Jie Zhang

List of Publications by Year in descending order

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242 papers	10,588 citations	31949 53 h-index	46771 89 g-index
244 all docs	244 docs citations	244 times ranked	11007 citing authors

#	Article	IF	Citations
1	Hierarchical Mesoporous SnO₂ Nanosheets on Carbon Cloth: A Robust and Flexible Electrocatalyst for CO₂ Reduction with High Efficiency and Selectivity. Angewandte Chemie - International Edition, 2017, 56, 505-509.	7.2	526
2	Ionic liquids and their solid-state analogues as materials for energy generation and storage. Nature Reviews Materials, 2016, 1, .	23.3	511
3	Single-Boron Catalysts for Nitrogen Reduction Reaction. Journal of the American Chemical Society, 2019, 141, 2884-2888.	6.6	497
4	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.	8.2	261
5	Conversion of dinitrogen to ammonia on Ru atoms supported on boron sheets: a DFT study. Journal of Materials Chemistry A, 2019, 7, 4771-4776.	5.2	251
6	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.	15.6	230
7	Changing the Look of Voltammetry. Analytical Chemistry, 2005, 77, 186 A-195 A.	3.2	184
8	Architectural Design for Enhanced C₂ Product Selectivity in Electrochemical CO₂ Reduction Using Cu-Based Catalysts: A Review. ACS Nano, 2021, 15, 7975-8000.	7.3	183
9	Practical considerations associated with voltammetric studies in room temperature ionic liquids. Analyst, The, 2005, 130, 1132.	1.7	172
10	Unlocking the Electrocatalytic Activity of Antimony for CO₂ Reduction by Twoâ€Dimensional Engineering of the Bulk Material. Angewandte Chemie - International Edition, 2017, 56, 14718-14722.	7.2	164
11	Electrochemical maps and movies of the hydrogen evolution reaction on natural crystals of molybdenite (MoS₂): basal vs. edge plane activity. Chemical Science, 2017, 8, 6583-6593.	3.7	159
12	Polyethylenimine promoted electrocatalytic reduction of CO₂to CO in aqueous medium by graphene-supported amorphous molybdenum sulphide. Energy and Environmental Science, 2016, 9, 216-223.	15.6	156
13	Electrochemical reduction of CO₂on defect-rich Bi derived from Bi₂S₃with enhanced formate selectivity. Journal of Materials Chemistry A, 2018, 6, 4714-4720.	5.2	144
14	Controllable Synthesis of Fewâ€Layer Bismuth Subcarbonate by Electrochemical Exfoliation for Enhanced CO₂ Reduction Performance. Angewandte Chemie - International Edition, 2018, 57, 13283-13287.	7.2	141
15	Recent advances in the nanoengineering of electrocatalysts for CO₂reduction. Nanoscale, 2018, 10, 6235-6260.	2.8	139
16	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, 2694-2702.	3.2	127
17	Graphene-supported [{Ru4O4(OH)2(H2O)4}(Î³-SiW10O36)2]10â^' for highly efficient electrocatalytic water oxidation. Energy and Environmental Science, 2013, 6, 2654.	15.6	124
18	PdCu@Pd Nanocube with Pt-like Activity for Hydrogen Evolution Reaction. ACS Applied Materials & Interfaces, 2017, 9, 8151-8160.	4.0	114

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19	Utilization of nanoparticle labels for signal amplification in ultrasensitive electrochemical affinity biosensors: A review. Analytica Chimica Acta, 2013, 797, 1-12.	2.6	110
20	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.	1.5	102
21	Is the Imidazolium Cation a Unique Promoter for Electrocatalytic Reduction of Carbon Dioxide?. Journal of Physical Chemistry C, 2016, 120, 23989-24001.	1.5	100
22	Electrocatalytic carbon dioxide reduction: from fundamental principles to catalyst design. Materials Today Advances, 2020, 7, 100074.	2.5	95
23	Theoretical Evaluation of Possible 2D Boron Monolayer in N₂ Electrochemical Conversion into Ammonia. Journal of Physical Chemistry C, 2018, 122, 25268-25273.	1.5	91
24	Two Tetra-Cd^{II}-Substituted Vanadogermanate Frameworks. Journal of the American Chemical Society, 2014, 136, 5065-5071.	6.6	89
25	Voltammetric Studies on the Reduction of Polyoxometalate Anions in Ionic Liquids. Inorganic Chemistry, 2005, 44, 5123-5132.	1.9	83
26	Electrooxidation of Ethanol and Methanol Using the Molecular Catalyst [{Ru₄O₄(OH)₂(H₂O)₄}(Î³-SiW₁₀O₃₆)<sub> Journal of the American Chemical Society, 2016, 138, 2617-2628.	6.6	81
27	Ultrasensitive Electrochemical DNA Biosensors Based on the Detection of a Highly Characteristic Solidâ€State Process. Small, 2009, 5, 1414-1417.	5.2	80
28	Mechanistic understanding of the electrocatalytic CO2 reduction reaction â€“ New developments based on advanced instrumental techniques. Nano Today, 2020, 31, 100835.	6.2	80
29	Fourier Transform Large-Amplitude Alternating Current Cyclic Voltammetry of Surface-Bound Azurin. Analytical Chemistry, 2004, 76, 166-177.	3.2	78
30	A DNA biosensor based on the detection of doxorubicin-conjugated Ag nanoparticle labels using solid-state voltammetry. Biosensors and Bioelectronics, 2009, 25, 282-287.	5.3	77
31	Porous nitrogenâ€“doped carbon derived from biomass for electrocatalytic reduction of CO2 to CO. Electrochimica Acta, 2017, 245, 561-568.	2.6	76
32	Electrochemical Reduction of Carbon Dioxide in a Monoethanolamine Capture Medium. ChemSusChem, 2017, 10, 4109-4118.	3.6	75
33	Resistance, Capacitance, and Electrode Kinetic Effects in Fourier-Transformed Large-Amplitude Sinusoidal Voltammetry:â€‰ Emergence of Powerful and Intuitively Obvious Tools for Recognition of Patterns of Behavior. Analytical Chemistry, 2004, 76, 6214-6228.	3.2	73
34	NiO Nanoparticles Anchored on Phosphorusâ€Doped Î±â€Fe₂O₃ Nanoarrays: An Efficient Hole Extraction pâ€“n Heterojunction Photoanode for Water Oxidation. ChemSusChem, 2018, 11, 2156-2164.	3.6	69
35	Large-Amplitude Fourier Transformed High-Harmonic Alternating Current Cyclic Voltammetry:Â Kinetic Discrimination of Interfering Faradaic Processes at Glassy Carbon and at Boron-Doped Diamond Electrodes. Analytical Chemistry, 2004, 76, 3619-3629.	3.2	67
36	Proton Diffusion at Phospholipid Assemblies. Journal of the American Chemical Society, 2002, 124, 2379-2383.	6.6	66

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37	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.	2.3	66
38	Atomic nickel cluster decorated defect-rich copper for enhanced C2 product selectivity in electrocatalytic CO2 reduction. Applied Catalysis B: Environmental, 2021, 291, 120030.	10.8	66
39	Polyoxometalate-Promoted Electrocatalytic CO₂ Reduction at Nanostructured Silver in Dimethylformamide. ACS Applied Materials & Interfaces, 2018, 10, 12690-12697.	4.0	63
40	Two-Dimensional Boron Sheets as Metal-Free Catalysts for Hydrogen Evolution Reaction. Journal of Physical Chemistry C, 2018, 122, 19051-19055.	1.5	63
41	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, 2276-2288.	3.2	62
42	Pt nanoparticle label-mediated deposition of Pt catalyst for ultrasensitive electrochemical immunosensors. Biosensors and Bioelectronics, 2010, 26, 418-423.	5.3	62
43	Cï£¿C Bond Formation via Cï£¿H Activation and Cï£¿N Bond Formation via Oxidative Amination Catalyzed by Palladiumâ€•Polyoxometalate Nanomaterials Using Dioxygen as the Terminal Oxidant. Advanced Synthesis and Catalysis, 2011, 353, 2988-2998.	2.1	62
44	Stannate derived bimetallic nanoparticles for electrocatalytic CO₂ reduction. Journal of Materials Chemistry A, 2018, 6, 7851-7858.	5.2	61
45	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.	1.9	60
46	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.	5.5	60
47	A critical assessment of electrochemistry in a distillable room temperature ionic liquid, DIMCARB. Green Chemistry, 2006, 8, 161-171.	4.6	59
48	Unlocking the Electrocatalytic Activity of Antimony for CO₂ Reduction by Twoâ€Đimensional Engineering of the Bulk Material. Angewandte Chemie, 2017, 129, 14910-14914.	1.6	58
49	Effect of Surface Pressure on the Insulator to Metal Transition of a Langmuir Polyaniline Monolayer. Journal of the American Chemical Society, 2003, 125, 9312-9313.	6.6	57
50	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.	2.6	56
51	New Approach for Measuring Lateral Diffusion in Langmuir Monolayers by Scanning Electrochemical Microscopy (SECM):â€‰ Theory and Application. Journal of Physical Chemistry B, 2001, 105, 11120-11130.	1.2	55
52	Potential Dependence of Electron-Transfer Rates at the Interface between Two Immiscible Electrolyte Solutions:Â 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.	1.2	54
53	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.	1.2	54
54	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.	2.3	54

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55	Voltammetric Reduction ofÎ±- andÎ³*-[S2W18O62]4-and Î±-, Î²-, and Î³-[SiW12O40]4-:Â Isomeric Dependence of Reversible Potentials of Polyoxometalate Anions Using Data Obtained by Novel Dissolution and Conventional Solution-Phase Processes. Inorganic Chemistry, 2004, 43, 8263-8271.	1.9	53
56	Voltammetric Determination of the Reversible Potentials for [{Ru₄O₄(OH)₂(H₂O)₄}(Î³-SiW₁₀O₃₆)<sub over the pH Range of 2â€“12: Electrolyte Dependence and Implications for Water Oxidation Catalysis. Inorganic Chemistry, 2013, 52, 11986-11996.	1.9	53
57	Direct Electrodeposition of Grapheneâ€Gold Nanocomposite Films for Ultrasensitive Voltammetric Determination of Mercury(II). Electroanalysis, 2014, 26, 121-128.	1.5	53
58	Voltammetric Ion-Selective Electrodes for the Selective Determination of Cations and Anions. Analytical Chemistry, 2010, 82, 1624-1633.	3.2	52
59	Fourier Transformed Large Amplitude Alternating Current Voltammetry: Principles and Applications. Review of Polarography, 2015, 61, 21-32.	0.0	52
60	The solid-state Ag/AgCl process as a highly sensitive detection mechanism for an electrochemical immunosensor. Chemical Communications, 2009, , 6231.	2.2	50
61	Simplifying the Evaluation of Graphene Modified Electrode Performance Using Rotating Disk Electrode Voltammetry. Langmuir, 2012, 28, 5275-5285.	1.6	50
62	Separation of Electron-Transfer and Coupled Chemical Reaction Components of Biocatalytic Processes Using Fourier Transform ac Voltammetry. Analytical Chemistry, 2005, 77, 3502-3510.	3.2	48
63	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, 4614-4626.	3.2	47
64	Facile electrochemical co-deposition of a grapheneâ€“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, 19035-19045.	1.3	46
65	Synthesis, characterization and morphology of reduced graphene oxideâ€“metalâ€“TCNQ nanocomposites. Journal of Materials Chemistry C, 2014, 2, 870-878.	2.7	45
66	Stabilization of Lowâ€Valent Iron(I) in a Highâ€Valent Vanadium(V) Oxide Cluster. Angewandte Chemie - International Edition, 2017, 56, 14749-14752.	7.2	45
67	Electrocarboxylation of acetophenone in ionic liquids: the influence of proton availability on product distribution. Green Chemistry, 2014, 16, 2242-2251.	4.6	44
68	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.	1.5	44
69	Selective electrochemical hydrogenation of furfural to 2-methylfuran over a single atom Cu catalyst under mild pH conditions. Green Chemistry, 2021, 23, 3028-3038.	4.6	43
70	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.	2.3	42
71	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, 8935-8947.	1.2	42
72	Applications of Convolution Voltammetry in Electroanalytical Chemistry. Analytical Chemistry, 2014, 86, 2073-2081.	3.2	42

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73	Controllable Synthesis of Fewâ€Layer Bismuth Subcarbonate by Electrochemical Exfoliation for Enhanced CO₂ Reduction Performance. Angewandte Chemie, 2018, 130, 13467-13471.	1.6	42
74	Stepping towards Solar Water Splitting: Recent Progress in Bismuth Vanadate Photoanodes. ChemElectroChem, 2019, 6, 3227-3243.	1.7	42
75	Application of Power Spectra Patterns in Fourier Transform Square Wave Voltammetry To Evaluate Electrode Kinetics of Surface-Confined Proteins. Analytical Chemistry, 2006, 78, 2948-2956.	3.2	41
76	Advanced Composite 2D Energy Materials by Simultaneous Anodic and Cathodic Exfoliation. Advanced Energy Materials, 2018, 8, 1702794.	10.2	41
77	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.	5.2	40
78	Impact of Adsorption on Scanning Electrochemical Microscopy Voltammetry and Implications for Nanogap Measurements. Analytical Chemistry, 2016, 88, 3272-3280.	3.2	39
79	Rhodium-Catalyzed Hydroformylation of Alkenes Using in Situ High-Pressure IR and Polymer Matrix Techniques. Organometallics, 2003, 22, 1612-1618.	1.1	38
80	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.	1.9	38
81	Phosphomolybdic Acidâ€Assisted Growth of Ultrathin Bismuth Nanosheets for Enhanced Electrocatalytic Reduction of CO₂ to Formate. ChemSusChem, 2019, 12, 1091-1100.	3.6	38
82	Electron transfer reactions at gold nanoparticles. Chemical Communications, 2001, , 1818-1819.	2.2	37
83	Electrochemical Reduction of CO₂ at Metal Electrodes in a Distillable Ionic Liquid. ChemSusChem, 2016, 9, 1271-1278.	3.6	37
84	Mechanistic Analysis of the Electrocatalytic Properties of Dissolved Î± and Î² Isomers of [SiW12O40]4-and Solid [Ru(bipy)3]2[Î±-SiW12O40] on the Reduction of Nitrite in Acidic Aqueous Media. Inorganic Chemistry, 2006, 45, 3732-3740.	1.9	36
85	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, 6515-6526.	3.2	36
86	Lindqvist Polyoxoniobate Ion-Assisted Electrodeposition of Cobalt and Nickel Water Oxidation Catalysts. ACS Applied Materials & Interfaces, 2015, 7, 16632-16644.	4.0	35
87	Electroless deposition of iridium oxide nanoparticles promoted by condensation of [Ir(OH)₆]^{2â^'}on an anodized Au surface: application to electrocatalysis of the oxygen evolution reaction. RSC Advances, 2015, 5, 3196-3199.	1.7	35
88	Recent advances and future perspectives for automated parameterisation, Bayesian inference and machine learning in voltammetry. Chemical Communications, 2021, 57, 1855-1870.	2.2	35
89	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, 10302-10311.	1.6	34
90	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, 11521-11532.	1.9	33

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91	Phosphomolybdate-doped-poly(3,4-ethylenedioxythiophene) coated gold nanoparticles: Synthesis, characterization and electrocatalytic reduction of bromate. Analytica Chimica Acta, 2013, 803, 41-46.	2.6	33
92	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.	1.5	33
93	Electrochemical Hydrogenation of Furfural in Aqueous Acetic Acid Media with Enhanced 2â€Methylfuran Selectivity Using CuPd Bimetallic Catalysts. Angewandte Chemie - International Edition, 2022, 61, .	7.2	33
94	Comparison of Voltammetric Data Obtained for thetrans-[Mn(CN)(CO)2{P(OPh)3}(Ph2PCH2PPh2)]0/+Process in BMIMÂ·PF6Ionic Liquid under Microchemical and Conventional Conditions. Analytical Chemistry, 2003, 75, 6938-6948.	3.2	32
95	Two Cobalt(II) 5-Aminoisophthalate Complexes and Their Stable Supramolecular Microporous Frameworks. Inorganic Chemistry, 2006, 45, 6276-6281.	1.9	32
96	Influences of the operative parameters and the nature of the substrate on the electrocarboxylation of benzophenones. Journal of Electroanalytical Chemistry, 2012, 664, 105-110.	1.9	32
97	Electrochemistry of Iodide, Iodine, and Iodine Monochloride in Chloride Containing Nonhaloaluminate Ionic Liquids. Analytical Chemistry, 2016, 88, 1915-1921.	3.2	32
98	Automatically Identifying Electrode Reaction Mechanisms Using Deep Neural Networks. Analytical Chemistry, 2019, 91, 12220-12227.	3.2	32
99	Resolution of coupled electron transferâ€“ion transfer processes at liquid/liquid interfaces by visualisation of interfacial concentration profiles. Chemical Communications, 1999, , 1501-1502.	2.2	31
100	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.	1.9	31
101	Applications of voltammetric ion selective electrodes to complex matrices. Analytical Methods, 2013, 5, 3840.	1.3	31
102	Phosphomolybdate@poly(diallyldimethylammonium chloride)-reduced graphene oxide modified electrode for highly efficient electrocatalytic reduction of bromate. Journal of Electroanalytical Chemistry, 2014, 727, 69-77.	1.9	31
103	Twoâ€Dimensional Electrocatalysts for Efficient Reduction of Carbon Dioxide. ChemSusChem, 2020, 13, 59-77.	3.6	31
104	Polyaniline Langmuirâ€“Blodgett films: formation and properties. Physical Chemistry Chemical Physics, 2009, 11, 3490.	1.3	30
105	Modular Molecules: Siteâ€Selective Metal Substitution, Photoreduction, and Chirality in Polyoxometalate Hybrids. Chemistry - A European Journal, 2014, 20, 14102-14111.	1.7	30
106	Production of hydrogen peroxide in formulated beverages is associated with the presence of ascorbic acid combined with selected redox-active functional ingredients. Food Chemistry, 2021, 338, 127947.	4.2	30
107	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)/TCNQË™â€“ system. Physical Chemistry Chemical Physics, 2002, 4, 3820-3827.	1.3	29
108	Bioinspired Electrocatalytic CO₂ Reduction by Bovine Serum Albuminâ€Capped Silver Nanoclusters Mediated by [Î±â€SiW₁₂O₄₀]^{4â^'}. ChemSusChem, 2016, 9, 80-87.	3.6	29

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109	Electrocatalytic CO₂ Reduction to Formate on Cu Based Surface Alloys with Enhanced Selectivity. ACS Sustainable Chemistry and Engineering, 2019, 7, 19453-19462.	3.2	29
110	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.	1.3	28
111	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, 6515-6525.	3.2	28
112	Fourier transformed alternating current voltammetry in electromaterials research: Direct visualisation of important underlying electron transfer processes. Current Opinion in Electrochemistry, 2018, 10, 72-81.	2.5	28
113	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.	1.2	27
114	Electrode Kinetics Associated with Tetracyanoquinodimethane (TCNQ), TCNQ^{â€¢â€“}, and TCNQ^{2â€“} Redox Chemistry in Acetonitrile As Determined by Analysis of Higher Harmonic Components Derived from Fourier Transformed Large Amplitude ac Voltammetry. Journal of Physical Chemistry C, 2011, 115, 24153-24163.	1.5	27
115	Synthesis and structure of a novel open-framework zincophosphate with intersecting three-dimensional helical channels. Dalton Transactions RSC, 2002, , 4527.	2.3	26
116	Combined scanning electrochemical microscopyâ€“Langmuir trough technique for investigating phase transfer kinetics across liquid/liquid interfaces modified by a molecular monolayer. Electrochemistry Communications, 2003, 5, 105-110.	2.3	26
117	Mediator Enhanced Water Oxidation Using Rb₄[Ru^{II}(bpy)₃]₅[{Ru^{III}₄O₄(OH)₂< Film Modified Electrodes. Inorganic Chemistry, 2014, 53, 7561-7570.	2.6	26
118	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.	5.2	26
119	Use of Bayesian Inference for Parameter Recovery in DC and AC Voltammetry. ChemElectroChem, 2018, 5, 917-935.	1.7	26
120	Advanced Spatiotemporal Voltammetric Techniques for Kinetic Analysis and Active Site Determination in the Electrochemical Reduction of CO₂. Accounts of Chemical Research, 2022, 55, 241-251.	7.6	26
121	Kinetics of IrCl62- Ion Transfer across the Water/1,2-Dichloroethane Interface and the Effect of a Phospholipid Monolayer. Langmuir, 2002, 18, 2313-2318.	1.6	25
122	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.	4.6	25
123	Bismuth Vanadate with Electrostatically Anchored 3D Carbon Nitride Nanoâ€networks as Efficient Photoanodes for Water Oxidation. ChemSusChem, 2018, 11, 2510-2516.	3.6	25
124	Effect of Fatty Alcohol Monolayers on the Rate of Bromine Transfer across the Water/Air Interface:â€‰ Assessment of Candidate Models Using Scanning Electrochemical Microscopy. Langmuir, 2002, 18, 1218-1224.	1.6	24
125	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.	1.5	24
126	Concentration and electrode material dependence of the voltammetric response of iodide on platinum, glassy carbon and boron-doped diamond in the room temperature ionic liquid 1-ethyl-3-methylimidazolium bis(trifluoromethanesulfonyl)imide. Electrochimica Acta, 2013, 109, 554-561.	2.6	24

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127	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.	1.5	24
128	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.	1.3	24
129	Microelectrochemical Measurements at Expanding Droplets:â€‰ Effect of Surfactant Adsorption on Electron Transfer Kinetics at Liquid/Liquid Interfaces. Langmuir, 2001, 17, 821-827.	1.6	23
130	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.	0.8	23
131	Electrochemical Proton Reduction and Equilibrium Acidity (pK_a) in Aprotic Ionic Liquids: Protonated Amines and Sulfonamide Acids. Journal of Physical Chemistry C, 2015, 119, 21828-21839.	1.5	23
132	Effect of phospholipids on the kinetics of dioxygen transfer across a 1,2-dichloroethane/water interface. Physical Chemistry Chemical Physics, 2001, 3, 5553-5558.	1.3	22
133	Ultrasensitive electrochemical immunosensor employing glucose oxidase catalyzed deposition of gold nanoparticles for signal amplification. Biosensors and Bioelectronics, 2011, 27, 53-57.	5.3	22
134	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, 2239-2245.	3.2	22
135	Electrochemical Reduction of CO₂ with an Oxideâ€Derived Lead Nanoâ€Coralline Electrode in Dimcarb. ChemElectroChem, 2017, 4, 1402-1410.	1.7	22
136	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, 11319-11325.	3.2	21
137	Diminished Electron Transfer Kinetics for [Ru(NH₃)₆]^{3+/2+}, [Î±-SiW₁₂O₄₀]^{4â€“/5â€“}, and [Î±-SiW₁₂O₄₀]^{5â€“/6â€–} Processes at Boron-Doped Diamond Electrodes. Journal of Physical Chemistry C, 2015, 119, 12464-12472.	1.5	21
138	Dual-Frequency Alternating Current Designer Waveform for Reliable Voltammetric Determination of Electrode Kinetics Approaching the Reversible Limit. Analytical Chemistry, 2016, 88, 2367-2374.	3.2	21
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