HÃ©ctor AbruÃ±a

List of Publications by Year
in descending order

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269 papers	27,361 citations	6613 79 h-index	6131 159 g-index
279 all docs	279 docs citations	279 times ranked	26308 citing authors

#	Article	IF	Citations
1	High-rate electrochemical energy storage through Li+ intercalation pseudocapacitance. Nature Materials, 2013, 12, 518-522.	27.5	4,021
2	Structurally ordered intermetallic platinumâ€“cobalt coreâ€“shell nanoparticles with enhanced activity and stability as oxygen reduction electrocatalysts. Nature Materials, 2013, 12, 81-87.	27.5	1,768
3	Î²-Ketoenamine-Linked Covalent Organic Frameworks Capable of Pseudocapacitive Energy Storage. Journal of the American Chemical Society, 2013, 135, 16821-16824.	13.7	949
4	Underpotential Deposition at Single Crystal Surfaces of Au, Pt, Ag and Other Materials. Chemical Reviews, 2001, 101, 1897-1930.	47.7	825
5	Yolkâ€“Shell Structure of Polyaniline-Coated Sulfur for Lithiumâ€“Sulfur Batteries. Journal of the American Chemical Society, 2013, 135, 16736-16743.	13.7	734
6	Effects of Liquid Electrolytes on the Chargeâ€“Discharge Performance of Rechargeable Lithium/Sulfur Batteries: Electrochemical and in-Situ X-ray Absorption Spectroscopic Studies. Journal of Physical Chemistry C, 2011, 115, 25132-25137.	3.1	515
7	Electrocatalytic Activity of Ordered Intermetallic Phases for Fuel Cell Applications. Journal of the American Chemical Society, 2004, 126, 4043-4049.	13.7	485
8	Tunable High Performance Cross-Linked Alkaline Anion Exchange Membranes for Fuel Cell Applications. Journal of the American Chemical Society, 2010, 132, 3400-3404.	13.7	440
9	Rectifying interfaces using two-layer films of electrochemically polymerized vinylpyridine and vinylbipyridine complexes of ruthenium and iron on electrodes. Journal of the American Chemical Society, 1981, 103, 1-5.	13.7	427
10	Phosphonium-Functionalized Polyethylene: A New Class of Base-Stable Alkaline Anion Exchange Membranes. Journal of the American Chemical Society, 2012, 134, 18161-18164.	13.7	425
11	Superior Charge Storage and Power Density of a Conducting Polymer-Modified Covalent Organic Framework. ACS Central Science, 2016, 2, 667-673.	11.3	349
12	Electroluminescent devices from ionic transition metal complexes. Journal of Materials Chemistry, 2007, 17, 2976-2988.	6.7	338
13	Rapid and Efficient Redox Processes within 2D Covalent Organic Framework Thin Films. ACS Nano, 2015, 9, 3178-3183.	14.6	318
14	Pt-Decorated PdCo@Pd/C Coreâ^'Shell Nanoparticles with Enhanced Stability and Electrocatalytic Activity for the Oxygen Reduction Reaction. Journal of the American Chemical Society, 2010, 132, 17664-17666.	13.7	300
15	Tuning Oxygen Reduction Reaction Activity via Controllable Dealloying: A Model Study of Ordered Cu₃Pt/C Intermetallic Nanocatalysts. Nano Letters, 2012, 12, 5230-5238.	9.1	291
16	Template-Free Synthesis of Hollow-Structured Co₃O₄ Nanoparticles as High-Performance Anodes for Lithium-Ion Batteries. ACS Nano, 2015, 9, 1775-1781.	14.6	275
17	Tailoring Pore Size of Nitrogenâ€Doped Hollow Carbon Nanospheres for Confining Sulfur in Lithiumâ€“Sulfur Batteries. Advanced Energy Materials, 2015, 5, 1401752.	19.5	273
18	Micromethod for the Investigation of the Interactions between DNA and Redox-Active Molecules. Analytical Chemistry, 1998, 70, 3162-3169.	6.5	263

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19	Phenazine-Based Covalent Organic Framework Cathode Materials with High Energy and Power Densities. Journal of the American Chemical Society, 2020, 142, 16-20.	13.7	256
20	Understanding Conversion-Type Electrodes for Lithium Rechargeable Batteries. Accounts of Chemical Research, 2018, 51, 273-281.	15.6	249
21	Nanoscale Imaging of Lithium Ion Distribution During In Situ Operation of Battery Electrode and Electrolyte. Nano Letters, 2014, 14, 1453-1459.	9.1	238
22	Electrochemical determination of activation energies for methanol oxidation on polycrystalline platinum in acidic and alkaline electrolytes. Physical Chemistry Chemical Physics, 2007, 9, 49-77.	2.8	226
23	A Ring-Opening Metathesis Polymerization Route to Alkaline Anion Exchange Membranes: Development of Hydroxide-Conducting Thin Films from an Ammonium-Functionalized Monomer. Journal of the American Chemical Society, 2009, 131, 12888-12889.	13.7	220
24	Pt Skin on AuCu Intermetallic Substrate: A Strategy to Maximize Pt Utilization for Fuel Cells. Journal of the American Chemical Society, 2014, 136, 9643-9649.	13.7	220
25	Synergistic Mn-Co catalyst outperforms Pt on high-rate oxygen reduction for alkaline polymer electrolyte fuel cells. Nature Communications, 2019, 10, 1506.	12.8	212
26	Mechanism of Gold-Assisted Exfoliation of Centimeter-Sized Transition-Metal Dichalcogenide Monolayers. ACS Nano, 2018, 12, 10463-10472.	14.6	203
27	Redox-Active Ferrocenyl Dendrimers:â€‰ Thermodynamics and Kinetics of Adsorption, In-Situ Electrochemical Quartz Crystal Microbalance Study of the Redox Process and Tapping Mode AFM Imaging. Journal of the American Chemical Society, 1997, 119, 10763-10773.	13.7	201
28	Synthesis of Structurally Ordered Pt₃Ti and Pt₃V Nanoparticles as Methanol Oxidation Catalysts. Journal of the American Chemical Society, 2014, 136, 10206-10209.	13.7	197
29	Electrocatalysis in Alkaline Media and Alkaline Membrane-Based Energy Technologies. Chemical Reviews, 2022, 122, 6117-6321.	47.7	195
30	Batteries and electrochemical capacitors. Physics Today, 2008, 61, 43-47.	0.3	187
31	Amylopectin Wrapped Graphene Oxide/Sulfur for Improved Cyclability of Lithiumâ€“Sulfur Battery. ACS Nano, 2013, 7, 8801-8808.	14.6	181
32	Effects of Dendrimer Generation on Site Isolation of Core Moieties:Â Electrochemical and Fluorescence Quenching Studies with Metalloporphyrin Core Dendrimers. Chemistry of Materials, 1998, 10, 30-38.	6.7	180
33	Metalâ€“Organic-Framework-Derived Coâ€“Fe Bimetallic Oxygen Reduction Electrocatalysts for Alkaline Fuel Cells. Journal of the American Chemical Society, 2019, 141, 10744-10750.	13.7	176
34	Electrocatalytic Oxidation of Formic Acid at an Ordered Intermetallic PtBi Surface. ChemPhysChem, 2003, 4, 193-199.	2.1	174
35	Synthesis, Characterization, and Electrocatalytic Activity of PtBi and PtPb Nanoparticles Prepared by Borohydride Reduction in Methanol. Chemistry of Materials, 2006, 18, 3365-3372.	6.7	174
36	Pt-Rich_{core}/Sn-Rich_{subsurface}/Pt_{skin} Nanocubes As Highly Active and Stable Electrocatalysts for the Ethanol Oxidation Reaction. Journal of the American Chemical Society, 2018, 140, 3791-3797.	13.7	166

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37	Facile Synthesis of Carbon-Supported Pdâ€“Co Coreâ€“Shell Nanoparticles as Oxygen Reduction Electrocatalysts and Their Enhanced Activity and Stability with Monolayer Pt Decoration. Chemistry of Materials, 2012, 24, 2274-2281.	6.7	163
38	Three-Dimensional Tracking and Visualization of Hundreds of Ptâˆ’Co Fuel Cell Nanocatalysts During Electrochemical Aging. Nano Letters, 2012, 12, 4417-4423.	9.1	162
39	Electrocatalytic Performance of Fuel Oxidation by Pt₃Ti Nanoparticles. Journal of the American Chemical Society, 2008, 130, 5452-5458.	13.7	157
40	Cobalt-Based Nitride-Core Oxide-Shell Oxygen Reduction Electrocatalysts. Journal of the American Chemical Society, 2019, 141, 19241-19245.	13.7	154
41	Water Oxidation Catalysis by Co(II) Impurities in Co(III)₄O₄ Cubanes. Journal of the American Chemical Society, 2014, 136, 17681-17688.	13.7	152
42	Determination of Organophosphorus and Carbamate Pesticides Using a Piezoelectric Biosensor. Analytical Chemistry, 1998, 70, 2848-2855.	6.5	151
43	Fe/N/C Nanotubes with Atomic Fe Sites: A Highly Active Cathode Catalyst for Alkaline Polymer Electrolyte Fuel Cells. ACS Catalysis, 2017, 7, 6485-6492.	11.2	141
44	In Situ Electron Energy-Loss Spectroscopy in Liquids. Microscopy and Microanalysis, 2013, 19, 1027-1035.	0.4	140
45	In situ synthesis of lithium sulfideâ€“carbon composites as cathode materials for rechargeable lithium batteries. Journal of Materials Chemistry A, 2013, 1, 1433-1440.	10.3	138
46	Synthesis and Characterization of Redox-Active Metal Complexes Sequentially Self-Assembled onto Gold Electrodes via a New Thiolâ€Terpyridine Ligand. Langmuir, 1996, 12, 4455-4462.	3.5	136
47	Morphology and Activity Tuning of Cu₃Pt/C Ordered Intermetallic Nanoparticles by Selective Electrochemical Dealloying. Nano Letters, 2015, 15, 1343-1348.	9.1	131
48	High-Loading Intermetallic Pt₃Co/C Coreâ€“Shell Nanoparticles as Enhanced Activity Electrocatalysts toward the Oxygen Reduction Reaction (ORR). Chemistry of Materials, 2018, 30, 1532-1539.	6.7	131
49	Operando Methods in Electrocatalysis. ACS Catalysis, 2021, 11, 1136-1178.	11.2	131
50	Highly Stable and CO-Tolerant Pt/Ti_{0.7}W_{0.3}O₂ Electrocatalyst for Proton-Exchange Membrane Fuel Cells. Journal of the American Chemical Society, 2010, 132, 10218-10220.	13.7	129
51	Precise Adjustment of Nanometric-Scale Diffusion Layers within a Redox Dendrimer Molecule by Ultrafast Cyclic Voltammetry: An Electrochemical Nanometric Microtome. Chemistry - A European Journal, 2001, 7, 2206-2226.	3.3	127
52	Solvent Processable Tetraalkylammonium-Functionalized Polyethylene for Use as an Alkaline Anion Exchange Membrane. Macromolecules, 2010, 43, 7147-7150.	4.8	127
53	Block copolymer derived 3-D interpenetrating multifunctional gyroidal nanohybrids for electrical energy storage. Energy and Environmental Science, 2018, 11, 1261-1270.	30.8	124
54	Mechanistic insights into operational lithiumâ€“sulfur batteries by in situ X-ray diffraction and absorption spectroscopy. RSC Advances, 2014, 4, 18347.	3.6	122

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55	Electrodeposition of Redox-Active Films of Dihydroxybenzaldehydes and Related Analogs and Their Electrocatalytic Activity toward NADH Oxidation. Analytical Chemistry, 1996, 68, 3135-3142.	6.5	121
56	In Situ X-ray Absorption Spectroscopy of a Synergistic Coâ€“Mn Oxide Catalyst for the Oxygen Reduction Reaction. Journal of the American Chemical Society, 2019, 141, 1463-1466.	13.7	121
57	Mechanistic Insight into the Photocontrolled Cationic Polymerization of Vinyl Ethers. Journal of the American Chemical Society, 2017, 139, 15530-15538.	13.7	120
58	In operando X-ray studies of the conversion reaction in Mn₃O₄lithium battery anodes. Journal of Materials Chemistry A, 2013, 1, 2094-2103.	10.3	118
59	IrPdRu/C as H₂ Oxidation Catalysts for Alkaline Fuel Cells. Journal of the American Chemical Society, 2017, 139, 6807-6810.	13.7	117
60	Pt-Decorated Composition-Tunable Pdâ€“Fe@Pd/C Coreâ€“Shell Nanoparticles with Enhanced Electrocatalytic Activity toward the Oxygen Reduction Reaction. Journal of the American Chemical Society, 2018, 140, 7248-7255.	13.7	116
61	Intermetallic PtPb Nanoparticles Prepared by Sodium Naphthalide Reduction of Metal-Organic Precursors:â€‰ Electrocatalytic Oxidation of Formic Acid. Chemistry of Materials, 2006, 18, 5591-5596.	6.7	111
62	Synthesis, Characterization, and Electrocatalytic Activity of PtBi Nanoparticles Prepared by the Polyol Process. Chemistry of Materials, 2005, 17, 5871-5876.	6.7	109
63	Multifunctional Electrocatalysts: Ruâ€“M (M = Co, Ni, Fe) for Alkaline Fuel Cells and Electrolyzers. ACS Catalysis, 2020, 10, 4608-4616.	11.2	102
64	Key Parameters Governing the Energy Density of Rechargeable Li/S Batteries. Journal of Physical Chemistry Letters, 2014, 5, 882-885.	4.6	101
65	Revealing the atomic ordering of binary intermetallics using in situ heating techniques at multilength scales. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 1974-1983.	7.1	98
66	Direct visualization of sulfur cathodes: new insights into Liâ€“S batteries via operando X-ray based methods. Energy and Environmental Science, 2018, 11, 202-210.	30.8	96
67	Copper-Induced Formation of Structurally Ordered Ptâ€“Feâ€“Cu Ternary Intermetallic Electrocatalysts with Tunable Phase Structure and Improved Stability. Chemistry of Materials, 2018, 30, 5987-5995.	6.7	96
68	Regulating Key Variables and Visualizing Lithium Dendrite Growth: An Operando X-ray Study. Journal of the American Chemical Society, 2019, 141, 8441-8449.	13.7	96
69	Nonprecious transition metal nitrides as efficient oxygen reduction electrocatalysts for alkaline fuel cells. Science Advances, 2022, 8, eabj1584.	10.3	94
70	A rechargeable Naâ€“CO₂/O₂battery enabled by stable nanoparticle hybrid electrolytes. Journal of Materials Chemistry A, 2014, 2, 17723-17729.	10.3	92
71	Interface-Enhanced Catalytic Selectivity on the C₂ Products of CO₂ Electroreduction. ACS Catalysis, 2021, 11, 2473-2482.	11.2	92
72	Synthesis of Intermetallic PtZn Nanoparticles by Reaction of Pt Nanoparticles with Zn Vapor and Their Application as Fuel Cell Catalysts. Chemistry of Materials, 2009, 21, 2661-2667.	6.7	91

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73	Theoretical Studies of Carbonyl-Based Organic Molecules for Energy Storage Applications: The Heteroatom and Substituent Effect. Journal of Physical Chemistry C, 2014, 118, 6046-6051.	3.1	91
74	Synthesis, Characterization, Electrochemistry, and EQCM Studies of Polyamidoamine Dendrimers Surface-Functionalized with Polypyridyl Metal Complexes. Langmuir, 1999, 15, 872-884.	3.5	90
75	A Strategy for Increasing the Efficiency of the Oxygen Reduction Reaction in Mn-Doped Cobalt Ferrites. Journal of the American Chemical Society, 2019, 141, 4412-4421.	13.7	90
76	Ultrafast Voltammetry of Adsorbed Redox Active Dendrimers with Nanometric Resolution: An Electrochemical Microtome. ChemPhysChem, 2001, 2, 130-134.	2.1	87
77	Enhancement of the Oxygen Reduction Reaction Activity of Pt by Tuning Its d-Band Center via Transition Metal Oxide Support Interactions. ACS Catalysis, 2021, 11, 9317-9332.	11.2	87
78	Cationâ€Đependent Stabilization of Electrogenerated Naphthalene Diimide Dianions in Porous Polymer Thin Films and Their Application to Electrical Energy Storage. Angewandte Chemie - International Edition, 2015, 54, 13225-13229.	13.8	86
79	Identical Location Transmission Electron Microscopy Imaging of Site-Selective Pt Nanocatalysts: Electrochemical Activation and Surface Disordering. Journal of the American Chemical Society, 2015, 137, 14992-14998.	13.7	85
80	Golden Palladium Zinc Ordered Intermetallics as Oxygen Reduction Electrocatalysts. ACS Nano, 2019, 13, 5968-5974.	14.6	83
81	Synergistic Bimetallic Metallic Organic Framework-Derived Ptâ€“Co Oxygen Reduction Electrocatalysts. ACS Nano, 2020, 14, 13069-13080.	14.6	82
82	Sulfur encapsulation by MOF-derived CoS₂ embedded in carbon hosts for high-performance Liâ€“S batteries. Journal of Materials Chemistry A, 2019, 7, 21128-21139.	10.3	79
83	High-Loading Composition-Tolerant Coâ€“Mn Spinel Oxides with Performance beyond 1 W/cm² in Alkaline Polymer Electrolyte Fuel Cells. ACS Energy Letters, 2019, 4, 1251-1257.	17.4	77
84	Strain and Charge Doping Fingerprints of the Strong Interaction between Monolayer MoS₂ and Gold. Journal of Physical Chemistry Letters, 2020, 11, 6112-6118.	4.6	77
85	Mechanistic Studies of Formate Oxidation on Platinum in Alkaline Medium. Journal of Physical Chemistry C, 2012, 116, 5810-5820.	3.1	76
86	Photophysical properties of tris(bipyridyl)ruthenium(ii) thin films and devices. Physical Chemistry Chemical Physics, 2003, 5, 2706-2709.	2.8	75
87	Tailoring the Antipoisoning Performance of Pd for Formic Acid Electrooxidation via an Ordered PdBi Intermetallic. ACS Catalysis, 2020, 10, 9977-9985.	11.2	75
88	Enhancing the Electrocatalytic Activity of Pd/M (M = Ni, Mn) Nanoparticles for the Oxygen Reduction Reaction in Alkaline Media through Electrochemical Dealloying. ACS Catalysis, 2020, 10, 5891-5898.	11.2	74
89	Systematic Optimization of Battery Materials: Key Parameter Optimization for the Scalable Synthesis of Uniform, High-Energy, and High Stability LiNi_{0.6}Mn_{0.2}Co_{0.2}O₂ Cathode Material for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 35811-35819.	8.0	73
90	Direct Observation of Electrocatalytic Synergy. Journal of the American Chemical Society, 2007, 129, 11033-11035.	13.7	72

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91	Coalescence in the Thermal Annealing of Nanoparticles: An in Situ STEM Study of the Growth Mechanisms of Ordered Ptâ€“Fe Nanoparticles in a KCl Matrix. Chemistry of Materials, 2013, 25, 1436-1442.	6.7	72
92	The Study of Solid/Liquid Interfaces with X-ray Standing Waves. Science, 1990, 250, 69-74.	12.6	68
93	Controlled Selectivity of CO₂ Reduction on Copper by Pulsing the Electrochemical Potential. ChemSusChem, 2018, 11, 1781-1786.	6.8	68
94	Spontaneous incorporation of gold in palladium-based ternary nanoparticles makes durable electrocatalysts for oxygen reduction reaction. Nature Communications, 2016, 7, 11941.	12.8	67
95	Scalable Synthesis of Ultrathin Mn₃N₂ Exhibiting Roomâ€Temperature Antiferromagnetism. Advanced Functional Materials, 2019, 29, 1809001.	14.9	67
96	Structural Effects on the Oxidation of HCOOH by Bismuth-Modified Pt(111) Electrodes with (100) Monatomic Steps. Langmuir, 1999, 15, 7325-7332.	3.5	65
97	Magnetic tunnel junctions with single-layer-graphene tunnel barriers. Physical Review B, 2014, 89, .	3.2	65
98	Enhanced ORR Kinetics on Au-Doped Ptâ€“Cu Porous Films in Alkaline Media. ACS Catalysis, 2020, 10, 9967-9976.	11.2	65
99	Cobalt-electrocatalytic HAT for functionalization of unsaturated Câ€“C bonds. Nature, 2022, 605, 687-695.	27.8	65
100	Ordered Arrays Generated via Metal-Initiated Self-Assembly of Terpyridine Containing Dendrimers and Bridging Ligands. Langmuir, 1999, 15, 7351-7354.	3.5	64
101	Electrocatalytic mechanism and kinetics of SOMs oxidation on ordered PtPb and PtBi intermetallic compounds: DEMS and FTIRS study. Physical Chemistry Chemical Physics, 2008, 10, 3739.	2.8	64
102	Structure of the Photo-catalytically Active Surface of SrTiO₃. Journal of the American Chemical Society, 2016, 138, 7816-7819.	13.7	64
103	Kinetic Enhancement of Sulfur Cathodes by Nâ€Doped Porous Graphitic Carbon with Bound VN Nanocrystals. Small, 2020, 16, e2004950.	10.0	64
104	Phenothiazine-Based Polymer Cathode Materials with Ultrahigh Power Densities for Lithium Ion Batteries. ACS Applied Energy Materials, 2018, 1, 3560-3564.	5.1	63
105	Combinatorial Studies of Palladium-Based Oxygen Reduction Electrocatalysts for Alkaline Fuel Cells. Journal of the American Chemical Society, 2020, 142, 3980-3988.	13.7	63
106	Electrochemical Hydrogen Evolution at Ordered Mo₇Ni₇. ACS Catalysis, 2017, 7, 3375-3383.	11.2	62
107	Modular terpene synthesis enabled by mild electrochemical couplings. Science, 2022, 375, 745-752.	12.6	62
108	High-Performance Ga₂O₃ Anode for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 5519-5526.	8.0	60

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109	Octahedral spinel electrocatalysts for alkaline fuel cells. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 24425-24432.	7.1	60
110	Adsorption of CO on PtBi2 and PtBi surfaces. Surface Science, 2005, 574, 1-16.	1.9	59
111	High throughput screening of electrocatalysts for fuel cell applications. Review of Scientific Instruments, 2006, 77, 054104.	1.3	59
112	Tailored redox functionality of small organics for pseudocapacitive electrodes. Energy and Environmental Science, 2012, 5, 7176.	30.8	58
113	Organic light-emitting devices with laminated top contacts. Applied Physics Letters, 2004, 84, 3675-3677.	3.3	57
114	Methanol Electrooxidation on PtRu Bulk Alloys and Carbon-Supported PtRu Nanoparticle Catalysts: A Quantitative DEMS Study. Langmuir, 2009, 25, 7725-7735.	3.5	57
115	A completely precious metalâ€“free alkaline fuel cell with enhanced performance using a carbon-coated nickel anode. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2119883119.	7.1	54
116	Structural effects on the oxidation of HCOOH by bismuth modified Pt(111) electrodes with (110) monatomic steps. Journal of Electroanalytical Chemistry, 1999, 467, 43-49.	3.8	52
117	Electrochemistry within molecules using ultrafast cyclic voltammetry. Comptes Rendus Chimie, 2003, 6, 99-115.	0.5	52
118	Self-Poisoning during BH₄^{â€“} Oxidation at Pt and Au, and in Situ Poison Removal Procedures for BH₄^{â€“} Fuel Cells. Journal of Physical Chemistry C, 2013, 117, 1571-1581.	3.1	52
119	Solar energy conversion, storage, and release using an integrated solar-driven redox flow battery. Journal of Materials Chemistry A, 2017, 5, 5362-5372.	10.3	52
120	Is there any beam yet? Uses of synchrotron radiation in the in situ study of electrochemical interfaces. The Journal of Physical Chemistry, 1988, 92, 7045-7052.	2.9	51
121	Contact issues in electroluminescent devices from ruthenium complexes. Applied Physics Letters, 2004, 84, 807-809.	3.3	50
122	Poly[dithio-2,5-(1,3,4-thiadiazole)] (PDMcT)â€“poly(3,4-ethylenedioxythiophene) (PEDOT) composite cathode for high-energy lithium/lithium-ion rechargeable batteries. Journal of Power Sources, 2007, 173, 522-530.	7.8	49
123	Operating mechanism of light-emitting electrochemical cells. Nature Materials, 2008, 7, 168-168.	27.5	49
124	Activityâ€“Stability Relationship in Au@Pt Nanoparticles for Electrocatalysis. ACS Energy Letters, 2020, 5, 2827-2834.	17.4	49
125	Electrochemically Controlled Adhesion in Atomic Force Spectroscopy. Journal of the American Chemical Society, 1996, 118, 6303-6304.	13.7	48
126	Elucidation of the Redox Behavior of 2,5-Dimercapto-1,3,4-thiadiazole (DMcT) at Poly(3,4-ethylenedioxythiophene) (PEDOT)-Modified Electrodes and Application of the DMcTâ^'PEDOT Composite Cathodes to Lithium/Lithium Ion Batteries. Langmuir, 2006, 22, 10554-10563.	3.5	48

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127	Dynamic Hosts for High-Performance Liâ€“S Batteries Studied by Cryogenic Transmission Electron Microscopy and in Situ X-ray Diffraction. ACS Energy Letters, 2018, 3, 1325-1330.	17.4	47
128	Direct 120V, 60Hz operation of an organic light emitting device. Journal of Applied Physics, 2006, 99, 074502.	2.5	46
129	Energy-Level-Related Response of Cathodic Electrogenerated-Chemiluminescence of Self-Assembled CdSe/ZnS Quantum Dot Films. Journal of Physical Chemistry C, 2011, 115, 18822-18828.	3.1	45
130	Rh and Rh Alloy Nanoparticles as Highly Active H₂ Oxidation Catalysts for Alkaline Fuel Cells. ACS Catalysis, 2019, 9, 5057-5062.	11.2	45
131	Methanol Oxidation Using Ternary Ordered Intermetallic Electrocatalysts: A DEMS Study. ACS Catalysis, 2020, 10, 770-776.	11.2	45
132	New Double-Band-Electrode Channel Flow Differential Electrochemical Mass Spectrometry Cell: Application for Detecting Product Formation during Methanol Electrooxidation. Analytical Chemistry, 2010, 82, 4319-4324.	6.5	44
133	Synthesis and Photoelectrochemistry of Polycrystalline Thin Films of pâ€‰â€â€‰WSe2, pâ€‰â€â€‰â€‰WSâ€‰2, and pâ€‰â€ Journal of the Electrochemical Society, 1988, 135, 1436-1442.	2.9	43
134	Synthesis and Characterization of Zirconium and Iron Complexes Containing Substituted Indenyl Ligands:Â Evaluation of Steric and Electronic Parameters. Organometallics, 2004, 23, 5332-5346.	2.3	43
135	An Electrochemical Quartz Crystal Microbalance Study of a Prospective Alkaline Anion Exchange Membrane Material for Fuel Cells: Anion Exchange Dynamics and Membrane Swelling. Journal of the American Chemical Society, 2014, 136, 5309-5322.	13.7	43
136	Organic electrode materials for fast-rate, high-power battery applications. Materials Reports Energy, 2021, 1, 100008.	3.2	43
137	Nanomaterial datasets to advance tomography in scanning transmission electron microscopy. Scientific Data, 2016, 3, 160041.	5.3	42
138	Electrochemiluminescence of Osmium Complexes: Spectral, Electrochemical, and Mechanistic Studies. Journal of the Electrochemical Society, 1985, 132, 842-849.	2.9	41
139	Synthesis of carbon supported ordered tetragonal pseudo-ternary Pt2Mâ€²Mâ€³ (MÂ=ÂFe, Co, Ni) nanoparticles and their activity for oxygen reduction reaction. Journal of Power Sources, 2015, 280, 459-466.	7.8	41
140	Crossâ€linking Effects on Performance Metrics of Phenazineâ€Based Polymer Cathodes. ChemSusChem, 2020, 13, 2428-2435.	6.8	41
141	Thermodynamics and Kinetics of Adsorption of Poly(amido amine) Dendrimers Surface Functionalized with Ruthenium(II) Complexes. Langmuir, 1999, 15, 7333-7339.	3.5	40
142	Effects of the Electrolyte Identity and the Presence of Anions on the Redox Behavior of Irreversibly Adsorbed Bismuth on Pt(111). Journal of Physical Chemistry B, 1998, 102, 3506-3511.	2.6	39
143	Observation of intermediate-range order in a nominally amorphous molecular semiconductor film. Journal of Materials Chemistry, 2007, 17, 1458-1461.	6.7	39
144	Semiperfluoroalkyl Polyfluorenes for Orthogonal Processing in Fluorous Solvents. Macromolecules, 2010, 43, 1195-1198.	4.8	39

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145	Underpotential Deposition of Mercury on Au(111):â€‰ Electrochemical Studies and Comparison with Structural Investigations. Langmuir, 1997, 13, 4446-4453.	3.5	38
146	Poison Formation upon the Dissociative Adsorption of Formic Acid on Bismuth-Modified Stepped Platinum Electrodes. Langmuir, 2000, 16, 787-794.	3.5	38
147	Probing Diffusional Transport in Redox-Active Dendrimers. Journal of Physical Chemistry B, 2002, 106, 8504-8513.	2.6	38
148	In situ identification of a luminescence quencher in an organic light-emitting device. Journal of Materials Chemistry, 2007, 17, 76-81.	6.7	38
149	The Mechanism of the Oneâ€Step Synthesis of Hollowâ€Structured Li₃VO₄ as an Anode for Lithiumâ€Ion Batteries. Chemistry - A European Journal, 2014, 20, 5608-5612.	3.3	38
150	Origin of Multiple Peaks in the Potentiodynamic Oxidation of CO Adlayers on Pt and Ru-Modified Pt Electrodes. Journal of Physical Chemistry Letters, 2015, 6, 1899-1906.	4.6	38
151	Electrochemically Triggered Reaction of a Surface-Confined Reagent:â€‰ Mechanistic and EQCM Characterization of Redox-Active Self-Assembling Monolayers Derived from 5,5â€˜-Dithiobis(2-nitrobenzoic acid) and Related Materials. Langmuir, 1999, 15, 127-134.	3.5	37
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