Gabriel M Veith

List of Publications by Year
in descending order

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	Hermetically sealed porous-wall hollow microspheres enabled by monolithic glass coatings: Potential for thermal insulation applications. Vacuum, 2022, 195, 110667.	1.6	5
2	Role of silicon-graphite homogeneity as promoted by low molecular weight dispersants. Journal of Power Sources, 2022, 517, 230671.	4.0	12
3	Competitive adsorption within electrode slurries and impact on cell fabrication and performance. Journal of Power Sources, 2022, 520, 230914.	4.0	9
4	Study of Chromium Migration in a Nickel-Based Alloy Using Polarized Neutron Reflectometry and Rutherford Backscattering Spectrometry. Journal of Physical Chemistry C, 2022, 126, 605-610.	1.5	0
5	Evaluating the roles of electrolyte components on the passivation of silicon anodes. Journal of Power Sources, 2022, 523, 231021.	4.0	10
6	Polyacrylonitrile-based electrolytes: How processing and residual solvent affect ion transport and stability. Journal of Power Sources, 2022, 527, 231165.	4.0	11
7	Digestion processes and elemental analysis of oxide and sulfide solid electrolytes. Ionics, 2022, 28, 3223-3231.	1.2	3
8	Critical Evaluation of Potentiostatic Holds as Accelerated Predictors of Capacity Fade during Calendar Aging. Journal of the Electrochemical Society, 2022, 169, 050531.	1.3	16
9	Understanding the Solution Dynamics and Binding of a PVDF Binder with Silicon, Graphite, and NMC Materials and the Influence on Cycling Performance. ACS Applied Materials & Interfaces, 2022, 14, 23322-23331.	4.0	6
10	Relative Kinetics of Solid-State Reactions: The Role of Architecture in Controlling Reactivity. Journal of the American Chemical Society, 2022, 144, 11975-11979.	6.6	10
11	Thin-Film Paradigm to Probe Interfacial Diffusion during Solid-State Metathesis Reactions. Chemistry of Materials, 2022, 34, 6279-6287.	3.2	3
12	Elucidating Interfacial Stability between Lithium Metal Anode and Li Phosphorus Oxynitride via <i>In Situ</i> Electron Microscopy. Nano Letters, 2021, 21, 151-157.	4.5	36
13	Structure and dynamics of small polyimide oligomers with silicon as a function of aging. Soft Matter, 2021, 17, 7729-7742.	1.2	3
14	Quantification of the ion transport mechanism in protective polymer coatings on lithium metal anodes. Chemical Science, 2021, 12, 7023-7032.	3.7	7
15	Examining CO₂ as an Additive for Solid Electrolyte Interphase Formation on Silicon Anodes. Journal of the Electrochemical Society, 2021, 168, 030534.	1.3	16
16	XPCS Microrheology and Rheology of Sterically Stabilized Nanoparticle Dispersions in Aprotic Solvents. ACS Applied Materials & Interfaces, 2021, 13, 14267-14274.	4.0	6
17	Probing Clustering Dynamics between Silicon and PAA or LiPAA Slurries under Processing Conditions. ACS Applied Polymer Materials, 2021, 3, 2447-2460.	2.0	7
18	An anode-free Li metal cell with replenishable Li designed for long cycle life. Energy Storage Materials, 2021, 36, 251-256.	9.5	18

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19	Robust Solid/Electrolyte Interphase (SEI) Formation on Si Anodes Using Glyme-Based Electrolytes. ACS Energy Letters, 2021, 6, 1684-1693.	8.8	87
20	Role of Low Molecular Weight Polymers on the Dynamics of Silicon Anodes During Casting. ChemPhysChem, 2021, 22, 1049-1058.	1.0	7
21	La₂Zr₂O₇ Nanoparticle-Mediated Synthesis of Porous Al-Doped Li₇La₃Zr₂O₁₂ Garnet. Inorganic Chemistry, 2021, 60, 10012-10021.	1.9	7
22	Solid Electrolyte Interphase Architecture Determined through In Situ Neutron Scattering. Journal of the Electrochemical Society, 2021, 168, 060523.	1.3	6
23	Multifunctional approaches for safe structural batteries. Journal of Energy Storage, 2021, 40, 102747.	3.9	33
24	Calendar aging of silicon-containing batteries. Nature Energy, 2021, 6, 866-872.	19.8	137
25	Synthesis of model sodium sulfide films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2021, 39, 053404.	0.9	3
26	Role of Pairwise Reactions on the Synthesis of Li_{0.3}La_{0.57}TiO₃ and the Resulting Structureâ€"Property Correlations. Inorganic Chemistry, 2021, 60, 14831-14843.	1.9	6
27	Nanostructured ligament and fiber Alâ€"doped Li7La3Zr2O12 scaffolds to mediate cathode-electrolyte interface chemistry. Journal of Power Sources, 2021, 513, 230551.	4.0	9
28	Distilling nanoscale heterogeneity of amorphous silicon using tip-enhanced Raman spectroscopy (TERS) via multiresolution manifold learning. Nature Communications, 2021, 12, 578.	5.8	25
29	Stable SEI Formation on Al-Si-Mn Metallic Glass Li-Ion Anode. Journal of the Electrochemical Society, 2021, 168, 100521.	1.3	3
30	Bifunctional Ionic Covalent Organic Networks for Enhanced Simultaneous Removal of Chromium(VI) and Arsenic(V) Oxoanions via Synergetic Ion Exchange and Redox Process. Small, 2021, 17, e2104703.	5.2	13
31	Bifunctional Ionic Covalent Organic Networks for Enhanced Simultaneous Removal of Chromium(VI) and Arsenic(V) Oxoanions via Synergetic Ion Exchange and Redox Process (Small 46/2021). Small, 2021, 17, 2170241.	5.2	1
32	A high temperature cell for investigating interfacial structure on the molecular scale in molten salt/alloy systems. Review of Scientific Instruments, 2021, 92, 123903.	0.6	1
33	Li2O-Based Cathode Additives Enabling Prelithiation of Si Anodes. Applied Sciences (Switzerland), 2021, 11, 12027.	1.3	12
34	Ru supported on micro and mesoporous carbons as catalysts for biomass-derived molecules hydrogenation. Catalysis Today, 2020, 357, 143-151.	2.2	12
35	Direct Measure of Electrode Spatial Heterogeneity: Influence of Processing Conditions on Anode Architecture and Performance. ACS Applied Materials & Interfaces, 2020, 12, 55954-55970.	4.0	21
36	Electrochemical Reactivity and Passivation of Silicon Thin-Film Electrodes in Organic Carbonate Electrolytes. ACS Applied Materials & Interfaces, 2020, 12, 40879-40890.	4.0	42

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37	Catalytic Activity of Tiâ€based MXenes for the Hydrogenation of Furfural. ChemCatChem, 2020, 12, 5733-5742.	1.8	20
38	Active Reaction Control of Cu Redox State Based on Real-Time Feedback from In Situ Synchrotron Measurements. Journal of the American Chemical Society, 2020, 142, 18758-18762.	6.6	9
39	Ending the Chase for a Perfect Binder: Role of Surface Chemistry Variation and its Influence on Silicon Anodes. ChemElectroChem, 2020, 7, 3790-3797.	1.7	10
40	Defect-Accommodating Intermediates Yield Selective Low-Temperature Synthesis of YMnO₃ Polymorphs. Inorganic Chemistry, 2020, 59, 13639-13650.	1.9	22
41	Ambient Temperature Graphitization Based on Mechanochemical Synthesis. Angewandte Chemie - International Edition, 2020, 59, 21935-21939.	7.2	32
42	Multi-scale Characterization Study Enabling Deactivation Mechanism in Formed Zeolite Catalyst. Microscopy and Microanalysis, 2020, 26, 1270-1271.	0.2	0
43	Understanding Binderâ€“Silicon Interactions during Slurry Processing. Journal of Physical Chemistry C, 2020, 124, 13479-13494.	1.5	19
44	Investigation on capacity loss mechanisms of lithium-ion pouch cells under mechanical indentation conditions. Journal of Power Sources, 2020, 465, 228314.	4.0	17
45	Role of Surface Acidity in the Surface Stabilization of the High-Voltage Cathode LiNi_{0.6}Mn_{0.2}Co_{0.2}O₂. ACS Omega, 2020, 5, 14968-14975.	1.6	8
46	Intrinsic Chemical Reactivity of Silicon Electrode Materials: Gas Evolution. Chemistry of Materials, 2020, 32, 3199-3210.	3.2	23
47	Influence of Binder Coverage on Interfacial Chemistry of Thin Film LiNi_{0.6}Mn_{0.2}Co_{0.2}O₂ Cathodes. Journal of the Electrochemical Society, 2020, 167, 040521.	1.3	18
48	Intrinsic chemical reactivity of solid-electrolyte interphase components in siliconâ€“lithium alloy anode batteries probed by FTIR spectroscopy. Journal of Materials Chemistry A, 2020, 8, 7897-7906.	5.2	49
49	Toward quantifying capacity losses due to solid electrolyte interphase evolution in silicon thin film batteries. Journal of Chemical Physics, 2020, 152, 084702.	1.2	25
50	The Study of the Binder Poly(acrylic acid) and Its Role in Concomitant Solidâ€“Electrolyte Interphase Formation on Si Anodes. ACS Applied Materials & Interfaces, 2020, 12, 10018-10030.	4.0	44
51	Physical vapor deposition process for engineering Pt based oxygen reduction reaction catalysts on NbOx templated carbon support. Journal of Power Sources, 2020, 451, 227709.	4.0	22
52	Structural Degradation of High Voltage Lithium Nickel Manganese Cobalt Oxide (NMC) Cathodes in Solid-State Batteries and Implications for Next Generation Energy Storage. ACS Applied Energy Materials, 2020, 3, 1768-1774.	2.5	28
53	Investigating the Chemical Reactivity of Lithium Silicate Model SEI Layers. Journal of Physical Chemistry C, 2020, 124, 8153-8161.	1.5	16
54	Highâ€Voltage Performance of Niâ€Rich NCA Cathodes: Linking Operating Voltage with Cathode Degradation. ChemElectroChem, 2019, 6, 5571-5580.	1.7	13

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55	Role of conductive binder to direct solidâ€“electrolyte interphase formation over silicon anodes. Physical Chemistry Chemical Physics, 2019, 21, 17356-17365.	1.3	15
56	Unraveling the Nanoscale Heterogeneity of Solid Electrolyte Interphase Using Tip-Enhanced Raman Spectroscopy. Joule, 2019, 3, 2001-2019.	11.7	99
57	Multi-modal characterization approach to understand proton transport mechanisms in solid oxide fuel cells. Microscopy and Microanalysis, 2019, 25, 2048-2049.	0.2	0
58	Dynamic Lithium Distribution upon Dendrite Growth and Shorting Revealed by Operando Neutron Imaging. ACS Energy Letters, 2019, 4, 2402-2408.	8.8	65
59	Synthesis of metal chloride films: Influence of growth conditions on crystallinity. Thin Solid Films, 2019, 689, 137520.	0.8	3
60	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
61	Probing microstructure and electrolyte concentration dependent cell chemistry <i>via operando</i> small angle neutron scattering. Energy and Environmental Science, 2019, 12, 1866-1877.	15.6	36
62	AuPd-nNiO as an effective catalyst for the base-free oxidation of HMF under mild reaction conditions. Green Chemistry, 2019, 21, 4090-4099.	4.6	62
63	Interpreting Electrochemical and Chemical Sodiation Mechanisms and Kinetics in Tin Antimony Battery Anodes Using <i>in Situ</i> Transmission Electron Microscopy and Computational Methods. ACS Applied Energy Materials, 2019, 2, 3578-3586.	2.5	14
64	Understanding the Low-Voltage Hysteresis of Anionic Redox in Na₂Mn₃O₇. Chemistry of Materials, 2019, 31, 3756-3765.	3.2	112
65	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
66	Guanidinium-Based Ionic Covalent Organic Framework for Rapid and Selective Removal of Toxic Cr(VI) Oxoanions from Water. Environmental Science & Technology, 2019, 53, 878-883.	4.6	101
67	Metastable Li_{1+Î´}Mn₂O₄ (0 â‰ Î´ â‰ 1) Spinel Phases Revealed by in Operando Neutron Diffraction and First-Principles Calculations. Chemistry of Materials, 2019, 31, 124-134.	3.2	28
68	Shear Thickening Electrolyte Built from Sterically Stabilized Colloidal Particles. ACS Applied Materials & Interfaces, 2018, 10, 9424-9434.	4.0	19
69	Si Oxidation and H₂ Gassing During Aqueous Slurry Preparation for Li-Ion Battery Anodes. Journal of Physical Chemistry C, 2018, 122, 9746-9754.	1.5	23
70	Aromatic Polyimide/Graphene Composite Organic Cathodes for Fast and Sustainable Lithiumâ€Ion Batteries. ChemSusChem, 2018, 11, 763-772.	3.6	58
71	Accelerating Membraneâ€based CO₂ Separation by Soluble Nanoporous Polymer Networks Produced by Mechanochemical Oxidative Coupling. Angewandte Chemie - International Edition, 2018, 57, 2816-2821.	7.2	44
72	Accelerating Membraneâ€based CO₂ Separation by Soluble Nanoporous Polymer Networks Produced by Mechanochemical Oxidative Coupling. Angewandte Chemie, 2018, 130, 2866-2871.	1.6	10

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73	Influence of Nonstoichiometry on Proton Conductivity in Thin-Film Yttrium-Doped Barium Zirconate. ACS Applied Materials & Interfaces, 2018, 10, 4816-4823.	4.0	18
74	Impact of Fluorination on Phase Stability, Crystal Chemistry, and Capacity of LiCoMnO₄ High Voltage Spinels. ACS Applied Energy Materials, 2018, 1, 715-724.	2.5	10
75	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.	4.0	57
76	The Influence of Local Distortions on Proton Mobility in Acceptor Doped Perovskites. Chemistry of Materials, 2018, 30, 4919-4925.	3.2	40
77	Synthesis and Electrochemical and Structural Investigations of Oxidatively Stable Li₂MoO₃ and <i>x</i>Li₂MoO₃Â·(1 â€“) Tj ETQq1 1 0.784314 rg BT /Overlock 10 Tf	3.2	23
78	Silicon Surface Tethered Polymer as Artificial Solid Electrolyte Interface. Scientific Reports, 2018, 8, 11549.	1.6	25
79	Resolving the Amorphous Structure of Lithium Phosphorus Oxynitride (Lipon). Journal of the American Chemical Society, 2018, 140, 11029-11038.	6.6	99
80	Energetics of Na⁺Transport through the Electrode/Cathode Interface in Single Solvent Electrolytes. Journal of the Electrochemical Society, 2017, 164, A580-A586.	1.3	21
81	A sodiumâ€“aluminum hybrid battery. Journal of Materials Chemistry A, 2017, 5, 6589-6596.	5.2	25
82	Lithium Transport in an Amorphous Li_{<i>x</i>}Si Anode Investigated by Quasi-elastic Neutron Scattering. Journal of Physical Chemistry C, 2017, 121, 11083-11088.	1.5	15
83	Superacid-promoted synthesis of highly porous hypercrosslinked polycarbazoles for efficient CO₂ capture. Chemical Communications, 2017, 53, 7645-7648.	2.2	32
84	Rational Design of Lithiumâ€“Sulfur Battery Cathodes Based on Experimentally Determined Maximum Active Material Thickness. Journal of the American Chemical Society, 2017, 139, 9229-9237.	6.6	38
85	Taming interfacial electronic properties of platinum nanoparticles on vacancy-abundant boron nitride nanosheets for enhanced catalysis. Nature Communications, 2017, 8, 15291.	5.8	200
86	Lithium Vanadium Oxide (Li_{1.1}V₃O₈) Coated with Amorphous Lithium Phosphorous Oxynitride (LiPON): Role of Material Morphology and Interfacial Structure on Resulting Electrochemistry. Journal of the Electrochemical Society, 2017, 164, A1503-A1513.	1.3	9
87	Nanostructured carbon electrocatalyst supports for intermediate-temperature fuel cells: Single-walled versus multi-walled structures. Journal of Power Sources, 2017, 337, 145-151.	4.0	12
88	Shear Thickening Electrolytes for High Impact Resistant Batteries. ACS Energy Letters, 2017, 2, 2084-2088.	8.8	37
89	Predictive Design of Shear-Thickening Electrolytes for Safety Considerations. Journal of the Electrochemical Society, 2017, 164, A2547-A2551.	1.3	13
90	Solid-State Synthesis of Conjugated Nanoporous Polycarbazoles. ACS Macro Letters, 2017, 6, 1056-1059.	2.3	42

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91	Chemistry of Sputter-Deposited Lithium Sulfide Films. Journal of the American Chemical Society, 2017, 139, 10669-10676.	6.6	26
92	Determination of the Solid Electrolyte Interphase Structure Grown on a Silicon Electrode Using a Fluoroethylene Carbonate Additive. Scientific Reports, 2017, 7, 6326.	1.6	157
93	Lithium malonatoborate additives enabled stable cycling of 5 V lithium metal and lithium ion batteries. Nano Energy, 2017, 40, 9-19.	8.2	72
94	Neutron vibrational spectroscopic studies of novel tire-derived carbon materials. Physical Chemistry Chemical Physics, 2017, 19, 22256-22262.	1.3	8
95	Bottom up synthesis of boron-doped graphene for stable intermediate temperature fuel cell electrodes. Carbon, 2017, 123, 605-615.	5.4	23
96	2Flux growth and characterization of Ce-substituted <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0047.gif" overflow="scroll"><mml:mrow><mml:msub><mml:mrow><mml:mi>Nd</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></m mathvariant="normal">B</mml:mi></mml:mrow></mml:math> single crystals. Journal of Magnetism and Magnetic Materials, 2017, 434, 1-9.	1.0	36
97	A Novel Electrolyte Salt Additive for Lithiumâ€ion Batteries with Voltages Greater than 4.7 V. Advanced Energy Materials, 2017, 7, 1601397.	10.2	103
98	In situ Nanoscale Imaging and Spectroscopy of Energy Storage Materials. Microscopy and Microanalysis, 2017, 23, 1964-1965.	0.2	0
99	Amorphous alumina thin films deposited on titanium: Interfacial chemistry and thermal oxidation barrier properties. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 470-480.	0.8	7
100	Evaluating the solid electrolyte interphase formed on silicon electrodes: a comparison of ex situ X-ray photoelectron spectroscopy and in situ neutron reflectometry. Physical Chemistry Chemical Physics, 2016, 18, 13927-13940.	1.3	80
101	Rational Design of Bi Nanoparticles for Efficient Electrochemical CO₂ Reduction: The Elucidation of Size and Surface Condition Effects. ACS Catalysis, 2016, 6, 6255-6264.	5.5	212
102	<i>In Situ</i> Doping Strategy for the Preparation of Conjugated Triazine Frameworks Displaying Efficient CO₂ Capture Performance. Journal of the American Chemical Society, 2016, 138, 11497-11500.	6.6	200
103	Characterisation of gold catalysts. Chemical Society Reviews, 2016, 45, 4953-4994.	18.7	140
104	The confinement effect on the activity of Au NPs in polyol oxidation. Catalysis Science and Technology, 2016, 6, 598-601.	2.1	20
105	Conduction below 100ÂÂ°C in nominal Li6ZnNb4O14. Journal of Materials Science, 2016, 51, 854-860.	1.7	5
106	The Cell-in-Series Method: A Technique for Accelerated Electrode Degradation in Redox Flow Batteries. Journal of the Electrochemical Society, 2016, 163, A5202-A5210.	1.3	54
107	Elucidating the Phase Transformation of Li₄Ti₅O₁₂ Lithiation at the Nanoscale. ACS Nano, 2016, 10, 4312-4321.	7.3	144
108	Depressing the hydrogenation and decomposition reaction in H₂O₂ synthesis by supporting AuPd on oxygen functionalized carbon nanofibers. Catalysis Science and Technology, 2016, 6, 694-697.	2.1	20

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109	Low-Thermal-Budget Photonic Processing of Highly Conductive Cu Interconnects Based on CuO Nanoinks: Potential for Flexible Printed Electronics. ACS Applied Materials & Interfaces, 2016, 8, 2441-2448.	4.0	83
110	Preparation and CO2 adsorption properties of soft-templated mesoporous carbons derived from chestnut tannin precursors. Microporous and Mesoporous Materials, 2016, 222, 94-103.	2.2	86
111	Type I Clathrates as Novel Silicon Anodes: An Electrochemical and Structural Investigation. Advanced Science, 2015, 2, 1500057.	5.6	30
112	Polymerized Ionic Networks with High Charge Density: Quasiâ€Solid Electrolytes in Lithiumâ€Metal Batteries. Advanced Materials, 2015, 27, 8088-8094.	11.1	110
113	Acidâ€Functionalized Mesoporous Carbon: An Efficient Support for Rutheniumâ€Catalyzed Î³â€Valerolactone Production. ChemSusChem, 2015, 8, 2520-2528.	3.6	58
114	PdH_{<i>x</i>} Entrapped in a Covalent Triazine Framework Modulates Selectivity in Glycerol Oxidation. ChemCatChem, 2015, 7, 2149-2154.	1.8	30
115	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
116	Vapor Synthesis and Thermal Modification of Supportless Platinumâ€"Ruthenium Nanotubes and Application as Methanol Electrooxidation Catalysts. ACS Applied Materials & Interfaces, 2015, 7, 10115-10124.	4.0	16
117	The electrochemical reactions of SnO2 with Li and Na: A study using thin films and mesoporous carbons. Journal of Power Sources, 2015, 284, 1-9.	4.0	27
118	Lithium salts for advanced lithium batteries: Liâ€"metal, Liâ€"O₂, and Liâ€"S. Energy and Environmental Science, 2015, 8, 1905-1922.	15.6	460
119	Role of precursor chemistry in the direct fluorination to form titanium based conversion anodes for lithium ion batteries. RSC Advances, 2015, 5, 88876-88885.	1.7	14
120	Evaluation of the physi- and chemisorption of hydrogen in alkali (Na, Li) doped fullerenes. International Journal of Hydrogen Energy, 2015, 40, 2710-2716.	3.8	29
121	Nanoporous Ionic Organic Networks: Stabilizing and Supporting Gold Nanoparticles for Catalysis. Nano Letters, 2015, 15, 823-828.	4.5	132
122	Correlating Local Structure with Electrochemical Activity in Li₂MnO₃. Journal of Physical Chemistry C, 2015, 119, 18022-18029.	1.5	26
123	Constructing Hierarchical Interfaces: TiO₂-Supported PtFeâ€"FeO_{<i>x</i>} Nanowires for Room Temperature CO Oxidation. Journal of the American Chemical Society, 2015, 137, 10156-10159.	6.6	86
124	High performance electrodes in vanadium redox flow batteries through oxygen-enriched thermal activation. Journal of Power Sources, 2015, 294, 333-338.	4.0	189
125	Water desalination using nanoporous single-layer graphene. Nature Nanotechnology, 2015, 10, 459-464.	15.6	1,372
126	Superior Conductive Solid-like Electrolytes: Nanoconfining Liquids within the Hollow Structures. Nano Letters, 2015, 15, 3398-3402.	4.5	115

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127	Identifying the Role of Nâ€Heteroatom Location in the Activity of Metal Catalysts for Alcohol Oxidation. ChemCatChem, 2015, 7, 1338-1346.	1.8	22
128	A study of perfluorocarboxylate ester solvents for lithium ion battery electrolytes. Journal of Power Sources, 2015, 299, 434-442.	4.0	6
129	An efficient low-temperature route to nitrogen-doping and activation of mesoporous carbons for CO₂ capture. Chemical Communications, 2015, 51, 17261-17264.	2.2	47
130	A POMâ€“organic framework anode for Li-ion battery. Journal of Materials Chemistry A, 2015, 3, 22989-22995.	5.2	58
131	Direct Determination of Solid-Electrolyte Interphase Thickness and Composition as a Function of State of Charge on a Silicon Anode. Journal of Physical Chemistry C, 2015, 119, 20339-20349.	1.5	127
132	Understanding the Role of NH₄F and Al₂O₃ Surface Co-modification on Lithium-Excess Layered Oxide Li_{1.2}Ni_{0.2}Mn_{0.6}O₂. ACS Applied Materials & Interfaces, 2015, 7, 19189-19200.	4.0	87
133	Probing battery chemistry with liquid cell electron energy loss spectroscopy. Chemical Communications, 2015, 51, 16377-16380.	2.2	25
134	Soluble Porous Coordination Polymers by Mechanochemistry: From Metalâ€Containing Films/Membranes to Active Catalysts for Aerobic Oxidation. Advanced Materials, 2015, 27, 234-239.	11.1	88
135	Quantitative Electrochemical Measurements Using <i>In Situ</i> ec-S/TEM Devices. Microscopy and Microanalysis, 2014, 20, 452-461.	0.2	80
136	Ambient Lithiumâ€“SO₂ Batteries with Ionic Liquids as Electrolytes. Angewandte Chemie - International Edition, 2014, 53, 2099-2103.	7.2	62
137	Synthesis and Characterization of Lithium Bis(fluoromalonato)borate for Lithiumâ€Ion Battery Applications. Advanced Energy Materials, 2014, 4, 1301368.	10.2	43
138	Dry Synthesis of Lithium Intercalated Graphite Powder and Fiber. Journal of the Electrochemical Society, 2014, 161, A614-A619.	1.3	15
139	The electrochemical reactions of pure indium with Li and Na: Anomalous electrolyte decomposition, benefits of FEC additive, phase transitions and electrode performance. Journal of Power Sources, 2014, 248, 1105-1117.	4.0	93
140	Hydrogen evolution at the negative electrode of the all-vanadium redox flow batteries. Journal of Power Sources, 2014, 248, 560-564.	4.0	113
141	Thin-Film and Bulk Investigations of LiCoBO₃ as a Li-Ion Battery Cathode. ACS Applied Materials & Interfaces, 2014, 6, 10840-10848.	4.0	14
142	Mixed Polyanion Glass Cathodes: Iron Phosphate Vanadate Glasses. Journal of the Electrochemical Society, 2014, 161, A2210-A2215.	1.3	17
143	The reaction mechanism of FeSb2 as anode for sodium-ion batteries. Physical Chemistry Chemical Physics, 2014, 16, 9538.	1.3	65
144	The local atomic structure and chemical bonding in sodium tin phases. Journal of Materials Chemistry A, 2014, 2, 18959-18973.	5.2	31

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145	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
146	Directed Synthesis of Nanoporous Carbons from Taskâ€Specific Ionic Liquid Precursors for the Adsorption of CO₂. ChemSusChem, 2014, 7, 3284-3289.	3.6	21
147	In Situ Determination of the Liquid/Solid Interface Thickness and Composition for the Li Ion Cathode LiMn_{1.5}Ni_{0.5}O₄. ACS Applied Materials & Interfaces, 2014, 6, 18569-18576.	4.0	68
148	Direct measurement of the chemical reactivity of silicon electrodes with LiPF6-based battery electrolytes. Chemical Communications, 2014, 50, 3081.	2.2	56
149	Ionic liquid derived carbons as highly efficient oxygen reduction catalysts: first elucidation of pore size distribution dependent kinetics. Chemical Communications, 2014, 50, 1469-1471.	2.2	49
150	Unraveling manganese dissolution/deposition mechanisms on the negative electrode in lithium ion batteries. Physical Chemistry Chemical Physics, 2014, 16, 10398.	1.3	59
151	Lab-in-a-Shell: Encapsulating Metal Clusters for Size Sieving Catalysis. Journal of the American Chemical Society, 2014, 136, 11260-11263.	6.6	152
152	Probing the Mechanism of Sodium Ion Insertion into Copper Antimony Cu₂Sb Anodes. Journal of Physical Chemistry C, 2014, 118, 7856-7864.	1.5	64
153	Catalytic CO Oxidation Over Gold Nanoparticles: Support Modification by Monolayer- and Submonolayer-Dispersed Sb2O3. Catalysis Letters, 2014, 144, 912-919.	1.4	3
154	Sodium Manganese Oxide Thin Films as Cathodes for Na-Ion Batteries. ECS Transactions, 2014, 58, 47-57.	0.3	10
155	Effect of Morphology and Manganese Valence on the Voltage Fade and Capacity Retention of Li[Li_{2/12}Ni_{3/12}Mn_{7/12}]O₂. ACS Applied Materials & Interfaces, 2014, 6, 18868-18877.	4.0	76
156	Gold nanocatalysts supported on heterostructured PbSO4-MCF mesoporous materials for CO oxidation. Catalysis Communications, 2014, 46, 234-237.	1.6	5
157	Degradation mechanisms of lithium-rich nickel manganese cobalt oxide cathode thin films. RSC Advances, 2014, 4, 23364.	1.7	45
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