Bruce S Dunn

List of Publications by Citations

231 papers	47,134 citations	70 h-index	217 g-index
243 ext. papers	54,885 ext. citations	12.3 avg, IF	8.09 L-index

#	Paper	IF	Citations
231	Electrical energy storage for the grid: a battery of choices. *Science*, **2011**, 334, 928-35	33.3	9187
230	Materials science. Where do batteries end and supercapacitors begin?. *Science*, **2014**, 343, 1210-1	33.3	3680
229	Pseudocapacitive oxide materials for high-rate electrochemical energy storage. *Energy and Environmental Science*, **2014**, 7, 1597	35.4	3208
228	High-rate electrochemical energy storage through Li+ intercalation pseudocapacitance. *Nature Materials*, **2013**, 12, 518-22	27	3039
227	Pseudocapacitive Contributions to Electrochemical Energy Storage in TiO2 (Anatase) Nanoparticles. *Journal of Physical Chemistry C*, **2007**, 111, 14925-14931	3.8	2814
226	Ordered mesoporous alpha-MoO3 with iso-oriented nanocrystalline walls for thin-film pseudocapacitors. *Nature Materials*, **2010**, 9, 146-51	27	2261
225	Design and Mechanisms of Asymmetric Supercapacitors. *Chemical Reviews*, **2018**, 118, 9233-9280	68.1	1396
224	Continuous formation of supported cubic and hexagonal mesoporous films by sol□gel dip-coating. *Nature*, **1997**, 389, 364-368	50.4	1281
223	Oxygen vacancies enhance pseudocapacitive charge storage properties of MoO. *Nature Materials*, **2017**, 16, 454-460	27	1164
222	Three-dimensional battery architectures. *Chemical Reviews*, **2004**, 104, 4463-92	68.1	1038
221	Multidimensional materials and device architectures for future hybrid energy storage. *Nature Communications*, **2016**, 7, 12647	17.4	992
220	Three-dimensional holey-graphene/niobia composite architectures for ultrahigh-rate energy storage. *Science*, **2017**, 356, 599-604	33.3	965
219	High-performance supercapacitors based on intertwined CNT/V2O5 nanowire nanocomposites. *Advanced Materials*, **2011**, 23, 791-5	24	715
218	Templated nanocrystal-based porous TiO(2) films for next-generation electrochemical capacitors. *Journal of the American Chemical Society*, **2009**, 131, 1802-9	16.4	713
217	High-performance sodium-ion pseudocapacitors based on hierarchically porous nanowire composites. *ACS Nano*, **2012**, 6, 4319-27	16.7	574
216	Sol-gel encapsulation methods for biosensors. *Analytical Chemistry*, **1994**, 66, 1120A-1127A	7.8	571
215	Achieving high energy density and high power density with pseudocapacitive materials. *Nature Reviews Materials*, **2020**, 5, 5-19	73.3	542

214	Polymer-modified halide perovskite films for efficient and stable planar heterojunction solar cells. *Science Advances*, **2017**, 3, e1700106	14.3	443
213	Porous One-Dimensional Nanomaterials: Design, Fabrication and Applications in Electrochemical Energy Storage. *Advanced Materials*, **2017**, 29, 1602300	24	435
212	Physical Interpretations of Nyquist Plots for EDLC Electrodes and Devices. *Journal of Physical Chemistry C*, **2018**, 122, 194-206	3.8	428
211	The Effect of Crystallinity on the Rapid Pseudocapacitive Response of Nb2O5. *Advanced Energy Materials*, **2012**, 2, 141-148	21.8	399
210	High performance pseudocapacitor based on 2D layered metal chalcogenide nanocrystals. *Nano Letters*, **2015**, 15, 1911-7	11.5	392
209	Mesoporous MoS2 as a Transition Metal Dichalcogenide Exhibiting Pseudocapacitive Li and Na-Ion Charge Storage. *Advanced Energy Materials*, **2016**, 6, 1501937	21.8	332
208	Electrically conductive oxide aerogels: newmaterials in electrochemistry. *Journal of Materials Chemistry*, **2001**, 11, 963-980		315
207	High-Performance Supercapacitors Based on Nanocomposites of Nb2O5 Nanocrystals and Carbon Nanotubes. *Advanced Energy Materials*, **2011**, 1, 1089-1093	21.8	285
206	Conformal Lithium Fluoride Protection Layer on Three-Dimensional Lithium by Nonhazardous Gaseous Reagent Freon. *Nano Letters*, **2017**, 17, 3731-3737	11.5	270
205	Pseudocapacitive contributions to charge storage in highly ordered mesoporous group V transition metal oxides with iso-oriented layered nanocrystalline domains. *Journal of the American Chemical Society*, **2010**, 132, 6982-90	16.4	263
204	Sulfide Solid Electrolytes for Lithium Battery Applications. *Advanced Energy Materials*, **2018**, 8, 1800933	21.8	252
203	Three-dimensional electrodes and battery architectures. *MRS Bulletin*, **2011**, 36, 523-531	3.2	242
202	Tuning Molecular Interactions for Highly Reproducible and Efficient Formamidinium Perovskite Solar Cells via Adduct Approach. *Journal of the American Chemical Society*, **2018**, 140, 6317-6324	16.4	233
201	Synthesis and electrochromic properties ofmesoporous tungsten oxide. *Journal of Materials Chemistry*, **2001**, 11, 92-97		224
200	Enhancing pseudocapacitive charge storage in polymer templated mesoporous materials. *Accounts of Chemical Research*, **2013**, 46, 1113-24	24.3	217
199	Probes of Pore Environment and Molecule□Matrix Interactions in Sol□el Materials. *Chemistry of Materials*, **1997**, 9, 2280-2291	9.6	211
198	Electrode Degradation in Lithium-Ion Batteries. *ACS Nano*, **2020**, 14, 1243-1295	16.7	209
197	A fundamental look at electrocatalytic sulfur reduction reaction. *Nature Catalysis*, **2020**, 3, 762-770	36.5	206

196	Understanding and applying coulombic efficiency in lithium metal batteries. *Nature Energy*, **2020**, 5, 561-568	52.9	201
195	Mesoporous LixMn2O4 Thin Film Cathodes for Lithium-Ion Pseudocapacitors. *ACS Nano*, **2016**, 10, 7572-81	15.7	194
194	Electrochemical Kinetics of Nanostructured Nb2O5Electrodes. *Journal of the Electrochemical Society*, **2014**, 161, A718-A725	3.9	188
193	Pseudocapacitive Charge Storage in Thick Composite MoS2 Nanocrystal-Based Electrodes. *Advanced Energy Materials*, **2017**, 7, 1601283	21.8	178
192	Hierarchical battery electrodes based on inverted opal structures. *Journal of Materials Chemistry*, **2002**, 12, 2859-2861		176
191	Enzymatic activity of glucose oxidase encapsulated in transparent glass by the sol-gel method. *Chemistry of Materials*, **1992**, 4, 495-497	9.6	174
190	Synthesis and Charge Storage Properties of Hierarchical Niobium Pentoxide/Carbon/Niobium Carbide (MXene) Hybrid Materials. *Chemistry of Materials*, **2016**, 28, 3937-3943	9.6	172
189	High-Performance Supercapacitors Based on Hierarchically Porous Graphite Particles. *Advanced Energy Materials*, **2011**, 1, 551-556	21.8	171
188	Fabrication and properties of a carbon/polypyrrole three-dimensional microbattery. *Journal of Power Sources*, **2008**, 178, 795-800	8.9	158
187	Protection of lithium metal surfaces using tetraethoxysilane. *Journal of Materials Chemistry*, **2011**, 21, 1593-1599		157
186	3-D Microbatteries. *Electrochemistry Communications*, **2003**, 5, 120-123	5.1	155
185	A general method to synthesize and sinter bulk ceramics in seconds. *Science*, **2020**, 368, 521-526	33.3	153
184	Creating Lithium-Ion Electrolytes with Biomimetic Ionic Channels in Metal-Organic Frameworks. *Advanced Materials*, **2018**, 30, e1707476	24	146
183	The Development of Pseudocapacitive Properties in Nanosized-MoO2. *Journal of the Electrochemical Society*, **2015**, 162, A5083-A5090	3.9	142
182	Controlled placement of luminescent molecules and polymers in mesostructured sol--gel thin films. *Journal of the American Chemical Society*, **2001**, 123, 1248-9	16.4	140
181	Synthesis of sol-gel encapsulated heme proteins with chemical sensing properties. *Journal of Materials Chemistry*, **1999**, 9, 45-53		127
180	Sodium Vanadium Fluorophosphates (NVOPF) Array Cathode Designed for High-Rate Full Sodium Ion Storage Device. *Advanced Energy Materials*, **2018**, 8, 1800058	21.8	124
179	Patterned Hexagonal Arrays of Living Cells in Sol□Gel Silica Films. *Journal of the American Chemical Society*, **2000**, 122, 6488-6489	16.4	124

178	Multiply doped nanostructured silicate sol-gel thin films: spatial segregation of dopants, energy transfer, and distance measurements. *Journal of the American Chemical Society*, **2005**, 127, 2656-65	16.4	121
177	On the correlation between mechanical flexibility, nanoscale structure, and charge storage in periodic mesoporous CeO(2) thin films. *ACS Nano*, **2010**, 4, 967-77	16.7	112
176	Naphthalene Diimide Based Materials with Adjustable Redox Potentials: Evaluation for Organic Lithium-Ion Batteries. *Chemistry of Materials*, **2014**, 26, 7151-7157	9.6	104
175	Synthesis and Electrochemical Properties of Vanadium Oxide Aerogels Prepared by a Freeze-Drying Process. *Journal of the Electrochemical Society*, **2004**, 151, A666	3.9	104
174	The Relationship Between Nanoscale Structure and Electrochemical Properties of Vanadium Oxide Nanorolls. *Advanced Functional Materials*, **2004**, 14, 1197-1204	15.6	94
173	High Areal Energy Density 3D Lithium-Ion Microbatteries. *Joule*, **2018**, 2, 1187-1201	27.8	86
172	In Situ Fluorescence Probing of the Chemical Changes during Sol□Gel Thin Film Formation. *Journal of the American Ceramic Society*, **1995**, 78, 1640-1648	3.8	86
171	In Situ Luminescence Probing of the Chemical and Structural Changes during Formation of Dip-Coated Lamellar Phase Sodium Dodecyl Sulfate Sol□Gel Thin Films. *Journal of the American Chemical Society*, **2000**, 122, 3739-3745	16.4	82
170	Preparation of High-Tc Superconducting Oxides by the Amorphous Citrate Process. *Journal of the American Ceramic Society*, **1987**, 70, C-375-C-377	3.8	80
169	Development of a Three-Dimensional Bioengineering Technology to Generate Lung Tissue for Personalized Disease Modeling. *Stem Cells Translational Medicine*, **2017**, 6, 622-633	6.9	79
168	Challenges for and Pathways toward Li-Metal-Based All-Solid-State Batteries. *ACS Energy Letters*,1399-1404	20.1	78
167	Stabilization of Creatine Kinase Encapsulated in Silicate Sol□Gel Materials and Unusual Temperature Effects on Its Activity. *Chemistry of Materials*, **2002**, 14, 4300-4306	9.6	77
166	In Situ Probing by Fluorescence Spectroscopy of the Formation of Continuous Highly-Ordered Lamellar-Phase Mesostructured Thin Films. *Langmuir*, **1998**, 14, 7331-7333	4	77
165	Fabrication, Testing, and Simulation of All-Solid-State Three-Dimensional Li-Ion Batteries. *ACS Applied Materials & Interfaces*, **2016**, 8, 32385-32391	9.5	76
164	Two-Photon Photographic Production of Three-Dimensional Metallic Structures within a Dielectric Matrix. *Advanced Materials*, **2000**, 12, 1438-1441	24	76
163	Steric Impediment of Ion Migration Contributes to Improved Operational Stability of Perovskite Solar Cells. *Advanced Materials*, **2020**, 32, e1906995	24	76
162	V2O5 aerogel as a versatile host for metal ions. *Journal of Non-Crystalline Solids*, **2004**, 350, 67-72	3.9	73
161	Protection of lithium metal surfaces using chlorosilanes. *Langmuir*, **2007**, 23, 11597-602	4	70

160	Nanostructured Pseudocapacitors Based on Atomic Layer Deposition of V2O5 onto Conductive Nanocrystal-based Mesoporous ITO Scaffolds. *Advanced Functional Materials*, **2014**, 24, 6717-6728	15.6	68
159	Synthesis and electrochemical properties of niobium pentoxide deposited on layered carbide-derived carbon. *Journal of Power Sources*, **2015**, 274, 121-129	8.9	64
158	Lithium-ion storage properties of titanium oxide nanosheets. *Materials Horizons*, **2014**, 1, 219-223	14.4	61
157	Ambient Pressure Synthesis of Aerogel-Like Vanadium Oxide and Molybdenum Oxide. *Materials Research Bulletin*, **1998**, 33, 561-567	5.1	61
156	Nanostructured Sol-Gel Electrodes for Biofuel Cells. *Journal of the Electrochemical Society*, **2007**, 154, A140	3.9	61
155	Molecules in glass: probes, ordered assemblies, and functional materials. *Accounts of Chemical Research*, **2007**, 40, 747-55	24.3	60
154	Synthesis of ion conducting LixAlySizO thin films by atomic layer deposition. *Journal of Materials Chemistry A*, **2014**, 2, 9566-9573	13	58
153	Synthesis, Densification, and Conductivity Characteristics of BICUVOX Oxygen-Ion-Conducting Ceramics. *Journal of the American Ceramic Society*, **2005**, 80, 2563-2568	3.8	57
152	Physical Interpretations of Electrochemical Impedance Spectroscopy of Redox Active Electrodes for Electrical Energy Storage. *Journal of Physical Chemistry C*, **2018**, 122, 24499-24511	3.8	57
151	Designing Pseudocapacitance for NbO/Carbide-Derived Carbon Electrodes and Hybrid Devices. *Langmuir*, **2017**, 33, 9407-9415	4	56
150	Batteries. Opening the window for aqueous electrolytes. *Science*, **2015**, 350, 918	33.3	56
149	Electrochemical properties of vanadium oxide aerogels. *Science and Technology of Advanced Materials*, **2003**, 4, 3-11	7.1	56
148	Photonic Materials by the Sol-Gel Process. *Journal of the Ceramic Society of Japan*, **1991**, 99, 878-893		56
147	NaTiO Nanoplatelets and Nanosheets Derived from a Modified Exfoliation Process for Use as a High-Capacity Sodium-Ion Negative Electrode. *ACS Applied Materials & Interfaces*, **2017**, 9, 1416-1425	8.5	54
146	Nanoporous Tin with a Granular Hierarchical Ligament Morphology as a Highly Stable Li-Ion Battery Anode. *ACS Applied Materials & Interfaces*, **2017**, 9, 293-303	9.5	50
145	In Situ Fluorescence Probing of Molecular Mobility and Chemical Changes during Formation of Dip-Coated Sol□el Silica Thin Films. *Chemistry of Materials*, **2000**, 12, 231-235	9.6	50
144	Next generation pseudocapacitor materials from sol□el derived transition metal oxides. *Journal of Sol-Gel Science and Technology*, **2011**, 57, 330-335	2.3	49
143	Lithium-Ion Insertion Properties of Solution-Exfoliated Germanane. *ACS Nano*, **2017**, 11, 7995-8001	16.7	48

142	Kinetics of Anode Reactions for a Yeast-Catalysed Microbial Fuel Cell. *Fuel Cells*, **2009**, 9, 44-52	2.9	47
141	Dual redox mediators accelerate the electrochemical kinetics of lithium-sulfur batteries. *Nature Communications*, **2020**, 11, 5215	17.4	47
140	Molybdenum Polysulfide Chalcogels as High-Capacity, Anion-Redox-Driven Electrode Materials for Li-Ion Batteries. *Chemistry of Materials*, **2016**, 28, 8357-8365	9.6	46
139	High-rate capability of Na2FePO4F nanoparticles by enhancing surface carbon functionality for Na-ion batteries. *Journal of Materials Chemistry A*, **2017**, 5, 18707-18715	13	46
138	Characterization of gold nanoparticle binding to microtubule filaments. *Materials Science and Engineering C*, **2010**, 30, 20-26	8.3	46
137	A Sol-Gel Solid Electrolyte with High Lithium Ion Conductivity. *Chemistry of Materials*, **1997**, 9, 1004-1011	9.6	46
136	Monolithic Flexible Supercapacitors Integrated into Single Sheets of Paper and Membrane via Vapor Printing. *Advanced Materials*, **2017**, 29, 1606091	24	43
135	Pseudocapacitive Vanadium-based Materials toward High-Rate Sodium-Ion Storage. *Energy and Environmental Materials*, **2020**, 3, 221-234	13	43
134	Structural and electrochemical properties of amorphous and crystalline molybdenum oxide aerogels. *Solid State Ionics*, **2001**, 144, 31-40	3.3	42
133	Gold-Coated M13 Bacteriophage as a Template for Glucose Oxidase Biofuel Cells with Direct Electron Transfer. *ACS Nano*, **2016**, 10, 324-32	16.7	41
132	NASICON Na3V2(PO4)3 Enables Quasi-Two-Stage Na+ and Zn2+ Intercalation for Multivalent Zinc Batteries. *Chemistry of Materials*, **2020**, 32, 3028-3035	9.6	40
131	Patternable, Solution-Processed Ionogels for Thin-Film Lithium-Ion Electrolytes. *Joule*, **2017**, 1, 344-358	27.8	39
130	A Metal-Organic Framework with Tetrahedral Aluminate Sites as a Single-Ion Li Solid Electrolyte. *Angewandte Chemie - International Edition*, **2018**, 57, 16683-16687	16.4	39
129	Controlling the Spontaneous Precipitation of Silver Nanoparticles in Sol-Gel Materials. *Journal of Sol-Gel Science and Technology*, **2000**, 19, 249-252	2.3	38
128	Vanadium oxide aerogels: Nanostructured materials for enhanced energy storage. *Comptes Rendus Chimie*, **2010**, 13, 130-141	2.7	37
127	Immunoassays for cortisol using antibody-doped sol□el silica. *Journal of Materials Chemistry*, **2004**, 14, 2311-2316		35
126	Microtubule-based gold nanowires and nanowire arrays. *Small*, **2008**, 4, 1507-15	11	34
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124	Tuning Porosity and Surface Area in Mesoporous Silicon for Application in Li-Ion Battery Electrodes. *ACS Applied Materials & Interfaces*, **2017**, 9, 19063-19073	9.5	33
123	Praseodymium Telluride: A High-Temperature, High-ZT Thermoelectric Material. *Joule*, **2018**, 2, 698-709	27.8	33
122	Inverse opal ceria□zirconia: architectural engineering for heterogeneous catalysis. *Energy and Environmental Science*, **2008**, 1, 484	35.4	33
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120	3D Architectured Anodes for Lithium-Ion Microbatteries with Large Areal Capacity. *Energy Technology*, **2014**, 2, 362-369	3.5	32
119	Application of Poly(3-hexylthiophene-2,5-diyl) as a Protective Coating for High Rate Cathode Materials. *Chemistry of Materials*, **2018**, 30, 2589-2599	9.6	31
118	Nanoscale, conformal polysiloxane thin film electrolytes for three-dimensional battery architectures. *Materials Horizons*, **2015**, 2, 309-314	14.4	29
117	Hexagonal to Lamellar Mesostructural Changes in Silicate Films Caused by Organic Additives. *Chemistry of Materials*, **2002**, 14, 5153-5162	9.6	29
116	Differentiating Double-Layer, Psuedocapacitance, and Battery-like Mechanisms by Analyzing Impedance Measurements in Three Dimensions. *ACS Applied Materials & Interfaces*, **2020**, 12, 14071-14078	9.5	28
115	A three-dimensional human model of the fibroblast activation that accompanies bronchopulmonary dysplasia identifies Notch-mediated pathophysiology. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **2016**, 310, L889-98	5.8	28
114	Low-potential lithium-ion reactivity of vanadium oxide aerogels. *Electrochimica Acta*, **2013**, 88, 530-535	6.7	28
113	Porous Sol□Gel Silicates Containing Gold Particles as Matrices for Surface-EnhancedRaman Spectroscopy. *Journal of Raman Spectroscopy*, **1996**, 27, 775-783	2.3	28
112	Passivating lithium electrodes with trimethylsilylacetylene. *Solid State Ionics*, **2001**, 144, 295-299	3.3	26
111	Micromachining of mesoporous oxide films for microelectromechanical system structures. *Journal of Materials Research*, **2002**, 17, 2121-2129	2.5	26
110	Molecular Motion and Environmental Rigidity in the Framework and Ionic Interface Regions of Mesostructured Silica Thin Films. *Journal of Physical Chemistry B*, **2001**, 105, 10335-10339	3.4	26
109	Programmable devices based on reversible solid-state doping of two-dimensional semiconductors with superionic silver iodide. *Nature Electronics*, **2020**, 3, 630-637	28.4	26
108	Suppression of Electrochemically Driven Phase Transitions in Nanostructured MoS Pseudocapacitors Probed Using Operando X-ray Diffraction. *ACS Nano*, **2019**, 13, 1223-1231	16.7	25
107	Wafer-Scale Black Arsenic□Phosphorus Thin-Film Synthesis Validated with Density Functional Perturbation Theory Predictions. *ACS Applied Nano Materials*, **2018**, 1, 4737-4745	5.6	24

106	High Surface-Area Ceria Aerogel. *Journal of the American Ceramic Society*, **2004**, 87, 1442-1445	3.8	24
105	Simulations and Interpretation of Three-Electrode Cyclic Voltammograms of Pseudocapacitive Electrodes. *Electrochimica Acta*, **2016**, 211, 420-429	6.7	24
104	A Group of Cyclic Siloxane and Silazane Polymer Films as Nanoscale Electrolytes for Microbattery Architectures. *Macromolecules*, **2015**, 48, 5222-5229	5.5	23
103	Multielectron Redox and Insulator-to-Metal Transition upon Lithium Insertion in the Fast-Charging, Wadsley-Roth Phase PNb9O25. *Chemistry of Materials*, **2020**, 32, 4553-4563	9.6	23
102	Biomolecular materials based on sol-gel encapsulated proteins. *Journal of Sol-Gel Science and Technology*, **1994**, 2, 791-795	2.3	23
101	Correlated Polyhedral Rotations in the Absence of Polarons during Electrochemical Insertion of Lithium in ReO3. *ACS Energy Letters*, **2018**, 3, 2513-2519	20.1	23
100	Posttranslational modification of □catenin is associated with pathogenic fibroblastic changes in bronchopulmonary dysplasia. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **2017**, 312, L186-L195	5.8	22
99	High-Performance Solid-State Lithium-Ion Battery with Mixed 2D and 3D Electrodes. *ACS Applied Energy Materials*, **2020**, 3, 8402-8409	6.1	22
98	iCVD Cyclic Polysiloxane and Polysilazane as Nanoscale Thin-Film Electrolyte: Synthesis and Properties. *Macromolecular Rapid Communications*, **2016**, 37, 446-52	4.8	22
97	Isothermal calorimeter for measurements of time-dependent heat generation rate in individual supercapacitor electrodes. *Journal of Power Sources*, **2018**, 374, 257-268	8.9	22
96	Optical characteristics of SiO2 photonic band-gap crystal with ferroelectric perovskite oxide. *Applied Physics Letters*, **2002**, 81, 4440-4442	3.4	21
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91	3D Architectures for Batteries and Electrodes. *Advanced Energy Materials*, **2020**, 10, 2002457	21.8	18
90	Mechanical properties of aerogel-like thin films used for MEMS. *Journal of Micromechanics and Microengineering*, **2004**, 14, 681-686	2	17
89	Nanoconfined Proteins and Enzymes: Sol□el-Based Biomolecular Materials. *ACS Symposium Series* , **1996**, 351-365	0.4	17

88	Enzymatic activity of oxalate oxidase and kinetic measurements by optical methods in transparent sol-gel monoliths. *Journal of Sol-Gel Science and Technology*, **1996**, 7, 117-121	2.3	17
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85	Ensemble multivariate analysis to improve identification of articular cartilage disease in noisy Raman spectra. *Journal of Biophotonics*, **2015**, 8, 555-66	3.1	16
84	Strategies for Spatially Separating Molecules in Mesostructured Sol-Gel Silicate Films. *Journal of Sol-Gel Science and Technology*, **2003**, 26, 571-575	2.3	16
83	Dihexyl-Substituted Poly(3,4-Propylenedioxythiophene) as a Dual Ionic and Electronic Conductive Cathode Binder for Lithium-Ion Batteries. *Chemistry of Materials*, **2020**, 32, 9176-9189	9.6	16
82	NMR Relaxometry and Diffusometry Analysis of Dynamics in Ionic Liquids and Ionogels for Use in Lithium-Ion Batteries. *Journal of Physical Chemistry B*, **2020**, 124, 6843-6856	3.4	16
81	Panoramic View of Electrochemical Pseudocapacitor and Organic Solar Cell Research in Molecularly Engineered Energy Materials (MEEM). *Journal of Physical Chemistry C*, **2014**, 118, 19505-19523	3.8	15
80	Tuning ligament shape in dealloyed nanoporous tin and the impact of nanoscale morphology on its applications in Na-ion alloy battery anodes. *Physical Review Materials*, **2018**, 2,	3.2	15
79	Synthesis and Properties of a Photopatternable Lithium-Ion Conducting Solid Electrolyte. *Advanced Materials*, **2018**, 30, 1703772	24	15
78	Sol–gel encapsulated lithium polysulfide catholyte and its application in lithium–sulfur batteries. *Materials Horizons*, **2016**, 3, 137-144	14.4	14
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75	In situ monitoring of the electrochemically induced phase transition of thermodynamically metastable 1T-MoS at nanoscale. *Nanoscale*, **2020**, 12, 9246-9254	7.7	12
74	Thick Transparent Nanoparticle-Based Mesoporous Silica Monolithic Slabs for Thermally Insulating Window Materials. *ACS Applied Nano Materials*, **2019**, 2, 4547-4555	5.6	12
73	Electrochemical Characterization of Na-Ion Charge-Storage Properties for Nanostructured NaTi2(PO4)3as a Function of Crystalline Order. *Journal of the Electrochemical Society*, **2017**, 164, A2124-A2130	3.9	12
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67	A high-energy-density quasi-solid-state carbon nanotube electrochemical double-layer capacitor with ionogel electrolyte. *Translational Materials Research*, **2015**, 2, 015001		9
66	Development of a Three-Dimensional Bioengineering Technology to Generate Lung Tissue for Personalized Disease Modeling. *Current Protocols in Stem Cell Biology*, **2018**, 46, e56	2.8	9
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64	Three-dimensional microbatteries for MEMS/NEMS technology **2010**,		9
63	Solid-State Phase Equilibria in the ZnS-Ga2S3 System. *Journal of the American Ceramic Society*, **1990**, 73, 1544-1547	3.8	9
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60	Amorphous VO : A Pseudocapacitive Platform for High-Rate Symmetric Batteries. *Advanced Materials*, **2021**, 33, e2103736	24	8
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