

Andrew A Gewirth

List of Publications by Year in Descending Order

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

161
papers

8,123
citations

48
h-index

86
g-index

189
ext. papers

9,519
ext. citations

9.6
avg, IF

6.67
L-index

#	Paper	IF	Citations
161	Tailoring the Lithium Solid Electrolyte Interphase for Highly Concentrated Electrolytes with Direct Exposure to Halogenated Solvents. <i>ACS Applied Energy Materials</i> , 2022 , 5, 2768-2779	6.1	0
160	Beyond Local Solvation Structure: Nanometric Aggregates in Battery Electrolytes and Their Effect on Electrolyte Properties. <i>ACS Energy Letters</i> , 2022 , 7, 461-470	20.1	11
159	Highly reversible Zn anode with a practical areal capacity enabled by a sustainable electrolyte and superacid interfacial chemistry. <i>Joule</i> , 2022 , 6, 1103-1120	27.8	16
158	Interfacial Leveler-Accelerator Interactions in Cu Electrodeposition. <i>Journal of the Electrochemical Society</i> , 2021 , 168, 042501	3.9	5
157	System Design Rules for Intensified CO ₂ Electroreduction. <i>ECS Meeting Abstracts</i> , 2021 , MA2021-01, 943-943	0	
156	Binder-Focused Approaches to Improve the Stability of Cathodes for CO ₂ Electroreduction. <i>ACS Applied Energy Materials</i> , 2021 , 4, 5175-5186	6.1	11
155	Decreasing the Energy Consumption of the CO ₂ Electrolysis Process Using a Magnetic Field. <i>ACS Energy Letters</i> , 2021 , 6, 2427-2433	20.1	9
154	Pressure-Dependent Electrochemical Behavior of Di-Lithium Rhodizonate Cathodes. <i>Chemistry of Materials</i> , 2021 , 33, 5738-5747	9.6	1
153	Enabling High Capacity and Coulombic Efficiency for Li-NCM811 Cells Using a Highly Concentrated Electrolyte. <i>Batteries and Supercaps</i> , 2021 , 4, 294-303	5.6	6
152	Electrochemical CO ₂ -to-ethylene conversion on polyamine-incorporated Cu electrodes. <i>Nature Catalysis</i> , 2021 , 4, 20-27	36.5	85
151	Potential Dependence of the Local pH in a CO ₂ Reduction Electrolyzer. <i>ACS Catalysis</i> , 2021 , 11, 255-263	13.1	23
150	Effects of Superparamagnetic Iron Nanoparticles on Electrocatalysts for the Reduction of Oxygen. <i>Inorganic Chemistry</i> , 2021 , 60, 4236-4242	5.1	1
149	In Situ Strain Measurement in Solid-State Li-Ion Battery Electrodes. <i>Journal of the Electrochemical Society</i> , 2021 , 168, 010516	3.9	7
148	Nanoheterogeneity of LiTFSI Solutions Transitions Close to a Surface and with Concentration. <i>Nano Letters</i> , 2021 , 21, 2304-2309	11.5	1
147	Using Magnetometry to Understand the Relative Role of Magnetic Particles in Co-Based Catalysts for the Oxygen Reduction Reaction. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 17709-17717	3.8	0
146	Conversion of Co Nanoparticles to CoS in Metal-Organic Framework-Derived Porous Carbon during Cycling Facilitates NaS Reactivity in a Na-S Battery. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 29285-29295	9.5	1
145	Covalent Ag-C Bonding Contacts from Unprotected Terminal Acetylenes for Molecular Junctions. <i>Nano Letters</i> , 2020 , 20, 5490-5495	11.5	11

144	System Design Rules for Intensifying the Electrochemical Reduction of CO ₂ to CO on Ag Nanoparticles. <i>ChemElectroChem</i> , 2020 , 7, 2001-2011	4.3	48
143	Preparation of Nonprecious Metal Electrocatalysts for the Reduction of Oxygen Using a Low-Temperature Sacrificial Metal. <i>Journal of the American Chemical Society</i> , 2020 , 142, 5477-5481	16.4	62
142	Highly dispersed, single-site copper catalysts for the electroreduction of CO ₂ to methane. <i>Journal of Electroanalytical Chemistry</i> , 2020 , 875, 113862	4.1	17
141	(Industrial Electrochemistry and Electrochemical Engineering Division Student Achievement Award Address) System-Level Approaches for Intensifying the CO ₂ Electrolysis Process. <i>ECS Meeting Abstracts</i> , 2020 , MA2020-02, 3202-3202	0	
140	Controlling Speciation during CO ₂ Reduction on Cu-Alloy Electrodes. <i>ACS Catalysis</i> , 2020 , 10, 672-682	13.1	58
139	Oriented LiMnO Particle Fracture from Delithiation-Driven Surface Stress. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 49182-49191	9.5	7
138	Potential-Dependent Layering in the Electrochemical Double Layer of Water-in-Salt Electrolytes. <i>ACS Applied Energy Materials</i> , 2020 , 3, 8086-8094	6.1	9
137	Direct Observation of Interfacial Mechanical Failure in Thiophosphate Solid Electrolytes with Operando X-Ray Tomography. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2000751	4.6	13
136	Energy Storage Mechanisms in High-Capacity Graphitic C ₃ N ₄ Cathodes for Al-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 10288-10297	3.8	11
135	Suppression of Copper Electrodeposition by PEG in Methanesulfonic Acid Electrolytes. <i>Journal of the Electrochemical Society</i> , 2019 , 166, D551-D558	3.9	5
134	Origin of Enhanced Cyclability in Covalently Modified LiMnNiO Cathodes. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 39890-39901	9.5	5
133	Incorporating Solvate and Solid Electrolytes for All-Solid-State Li ₂ S Batteries with High Capacity and Long Cycle Life. <i>Advanced Energy Materials</i> , 2019 , 9, 1900938	21.8	28
132	Understanding Ca Electrodeposition and Speciation Processes in Nonaqueous Electrolytes for Next-Generation Ca-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 21536-21542	9.5	42
131	Trimethylsilyl Azide (TMSN ₃) Enhanced Li ₂ O ₂ Battery Electrolytes. <i>ACS Applied Energy Materials</i> , 2019 , 2, 2662-2671	6.1	5
130	Lithium-Ion Batteries: Operando Observations and First-Principles Calculations of Reduced Lithium Insertion in Au-Coated LiMn ₂ O ₄ (Adv. Mater. Interfaces 4/2019). <i>Advanced Materials Interfaces</i> , 2019 , 6, 1970026	4.6	
129	CoS ₂ as a Sulfur Redox-Active Cathode Material for High-Capacity Nonaqueous Zn Batteries. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 8740-8745	3.8	21
128	Cathode/Electrolyte Interface-Dependent Changes in Stress and Strain in Lithium Iron Phosphate Composite Cathodes. <i>Journal of the Electrochemical Society</i> , 2019 , 166, A2707-A2714	3.9	4
127	The Periodic Table. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 5837-5848	2.8	1

126	Chain length variation to probe the mechanism of accelerator additives in copper electrodeposition. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 16838-16847	3.6	8
125	The JPC Periodic Table. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 17063-17074	3.8	1
124	The JPC Periodic Table. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 4051-4062	6.4	1
123	Improving Cell Resistance and Cycle Life with Solvate-Coated Thiophosphate Solid Electrolytes in Lithium Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 2014-2021	9.5	17
122	Understanding the influence of carbon addition on the corrosion behavior and mechanical properties of Al alloy Bioretics. <i>Journal of Materials Science</i> , 2019 , 54, 2668-2679	4.3	5
121	Operando Observations and First-Principles Calculations of Reduced Lithium Insertion in Au-Coated LiMn2O4. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1801923	4.6	9
120	Controlling Interfacial Properties of Lithium-Ion Battery Cathodes with Alkylphosphonate Self-Assembled Monolayers. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1701292	4.6	14
119	Revealing the Role of the Metal in Non-Precious-Metal Catalysts for Oxygen Reduction via Selective Removal of Fe. <i>ACS Energy Letters</i> , 2018 , 3, 823-828	20.1	38
118	Elucidating Zn and Mg Electrodeposition Mechanisms in Nonaqueous Electrolytes for Next-Generation Metal Batteries. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 13790-13796	3.8	26
117	Nanoporous Copper-Silver Alloys by Additive-Controlled Electrodeposition for the Selective Electroreduction of CO to Ethylene and Ethanol. <i>Journal of the American Chemical Society</i> , 2018 , 140, 5791-5797	16.4	398
116	Nonprecious Metal Catalysts for Oxygen Reduction in Heterogeneous Aqueous Systems. <i>Chemical Reviews</i> , 2018 , 118, 2313-2339	68.1	457
115	Origins of Less Noble Behavior by Au during CO Adsorption. <i>ACS Catalysis</i> , 2018 , 8, 2247-2252	13.1	6
114	Insights into the Low Overpotential Electroreduction of CO2 to CO on a Supported Gold Catalyst in an Alkaline Flow Electrolyzer. <i>ACS Energy Letters</i> , 2018 , 3, 193-198	20.1	263
113	Toward a Four-Electron Redox Quinone Polymer for High Capacity Lithium Ion Storage. <i>Advanced Energy Materials</i> , 2018 , 8, 1700960	21.8	46
112	Solid-Liquid Lithium Electrolyte Nanocomposites Derived from Porous Molecular Cages. <i>Journal of the American Chemical Society</i> , 2018 , 140, 7504-7509	16.4	28
111	The Long-Term Stability of KO in K-O Batteries. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 1227-1231	16.4	48
110	The Long-Term Stability of KO2 in K-O2 Batteries. <i>Angewandte Chemie</i> , 2018 , 130, 1241-1245	3.6	27
109	In situ surface stress measurement and computational analysis examining the oxygen reduction reaction on Pt and Pd. <i>Electrochimica Acta</i> , 2018 , 260, 400-406	6.7	9

108	Understanding the Effect of Interlayers at the Thiophosphate Solid Electrolyte/Lithium Interface for All-Solid-State Li Batteries. <i>Chemistry of Materials</i> , 2018 , 30, 8747-8756	9.6	53
107	Raman and QCM Studies of PPG and PEG Adsorption on Cu Electrode Surfaces. <i>Journal of the Electrochemical Society</i> , 2018 , 165, D687-D695	3.9	13
106	High Energy Density CNT/NaI Composite Cathodes for Sodium-Ion Batteries. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1801342	4.6	4
105	Zn _{NixMnxCo2-x} O ₄ Spinel as a High-Voltage and High-Capacity Cathode Material for Nonaqueous Zn-Ion Batteries. <i>Advanced Energy Materials</i> , 2018 , 8, 1800589	21.8	72
104	Anisotropic Mg Electrodeposition and Alloying with Ag-based Anodes from Non-Coordinating Mixed-Metal Borohydride Electrolytes for Mg Hybrid Batteries. <i>Electrochimica Acta</i> , 2017 , 229, 112-120	6.7	5
103	Proton transfer dynamics dictate quinone speciation at lipid-modified electrodes. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 7086-7093	3.6	7
102	Reversible Li-Ion Conversion Reaction for a TiGe Alloy in a Ti/Ge Multilayer. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 8169-8176	9.5	11
101	Restored iron transport by a small molecule promotes absorption and hemoglobinization in animals. <i>Science</i> , 2017 , 356, 608-616	33.3	73
100	Electrochemical Stiffness Changes in Lithium Manganese Oxide Electrodes. <i>Advanced Energy Materials</i> , 2017 , 7, 1601778	21.8	18
99	Nanoporous Copper Films by Additive-Controlled Electrodeposition: CO ₂ Reduction Catalysis. <i>ACS Catalysis</i> , 2017 , 7, 3313-3321	13.1	172
98	Evolution at the Solid Electrolyte/Gold Electrode Interface during Lithium Deposition and Stripping. <i>Chemistry of Materials</i> , 2017 , 29, 3029-3037	9.6	83
97	Thiol-based electrolyte additives for high-performance lithium-sulfur batteries. <i>Nano Energy</i> , 2017 , 32, 50-58	17.1	71
96	Gold Nanoparticles on Polymer-Wrapped Carbon Nanotubes: An Efficient and Selective Catalyst for the Electroreduction of CO. <i>ChemPhysChem</i> , 2017 , 18, 3274-3279	3.2	48
95	The effect of water-containing electrolyte on lithium-sulfur batteries. <i>Journal of Power Sources</i> , 2017 , 369, 50-56	8.9	17
94	ZnAl _x Co _{2-x} O ₄ Spinel as Cathode Materials for Non-Aqueous Zn Batteries with an Open Circuit Voltage of 0 V. <i>Chemistry of Materials</i> , 2017 , 29, 9351-9359	9.6	67
93	Effect of the Hydrofluoroether Cosolvent Structure in Acetonitrile-Based Solvate Electrolytes on the Li Solvation Structure and Li-S Battery Performance. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 39357-39370	9.5	39
92	Effect of Concentration on the Electrochemistry and Speciation of the Magnesium Aluminum Chloride Complex Electrolyte Solution. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 35729-35739	9.5	40
91	Multimodal Study of the Speciations and Activities of Supported Pd Catalysts During the Hydrogenation of Ethylene. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 18962-18972	3.8	18

90	A Nitrogen-Doped Carbon Catalyst for Electrochemical CO Conversion to CO with High Selectivity and Current Density. <i>ChemSusChem</i> , 2017 , 10, 1094-1099	8.3	92
89	Operando and multimodal studies of speciation and activity of Pt catalysts during the hydrogenation of ethylene. <i>Microscopy and Microanalysis</i> , 2017 , 23, 892-893	0.5	
88	Insight into the electrochemical reduction of CO ₂ on gold via surface-enhanced Raman spectroscopy and N-containing additives. <i>Journal of Solid State Electrochemistry</i> , 2016 , 20, 1149-1154	2.6	10
87	Elucidating Proton Involvement in the Rate-Determining Step for Pt/Pd-Based and Non-Precious-Metal Oxygen Reduction Reaction Catalysts Using the Kinetic Isotope Effect. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 3542-7	6.4	38
86	A Highly Efficient Single-Chain Metal-Organic Nanoparticle Catalyst for Alkyne-Azide "Click" Reactions in Water and in Cells. <i>Journal of the American Chemical Society</i> , 2016 , 138, 11077-80	16.4	132
85	Effect of Hydrofluoroether Cosolvent Addition on Li Solvation in Acetonitrile-Based Solvate Electrolytes and Its Influence on S Reduction in a Li-S Battery. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 34360-34371	9.5	40
84	Sparingly Solvating Electrolytes for High Energy Density Lithium-Sulfur Batteries. <i>ACS Energy Letters</i> , 2016 , 1, 503-509	20.1	146
83	"Rocking-Chair"-Type Metal Hybrid Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 30853-30862	9.5	54
82	Identification of carbon-encapsulated iron nanoparticles as active species in non-precious metal oxygen reduction catalysts. <i>Nature Communications</i> , 2016 , 7, 12582	17.4	206
81	Characterization of the Cathode Electrolyte Interface in Lithium Ion Batteries by Desorption Electro spray Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2016 , 88, 7171-7	7.8	50
80	The Flip-Flop Diffusion Mechanism across Lipids in a Hybrid Bilayer Membrane. <i>Biophysical Journal</i> , 2016 , 110, 2451-2462	2.9	16
79	Observation of an Inverse Kinetic Isotope Effect in Oxygen Evolution Electrochemistry. <i>ACS Catalysis</i> , 2016 , 6, 5706-5714	13.1	49
78	Dimensionally Controlled Lithiation of Chromium Oxide. <i>Chemistry of Materials</i> , 2016 , 28, 47-54	9.6	11
77	The Interplay of Al and Mg Speciation in Advanced Mg Battery Electrolyte Solutions. <i>Journal of the American Chemical Society</i> , 2016 , 138, 328-37	16.4	147
76	Evidence for Decoupled Electron and Proton Transfer in the Electrochemical Oxidation of Ammonia on Pt(100). <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 387-92	6.4	45
75	Identification of Li-Ion Battery SEI Compounds through ⁷ Li and ¹³ C Solid-State MAS NMR Spectroscopy and MALDI-TOF Mass Spectrometry. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 371-80	9.5	36
74	High Activity Oxygen Evolution Reaction Catalysts from Additive-Controlled Electrodeposited Ni and NiFe Films. <i>ACS Catalysis</i> , 2016 , 6, 1159-1164	13.1	122
73	Proton transfer dynamics control the mechanism of O ₂ reduction by a non-precious metal electrocatalyst. <i>Nature Materials</i> , 2016 , 15, 754-9	27	83

72	Electrochemical Surface Stress Development during CO and NO Oxidation on Pt. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 8674-8683	3.8	20
71	Dynamic Surface Stress Response during Reversible Mg Electrodeposition and Stripping. <i>Journal of the Electrochemical Society</i> , 2016 , 163, A2679-A2684	3.9	7
70	Electrochemical stiffness in lithium-ion batteries. <i>Nature Materials</i> , 2016 , 15, 1182-1187	27	85
69	Investigation of fluoroethylene carbonate effects on tin-based lithium-ion battery electrodes. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 6557-66	9.5	53
68	Photoresponsive molecular switch for regulating transmembrane proton-transfer kinetics. <i>Journal of the American Chemical Society</i> , 2015 , 137, 14059-62	16.4	21
67	In Situ EQCM Study Examining Irreversible Changes the Sulfur-Carbon Cathode in Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 20820-8	9.5	20
66	Identification of lithium-sulfur battery discharge products through 6Li and 33S solid-state MAS and 7Li solution NMR spectroscopy. <i>Surface Science</i> , 2015 , 631, 295-300	1.8	50
65	LiMn2O4@Au Particles as Cathodes for Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2015 , 162, A26-A29	3.9	21
64	Influence of Oxides on the Stress Evolution and Reversibility during SnOx Conversion and Li-Sn Alloying Reactions. <i>Advanced Energy Materials</i> , 2015 , 5, 1400317	21.8	21
63	Passivation Dynamics in the Anisotropic Deposition and Stripping of Bulk Magnesium Electrodes During Electrochemical Cycling. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 18406-14	9.5	29
62	Synthesis of Manganese Oxide Microspheres by Ultrasonic Spray Pyrolysis and Their Application as Supercapacitors. <i>Particle and Particle Systems Characterization</i> , 2015 , 32, 899-906	3.1	14
61	Exploring Salt and Solvent Effects in Chloride-Based Electrolytes for Magnesium Electrodeposition and Dissolution. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 13524-13534	3.8	58
60	3-Mercapto-1-Propanesulfonate for Cu Electrodeposition Studied by in Situ Shell-Isolated Nanoparticle-Enhanced Raman Spectroscopy, Density Functional Theory Calculations, and Cyclic Voltammetry. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 23453-23462	3.8	28
59	In situ Raman spectroscopy of sulfur speciation in lithium-sulfur batteries. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 1709-19	9.5	199
58	Synergetic role of Li(+) during Mg electrodeposition/dissolution in borohydride diglyme electrolyte solution: voltammetric stripping behaviors on a Pt microelectrode indicative of Mg-Li alloying and facilitated dissolution. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 2494-502	9.5	41
57	Anion transport through lipids in a hybrid bilayer membrane. <i>Analytical Chemistry</i> , 2015 , 87, 2403-9	7.8	18
56	Proton switch for modulating oxygen reduction by a copper electrocatalyst embedded in a hybrid bilayer membrane. <i>Nature Materials</i> , 2014 , 13, 619-23	27	42
55	Lithium Intercalation Behavior in Multilayer Silicon Electrodes. <i>Advanced Energy Materials</i> , 2014 , 4, 1301494	4.4	31

54	Electrodes: Lithium Intercalation Behavior in Multilayer Silicon Electrodes (Adv. Energy Mater. 7/2014). <i>Advanced Energy Materials</i> , 2014 , 4, n/a-n/a	21.8	4
53	In Situ Surface-Enhanced Raman Spectroscopy of the Electrochemical Reduction of Carbon Dioxide on Silver with 3,5-Diamino-1,2,4-Triazole. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 17567-17576	3.8	75
52	Multicopper models for the laccase active site: effect of nuclearity on electrocatalytic oxygen reduction. <i>Inorganic Chemistry</i> , 2014 , 53, 8505-16	5.1	70
51	Effect of Mn and Cu Addition on Lithiation and SEI Formation on Model Anode Electrodes. <i>Journal of the Electrochemical Society</i> , 2014 , 161, A513-A518	3.9	17
50	Electrolytic Conditioning of a Magnesium Aluminum Chloride Complex for Reversible Magnesium Deposition. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 27623-27630	3.8	139
49	Model Ge microstructures as anodes for Li-ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2013 , 17, 3015-3020	2.6	7
48	Surface Coverage and SEI Induced Electrochemical Surface Stress Changes during Li Deposition in a Model System for Li-Ion Battery Anodes. <i>Journal of the Electrochemical Society</i> , 2013 , 160, A888-A896	3.9	46
47	Cu complexes that catalyze the oxygen reduction reaction. <i>Coordination Chemistry Reviews</i> , 2013 , 257, 130-139	23.2	152
46	Investigating the effect of aging on transpassive behavior of Ni-based alloys in sulfuric acid with shell-isolated nanoparticle enhanced Raman spectroscopy (SHINERS). <i>Corrosion Science</i> , 2013 , 67, 67-74	6.8	22
45	X-ray diffraction microscopy of lithiated silicon microstructures. <i>Applied Physics Letters</i> , 2013 , 102, 131903	3.4	6
44	Investigating the Li-O ₂ Battery in an Ether-Based Electrolyte Using Differential Electrochemical Mass Spectrometry. <i>Journal of the Electrochemical Society</i> , 2013 , 160, A549-A552	3.9	52
43	Shell-isolated nanoparticle enhanced Raman spectroscopy (SHINERS) investigation of benzotriazole film formation on Cu(100), Cu(111), and Cu(poly). <i>Journal of Raman Spectroscopy</i> , 2012 , 43, 46-50	2.3	64
42	Face-Dependent Shell-Isolated Nanoparticle Enhanced Raman Spectroscopy of 2,2'-Bipyridine on Au(100) and Au(111). <i>Journal of Physical Chemistry C</i> , 2012 , 116, 5128-5140	3.8	60
41	Real-Time Observations of Interfacial Lithiation in a Metal Silicide Thin Film. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 22341-22345	3.8	22
40	Dopant Modulated Li Insertion in Si for Battery Anodes: Theory and Experiment. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 18916-18921	3.8	73
39	Strain Anisotropies and Self-Limiting Capacities in Single-Crystalline 3D Silicon Microstructures: Models for High Energy Density Lithium-Ion Battery Anodes. <i>Advanced Functional Materials</i> , 2011 , 21, 2412-2422	15.6	164
38	LITHIUM-ION BATTERIES: Strain Anisotropies and Self-Limiting Capacities in Single-Crystalline 3D Silicon Microstructures: Models for High Energy Density Lithium-Ion Battery Anodes (Adv. Funct. Mater. 13/2011). <i>Advanced Functional Materials</i> , 2011 , 21, 2411-2411	15.6	
37	The First-Cycle Electrochemical Lithiation of Crystalline Ge: Dopant and Orientation Dependence and Comparison with Si. <i>Journal of Physical Chemistry Letters</i> , 2011 , 2, 3092-3095	6.4	41

36	Influence of Aromatic Functionality on Quaternary Ammonium Levelers for Cu Plating. <i>Journal of the Electrochemical Society</i> , 2011 , 158, D323	3.9	26
35	Electroreduction of dioxygen for fuel-cell applications: materials and challenges. <i>Inorganic Chemistry</i> , 2010 , 49, 3557-66	5.1	588
34	Characterization of water structure on silver electrode surfaces by SERS with two-dimensional correlation spectroscopy. <i>Analytical Chemistry</i> , 2010 , 82, 1305-10	7.8	26
33	Oxygen reduction activity of a copper complex of 3,5-diamino-1,2,4-triazole supported on carbon black. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 165-7	16.4	141
32	Electrochemically Driven Reorientation of Three Ionic States of p-Aminobenzoic Acid on Ag(111). <i>Journal of Physical Chemistry C</i> , 2009 , 113, 2417-2424	3.8	17
31	Atomic force microscopic study of polymeric film growth in copper electroplating bath with benzotriazole. <i>Journal of Electroanalytical Chemistry</i> , 2007 , 601, 242-250	4.1	7
30	Potential dependence of the structure of water at the hydrophobic liquid interface. <i>Journal of Electroanalytical Chemistry</i> , 2007 , 609, 94-98	4.1	4
29	Mechanism of electrochemical reduction of hydrogen peroxide on copper in acidic sulfate solutions. <i>Langmuir</i> , 2007 , 23, 9911-8	4	63
28	Vibrational Spectroscopic and Mass Spectrometric Studies of the Interaction of Bis(3-sulfopropyl)-disulfide with Cu Surfaces. <i>Journal of the Electrochemical Society</i> , 2006 , 153, C97	3.9	65
27	Mechanism of oxygen electroreduction on gold surfaces in basic media. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 2565-71	3.4	106
26	SERS study of hydrogen peroxide electroreduction on a Pb-modified Au electrode. <i>Journal of Raman Spectroscopy</i> , 2005 , 36, 715-724	2.3	13
25	Synthesis and characterization of molybdate-modified platinum nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2004 , 6, 1310	3.6	12
24	Formation of Ordered Multilayers from Polyoxometalates and Silver on Electrode Surfaces. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 7927-7933	3.4	22
23	Interactions between the Keggin-Type Lacunary Polyoxometalate, $\text{K}_3\text{W}_{10}\text{O}_{39}$, and Electrode Surfaces. <i>Langmuir</i> , 2003 , 19, 8934-8942	4	34
22	Peroxide electroreduction on bi-modified Au surfaces: vibrational spectroscopy and density functional calculations. <i>Journal of the American Chemical Society</i> , 2003 , 125, 7086-99	16.4	68
21	Inhibition Due to the Interaction of Polyethylene Glycol, Chloride, and Copper in Plating Baths: A Surface-Enhanced Raman Study. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 9415-9423	3.4	202
20	Attenuation of surface-enhanced Raman spectroscopy response in gold-platinum core-shell nanoparticles. <i>Journal of Raman Spectroscopy</i> , 2002 , 33, 243-251	2.3	31
19	Voltammetric and Force Spectroscopic Examination of Oxide Formation on Cu(111) in Basic Solution. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 12211-12220	3.4	47

18	A method for filling complex polymeric microfluidic devices and arrays. <i>Analytical Chemistry</i> , 2001 , 73, 3193-7	7.8	113
17	Adsorption configuration and local ordering of silicotungstate anions on Ag(100) electrode surfaces. <i>Journal of the American Chemical Society</i> , 2001 , 123, 8838-43	16.4	39
16	Nitrate Reduction Catalyzed by Underpotentially Deposited Cd on Au(111): Identification of the Electroactive Surface Structure. <i>Langmuir</i> , 2000 , 16, 9501-9512	4	38
15	Structure Sensitive Adsorption of DMSO on Au Surfaces. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 873-877	3.7	12
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