion at phospholipid assemblies. *Journal of the American Chemical Society*, **2002**, 124, 2379-83	16.4	59
206	Pt nanoparticle label-mediated deposition of Pt catalyst for ultrasensitive electrochemical immunosensors. *Biosensors and Bioelectronics*, **2010**, 26, 418-23	11.8	58
205	An integrated instrumental and theoretical approach to quantitative electrode kinetic studies based on large amplitude Fourier transformed a.c. voltammetry: A mini review. *Electrochemistry Communications*, **2015**, 57, 78-83	5.1	56
204	C?C Bond Formation via C?H Activation and C?N Bond Formation via Oxidative Amination Catalyzed by Palladium- Polyoxometalate Nanomaterials Using Dioxygen as the Terminal Oxidant. *Advanced Synthesis and Catalysis*, **2011**, 353, 2988-2998	5.6	55
203	Effect of surface pressure on the insulator to metal transition of a langmuir polyaniline monolayer. *Journal of the American Chemical Society*, **2003**, 125, 9312-3	16.4	55

202	A critical assessment of electrochemistry in a distillable room temperature ionic liquid, DIMCARB. *Green Chemistry*, **2006**, 8, 161-171	10	53
201	Microelectrochemical studies of charge transfer at the interface between two immiscible electrolyte solutions: electron transfer from decamethyl ferrocene to aqueous oxidants. *Journal of Electroanalytical Chemistry*, **2000**, 483, 95-107	4.1	52
200	Electrochemical Studies on the Modular Podand 1,3,5-Tris(3-((ferrocenylmethyl)amino)pyridiniumyl)-2,4,6-triethylbenzene Hexafluorophosphate in Conventional Solvents and Ionic Liquids. *Journal of Physical Chemistry B*, **2003**, 107, 5777-5786	3.4	51
199	Prospects for a widely applicable reference potential scale in ionic liquids based on ideal reversible reduction of the cobaltocenium cation. *Electrochemistry Communications*, **2008**, 10, 250-254	5.1	50
198	Voltammetric Reduction of alpha- and gamma-[S2W18O62]4- and alpha-, beta-, and gamma-[SiW12O40]4-: isomeric dependence of reversible potentials of polyoxometalate anions using data obtained by novel dissolution and conventional solution-phase processes. *Inorganic Chemistry*, **2004**, 43, 8263-71	5.1	50
197	Porous nitrogen□doped carbon derived from biomass for electrocatalytic reduction of CO2 to CO. *Electrochimica Acta*, **2017**, 245, 561-568	6.7	49
196	Polyoxometalate-Promoted Electrocatalytic CO Reduction at Nanostructured Silver in Dimethylformamide. *ACS Applied Materials & Interfaces*, **2018**, 10, 12690-12697	9.5	48
195	Simplifying the evaluation of graphene modified electrode performance using rotating disk electrode voltammetry. *Langmuir*, **2012**, 28, 5275-85	4	48
194	New Approach for Measuring Lateral Diffusion in Langmuir Monolayers by Scanning Electrochemical Microscopy (SECM): Theory and Application. *Journal of Physical Chemistry B*, **2001**, 105, 11120-11130	3.4	48
193	NiO Nanoparticles Anchored on Phosphorus-Doped □Fe O Nanoarrays: An Efficient Hole Extraction p-n Heterojunction Photoanode for Water Oxidation. *ChemSusChem*, **2018**, 11, 2156-2164	8.3	48
192	Potential Dependence of Electron-Transfer Rates at the Interface between Two Immiscible Electrolyte Solutions: Reduction of 7,7,8,8-Tetracyanoquinodimethane in 1,2-Dichloroethane by Aqueous Ferrocyanide Studied with Microelectrochemical Techniques. *Journal of Physical Chemistry B*, **2000**, 104, 2341-2347	3.4	47
191	Stannate derived bimetallic nanoparticles for electrocatalytic CO2 reduction. *Journal of Materials Chemistry A*, **2018**, 6, 7851-7858	13	46
190	Fourier Transformed Large Amplitude Alternating Current Voltammetry: Principles and Applications. *Review of Polarography*, **2015**, 61, 21-32	0.2	46
189	Direct Electrodeposition of Graphene-Gold Nanocomposite Films for Ultrasensitive Voltammetric Determination of Mercury(II). *Electroanalysis*, **2014**, 26, 121-128	3	46
188	Voltammetric determination of the reversible potentials for [{Ru4O4(OH)2(H2O)4}(□SiW10O36)2]10- over the pH range of 2-12: electrolyte dependence and implications for water oxidation catalysis. *Inorganic Chemistry*, **2013**, 52, 11986-96	5.1	46
187	Unlocking the Electrocatalytic Activity of Antimony for CO2 Reduction by Two-Dimensional Engineering of the Bulk Material. *Angewandte Chemie*, **2017**, 129, 14910-14914	3.6	45
186	The solid-state Ag/AgCl process as a highly sensitive detection mechanism for an electrochemical immunosensor. *Chemical Communications*, **2009**, 6231-3	5.8	45
185	Separation of electron-transfer and coupled chemical reaction components of biocatalytic processes using Fourier transform ac voltammetry. *Analytical Chemistry*, **2005**, 77, 3502-10	7.8	45

184	Electrochemical Reduction of Carbon Dioxide in a Monoethanolamine Capture Medium. *ChemSusChem*, **2017**, 10, 4109-4118	8.3	44
183	Higher harmonic large-amplitude Fourier transformed alternating current voltammetry: analytical attributes derived from studies of the oxidation of ferrocenemethanol and uric acid at a glassy carbon electrode. *Analytical Chemistry*, **2008**, 80, 4614-26	7.8	43
182	Direct Detection of Electron Transfer Reactions Underpinning the Tin-Catalyzed Electrochemical Reduction of CO2 using Fourier-Transformed ac Voltammetry. *ACS Catalysis*, **2017**, 7, 4846-4853	13.1	42
181	Mechanistic understanding of the electrocatalytic CO2 reduction reaction New developments based on advanced instrumental techniques. *Nano Today*, **2020**, 31, 100835	17.9	42
180	Two-Dimensional Boron Sheets as Metal-Free Catalysts for Hydrogen Evolution Reaction. *Journal of Physical Chemistry C*, **2018**, 122, 19051-19055	3.8	41
179	Architectural Design for Enhanced C Product Selectivity in Electrochemical CO Reduction Using Cu-Based Catalysts: A Review. *ACS Nano*, **2021**, 15, 7975-8000	16.7	41
178	Voltammetric ion-selective electrodes for the selective determination of cations and anions. *Analytical Chemistry*, **2010**, 82, 1624-33	7.8	40
177	Application of power spectra patterns in Fourier transform square wave voltammetry to evaluate electrode kinetics of surface-confined proteins. *Analytical Chemistry*, **2006**, 78, 2948-56	7.8	40
176	Facile electrochemical co-deposition of metal (Cu, Pd, Pt, Rh) nanoparticles on reduced graphene oxide for electrocatalytic reduction of nitrate/nitrite. *Electrochimica Acta*, **2018**, 269, 733-741	6.7	39
175	Electrocatalytic carbon dioxide reduction: from fundamental principles to catalyst design. *Materials Today Advances*, **2020**, 7, 100074	7.4	38
174	Synthesis, characterization and morphology of reduced graphene oxide metal TCNQ nanocomposites. *Journal of Materials Chemistry C*, **2014**, 2, 870-878	7.1	38
173	Stabilization of Low-Valent Iron(I) in a High-Valent Vanadium(V) Oxide Cluster. *Angewandte Chemie - International Edition*, **2017**, 56, 14749-14752	16.4	38
172	Measurement of the forward and back rate constants for electron transfer at the interface between two immiscible electrolyte solutions using scanning electrochemical microscopy (SECM): Theory and experiment. *Electrochemistry Communications*, **2001**, 3, 372-378	5.1	38
171	Applications of convolution voltammetry in electroanalytical chemistry. *Analytical Chemistry*, **2014**, 86, 2073-81	7.8	36
170	Novel kinetic and background current selectivity in the even harmonic components of fourier transformed square-wave voltammograms of surface-confined azurin. *Journal of Physical Chemistry B*, **2005**, 109, 8935-47	3.4	36
169	Mechanistic analysis of the electrocatalytic properties of dissolved alpha and beta isomers of [SiW12O40]4- and solid [Ru(bipy)3]2[alpha-SiW12O40] on the reduction of nitrite in acidic aqueous media. *Inorganic Chemistry*, **2006**, 45, 3732-40	5.1	36
168	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. *Physical Chemistry Chemical Physics*, **2014**, 16, 19035-45	3.6	35
167	Theoretical studies of large amplitude alternating current voltammetry for a reversible surface-confined electron transfer process coupled to a pseudo first-order electrocatalytic process. *Journal of Electroanalytical Chemistry*, **2007**, 600, 23-34	4.1	35

166	Advanced Composite 2D Energy Materials by Simultaneous Anodic and Cathodic Exfoliation. *Advanced Energy Materials*, **2018**, 8, 1702794	21.8	34
165	Rhodium-Catalyzed Hydroformylation of Alkenes Using in Situ High-Pressure IR and Polymer Matrix Techniques. *Organometallics*, **2003**, 22, 1612-1618	3.8	34
164	Mass-Transport and Heterogeneous Electron-Transfer Kinetics Associated with the Ferrocene/Ferrocenium Process in Ionic Liquids. *Journal of Physical Chemistry C*, **2016**, 120, 16516-16525	3.8	34
163	Impact of Adsorption on Scanning Electrochemical Microscopy Voltammetry and Implications for Nanogap Measurements. *Analytical Chemistry*, **2016**, 88, 3272-80	7.8	33
162	Electron transfer reactions at gold nanoparticles. *Chemical Communications*, **2001**, 1818-9	5.8	33
161	Electrocarboxylation of acetophenone in ionic liquids: the influence of proton availability on product distribution. *Green Chemistry*, **2014**, 16, 2242-2251	10	32
160	Selective laser sintering of TiO2 nanoparticle film on plastic conductive substrate for highly efficient flexible dye-sensitized solar cell application. *Journal of Materials Chemistry A*, **2014**, 2, 4566-4573	13	32
159	Detailed analysis of the electron-transfer properties of azurin adsorbed on graphite electrodes using DC and large-amplitude Fourier transformed AC voltammetry. *Analytical Chemistry*, **2007**, 79, 6515-26	7.8	32
158	Resolution of coupled electron transfer□n transfer processes at liquid/liquid interfaces by visualisation of interfacial concentration profiles. *Chemical Communications*, **1999**, 1501-1502	5.8	31
157	Electrochemical Reduction of CO2 at Metal Electrodes in a Distillable Ionic Liquid. *ChemSusChem*, **2016**, 9, 1271-8	8.3	31
156	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. *RSC Advances*, **2015**, 5, 3196-3199	3.7	30
155	Two cobalt(II) 5-aminoisophthalate complexes and their stable supramolecular microporous frameworks. *Inorganic Chemistry*, **2006**, 45, 6276-81	5.1	30
154	Comparison of voltammetric data obtained for the trans-[Mn(CN)(CO)2[P(OPh)3](Ph2PCH2PPh2)]0/+ process in BMIM.PF6 ionic liquid under microchemical and conventional conditions. *Analytical Chemistry*, **2003**, 75, 6938-48	7.8	30
153	Stepping towards Solar Water Splitting: Recent Progress in Bismuth Vanadate Photoanodes. *ChemElectroChem*, **2019**, 6, 3227-3243	4.3	29
152	Large amplitude Fourier transformed AC voltammetric investigation of the active state electrochemistry of a copper/aqueous base interface and implications for electrocatalysis. *Langmuir*, **2011**, 27, 10302-11	4	29
151	Microelectrochemical measurements of electron transfer rates at the interface between two immiscible electrolyte solutions: Potential dependence of the ferro/ferricyanide-7,7,8,8-tetracyanoquinodimethane (TCNQ)/TCNQ□ystem. *Physical Chemistry*	3.6	29
150	Electrode Reaction and Mass-Transport Mechanisms Associated with the Iodide/Triiodide Couple in the Ionic Liquid 1-Ethyl-3-methylimidazolium Bis(trifluoromethanesulfonyl)imide. *Journal of Physical Chemistry C*, **2014**, 118, 22439-22449	3.8	28
149	Detailed electrochemical studies of the tetraruthenium polyoxometalate water oxidation catalyst in acidic media: identification of an extended oxidation series using Fourier transformed alternating current voltammetry. *Inorganic Chemistry*, **2012**, 51, 11521-32	5.1	28

148	The role of dissolution in the voltammetry of microdroplets and microparticles adhered to electrode surfaces in contact with aqueous electrolytes or ionic liquids. *Journal of Electroanalytical Chemistry*, **2005**, 574, 299-309	4.1	28
147	Influences of the operative parameters and the nature of the substrate on the electrocarboxylation of benzophenones. *Journal of Electroanalytical Chemistry*, **2012**, 664, 105-110	4.1	27
146	Controllable Synthesis of Few-Layer Bismuth Subcarbonate by Electrochemical Exfoliation for Enhanced CO2 Reduction Performance. *Angewandte Chemie*, **2018**, 130, 13467-13471	3.6	26
145	Phosphomolybdate@poly(diallyldimethylammonium chloride)-reduced graphene oxide modified electrode for highly efficient electrocatalytic reduction of bromate. *Journal of Electroanalytical Chemistry*, **2014**, 727, 69-77	4.1	26
144	Applications of voltammetric ion selective electrodes to complex matrices. *Analytical Methods*, **2013**, 5, 3840	3.2	26
143	Modular molecules: site-selective metal substitution, photoreduction, and chirality in polyoxometalate hybrids. *Chemistry - A European Journal*, **2014**, 20, 14102-11	4.8	26
142	Scanning electrochemical microscopy (SECM) feedback approach for measuring lateral proton diffusion in langmuir monolayers: theory and application. *Physical Chemistry Chemical Physics*, **2002**, 4, 3814-3819	3.6	26
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140	Electrodeposition of lead on glassy carbon and mercury film electrodes from a distillable room temperature ionic liquid, DIMCARB. *Journal of Solid State Electrochemistry*, **2007**, 11, 1593-1603	2.6	25
139	Combined scanning electrochemical microscopy□langmuir trough technique for investigating phase transfer kinetics across liquid/liquid interfaces modified by a molecular monolayer. *Electrochemistry Communications*, **2003**, 5, 105-110	5.1	25
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137	Fourier Transformed Large Amplitude Square-Wave Voltammetry as an Alternative to Impedance Spectroscopy: Evaluation of Resistance, Capacitance and Electrode Kinetic Effects via an Heuristic Approach. *Electroanalysis*, **2005**, 17, 1450-1462	3	24
136	Synthesis and structure of a novel open-framework zincophosphate with intersecting three-dimensional helical channels. *Dalton Transactions RSC*, **2002**, 4527		24
135	Mass Transport Studies and Hydrogen Evolution at a Platinum Electrode Using Bis(trifluoromethanesulfonyl)imide as the Proton Source in Ionic Liquids and Conventional Solvents. *Journal of Physical Chemistry C*, **2014**, 118, 29663-29673	3.8	23
134	Investigation of mediated oxidation of ascorbic acid by ferrocenemethanol using large-amplitude Fourier transformed ac voltammetry under quasi-reversible electron-transfer conditions at an indium tin oxide electrode. *Analytical Chemistry*, **2008**, 80, 6515-25	7.8	23
133	Study of the reaction of Rh(acac)(CO)2 with alkenes in polyethylene films under high-pressure hydrogen and the Rh-catalysed hydrogenation of alkenes. *Journal of Organometallic Chemistry*, **2003**, 678, 128-133	2.3	23
132	Lindqvist Polyoxoniobate Ion-Assisted Electrodeposition of Cobalt and Nickel Water Oxidation Catalysts. *ACS Applied Materials & Interfaces*, **2015**, 7, 16632-44	9.5	22
131	Advantages available in the application of the semi-integral electroanalysis technique for the determination of diffusion coefficients in the highly viscous ionic liquid 1-methyl-3-octylimidazolium hexafluorophosphate. *Analytical Chemistry*, **2013**, 85, 2239-45	7.8	22

130	Phosphomolybdate-doped-poly(3,4-ethylenedioxythiophene) coated gold nanoparticles: synthesis, characterization and electrocatalytic reduction of bromate. *Analytica Chimica Acta*, **2013**, 803, 41-6	6.6	22
129	Bioinspired Electrocatalytic CO2 Reduction by Bovine Serum Albumin-Capped Silver Nanoclusters Mediated by [□SiW12O40](4-). *ChemSusChem*, **2016**, 9, 80-7	8.3	22
128	Phosphomolybdic Acid-Assisted Growth of Ultrathin Bismuth Nanosheets for Enhanced Electrocatalytic Reduction of CO to Formate. *ChemSusChem*, **2019**, 12, 1091-1100	8.3	22
127	Diminished Electron Transfer Kinetics for [Ru(NH3)6]3+/2+, [□SiW12O40]4−/5− and [□SiW12O40]5−/6− Processes at Boron-Doped Diamond Electrodes. *Journal of Physical Chemistry C*, **2015**, 119, 12464-12472	3.8	21
126	Electrochemical Proton Reduction and Equilibrium Acidity (pKa) in Aprotic Ionic Liquids: Protonated Amines and Sulfonamide Acids. *Journal of Physical Chemistry C*, **2015**, 119, 21828-21839	3.8	21
125	Electrochemistry of Iodide, Iodine, and Iodine Monochloride in Chloride Containing Nonhaloaluminate Ionic Liquids. *Analytical Chemistry*, **2016**, 88, 1915-21	7.8	21
124	Mediator enhanced water oxidation using Rb4[Ru(II)(bpy)3]5[{Ru(III)4O4(OH)2(H2O)4}(□SiW10O36)2] film modified electrodes. *Inorganic Chemistry*, **2014**, 53, 7561-70	5.1	21
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122	Kinetics of IrCl62- Ion Transfer across the Water/1,2-Dichloroethane Interface and the Effect of a Phospholipid Monolayer. *Langmuir*, **2002**, 18, 2313-2318	4	21
121	Effect of phospholipids on the kinetics of dioxygen transfer across a 1,2-dichloroethane/water interface. *Physical Chemistry Chemical Physics*, **2001**, 3, 5553-5558	3.6	21
120	Atomic nickel cluster decorated defect-rich copper for enhanced C2 product selectivity in electrocatalytic CO2 reduction. *Applied Catalysis B: Environmental*, **2021**, 291, 120030	21.8	21
119	Fourier transformed alternating current voltammetry in electromaterials research: Direct visualisation of important underlying electron transfer processes. *Current Opinion in Electrochemistry*, **2018**, 10, 72-81	7.2	20
118	AFM study of morphological changes associated with electrochemical solid□solid transformation of three-dimensional crystals of TCNQ to metal derivatives (metal = Cu, Co, Ni; TCNQ = tetracyanoquinodimethane). *Journal of Solid State Electrochemistry*, **2008**, 12, 739-746	2.6	20
117	Comparison of fast electron transfer kinetics at platinum, gold, glassy carbon and diamond electrodes using Fourier-transformed AC voltammetry and scanning electrochemical microscopy. *Physical Chemistry Chemical Physics*, **2017**, 19, 8726-8734	3.6	19
116	Cobalt(II) phosphonate coordination polymers: Synthesis, characterization and application as oxygen evolution electrocatalysts in aqueous media and water-saturated hydrophobic 1-butyl-3-methylimidazolium hexafluorophosphate ionic liquid. *Electrochimica Acta*, **2013**, 101, 201-208	6.7	19
115	Cobalt selenide nanoflake decorated reduced graphene oxide nanocomposite for efficient glucose electro-oxidation in alkaline medium. *Journal of Materials Chemistry A*, **2017**, 5, 19289-19296	13	19
114	Effect of Fatty Alcohol Monolayers on the Rate of Bromine Transfer across the Water/Air Interface: Assessment of Candidate Models Using Scanning Electrochemical Microscopy. *Langmuir*, **2002**, 18, 1218-1224	4	19
113	Microelectrochemical Measurements at Expanding Droplets: Effect of Surfactant Adsorption on Electron Transfer Kinetics at Liquid/Liquid Interfaces. *Langmuir*, **2001**, 17, 821-827	4	19

112	Large-Amplitude Fourier-Transformed AC Voltammetric Study of the Capacitive Electrochemical Behavior of the 1-Butyl-3-methylimidazolium Tetrafluoroborate Polycrystalline Gold Electrode Interface. *Journal of Physical Chemistry C*, **2017**, 121, 12136-12147	3.8	18
111	Bismuth Vanadate with Electrostatically Anchored 3D Carbon Nitride Nano-networks as Efficient Photoanodes for Water Oxidation. *ChemSusChem*, **2018**, 11, 2510-2516	8.3	18
110	Unexpected complexity in the electro-oxidation of iodide on gold in the ionic liquid 1-ethyl-3-methylimidazolium bis(trifluoromethanesulfonyl)imide. *Analytical Chemistry*, **2013**, 85, 11319-25	7.8	18
109	Ultrasensitive electrochemical immunosensor employing glucose oxidase catalyzed deposition of gold nanoparticles for signal amplification. *Biosensors and Bioelectronics*, **2011**, 27, 53-7	11.8	18
108	Scanning electrochemical microscopy (SECM) studies of oxygen transfer across phospholipid monolayers under surface pressure control: comparison of monolayers at air/water and oil/water interfaces. *Langmuir*, **2004**, 20, 701-7	4	18
107	Two-Dimensional Electrocatalysts for Efficient Reduction of Carbon Dioxide. *ChemSusChem*, **2020**, 13, 59-77	8.3	18
106	Electrochemical Reduction of CO2 with an Oxide-Derived Lead Nano-Coralline Electrode in Dimcarb. *ChemElectroChem*, **2017**, 4, 1402-1410	4.3	17
105	Use of Bayesian Inference for Parameter Recovery in DC and AC Voltammetry. *ChemElectroChem*, **2018**, 5, 917-935	4.3	17
104	Polystyrenesulfonate doped poly(Hydroxymethyl 3,4-Ethylenedioxythiophene) stabilized Au nanoparticle modified glassy carbon electrode as a reusable sensor for mercury(II) detection in chloride media. *Journal of Electroanalytical Chemistry*, **2013**, 704, 96-101	4.1	17
103	Synthesis of Metallic Nanoparticles Using Electrogenerated Reduced Forms of [SiW12O40]4 as Both Reductants and Stabilizing Agents. *Chemistry of Materials*, **2011**, 23, 4688-4693	9.6	17
102	A unique proton coupled electron transfer pathway for electrochemical reduction of acetophenone in the ionic liquid [BMIM][BF4] under a carbon dioxide atmosphere. *Green Chemistry*, **2011**, 13, 3461	10	17
101	Voltammetric studies of polyoxometalate microparticles in contact with the reactive distillable ionic liquid DIMCARB. *Electrochemistry Communications*, **2005**, 7, 1283-1290	5.1	17
100	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. *Physical Chemistry Chemical Physics*, **2015**, 17, 19247-54	3.6	16
99	Identification of a new substrate effect that enhances the electrocatalytic activity of dendritic tin in CO reduction. *Physical Chemistry Chemical Physics*, **2018**, 20, 5936-5941	3.6	16
98	Electrocatalytic CO2 Reduction to Formate on Cu Based Surface Alloys with Enhanced Selectivity. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 19453-19462	8.3	16
97	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. *Analytica Chimica Acta*, **2015**, 856, 27-34	6.6	16
96	Fourier-Transformed Large-Amplitude AC Voltammetric Study of Tetrathiafulvalene (TTF): Electrode Kinetics of the TTF0/TTF.+ and TTF.+/TTF2+ Processes. *ChemElectroChem*, **2014**, 1, 99-107	4.3	16
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