

# Gabriel M Veith

## List of Publications by Year in descending order

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252  
papers

16,782  
citations

10956

71  
h-index

18075

120  
g-index

266  
all docs

266  
docs citations

266  
times ranked

22506  
citing authors

#	ARTICLE	IF	CITATIONS
1	Water desalination using nanoporous single-layer graphene. <i>Nature Nanotechnology</i> , 2015, 10, 459-464.	15.6	1,372
2	Mixed Close-Packed Cobalt Molybdenum Nitrides as Non-noble Metal Electrocatalysts for the Hydrogen Evolution Reaction. <i>Journal of the American Chemical Society</i> , 2013, 135, 19186-19192.	6.6	897
3	CO Oxidation on Supported Single Pt Atoms: Experimental and ab Initio Density Functional Studies of CO Interaction with Pt Atom on $\gamma$ -Al <sub>2</sub> O <sub>3</sub> (010) Surface. <i>Journal of the American Chemical Society</i> , 2013, 135, 12634-12645.	6.6	535
4	Lithium salts for advanced lithium batteries: Li <sup>+</sup> metal, Li <sup>+</sup> O <sub>2</sub> , and Li <sup>+</sup> S. <i>Energy and Environmental Science</i> , 2015, 8, 1905-1922.	15.6	460
5	A Superacid-Catalyzed Synthesis of Porous Membranes Based on Triazine Frameworks for CO <sub>2</sub> Separation. <i>Journal of the American Chemical Society</i> , 2012, 134, 10478-10484.	6.6	408
6	Direct exfoliation of natural graphite into micrometre size few layers graphene sheets using ionic liquids. <i>Chemical Communications</i> , 2010, 46, 4487.	2.2	295
7	Controlled Synthesis of Mesoporous Carbon Nanostructures via a Silica-Assisted Strategy. <i>Nano Letters</i> , 2013, 13, 207-212.	4.5	248
8	Intrinsic thermodynamic and kinetic properties of Sb electrodes for Li-ion and Na-ion batteries: experiment and theory. <i>Journal of Materials Chemistry A</i> , 2013, 1, 7985.	5.2	226
9	Selective Oxidation of Glycerol under Acidic Conditions Using Gold Catalysts. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 4499-4502.	7.2	222
10	Rational Design of Bi Nanoparticles for Efficient Electrochemical CO <sub>2</sub> Reduction: The Elucidation of Size and Surface Condition Effects. <i>ACS Catalysis</i> , 2016, 6, 6255-6264.	5.5	212
11	Electrochemical and rate performance study of high-voltage lithium-rich composition: Li <sub>1.2</sub> Mn <sub>0.525</sub> Ni <sub>0.175</sub> Co <sub>0.1</sub> O <sub>2</sub> . <i>Journal of Power Sources</i> , 2012, 199, 220-226.	4.0	210
12	Germanium as negative electrode material for sodium-ion batteries. <i>Electrochemistry Communications</i> , 2013, 34, 41-44.	2.3	206
13	Pd-modified Au on Carbon as an Effective and Durable Catalyst for the Direct Oxidation of HMF to 2,5-Furandicarboxylic Acid. <i>ChemSusChem</i> , 2013, 6, 609-612.	3.6	202
14	<i>In Situ</i> Doping Strategy for the Preparation of Conjugated Triazine Frameworks Displaying Efficient CO <sub>2</sub> Capture Performance. <i>Journal of the American Chemical Society</i> , 2016, 138, 11497-11500.	6.6	200
15	Taming interfacial electronic properties of platinum nanoparticles on vacancy-abundant boron nitride nanosheets for enhanced catalysis. <i>Nature Communications</i> , 2017, 8, 15291.	5.8	200
16	High performance electrodes in vanadium redox flow batteries through oxygen-enriched thermal activation. <i>Journal of Power Sources</i> , 2015, 294, 333-338.	4.0	189
17	Characterization of sodium ion electrochemical reaction with tin anodes: Experiment and theory. <i>Journal of Power Sources</i> , 2013, 234, 48-59.	4.0	186
18	In Situ Ambient Pressure X-ray Photoelectron Spectroscopy Studies of Lithium-Oxygen Redox Reactions. <i>Scientific Reports</i> , 2012, 2, 715.	1.6	180

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19	Thermal stability and catalytic activity of gold nanoparticles supported on silica. <i>Journal of Catalysis</i> , 2009, 262, 92-101.	3.1	170
20	Determination of the Solid Electrolyte Interphase Structure Grown on a Silicon Electrode Using a Fluoroethylene Carbonate Additive. <i>Scientific Reports</i> , 2017, 7, 6326.	1.6	157
21	Lab-in-a-Shell: Encapsulating Metal Clusters for Size Sieving Catalysis. <i>Journal of the American Chemical Society</i> , 2014, 136, 11260-11263.	6.6	152
22	Elucidating the Phase Transformation of $\text{Li}_4\text{Ti}_5\text{O}_{12}$ Lithiation at the Nanoscale. <i>ACS Nano</i> , 2016, 10, 4312-4321.	7.3	144
23	Electrochemical and Solid-State Lithiation of Graphitic $\text{C}_3\text{N}_4$ . <i>Chemistry of Materials</i> , 2013, 25, 503-508.	3.2	141
24	Surface chemistry of metal oxide coated lithium manganese nickel oxide thin film cathodes studied by XPS. <i>Electrochimica Acta</i> , 2013, 90, 135-147.	2.6	140
25	Characterisation of gold catalysts. <i>Chemical Society Reviews</i> , 2016, 45, 4953-4994.	18.7	140
26	Cobalt Molybdenum Oxynitrides: Synthesis, Structural Characterization, and Catalytic Activity for the Oxygen Reduction Reaction. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 10753-10757.	7.2	139
27	Calendar aging of silicon-containing batteries. <i>Nature Energy</i> , 2021, 6, 866-872.	19.8	137
28	Sonochemical functionalization of mesoporous carbon for uranium extraction from seawater. <i>Journal of Materials Chemistry A</i> , 2013, 1, 3016.	5.2	132
29	Nanoporous Ionic Organic Networks: Stabilizing and Supporting Gold Nanoparticles for Catalysis. <i>Nano Letters</i> , 2015, 15, 823-828.	4.5	132
30	Surface studies of high voltage lithium rich composition: $\text{Li}_{1.2}\text{Mn}_{0.525}\text{Ni}_{0.175}\text{Co}_{0.1}\text{O}_2$ . <i>Journal of Power Sources</i> , 2012, 216, 179-186.	4.0	131
31	Gold Nanoparticles Supported on Carbon Nitride: Influence of Surface Hydroxyls on Low Temperature Carbon Monoxide Oxidation. <i>ACS Catalysis</i> , 2012, 2, 1138-1146.	5.5	127
32	Direct Determination of Solid-Electrolyte Interphase Thickness and Composition as a Function of State of Charge on a Silicon Anode. <i>Journal of Physical Chemistry C</i> , 2015, 119, 20339-20349.	1.5	127
33	Influence of Lithium Salts on the Discharge Chemistry of $\text{Li}^{\oplus}$ Air Cells. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 1242-1247.	2.1	123
34	$\text{Mo}_3\text{Sb}_7$ as a very fast anode material for lithium-ion and sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2013, 1, 11163.	5.2	121
35	$\text{Cu}_2\text{Sb}$ thin films as anode for Na-ion batteries. <i>Electrochemistry Communications</i> , 2013, 27, 168-171.	2.3	115
36	Superior Conductive Solid-like Electrolytes: Nanoconfining Liquids within the Hollow Structures. <i>Nano Letters</i> , 2015, 15, 3398-3402.	4.5	115

#	ARTICLE	IF	CITATIONS
37	Spectroscopic Characterization of Solid Discharge Products in Li-Air Cells with Aprotic Carbonate Electrolytes. <i>Journal of Physical Chemistry C</i> , 2011, 115, 14325-14333.	1.5	114
38	Hydrogen evolution at the negative electrode of the all-vanadium redox flow batteries. <i>Journal of Power Sources</i> , 2014, 248, 560-564.	4.0	113
39	Understanding the Low-Voltage Hysteresis of Anionic Redox in $\text{Na}_2\text{Mn}_3\text{O}_7$ . <i>Chemistry of Materials</i> , 2019, 31, 3756-3765.	3.2	112
40	Polymerized Ionic Networks with High Charge Density: Quasi-Solid Electrolytes in Lithium-Metal Batteries. <i>Advanced Materials</i> , 2015, 27, 8088-8094.	11.1	110
41	Sol immobilization technique: a delicate balance between activity, selectivity and stability of gold catalysts. <i>Catalysis Science and Technology</i> , 2013, 3, 3036.	2.1	109
42	The reaction mechanism of SnSb and Sb thin film anodes for Na-ion batteries studied by X-ray diffraction, $^{119}\text{Sn}$ and $^{121}\text{Sb}$ Mössbauer spectroscopies. <i>Journal of Power Sources</i> , 2014, 267, 329-336.	4.0	109
43	Probing the electrode/electrolyte interface in the lithium excess layered oxide $\text{Li}_{1.2}\text{Ni}_{0.2}\text{Mn}_{0.6}\text{O}_2$ . <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 11128.	1.3	107
44	Silica-Supported Au-CuO Hybrid Nanocrystals as Active and Selective Catalysts for the Formation of Acetaldehyde from the Oxidation of Ethanol. <i>ACS Catalysis</i> , 2012, 2, 2537-2546.	5.5	105
45	Highly dispersed sulfur in a porous aromatic framework as a cathode for lithium-sulfur batteries. <i>Chemical Communications</i> , 2013, 49, 4905.	2.2	103
46	A Novel Electrolyte Salt Additive for Lithium-Ion Batteries with Voltages Greater than 4.7 V. <i>Advanced Energy Materials</i> , 2017, 7, 1601397.	10.2	103
47	Low-Temperature Fluorination of Soft-Templated Mesoporous Carbons for a High-Power Lithium/Carbon Fluoride Battery. <i>Chemistry of Materials</i> , 2011, 23, 4420-4427.	3.2	102
48	Guanidinium-Based Ionic Covalent Organic Framework for Rapid and Selective Removal of Toxic Cr(VI) Oxoanions from Water. <i>Environmental Science &amp; Technology</i> , 2019, 53, 878-883.	4.6	101
49	Au on $\text{MgAl}_2\text{O}_4$ spinels: The effect of support surface properties in glycerol oxidation. <i>Journal of Catalysis</i> , 2010, 275, 108-116.	3.1	100
50	Resolving the Amorphous Structure of Lithium Phosphorus Oxynitride (Lipon). <i>Journal of the American Chemical Society</i> , 2018, 140, 11029-11038.	6.6	99
51	Unraveling the Nanoscale Heterogeneity of Solid Electrolyte Interphase Using Tip-Enhanced Raman Spectroscopy. <i>Joule</i> , 2019, 3, 2001-2019.	11.7	99
52	Nanoparticles of gold on -AlO produced by dc magnetron sputtering. <i>Journal of Catalysis</i> , 2005, 231, 151-158.	3.1	95
53	The electrochemical reactions of pure indium with Li and Na: Anomalous electrolyte decomposition, benefits of FEC additive, phase transitions and electrode performance. <i>Journal of Power Sources</i> , 2014, 248, 1105-1117.	4.0	93
54	Efficient $\text{CO}_2$ Capture by Porous, Nitrogen-Doped Carbonaceous Adsorbents Derived from Task-Specific Ionic Liquids. <i>ChemSusChem</i> , 2012, 5, 1912-1917.	3.6	92

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55	High voltage stability of LiCoO <sub>2</sub> particles with a nano-scale Lipon coating. <i>Electrochimica Acta</i> , 2011, 56, 6573-6580.	2.6	91
56	Nanoscale Imaging of Whole Cells Using a Liquid Enclosure and a Scanning Transmission Electron Microscope. <i>PLoS ONE</i> , 2009, 4, e8214.	1.1	90
57	AlSb thin films as negative electrodes for Li-ion and Na-ion batteries. <i>Journal of Power Sources</i> , 2013, 243, 699-705.	4.0	89
58	A "Ship-in-a-Bottle" Approach to Synthesis of Polymer Dots@Silica or Polymer Dots@Carbon Core@Shell Nanospheres. <i>Advanced Materials</i> , 2012, 24, 6017-6021.	11.1	88
59	Soluble Porous Coordination Polymers by Mechanochemistry: From Metal-Containing Films/Membranes to Active Catalysts for Aerobic Oxidation. <i>Advanced Materials</i> , 2015, 27, 234-239.	11.1	88
60	Understanding the Role of NH <sub>4</sub> F and Al <sub>2</sub> O <sub>3</sub> Surface Co-modification on Lithium-Excess Layered Oxide Li <sub>1.2</sub> Ni <sub>0.2</sub> Mn <sub>0.6</sub> O <sub>2</sub> . <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 19189-19200.	4.0	87
61	Robust Solid/Electrolyte Interphase (SEI) Formation on Si Anodes Using Glyme-Based Electrolytes. <i>ACS Energy Letters</i> , 2021, 6, 1684-1693.	8.8	87
62	Constructing Hierarchical Interfaces: TiO <sub>2</sub> -Supported PtFe@FeO Nanowires for Room Temperature CO Oxidation. <i>Journal of the American Chemical Society</i> , 2015, 137, 10156-10159.	6.6	86
63	Preparation and CO <sub>2</sub> adsorption properties of soft-templated mesoporous carbons derived from chestnut tannin precursors. <i>Microporous and Mesoporous Materials</i> , 2016, 222, 94-103.	2.2	86
64	Low-Thermal-Budget Photonic Processing of Highly Conductive Cu Interconnects Based on CuO Nanoinks: Potential for Flexible Printed Electronics. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 2441-2448.	4.0	83
65	Quantitative Electrochemical Measurements Using <i>In Situ</i> ec-S/TEM Devices. <i>Microscopy and Microanalysis</i> , 2014, 20, 452-461.	0.2	80
66	Evaluating the solid electrolyte interphase formed on silicon electrodes: a comparison of ex situ X-ray photoelectron spectroscopy and in situ neutron reflectometry. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 13927-13940.	1.3	80
67	Anomalous Discharge Product Distribution in Lithium-Air Cathodes. <i>Journal of Physical Chemistry C</i> , 2012, 116, 8401-8408.	1.5	79
68	Atmospheric Pressure Scanning Transmission Electron Microscopy. <i>Nano Letters</i> , 2010, 10, 1028-1031.	4.5	77
69	Effect of Morphology and Manganese Valence on the Voltage Fade and Capacity Retention of Li <sub>2/12</sub> Ni <sub>3/12</sub> Mn <sub>7/12</sub> O <sub>2</sub> . <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 18868-18877.	4.0	76
70	An Artificial Solid Electrolyte Interphase Enables the Use of a LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> 5 V Cathode with Conventional Electrolytes. <i>Advanced Energy Materials</i> , 2013, 3, 1275-1278.	10.2	75
71	Gold on carbon: one billion catalysts under a single label. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 2969.	1.3	74
72	Lithium malonateborate additives enabled stable cycling of 5 V lithium metal and lithium ion batteries. <i>Nano Energy</i> , 2017, 40, 9-19.	8.2	72

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73	Fabrication and characterization of Li <sup>+</sup> Mn <sup>2+</sup> Ni <sup>2+</sup> O sputtered thin film high voltage cathodes for Li-ion batteries. <i>Journal of Power Sources</i> , 2012, 211, 108-118.	4.0	71
74	New Tricks for Old Molecules: Development and Application of Porous N-doped, Carbonaceous Membranes for CO <sub>2</sub> Separation. <i>Advanced Materials</i> , 2013, 25, 4152-4158.	11.1	71
75	Magnetron sputtering of gold nanoparticles onto WO <sub>3</sub> and activated carbon. <i>Catalysis Today</i> , 2007, 122, 248-253.	2.2	68
76	In Situ Determination of the Liquid/Solid Interface Thickness and Composition for the Li Ion Cathode LiMn <sub>1.5</sub> Ni <sub>0.5</sub> O <sub>4</sub> . <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 18569-18576.	4.0	68
77	Role of pH in the Formation of Structurally Stable and Catalytically Active TiO <sub>2</sub> -Supported Gold Catalysts. <i>Journal of Physical Chemistry C</i> , 2009, 113, 269-280.	1.5	67
78	The reaction mechanism of FeSb <sub>2</sub> as anode for sodium-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 9538.	1.3	65
79	Dynamic Lithium Distribution upon Dendrite Growth and Shorting Revealed by Operando Neutron Imaging. <i>ACS Energy Letters</i> , 2019, 4, 2402-2408.	8.8	65
80	Real space imaging of the microscopic origins of the ultrahigh dielectric constant in polycrystalline CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> . <i>Applied Physics Letters</i> , 2005, 86, 102902.	1.5	64
81	Probing the Mechanism of Sodium Ion Insertion into Copper Antimony Cu <sub>2</sub> Sb Anodes. <i>Journal of Physical Chemistry C</i> , 2014, 118, 7856-7864.	1.5	64
82	Ambient Lithium-SO <sub>2</sub> Batteries with Ionic Liquids as Electrolytes. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 2099-2103.	7.2	62
83	AuPd-nNiO as an effective catalyst for the base-free oxidation of HMF under mild reaction conditions. <i>Green Chemistry</i> , 2019, 21, 4090-4099.	4.6	62
84	Influence of Hydrocarbon and CO <sub>2</sub> on the Reversibility of Li <sup>+</sup> O <sub>2</sub> Chemistry Using <i>In Situ</i> Ambient Pressure X-ray Photoelectron Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2013, 117, 25948-25954.	1.5	59
85	Unraveling manganese dissolution/deposition mechanisms on the negative electrode in lithium ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 10398.	1.3	59
86	Acid-Functionalized Mesoporous Carbon: An Efficient Support for Ruthenium-Catalyzed $\gamma$ -Valerolactone Production. <i>ChemSusChem</i> , 2015, 8, 2520-2528.	3.6	58
87	A POM-organic framework anode for Li-ion battery. <i>Journal of Materials Chemistry A</i> , 2015, 3, 22989-22995.	5.2	58
88	Aromatic Polyimide/Graphene Composite Organic Cathodes for Fast and Sustainable Lithium-Ion Batteries. <i>ChemSusChem</i> , 2018, 11, 763-772.	3.6	58
89	Au on Nanosized NiO: A Cooperative Effect between Au and Nanosized NiO in the Base-Free Alcohol Oxidation. <i>ChemCatChem</i> , 2011, 3, 1612-1618.	1.8	57
90	Influence of Periodic Nitrogen Functionality on the Selective Oxidation of Alcohols. <i>Chemistry - an Asian Journal</i> , 2012, 7, 387-393.	1.7	57

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91	Vacuum-Assisted Low-Temperature Synthesis of Reduced Graphene Oxide Thin-Film Electrodes for High-Performance Transparent and Flexible All-Solid-State Supercapacitors. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 11008-11017.	4.0	57
92	Current Collectors for Rechargeable Li-Air Batteries. <i>Journal of the Electrochemical Society</i> , 2011, 158, A658-A663.	1.3	56
93	Direct measurement of the chemical reactivity of silicon electrodes with LiPF <sub>6</sub> -based battery electrolytes. <i>Chemical Communications</i> , 2014, 50, 3081.	2.2	56
94	The Cell-in-Series Method: A Technique for Accelerated Electrode Degradation in Redox Flow Batteries. <i>Journal of the Electrochemical Society</i> , 2016, 163, A5202-A5210.	1.3	54
95	Using supported Au nanoparticles as starting material for preparing uniform Au/Pd bimetallic catalysts. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 2183.	1.3	51
96	Nitrogen-Enriched Carbons from Alkali Salts with High Coulombic Efficiency for Energy Storage Applications. <i>Advanced Energy Materials</i> , 2013, 3, 708-712.	10.2	51
97	A Perspective on Coatings to Stabilize High-Voltage Cathodes: LiMn <sub>1.5</sub> Ni <sub>0.5</sub> O <sub>4</sub> with Sub-Nanometer Lipon Cycled with LiPF <sub>6</sub> Electrolyte. <i>Journal of the Electrochemical Society</i> , 2013, 160, A3113-A3125.	1.3	51
98	Ionic liquid derived carbons as highly efficient oxygen reduction catalysts: first elucidation of pore size distribution dependent kinetics. <i>Chemical Communications</i> , 2014, 50, 1469-1471.	2.2	49
99	Intrinsic chemical reactivity of solid-electrolyte interphase components in silicon-lithium alloy anode batteries probed by FTIR spectroscopy. <i>Journal of Materials Chemistry A</i> , 2020, 8, 7897-7906.	5.2	49
100	An efficient low-temperature route to nitrogen-doping and activation of mesoporous carbons for CO <sub>2</sub> capture. <i>Chemical Communications</i> , 2015, 51, 17261-17264.	2.2	47
101	Synthesis of Porous, Nitrogen-Doped Adsorption/Diffusion Carbonaceous Membranes for Efficient CO <sub>2</sub> Separation. <i>Macromolecular Rapid Communications</i> , 2013, 34, 452-459.	2.0	46
102	Degradation mechanisms of lithium-rich nickel manganese cobalt oxide cathode thin films. <i>RSC Advances</i> , 2014, 4, 23364.	1.7	45
103	Bismuth as a modifier of Au-Pd catalyst: Enhancing selectivity in alcohol oxidation by suppressing parallel reaction. <i>Journal of Catalysis</i> , 2012, 292, 73-80.	3.1	44
104	Phosphorylated mesoporous carbon as effective catalyst for the selective fructose dehydration to HMF. <i>Journal of Energy Chemistry</i> , 2013, 22, 305-311.	7.1	44
105	Accelerating Membrane-based CO <sub>2</sub> Separation by Soluble Nanoporous Polymer Networks Produced by Mechanochemical Oxidative Coupling. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 2816-2821.	7.2	44
106	The Study of the Binder Poly(acrylic acid) and Its Role in Concomitant Solid-Electrolyte Interphase Formation on Si Anodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 10018-10030.	4.0	44
107	Synthesis and Characterization of Lithium Bis(fluoromalonato)borate for Lithium-Ion Battery Applications. <i>Advanced Energy Materials</i> , 2014, 4, 1301368.	10.2	43
108	Solid-State Synthesis of Conjugated Nanoporous Polycarbazoles. <i>ACS Macro Letters</i> , 2017, 6, 1056-1059.	2.3	42



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109	Electrochemical Reactivity and Passivation of Silicon Thin-Film Electrodes in Organic Carbonate Electrolytes. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 40879-40890.	4.0	42
110	NiO as a peculiar support for metal nanoparticles in polyols oxidation. <i>Catalysis Science and Technology</i> , 2013, 3, 394-399.	2.1	40
111	The Influence of Local Distortions on Proton Mobility in Acceptor Doped Perovskites. <i>Chemistry of Materials</i> , 2018, 30, 4919-4925.	3.2	40
112	Properties of lithium phosphorus oxynitride (Lipon) for 3D solid-state lithium batteries. <i>Journal of Materials Research</i> , 2010, 25, 1507-1515.	1.2	39
113	Predictions of particle size and lattice diffusion pathway requirements for sodium-ion anodes using $\text{Li-Cu}_6\text{Sn}_5$ thin films as a model system. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 10885.	1.3	38
114	Rational Design of Lithium-Sulfur Battery Cathodes Based on Experimentally Determined Maximum Active Material Thickness. <i>Journal of the American Chemical Society</i> , 2017, 139, 9229-9237.	6.6	38
115	Investigations of $\text{Sr}_3\text{Fe}_2\text{xMnxO}_7$ the n=2 Ruddlesden-Popper phases with d3/d4 interactions. <i>Solid State Sciences</i> , 2000, 2, 513-522.	0.8	37
116	Shear Thickening Electrolytes for High Impact Resistant Batteries. <i>ACS Energy Letters</i> , 2017, 2, 2084-2088.	8.8	37
117	ZrFlux growth and characterization of Ce-substituted $\text{NdB}_2$ single crystals. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 434, 1-9.	1.0	36
118	Probing microstructure and electrolyte concentration dependent cell chemistry via operando small angle neutron scattering. <i>Energy and Environmental Science</i> , 2019, 12, 1866-1877.	15.6	36
119	Elucidating Interfacial Stability between Lithium Metal Anode and Li Phosphorus Oxynitride via In Situ Electron Microscopy. <i>Nano Letters</i> , 2021, 21, 151-157.	4.5	36
120	Role of Hydroxyl Groups on the Stability and Catalytic Activity of Au Clusters on a Rutile Surface. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 2918-2924.	2.1	35
121	Gas evolution from cathode materials: A pathway to solvent decomposition concomitant to SEI formation. <i>Journal of Power Sources</i> , 2013, 239, 341-346.	4.0	34
122	Evidence for the Formation of Nitrogen-Rich Platinum and Palladium Nitride Nanoparticles. <i>Chemistry of Materials</i> , 2013, 25, 4936-4945.	3.2	33
123	Multifunctional approaches for safe structural batteries. <i>Journal of Energy Storage</i> , 2021, 40, 102747.	3.9	33
124	Influence of Support Hydroxides on the Catalytic Activity of Oxidized Gold Clusters. <i>ChemCatChem</i> , 2010, 2, 281-286.	1.8	32
125	Superacid-promoted synthesis of highly porous hypercrosslinked polycarbazoles for efficient $\text{CO}_2$ capture. <i>Chemical Communications</i> , 2017, 53, 7645-7648.	2.2	32
126	Ambient Temperature Graphitization Based on Mechanochemical Synthesis. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 21935-21939.	7.2	32



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127	The local atomic structure and chemical bonding in sodium tin phases. Journal of Materials Chemistry A, 2014, 2, 18959-18973.	5.2	31
128	Bis(fluoromalonato)borate (BFMB) anion based ionic liquid as an additive for lithium-ion battery electrolytes. Journal of Materials Chemistry A, 2014, 2, 7606-7614.	5.2	31
129	Synthesis of Ni-Rich Thin-Film Cathode as Model System for Lithium Ion Batteries. ACS Applied Energy Materials, 2019, 2, 1405-1412.	2.5	31
130	Intrinsic Surface Stability in $\text{LiMn}_2\text{O}_4\text{Ni}_x\text{O}_4$ ( $x = 0.45, 0.5$ ) High Voltage Spinel Materials for Lithium Ion Batteries. Electrochemical and Solid-State Letters, 2012, 15, A72.	2.2	30
131	Type I Clathrates as Novel Silicon Anodes: An Electrochemical and Structural Investigation. Advanced Science, 2015, 2, 1500057.	5.6	30
132	$\text{PdH}_x$ Entrapped in a Covalent Triazine Framework Modulates Selectivity in Glycerol Oxidation. ChemCatChem, 2015, 7, 2149-2154.	1.8	30
133	A new family of fluidic precursors for the self-templated synthesis of hierarchical nanoporous carbons. Chemical Communications, 2013, 49, 7289.	2.2	29
134	Evaluation of the physisorption and chemisorption of hydrogen in alkali (Na, Li) doped fullerenes. International Journal of Hydrogen Energy, 2015, 40, 2710-2716.	3.8	29
135	Formation of Iron Oxyfluoride Phase on the Surface of Nano- $\text{Fe}_3\text{O}_4$ Conversion Compound for Electrochemical Energy Storage. Journal of Physical Chemistry Letters, 2013, 4, 3798-3805.	2.1	28
136	Structure of Spontaneously Formed Solid-Electrolyte Interphase on Lithiated Graphite Determined Using Small-Angle Neutron Scattering. Journal of Physical Chemistry C, 2015, 119, 9816-9823.	1.5	28
137	Probing Electrolyte Solvents at Solid/Liquid Interface Using Gap-Mode Surface-Enhanced Raman Spectroscopy. Journal of the Electrochemical Society, 2019, 166, A178-A187.	1.3	28
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