Si-Xuan Guo

List of Publications by Year
in descending order

80 papers	3,102 citations	136740 32 h-index	168136 53 g-index
84 all docs	84 docs citations	84 times ranked	3536 citing authors

#	Article	IF	Citations
1	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
2	Changing the Look of Voltammetry. Analytical Chemistry, 2005, 77, 186 A-195 A.	3.2	184
3	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
4	PdCu@Pd Nanocube with Pt-like Activity for Hydrogen Evolution Reaction. ACS Applied Materials & Interfaces, 2017, 9, 8151-8160.	4.0	114
5	Capture of Periodate in a {W₁₈O₅₄} Cluster Cage Yielding a Catalytically Active Polyoxometalate [H₃W₁₈O₅₆(IO₆)]^{6â^'} Embedded with Highâ€Valent Iodine. Angewandte Chemie - International Edition, 2008, 47, 4384-4387.	7.2	107
6	Electrocatalytic carbon dioxide reduction: from fundamental principles to catalyst design. Materials Today Advances, 2020, 7, 100074.	2.5	95
7	Electrooxidation of Ethanol and Methanol Using the Molecular Catalyst [{Ru₄O₄(OH)₂(H₂O)₄}(Î³-SiW₁₀O₃₆)₂]^{10â^'}. Journal of the American Chemical Society, 2016, 138, 2617-2628.	15.6	85
8	Mechanistic understanding of the electrocatalytic CO2 reduction reaction â€“ New developments based on advanced instrumental techniques. Nano Today, 2020, 31, 100835.	6.2	80
9	Fourier Transform Large-Amplitude Alternating Current Cyclic Voltammetry of Surface-Bound Azurin. Analytical Chemistry, 2004, 76, 166-177.	3.2	78
10	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
11	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
12	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
13	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
14	Polyoxometalate-Promoted Electrocatalytic CO₂ Reduction at Nanostructured Silver in Dimethylformamide. ACS Applied Materials & Interfaces, 2018, 10, 12690-12697.	4.0	63
15	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
16	Observation of Ferromagnetic Exchange, Spin Crossover, Reductively Induced Oxidation, and Field-Induced Slow Magnetic Relaxation in Monomeric Cobalt Nitroxides. Inorganic Chemistry, 2013, 52, 7557-7572.	1.9	61
17	Voltammetric Determination of the Reversible Potentials for [{Ru₄O₄(OH)₂(H₂O)₄}(Î³-SiW₁₀O₃₆)₂]^{10â^'} over the pH Range of 2â€“12: Electrolyte Dependence and Implications for Water Oxidation Catalysis. Inorganic Chemistry, 2013, 52, 11986-11996.	1.9	53
18	Fourier Transformed Large Amplitude Alternating Current Voltammetry: Principles and Applications. Review of Polarography, 2015, 61, 21-32.	0.0	52

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19	Detailed voltammetric and EPR study of protonation reactions accompanying the one-electron reduction of Keggin-type polyoxometalates, [XVVM11O40]4â^' (X = P, As; M = Mo, W) in acetonitrile. Dalton Transactions, 2010, 39, 7364.	1.6	51
20	Simplifying the Evaluation of Graphene Modified Electrode Performance Using Rotating Disk Electrode Voltammetry. Langmuir, 2012, 28, 5275-5285.	1.6	50
21	Investigation of the Pronounced Medium Effects Observed in the Voltammetry of the Highly Charged Lacunary Anions [Î±-SiW11O39]8-and [Î±-PW11O39]7-. Inorganic Chemistry, 2006, 45, 8563-8574.	1.9	49
22	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
23	Synthesis, characterization and morphology of reduced graphene oxideâ€"metalâ€"TCNQ nanocomposites. Journal of Materials Chemistry C, 2014, 2, 870-878.	2.7	45
24	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
25	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
26	Systematic Approach to the Quantitative Voltammetric Analysis of the FeIII/FeIIComponent of the [Î±2-Fe(OH2)P2W17O61]7-/8-Reduction Process in Buffered and Unbuffered Aqueous Media. Journal of Physical Chemistry B, 2005, 109, 20641-20651.	1.2	42
27	Phosphomolybdic Acidâ€Assisted Growth of Ultrathin Bismuth Nanosheets for Enhanced Electrocatalytic Reduction of CO₂ to Formate. ChemSusChem, 2019, 12, 1091-1100.	3.6	38
28	Electrochemical Reduction of CO₂ at Metal Electrodes in a Distillable Ionic Liquid. ChemSusChem, 2016, 9, 1271-1278.	3.6	37
29	Differential pulse cathodic stripping voltammetric determination of manganese(II) and manganese(VII) at the 1-(2-pyridylazo)-2-naphthol-modified carbon paste electrode. Electroanalysis, 1997, 9, 45-51.	1.5	36
30	Lindqvist Polyoxoniobate Ion-Assisted Electrodeposition of Cobalt and Nickel Water Oxidation Catalysts. ACS Applied Materials & Interfaces, 2015, 7, 16632-16644.	4.0	35
31	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
32	Recent advances and future perspectives for automated parameterisation, Bayesian inference and machine learning in voltammetry. Chemical Communications, 2021, 57, 1855-1870.	2.2	35
33	Structurally characterised vanadium(v)-substituted Keggin-type heteropolysulfates [SVM11O40]3â^' (M) Tj ETQq1 1 0.784314 rgBT /O Transactions, 2014, 43, 5462.	1.6	34
34	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
35	Systematic differences in electrochemical reduction of the structurally characterized anti-cancer platinum(IV) complexes [Pt{((p-HC6F4)NCH2)2}-(pyridine)2Cl2], [Pt{((p-HC6F4)NCH2)2}(pyridine)2(OH)2], and [Pt{((p-HC6F4)NCH2)2}(pyridine)2(OH)Cl]. Journal of Inorganic Biochemistry, 2012, 115, 226-239.	1.5	32
36	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

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37	Twoâ€Dimensional Electrocatalysts for Efficient Reduction of Carbon Dioxide. ChemSusChem, 2020, 13, 59-77.	3.6	31
38	Voltammetric and Spectroscopic Studies of Î±- and Î²-[PW₁₂O₄₀]^{3â€“} Polyoxometalates in Neutral and Acidic Media: Structural Characterization as Their [(n-Bu₄N)₃][PW₁₂O₄₀] Salts. Inorganic Chemistry, 2017, 56, 3990-4001.	1.9	30
39	Synthesis, Characterization, and Electrochemical Relationships of Dinuclear Complexes of Platinum(II) and Platinum(III) Containing Ortho-Metalated Tertiary Arsine Ligands. Inorganic Chemistry, 2004, 43, 7752-7763.	1.9	29
40	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
41	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
42	Cathodic stripping voltammetric determination of ultratrace gold(III) at a bulk modified epoxyâ€“graphite tube composite electrode in flow systems. Analyst, The, 1999, 124, 353-360.	1.7	28
43	A Systematic approach to the simulation of the voltammetric reduction of [Î±-SiW12O40]4â^’ in buffered aqueous electrolyte media and acetonitrile. Journal of Electroanalytical Chemistry, 2006, 591, 7-18.	1.9	28
44	Mediator Enhanced Water Oxidation Using Rb₄[Ru^{II}(bpy)₃]₅[{Ru^{III}₄O₄(OH)₂(s Film Modified Electrodes. Inorganic Chemistry, 2014, 53, 7561-7570.	1.9	26
45	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
46	Highly Selective and Sensitive Determination of Silver(I) at a Poly(8-mercaptoquinoline) Film Modified Glassy Carbon Electrode. Electroanalysis, 1999, 11, 891-898.	1.5	25
47	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
48	Effect of heterogeneity on the dc and ac voltammetry of the [Fe(CN)6]3â^’/4â^’ solution-phase process at a highly ordered pyrolytic graphite electrode. Journal of Electroanalytical Chemistry, 2008, 615, 1-11.	1.9	23
49	Voltammetric behavior of 1- and 4-[S₂V^VW₁₇O₆₂]^{5â^’} in acidified acetonitrile. Dalton Transactions, 2015, 44, 11660-11668.	1.6	22
50	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.	2.6	20
51	Ferrocene-appended ligands for use in spin crossover-redox â€œhybridâ€•complexes of iron(<scp>ii</scp>) and cobalt(<scp>ii</scp>). Dalton Transactions, 2014, 43, 15212-15220.	1.6	20
52	Rapidly Renewable and Reproducible Mercury Film Coated Carbon Paste Electrode for Anodic Stripping Voltammetry. Electroanalysis, 2002, 14, 813.	1.5	19
53	Synthesis, X-ray structure and electrochemical oxidation of palladium(ii) complexes of ferrocenyldiphenylphosphine. Dalton Transactions, 2010, 39, 9079.	1.6	19
54	Impact of sp² Carbon Edge Effects on the Electron-Transfer Kinetics of the Ferrocene/Ferricenium Process at a Boron-Doped Diamond Electrode in an Ionic Liquid. Journal of Physical Chemistry C, 2019, 123, 17397-17406.	1.5	19

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55	Electrocatalytic oxidation of H2O2 at an oxycobalt film modified glassy carbon electrode for fermentation monitoring. Analytica Chimica Acta, 1997, 351, 133-142.	2.6	18
56	Rapidly renewable and reproducible electropolymerized surface at a monomer modified carbon paste electrode. Journal of Electroanalytical Chemistry, 1999, 465, 102-113.	1.9	17
57	Electrode Material Dependence of the Electron Transfer Kinetics Associated with the [SVW11O40]3â^'/4â^' (V/IV) and [SVW11O40]4â^'/5â^' (WVI/V) Processes in Dimethylformamide. Electrochimica Acta, 2016, 201, 45-56.	2.6	15
58	Electrohydrogenation of Carbon Dioxide using a Ternary Pd/Cu₂Oâ€“Cu Catalyst. ChemSusChem, 2019, 12, 4471-4479.	3.6	15
59	Mixed-Metal Hybrid Polyoxometalates with Amino Acid Ligands: Electronic Versatility and Solution Properties. Inorganic Chemistry, 2016, 55, 12329-12347.	1.9	14
60	Impact of the Lithium Cation on the Voltammetry and Spectroscopy of [XVM₁₁O₄₀]^{nâ^'} (X = P, As (n = 4), S (n = 3); M =) Tj ET Q q 0 0 0 rg BT /Over	1.9	14
61	Microelectrochemical Techniques for Probing Kinetics at Liquid/Liquid Interfaces. Progress in Reaction Kinetics and Mechanism, 2004, 29, 43-166.	1.1	13
62	Systematic evaluation of electrode kinetics and impact of surface heterogeneity for surface-confined proteins using analysis of harmonic components available in sinusoidal large-amplitude Fourier transformed ac voltammetry. Analytica Chimica Acta, 2009, 652, 205-214.	2.6	13
63	Comparison of chemical interactions with Li+ and catalytic reactivity of electrochemically generated [FeICl(L)]2â^' and [CoI(L)]â^' complexes (L = salen or salophen). Dalton Transactions, 2013, 42, 11146.	1.6	12
64	Effect of the N-based ligands in copper complexes for depolymerisation of lignin. New Journal of Chemistry, 2016, 40, 3511-3519.	1.4	12
65	Electrochemically Informed Synthesis and Characterization of Salts of the [Pt2(Î¼-Î²As,Î²C-C6H3-5-Me-2-AsPh2)4]+ Lantern Complex Containing a Ptâ^'Pt Bond of Order 1/2. Inorganic Chemistry, 2005, 44, 2472-2482.	1.9	11
66	A Redox Switchable Dihydrobenzo[b]pyrazine Pushâ€Pull System. Asian Journal of Organic Chemistry, 2014, 3, 619-623.	1.3	11
67	Electrochemical and Chemical Oxidation of [Pt₂(Î¼-pyrophosphite)₄]^{4â^'} Revisited: Characterization of a Nitrosyl Derivative, [Pt₂(Î¼-pyrophosphite)₄(NO)]^{3â^'}. Inorganic Chemistry, 2009, 48, 2593-2604.	1.9	10
68	A spectroscopic investigation into the binding of novel platinum(IV) and platium(II) anticancer drugs with DNA. Vibrational Spectroscopy, 2017, 92, 82-95.	1.2	10
69	Synthesis and redox properties of triarylmethane dyecation salts of anions [M₆O₁₉]²^{â^'}(M = Mo, W). Dalton Transactions, 2011, 40, 356-366.	1.6	9
70	Modelling limitations encountered in the thermodynamic and electrode kinetic parameterization of the Î±-[S2W18O62]4â^'/5â^'/6â^' processes at glassy carbon and metal electrodes. Journal of Electroanalytical Chemistry, 2020, 872, 113786.	1.9	8
71	Thermodynamics, Electrode Kinetics, and Mechanistic Nuances Associated with the Voltammetric Reduction of Dissolved [n-Bu4N]4[PW11O39{Sn(C6H4)Câ‰¡C(C6H4)(N3C4H10)}] and a Surface-Confined Diazonium Derivative. ACS Applied Energy Materials, 2020, 3, 3991-4006.	2.5	8
72	Determination of ytterbium using electrothermal atomic absorption spectrometry with europium as chemical modifier. Analyst, The, 1995, 120, 1661.	1.7	7

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73	Title is missing!. Environmental Monitoring and Assessment, 1997, 44, 471-480.	1.3	7
74	Manganese(II) Oxazolidine Nitroxide Chelates: Structure, Magnetism, and Redox Properties. Australian Journal of Chemistry, 2014, 67, 1618.	0.5	7
75	Cyclopalladated complexes containing 2-C₆R₄PPh₂ ligands (R = H,) Tj ETQq1 1 0.784314 rgBT /O palladium(<scp>i</scp>). Dalton Transactions, 2015, 44, 3367-3377.	1.6	7
76	Unprecedented Formation of a Binuclear Au(II)â€“Au(II) Complex through Redox State Cycling: Electrochemical Interconversion of Au(I)â€“Au(I), Au(II)â€“Au(II), and Au(I)â€“Au(III) in Binuclear Complexes Containing the Carbanionic Ligand C6F4PPh2. Inorganic Chemistry, 2019, 58, 13999-14004.	1.9	7
77	Copper(II) Diethyldithiocarbamate Modified Carbon Paste Electrode for Highly Selective Accumulation of Cysteine. Analytical Letters, 1999, 32, 689-700.	1.0	5
78	Size Controllable Metal Nanoparticles Anchored on Nitrogen Doped Carbon for Electrocatalytic Energy Conversion. ChemElectroChem, 2019, 6, 1508-1513.	1.7	4
79	Changing the Action of Iron from Stoichiometric to Electrocatalytic in the Hydrogenation of Ketones in Aqueous Acidic Media. ChemSusChem, 2015, 8, 3712-3717.	3.6	2
80	Modeling the Influence of Low Concentrations of Water on the Thermodynamics, Electron Transfer Kinetics, and Diffusivity of the [Ru(CN)6]4â€“/3â€“ Process in Propylene Carbonate. Journal of Physical Chemistry C, 2020, 124, 13726-13738.	1.5	1