

Gabriel M Veith

List of Publications by Year in descending order

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252
papers

16,782
citations

10986

71
h-index

18130

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.	31.5	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.	13.7	897
3	CO Oxidation on Supported Single Pt Atoms: Experimental and ab Initio Density Functional Studies of CO Interaction with Pt Atom on γ -Al ₂ O ₃ (010) Surface. <i>Journal of the American Chemical Society</i> , 2013, 135, 12634-12645.	13.7	535
4	Lithium salts for advanced lithium batteries: Li ⁺ metal, Li ⁺ O ₂ , and Li ⁺ S. <i>Energy and Environmental Science</i> , 2015, 8, 1905-1922.	30.8	460
5	A Superacid-Catalyzed Synthesis of Porous Membranes Based on Triazine Frameworks for CO ₂ Separation. <i>Journal of the American Chemical Society</i> , 2012, 134, 10478-10484.	13.7	408
6	Direct exfoliation of natural graphite into micrometre size few layers graphene sheets using ionic liquids. <i>Chemical Communications</i> , 2010, 46, 4487.	4.1	295
7	Controlled Synthesis of Mesoporous Carbon Nanostructures via a γ -Silica-Assisted Strategy. <i>Nano Letters</i> , 2013, 13, 207-212.	9.1	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.	10.3	226
9	Selective Oxidation of Glycerol under Acidic Conditions Using Gold Catalysts. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 4499-4502.	13.8	222
10	Rational Design of Bi Nanoparticles for Efficient Electrochemical CO ₂ Reduction: The Elucidation of Size and Surface Condition Effects. <i>ACS Catalysis</i> , 2016, 6, 6255-6264.	11.2	212
11	Electrochemical and rate performance study of high-voltage lithium-rich composition: Li _{1.2} Mn _{0.525} Ni _{0.175} Co _{0.1} O ₂ . <i>Journal of Power Sources</i> , 2012, 199, 220-226.	7.8	210
12	Germanium as negative electrode material for sodium-ion batteries. <i>Electrochemistry Communications</i> , 2013, 34, 41-44.	4.7	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.	6.8	202
14	<i>In Situ</i> Doping Strategy for the Preparation of Conjugated Triazine Frameworks Displaying Efficient CO ₂ Capture Performance. <i>Journal of the American Chemical Society</i> , 2016, 138, 11497-11500.	13.7	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.	12.8	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.	7.8	189
17	Characterization of sodium ion electrochemical reaction with tin anodes: Experiment and theory. <i>Journal of Power Sources</i> , 2013, 234, 48-59.	7.8	186
18	In Situ Ambient Pressure X-ray Photoelectron Spectroscopy Studies of Lithium-Oxygen Redox Reactions. <i>Scientific Reports</i> , 2012, 2, 715.	3.3	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.	6.2	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.	3.3	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.	13.7	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.	14.6	144
23	Electrochemical and Solid-State Lithiation of Graphitic C_3N_4 . <i>Chemistry of Materials</i> , 2013, 25, 503-508.	6.7	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.	5.2	140
25	Characterisation of gold catalysts. <i>Chemical Society Reviews</i> , 2016, 45, 4953-4994.	38.1	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.	13.8	139
27	Calendar aging of silicon-containing batteries. <i>Nature Energy</i> , 2021, 6, 866-872.	39.5	137
28	Sonochemical functionalization of mesoporous carbon for uranium extraction from seawater. <i>Journal of Materials Chemistry A</i> , 2013, 1, 3016.	10.3	132
29	Nanoporous Ionic Organic Networks: Stabilizing and Supporting Gold Nanoparticles for Catalysis. <i>Nano Letters</i> , 2015, 15, 823-828.	9.1	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.	7.8	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.	11.2	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.	3.1	127
33	Influence of Lithium Salts on the Discharge Chemistry of Li^{\oplus} Air Cells. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 1242-1247.	4.6	123
34	Mo_3Sb_7 as a very fast anode material for lithium-ion and sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2013, 1, 11163.	10.3	121
35	Cu_2Sb thin films as anode for Na-ion batteries. <i>Electrochemistry Communications</i> , 2013, 27, 168-171.	4.7	115
36	Superior Conductive Solid-like Electrolytes: Nanoconfining Liquids within the Hollow Structures. <i>Nano Letters</i> , 2015, 15, 3398-3402.	9.1	115

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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.	3.1	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.	7.8	113
39	Understanding the Low-Voltage Hysteresis of Anionic Redox in Na ₂ Mn ₃ O ₇ . <i>Chemistry of Materials</i> , 2019, 31, 3756-3765.	6.7	112
40	Polymerized Ionic Networks with High Charge Density: Quasi-Solid Electrolytes in Lithium-Metal Batteries. <i>Advanced Materials</i> , 2015, 27, 8088-8094.	21.0	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.	4.1	109
42	The reaction mechanism of SnSb and Sb thin film anodes for Na-ion batteries studied by X-ray diffraction, ¹¹⁹ Sn and ¹²¹ Sb Mössbauer spectroscopies. <i>Journal of Power Sources</i> , 2014, 267, 329-336.	7.8	109
43	Probing the electrode/electrolyte interface in the lithium excess layered oxide Li _{1.2} Ni _{0.2} Mn _{0.6} O ₂ . <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 11128.	2.8	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.	11.2	105
45	Highly dispersed sulfur in a porous aromatic framework as a cathode for lithium-sulfur batteries. <i>Chemical Communications</i> , 2013, 49, 4905.	4.1	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.	19.5	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.	6.7	102
48	Guanidinium-Based Ionic Covalent Organic Framework for Rapid and Selective Removal of Toxic Cr(VI) Oxoanions from Water. <i>Environmental Science & Technology</i> , 2019, 53, 878-883.	10.0	101
49	Au on MgAl ₂ O ₄ spinels: The effect of support surface properties in glycerol oxidation. <i>Journal of Catalysis</i> , 2010, 275, 108-116.	6.2	100
50	Resolving the Amorphous Structure of Lithium Phosphorus Oxynitride (Lipon). <i>Journal of the American Chemical Society</i> , 2018, 140, 11029-11038.	13.7	99
51	Unraveling the Nanoscale Heterogeneity of Solid Electrolyte Interphase Using Tip-Enhanced Raman Spectroscopy. <i>Joule</i> , 2019, 3, 2001-2019.	24.0	99
52	Nanoparticles of gold on -AlO produced by dc magnetron sputtering. <i>Journal of Catalysis</i> , 2005, 231, 151-158.	6.2	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.	7.8	93
54	Efficient CO ₂ Capture by Porous, Nitrogen-Doped Carbonaceous Adsorbents Derived from Task-Specific Ionic Liquids. <i>ChemSusChem</i> , 2012, 5, 1912-1917.	6.8	92

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55	High voltage stability of LiCoO ₂ particles with a nano-scale Lipon coating. <i>Electrochimica Acta</i> , 2011, 56, 6573-6580.	5.2	91
56	Nanoscale Imaging of Whole Cells Using a Liquid Enclosure and a Scanning Transmission Electron Microscope. <i>PLoS ONE</i> , 2009, 4, e8214.	2.5	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.	7.8	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.	21.0	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.	21.0	88
60	Understanding the Role of NH ₄ F and Al ₂ O ₃ Surface Co-modification on Lithium-Excess Layered Oxide Li _{1.2} Ni _{0.2} Mn _{0.6} O ₂ . <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 19189-19200.	8.0	87
61	Robust Solid/Electrolyte Interphase (SEI) Formation on Si Anodes Using Glyme-Based Electrolytes. <i>ACS Energy Letters</i> , 2021, 6, 1684-1693.	17.4	87
62	Constructing Hierarchical Interfaces: TiO ₂ -Supported PtFe@FeO Nanowires for Room Temperature CO Oxidation. <i>Journal of the American Chemical Society</i> , 2015, 137, 10156-10159.	13.7	86
63	Preparation and CO ₂ adsorption properties of soft-templated mesoporous carbons derived from chestnut tannin precursors. <i>Microporous and Mesoporous Materials</i> , 2016, 222, 94-103.	4.4	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 & Interfaces</i> , 2016, 8, 2441-2448.	8.0	83
65	Quantitative Electrochemical Measurements Using <i>In Situ</i> ec-S/TEM Devices. <i>Microscopy and Microanalysis</i> , 2014, 20, 452-461.	0.4	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.	2.8	80
67	Anomalous Discharge Product Distribution in Lithium-Air Cathodes. <i>Journal of Physical Chemistry C</i> , 2012, 116, 8401-8408.	3.1	79
68	Atmospheric Pressure Scanning Transmission Electron Microscopy. <i>Nano Letters</i> , 2010, 10, 1028-1031.	9.1	77
69	Effect of Morphology and Manganese Valence on the Voltage Fade and Capacity Retention of Li _{2/12} Ni _{3/12} Mn _{7/12} O ₂ . <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 18868-18877.	8.0	76
70	An Artificial Solid Electrolyte Interphase Enables the Use of a LiNi _{0.5} Mn _{1.5} O ₄ 5 V Cathode with Conventional Electrolytes. <i>Advanced Energy Materials</i> , 2013, 3, 1275-1278.	19.5	75
71	Gold on carbon: one billion catalysts under a single label. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 2969.	2.8	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.	16.0	72

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73	Fabrication and characterization of Li ⁺ Mn ²⁺ Ni ²⁺ O sputtered thin film high voltage cathodes for Li-ion batteries. <i>Journal of Power Sources</i> , 2012, 211, 108-118.	7.8	71
74	New Tricks for Old Molecules: Development and Application of Porous N-doped, Carbonaceous Membranes for CO ₂ Separation. <i>Advanced Materials</i> , 2013, 25, 4152-4158.	21.0	71
75	Magnetron sputtering of gold nanoparticles onto WO ₃ and activated carbon. <i>Catalysis Today</i> , 2007, 122, 248-253.	4.4	68
76	In Situ Determination of the Liquid/Solid Interface Thickness and Composition for the Li Ion Cathode LiMn _{1.5} Ni _{0.5} O ₄ . <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 18569-18576.	8.0	68
77	Role of pH in the Formation of Structurally Stable and Catalytically Active TiO ₂ -Supported Gold Catalysts. <i>Journal of Physical Chemistry C</i> , 2009, 113, 269-280.	3.1	67
78	The reaction mechanism of FeSb ₂ as anode for sodium-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 9538.	2.8	65
79	Dynamic Lithium Distribution upon Dendrite Growth and Shorting Revealed by Operando Neutron Imaging. <i>ACS Energy Letters</i> , 2019, 4, 2402-2408.	17.4	65
80	Real space imaging of the microscopic origins of the ultrahigh dielectric constant in polycrystalline CaCu ₃ Ti ₄ O ₁₂ . <i>Applied Physics Letters</i> , 2005, 86, 102902.	3.3	64
81	Probing the Mechanism of Sodium Ion Insertion into Copper Antimony Cu ₂ Sb Anodes. <i>Journal of Physical Chemistry C</i> , 2014, 118, 7856-7864.	3.1	64
82	Ambient Lithium ⁺ SO ₂ Batteries with Ionic Liquids as Electrolytes. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 2099-2103.	13.8	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.	9.0	62
84	Influence of Hydrocarbon and CO ₂ on the Reversibility of Li ⁺ O ₂ Chemistry Using <i>In Situ</i> Ambient Pressure X-ray Photoelectron Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2013, 117, 25948-25954.	3.1	59
85	Unraveling manganese dissolution/deposition mechanisms on the negative electrode in lithium ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 10398.	2.8	59
86	Acid-Functionalized Mesoporous Carbon: An Efficient Support for Ruthenium-Catalyzed γ -Valerolactone Production. <i>ChemSusChem</i> , 2015, 8, 2520-2528.	6.8	58
87	A POM-organic framework anode for Li-ion battery. <i>Journal of Materials Chemistry A</i> , 2015, 3, 22989-22995.	10.3	58
88	Aromatic Polyimide/Graphene Composite Organic Cathodes for Fast and Sustainable Lithium-Ion Batteries. <i>ChemSusChem</i> , 2018, 11, 763-772.	6.8	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.	3.7	57
90	Influence of Periodic Nitrogen Functionality on the Selective Oxidation of Alcohols. <i>Chemistry - an Asian Journal</i> , 2012, 7, 387-393.	3.3	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. ACS Applied Materials & Interfaces, 2018, 10, 11008-11017.	8.0	57
92	Current Collectors for Rechargeable Li-Air Batteries. Journal of the Electrochemical Society, 2011, 158, A658-A663.	2.9	56
93	Direct measurement of the chemical reactivity of silicon electrodes with LiPF ₆ -based battery electrolytes. Chemical Communications, 2014, 50, 3081.	4.1	56
94	The Cell-in-Series Method: A Technique for Accelerated Electrode Degradation in Redox Flow Batteries. Journal of the Electrochemical Society, 2016, 163, A5202-A5210.	2.9	54
95	Using supported Au nanoparticles as starting material for preparing uniform Au/Pd bimetallic catalysts. Physical Chemistry Chemical Physics, 2010, 12, 2183.	2.8	51
96	Nitrogen-Enriched Carbons from Alkali Salts with High Coulombic Efficiency for Energy Storage Applications. Advanced Energy Materials, 2013, 3, 708-712.	19.5	51
97	A Perspective on Coatings to Stabilize High-Voltage Cathodes: LiMn _{1.5} Ni _{0.5} O ₄ with Sub-Nanometer Lipon Cycled with LiPF ₆ Electrolyte. Journal of the Electrochemical Society, 2013, 160, A3113-A3125.	2.9	51
98	Ionic liquid derived carbons as highly efficient oxygen reduction catalysts: first elucidation of pore size distribution dependent kinetics. Chemical Communications, 2014, 50, 1469-1471.	4.1	49
99	Intrinsic chemical reactivity of solid-electrolyte interphase components in silicon-lithium alloy anode batteries probed by FTIR spectroscopy. Journal of Materials Chemistry A, 2020, 8, 7897-7906.	10.3	49
100	An efficient low-temperature route to nitrogen-doping and activation of mesoporous carbons for CO ₂ capture. Chemical Communications, 2015, 51, 17261-17264.	4.1	47
101	Synthesis of Porous, Nitrogen-Doped Adsorption/Diffusion Carbonaceous Membranes for Efficient CO ₂ Separation. Macromolecular Rapid Communications, 2013, 34, 452-459.	3.9	46
102	Degradation mechanisms of lithium-rich nickel manganese cobalt oxide cathode thin films. RSC Advances, 2014, 4, 23364.	3.6	45
103	Bismuth as a modifier of Au-Pd catalyst: Enhancing selectivity in alcohol oxidation by suppressing parallel reaction. Journal of Catalysis, 2012, 292, 73-80.	6.2	44
104	Phosphorylated mesoporous carbon as effective catalyst for the selective fructose dehydration to HMF. Journal of Energy Chemistry, 2013, 22, 305-311.	12.9	44
105	Accelerating Membrane-based CO ₂ Separation by Soluble Nanoporous Polymer Networks Produced by Mechanochemical Oxidative Coupling. Angewandte Chemie - International Edition, 2018, 57, 2816-2821.	13.8	44
106	The Study of the Binder Poly(acrylic acid) and Its Role in Concomitant Solid-Electrolyte Interphase Formation on Si Anodes. ACS Applied Materials & Interfaces, 2020, 12, 10018-10030.	8.0	44
107	Synthesis and Characterization of Lithium Bis(fluoromalonato)borate for Lithium-Ion Battery Applications. Advanced Energy Materials, 2014, 4, 1301368.	19.5	43
108	Solid-State Synthesis of Conjugated Nanoporous Polycarbazoles. ACS Macro Letters, 2017, 6, 1056-1059.	4.8	42

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109	Electrochemical Reactivity and Passivation of Silicon Thin-Film Electrodes in Organic Carbonate Electrolytes. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 40879-40890.	8.0	42
110	NiO as a peculiar support for metal nanoparticles in polyols oxidation. <i>Catalysis Science and Technology</i> , 2013, 3, 394-399.	4.1	40
111	The Influence of Local Distortions on Proton Mobility in Acceptor Doped Perovskites. <i>Chemistry of Materials</i> , 2018, 30, 4919-4925.	6.7	40
112	Properties of lithium phosphorus oxynitride (Lipon) for 3D solid-state lithium batteries. <i>Journal of Materials Research</i> , 2010, 25, 1507-1515.	2.6	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.	2.8	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.	13.7	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.	0.7	37
116	Shear Thickening Electrolytes for High Impact Resistant Batteries. <i>ACS Energy Letters</i> , 2017, 2, 2084-2088.	17.4	37
117	ZrFlux growth and characterization of Ce-substituted NdB_2 single crystals. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 434, 1-9.	2.3	36
118	Probing microstructure and electrolyte concentration dependent cell chemistry <i>via</i> operando small angle neutron scattering. <i>Energy and Environmental Science</i> , 2019, 12, 1866-1877.	30.8	36
119	Elucidating Interfacial Stability between Lithium Metal Anode and Li Phosphorus Oxynitride <i>via</i> In Situ Electron Microscopy. <i>Nano Letters</i> , 2021, 21, 151-157.	9.1	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.	4.6	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.	7.8	34
122	Evidence for the Formation of Nitrogen-Rich Platinum and Palladium Nitride Nanoparticles. <i>Chemistry of Materials</i> , 2013, 25, 4936-4945.	6.7	33
123	Multifunctional approaches for safe structural batteries. <i>Journal of Energy Storage</i> , 2021, 40, 102747.	8.1	33
124	Influence of Support Hydroxides on the Catalytic Activity of Oxidized Gold Clusters. <i>ChemCatChem</i> , 2010, 2, 281-286.	3.7	32
125	Superacid-promoted synthesis of highly porous hypercrosslinked polycarbazoles for efficient CO_2 capture. <i>Chemical Communications</i> , 2017, 53, 7645-7648.	4.1	32
126	Ambient Temperature Graphitization Based on Mechanochemical Synthesis. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 21935-21939.	13.8	32

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127	The local atomic structure and chemical bonding in sodium tin phases. <i>Journal of Materials Chemistry A</i> , 2014, 2, 18959-18973.	10.3	31
128	Bis(fluoromalonato)borate (BFMB) anion based ionic liquid as an additive for lithium-ion battery electrolytes. <i>Journal of Materials Chemistry A</i> , 2014, 2, 7606-7614.	10.3	31
129	Synthesis of Ni-Rich Thin-Film Cathode as Model System for Lithium Ion Batteries. <i>ACS Applied Energy Materials</i> , 2019, 2, 1405-1412.	5.1	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. <i>Electrochemical and Solid-State Letters</i> , 2012, 15, A72.	2.2	30
131	Type I Clathrates as Novel Silicon Anodes: An Electrochemical and Structural Investigation. <i>Advanced Science</i> , 2015, 2, 1500057.	11.2	30
132	PdH_x Entrapped in a Covalent Triazine Framework Modulates Selectivity in Glycerol Oxidation. <i>ChemCatChem</i> , 2015, 7, 2149-2154.	3.7	30
133	A new family of fluidic precursors for the self-templated synthesis of hierarchical nanoporous carbons. <i>Chemical Communications</i> , 2013, 49, 7289.	4.1	29
134	Evaluation of the physisorption and chemisorption of hydrogen in alkali (Na, Li) doped fullerenes. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 2710-2716.	7.1	29
135	Formation of Iron Oxyfluoride Phase on the Surface of Nano- Fe_3O_4 Conversion Compound for Electrochemical Energy Storage. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 3798-3805.	4.6	28
136	Structure of Spontaneously Formed Solid-Electrolyte Interphase on Lithiated Graphite Determined Using Small-Angle Neutron Scattering. <i>Journal of Physical Chemistry C</i> , 2015, 119, 9816-9823.	3.1	28
137	Probing Electrolyte Solvents at Solid/Liquid Interface Using Gap-Mode Surface-Enhanced Raman Spectroscopy. <i>Journal of the Electrochemical Society</i> , 2019, 166, A178-A187.	2.9	28
138	Metastable $\text{Li}_{1+x}\text{Mn}_2\text{O}_4$ ($0 \leq x \leq 1$) Spinel Phases Revealed by in Operando Neutron Diffraction and First-Principles Calculations. <i>Chemistry of Materials</i> , 2019, 31, 124-134.	6.7	28
139	Structural Degradation of High Voltage Lithium Nickel Manganese Cobalt Oxide (NMC) Cathodes in Solid-State Batteries and Implications for Next Generation Energy Storage. <i>ACS Applied Energy Materials</i> , 2020, 3, 1768-1774.	5.1	28
140	Properties of the perovskites, $\text{SrMn}_{1-x}\text{Fe}_x\text{O}_3$ ($x=1/3, 1/2, 2/3$). <i>Solid State Sciences</i> , 2000, 2, 821-831.	3.2	27
141	The electrochemical reactions of SnO_2 with Li and Na: A study using thin films and mesoporous carbons. <i>Journal of Power Sources</i> , 2015, 284, 1-9.	7.8	27
142	Synthesis and characterization of the oxynitride pyrochlore - $\text{Sm}_2\text{Mo}_2\text{O}_3\text{.83N}_3\text{.17}$. <i>Materials Research Bulletin</i> , 2001, 36, 1521-1530.	5.2	26
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