

Bruce S Dunn

List of Publications by Year in Descending Order

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

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	Thermodynamics-driven interfacial engineering of alloy-type anode materials. <i>Cell Reports Physical Science</i> , 2022 , 3, 100694	6.1	1
230	Elastic and plastic mechanical properties of nanoparticle-based silica aerogels and xerogels. <i>Microporous and Mesoporous Materials</i> , 2022 , 330, 111569	5.3	2
229	Potentiometric entropy and operando calorimetric measurements reveal fast charging mechanisms in PNB9O25. <i>Journal of Power Sources</i> , 2022 , 520, 230776	8.9	2
228	Transparent silica aerogel slabs synthesized from nanoparticle colloidal suspensions at near ambient conditions on omniphobic liquid substrates. <i>Journal of Colloid and Interface Science</i> , 2022 , 606, 884-897	9.3	1
227	Enhancing the Ionic Conductivity of Poly(3,4-propylenedioxythiophenes) with Oligoether Side Chains for Use as Conductive Cathode Binders in Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2022 , 34, 2672-2686	9.6	6
226	In Situ UV-vis Analysis of Polysulfide Shuttling in Ionic Liquid-Based Li-FeS ₂ Batteries. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 5101-5111	3.8	1
225	Mesoporous MoO ₂ thin films for high rate Li ⁺ storage: Effect of crystallinity and porous structure. <i>Solid State Sciences</i> , 2022 , 106890	3.4	0
224	Investigating the Perovskite AgLaNbO as a High-Rate Negative Electrode for Li-Ion Batteries.. <i>Frontiers in Chemistry</i> , 2022 , 10, 873783	5	0
223	Photopatternable Porous Separators for Micro Electrochemical Energy Storage Systems.. <i>Advanced Materials</i> , 2021 , e2108792	24	0
222	Two-dimensional quantum-sheet films with sub-1.2 nm channels for ultrahigh-rate electrochemical capacitance. <i>Nature Nanotechnology</i> , 2021 ,	28.7	6
221	Electrochemical Modeling of GITT Measurements for Improved Solid-State Diffusion Coefficient Evaluation. <i>ACS Applied Energy Materials</i> , 2021 , 4, 11460-11469	6.1	8
220	Amorphous VO ₂ : A Pseudocapacitive Platform for High-Rate Symmetric Batteries. <i>Advanced Materials</i> , 2021 , 33, e2103736	24	8
219	Siloxane-Modified, Silica-Based Ionogel as a Pseudosolid Electrolyte for Sodium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2021 , 4, 154-163	6.1	3
218	Heat generation in electric double layer capacitors with neat and diluted ionic liquid electrolytes under large potential window between 5 and 80°C. <i>Journal of Power Sources</i> , 2021 , 488, 229368	8.9	5
217	Operando calorimetry informs the origin of rapid rate performance in microwave-prepared TiNb ₂ O ₇ electrodes. <i>Journal of Power Sources</i> , 2021 , 490, 229537	8.9	7
216	Fe-Substituted Sodium γ -Al ₂ O ₃ as a High-Rate Na-Ion Electrode. <i>Chemistry of Materials</i> , 2021 , 33, 6136-6145	6.5	4
215	Plasma enhanced atomic layer deposition of thin film Li _{1+x} Mn _{2-x} O ₄ for realization of all solid-state 3D lithium-ion microbatteries. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2021 , 39, 012408	2.9	3

214	Photopatternable hydroxide ion electrolyte for solid-state micro-supercapacitors. <i>Joule</i> , 2021 , 5, 2466-2478	4.78	8
213	Avoiding dendrite formation by confining lithium deposition underneath Li ₃ N coatings. <i>Journal of Materials Research</i> , 2021 , 36, 797-811	2.5	0
212	A general method to synthesize and sinter bulk ceramics in seconds. <i>Science</i> , 2020 , 368, 521-526	33.3	153
211	Multielectron Redox and Insulator-to-Metal Transition upon Lithium Insertion in the Fast-Charging, Wadsley-Roth Phase P ₃ Nb ₉ O ₂₅ . <i>Chemistry of Materials</i> , 2020 , 32, 4553-4563	9.6	23
210	NASICON Na ₃ V ₂ (PO ₄) ₃ Enables Quasi-Two-Stage Na ⁺ and Zn ²⁺ Intercalation for Multivalent Zinc Batteries. <i>Chemistry of Materials</i> , 2020 , 32, 3028-3035	9.6	40
209	In situ monitoring of the electrochemically induced phase transition of thermodynamically metastable 1T-MoS at nanoscale. <i>Nanoscale</i> , 2020 , 12, 9246-9254	7.7	12
208	Differentiating Double-Layer, Pseudocapacitance, and Battery-like Mechanisms by Analyzing Impedance Measurements in Three Dimensions. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 14071-14078	9.5	28
207	Understanding and applying coulombic efficiency in lithium metal batteries. <i>Nature Energy</i> , 2020 , 5, 561-568	6.68	201
206	Cryogenic Milling Method to Fabricate Nanostructured Anodes. <i>ACS Applied Energy Materials</i> , 2020 , 3, 11285-11292	6.1	1
205	Engineering mesoporous silica for superior optical and thermal properties. <i>MRS Energy & Sustainability</i> , 2020 , 7, 1	2.2	6
204	Synthesis and Crystallization of Atomic Layer Deposition β -Cryptite LiAlSiO Thin-Film Solid Electrolytes. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 56935-56942	9.5	2
203	Programmable devices based on reversible solid-state doping of two-dimensional semiconductors with superionic silver iodide. <i>Nature Electronics</i> , 2020 , 3, 630-637	28.4	26
202	Electrode Degradation in Lithium-Ion Batteries. <i>ACS Nano</i> , 2020 , 14, 1243-1295	16.7	209
201	In Operando Calorimetric Measurements for Activated Carbon Electrodes in Ionic Liquid Electrolytes under Large Potential Windows. <i>ChemSusChem</i> , 2020 , 13, 1013-1026	8.3	8
200	Dihexyl-Substituted Poly(3,4-Propylenedioxythiophene) as a Dual Ionic and Electronic Conductive Cathode Binder for Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2020 , 32, 9176-9189	9.6	16
199	3D Architectures for Batteries and Electrodes. <i>Advanced Energy Materials</i> , 2020 , 10, 2002457	21.8	18
198	Dual redox mediators accelerate the electrochemical kinetics of lithium-sulfur batteries. <i>Nature Communications</i> , 2020 , 11, 5215	17.4	47
197	Effect of temperature on irreversible and reversible heat generation rates in ionic liquid-based electric double layer capacitors. <i>Electrochimica Acta</i> , 2020 , 338, 135802	6.7	7

196	NMR Relaxometry and Diffusometry Analysis of Dynamics in Ionic Liquids and Ionogels for Use in Lithium-Ion Batteries. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 6843-6856	3.4	16
195	High-Performance Solid-State Lithium-Ion Battery with Mixed 2D and 3D Electrodes. <i>ACS Applied Energy Materials</i> , 2020 , 3, 8402-8409	6.1	22
194	Understanding Stabilization in Nanoporous Intermetallic Alloy Anodes for Li-Ion Batteries Using Transmission X-ray Microscopy. <i>ACS Nano</i> , 2020 , 14, 14820-14830	16.7	6
193	A Perspective on interfacial engineering of lithium metal anodes and beyond. <i>Applied Physics Letters</i> , 2020 , 117, 080504	3.4	9
192	A fundamental look at electrocatalytic sulfur reduction reaction. <i>Nature Catalysis</i> , 2020 , 3, 762-770	36.5	206
191	Pseudocapacitive Vanadium-based Materials toward High-Rate Sodium-Ion Storage. <i>Energy and Environmental Materials</i> , 2020 , 3, 221-234	13	43
190	Achieving high energy density and high power density with pseudocapacitive materials. <i>Nature Reviews Materials</i> , 2020 , 5, 5-19	73.3	542
189	Steric Impediment of Ion Migration Contributes to Improved Operational Stability of Perovskite Solar Cells. <i>Advanced Materials</i> , 2020 , 32, e1906995	24	76
188	Synthesis and characterization of vacancy-doped neodymium telluride for thermoelectric applications. <i>Chemistry of Materials</i> , 2019 , 31, 4460-4468	9.6	12
187	Thermal signature of ion intercalation and surface redox reactions mechanisms in model pseudocapacitive electrodes. <i>Electrochimica Acta</i> , 2019 , 307, 512-524	6.7	6
186	Designing the Charge Storage Properties of Li-Exchanged Sodium Vanadium Fluorophosphate for Powering Implantable Biomedical Devices. <i>Advanced Energy Materials</i> , 2019 , 9, 1900226	21.8	16
185	Irreversibility at macromolecular scales in the flake graphite of the lithium-ion battery anode. <i>Journal of Power Sources</i> , 2019 , 436, 226841-226841	8.9	9
184	Thick Transparent Nanoparticle-Based Mesoporous Silica Monolithic Slabs for Thermally Insulating Window Materials. <i>ACS Applied Nano Materials</i> , 2019 , 2, 4547-4555	5.6	12
183	Conformal Ultrathin Film Metal-Organic Framework Analogues: Characterization of Growth, Porosity, and Electronic Transport. <i>Chemistry of Materials</i> , 2019 , 31, 8977-8986	9.6	5
182	Electrochemical and Spectroscopic Analysis of the Ionogel-Electrode Interface. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 12088-12097	9.5	8
181	Suppression of Electrochemically Driven Phase Transitions in Nanostructured MoS ₂ Pseudocapacitors Probed Using Operando X-ray Diffraction. <i>ACS Nano</i> , 2019 , 13, 1223-1231	16.7	25
180	Praseodymium Telluride: A High-Temperature, High-ZT Thermoelectric Material. <i>Joule</i> , 2018 , 2, 698-709	27.8	33
179	Application of Poly(3-hexylthiophene-2,5-diyl) as a Protective Coating for High Rate Cathode Materials. <i>Chemistry of Materials</i> , 2018 , 30, 2589-2599	9.6	31

178	High Areal Energy Density 3D Lithium-Ion Microbatteries. <i>Joule</i> , 2018 , 2, 1187-1201	27.8	86
177	Tuning Molecular Interactions for Highly Reproducible and Efficient Formamidinium Perovskite Solar Cells via Adduct Approach. <i>Journal of the American Chemical Society</i> , 2018 , 140, 6317-6324	16.4	233
176	Creating Lithium-Ion Electrolytes with Biomimetic Ionic Channels in Metal-Organic Frameworks. <i>Advanced Materials</i> , 2018 , 30, e1707476	24	146
175	Probing ion current in solid-electrolytes at the meso- and nanoscale. <i>Faraday Discussions</i> , 2018 , 210, 55-67	6	2
174	Sodium Vanadium Fluorophosphates (NVOFP) Array Cathode Designed for High-Rate Full Sodium Ion Storage Device. <i>Advanced Energy Materials</i> , 2018 , 8, 1800058	21.8	124
173	Development of a Three-Dimensional Bioengineering Technology to Generate Lung Tissue for Personalized Disease Modeling. <i>Current Protocols in Stem Cell Biology</i> , 2018 , 46, e56	2.8	9
172	Sulfide Solid Electrolytes for Lithium Battery Applications. <i>Advanced Energy Materials</i> , 2018 , 8, 1800933	21.8	252
171	Wafer-Scale Black Arsenic Phosphorus Thin-Film Synthesis Validated with Density Functional Perturbation Theory Predictions. <i>ACS Applied Nano Materials</i> , 2018 , 1, 4737-4745	5.6	24
170	Tuning ligament shape in dealloyed nanoporous tin and the impact of nanoscale morphology on its applications in Na-ion alloy battery anodes. <i>Physical Review Materials</i> , 2018 , 2,	3.2	15
169	Isothermal calorimeter for measurements of time-dependent heat generation rate in individual supercapacitor electrodes. <i>Journal of Power Sources</i> , 2018 , 374, 257-268	8.9	22
168	Physical Interpretations of Nyquist Plots for EDLC Electrodes and Devices. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 194-206	3.8	428
167	Synthesis and Properties of a Photopatternable Lithium-Ion Conducting Solid Electrolyte. <i>Advanced Materials</i> , 2018 , 30, 1703772	24	15
166	Growth Temperature and Electrochemical Performance in Vapor-Deposited Poly(3,4-ethylenedioxythiophene) Thin Films for High-Rate Electrochemical Energy Storage. <i>ACS Applied Energy Materials</i> , 2018 , 1, 7093-7105	6.1	17
165	Physical Interpretations of Electrochemical Impedance Spectroscopy of Redox Active Electrodes for Electrical Energy Storage. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 24499-24511	3.8	57
164	A Metal-Organic Framework with Tetrahedral Aluminate Sites as a Single-Ion Li ⁺ Solid Electrolyte. <i>Angewandte Chemie</i> , 2018 , 130, 16925-16929	3.6	6
163	A Metal-Organic Framework with Tetrahedral Aluminate Sites as a Single-Ion Li Solid Electrolyte. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 16683-16687	16.4	39
162	Design and Mechanisms of Asymmetric Supercapacitors. <i>Chemical Reviews</i> , 2018 , 118, 9233-9280	68.1	1396
161	Correlated Polyhedral Rotations in the Absence of Polarons during Electrochemical Insertion of Lithium in ReO ₃ . <i>ACS Energy Letters</i> , 2018 , 3, 2513-2519	20.1	23

160	Effect of surface hydroxyl groups on heat capacity of mesoporous silica. <i>Applied Physics Letters</i> , 2018 , 112, 201903	3.4	8
159	Effects of Constituent Materials on Heat Generation in Individual EDLC Electrodes. <i>Journal of the Electrochemical Society</i> , 2018 , 165, A1547-A1557	3.9	11
158	Porous One-Dimensional Nanomaterials: Design, Fabrication and Applications in Electrochemical Energy Storage. <i>Advanced Materials</i> , 2017 , 29, 1602300	24	435
157	Monolithic Flexible Supercapacitors Integrated into Single Sheets of Paper and Membrane via Vapor Printing. <i>Advanced Materials</i> , 2017 , 29, 1606091	24	43
156	Posttranslational modification of Eatenin is associated with pathogenic fibroblastic changes in bronchopulmonary dysplasia. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2017 , 312, L186-L195	5.8	22
155	Three-dimensional holey-graphene/niobia composite architectures for ultrahigh-rate energy storage. <i>Science</i> , 2017 , 356, 599-604	33.3	965
154	Tuning Porosity and Surface Area in Mesoporous Silicon for Application in Li-Ion Battery Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 19063-19073	9.5	33
153	Oxygen vacancies enhance pseudocapacitive charge storage properties of MoO. <i>Nature Materials</i> , 2017 , 16, 454-460	27	1164
152	Energy Storage: Porous One-Dimensional Nanomaterials: Design, Fabrication and Applications in Electrochemical Energy Storage (Adv. Mater. 20/2017). <i>Advanced Materials</i> , 2017 , 29,	24	4
151	Conformal Lithium Fluoride Protection Layer on Three-Dimensional Lithium by Nonhazardous Gaseous Reagent Freon. <i>Nano Letters</i> , 2017 , 17, 3731-3737	11.5	270
150	Designing Pseudocapacitance for NbO/Carbide-Derived Carbon Electrodes and Hybrid Devices. <i>Langmuir</i> , 2017 , 33, 9407-9415	4	56
149	High-temperature structural stability of ceria-based inverse opals. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 2659-2668	3.8	4
148	Nanoporous Tin with a Granular Hierarchical Ligament Morphology as a Highly Stable Li-Ion Battery Anode. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 293-303	9.5	50
147	NaTiO Nanoplatelets and Nanosheets Derived from a Modified Exfoliation Process for Use as a High-Capacity Sodium-Ion Negative Electrode. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 1416-1423	3.5	54
146	Patternable, Solution-Processed Ionogels for Thin-Film Lithium-Ion Electrolytes. <i>Joule</i> , 2017 , 1, 344-358	27.8	39
145	Microscale 2.5D Batteries. <i>Journal of the Electrochemical Society</i> , 2017 , 164, A2500-A2503	3.9	11
144	Polymer-modified halide perovskite films for efficient and stable planar heterojunction solar cells. <i>Science Advances</i> , 2017 , 3, e1700106	14.3	443
143	Electrochemical Characterization of Na-Ion Charge-Storage Properties for Nanostructured NaTi ₂ (PO ₄) ₃ as a Function of Crystalline Order. <i>Journal of the Electrochemical Society</i> , 2017 , 164, A2124-A2130	2.9	12

142	Lithium-Ion Insertion Properties of Solution-Exfoliated Germanane. <i>ACS Nano</i> , 2017 , 11, 7995-8001	16.7	48
141	High-rate capability of Na ₂ FePO ₄ F nanoparticles by enhancing surface carbon functionality for Na-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 18707-18715	13	46
140	Design of Biohybrid Structures for Enzyme-Electrode Interfaces 2017 , 767-791		
139	Pseudocapacitive Charge Storage in Thick Composite MoS ₂ Nanocrystal-Based Electrodes. <i>Advanced Energy Materials</i> , 2017 , 7, 1601283	21.8	178
138	Development of a Three-Dimensional Bioengineering Technology to Generate Lung Tissue for Personalized Disease Modeling. <i>Stem Cells Translational Medicine</i> , 2017 , 6, 622-633	6.9	79
137	Mesoporous Li _x Mn ₂ O ₄ Thin Film Cathodes for Lithium-Ion Pseudocapacitors. <i>ACS Nano</i> , 2016 , 10, 7572-8167	16.7	194
136	Multidimensional materials and device architectures for future hybrid energy storage. <i>Nature Communications</i> , 2016 , 7, 12647	17.4	992
135	Molybdenum Polysulfide Chalcogels as High-Capacity, Anion-Redox-Driven Electrode Materials for Li-Ion Batteries. <i>Chemistry of Materials</i> , 2016 , 28, 8357-8365	9.6	46
134	Fabrication, Testing, and Simulation of All-Solid-State Three-Dimensional Li-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 32385-32391	9.5	76
133	A three-dimensional human model of the fibroblast activation that accompanies bronchopulmonary dysplasia identifies Notch-mediated pathophysiology. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2016 , 310, L889-98	5.8	28
132	Mesoporous MoS ₂ as a Transition Metal Dichalcogenide Exhibiting Pseudocapacitive Li and Na-Ion Charge Storage. <i>Advanced Energy Materials</i> , 2016 , 6, 1501937	21.8	332
131	Sol-gel encapsulated lithium polysulfide catholyte and its application in lithium-sulfur batteries. <i>Materials Horizons</i> , 2016 , 3, 137-144	14.4	14
130	Carbon-ionogel supercapacitors for integrated microelectronics. <i>Nanotechnology</i> , 2016 , 27, 035204	3.4	3
129	Gold-Coated M13 Bacteriophage as a Template for Glucose Oxidase Biofuel Cells with Direct Electron Transfer. <i>ACS Nano</i> , 2016 , 10, 324-32	16.7	41
128	iCVD Cyclic Polysiloxane and Polysilazane as Nanoscale Thin-Film Electrolyte: Synthesis and Properties. <i>Macromolecular Rapid Communications</i> , 2016 , 37, 446-52	4.8	22
127	Simulations and Interpretation of Three-Electrode Cyclic Voltammograms of Pseudocapacitive Electrodes. <i>Electrochimica Acta</i> , 2016 , 211, 420-429	6.7	24
126	Synthesis and Charge Storage Properties of Hierarchical Niobium Pentoxide/Carbon/Niobium Carbide (MXene) Hybrid Materials. <i>Chemistry of Materials</i> , 2016 , 28, 3937-3943	9.6	172
125	The Development of Pseudocapacitive Properties in Nanosized-MoO ₂ . <i>Journal of the Electrochemical Society</i> , 2015 , 162, A5083-A5090	3.9	142

124	A high-energy-density quasi-solid-state carbon nanotube electrochemical double-layer capacitor with ionogel electrolyte. <i>Translational Materials Research</i> , 2015 , 2, 015001		9
123	Three-dimensional Batteries. <i>Materials and Energy</i> , 2015 , 701-730		
122	A Group of Cyclic Siloxane and Silazane Polymer Films as Nanoscale Electrolytes for Microbattery Architectures. <i>Macromolecules</i> , 2015 , 48, 5222-5229	5.5	23
121	Batteries. Opening the window for aqueous electrolytes. <i>Science</i> , 2015 , 350, 918	33.3	56
120	Synthesis and electrochemical properties of niobium pentoxide deposited on layered carbide-derived carbon. <i>Journal of Power Sources</i> , 2015 , 274, 121-129	8.9	64
119	Sol-gel Materials for Energy Storage 2015 , 1119-1144		
118	Ensemble multivariate analysis to improve identification of articular cartilage disease in noisy Raman spectra. <i>Journal of Biophotonics</i> , 2015 , 8, 555-66	3.1	16
117	Nanoscale, conformal polysiloxane thin film electrolytes for three-dimensional battery architectures. <i>Materials Horizons</i> , 2015 , 2, 309-314	14.4	29
116	High performance pseudocapacitor based on 2D layered metal chalcogenide nanocrystals. <i>Nano Letters</i> , 2015 , 15, 1911-7	11.5	392
115	Protein Adsorption Alters Hydrophobic Surfaces Used for Suspension Culture of Pluripotent Stem Cells. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 388-93	6.4	2
114	Silica sol-gel chemistry: creating materials and architectures for energy generation and storage. <i>Journal of Sol-Gel Science and Technology</i> , 2014 , 70, 203-215	2.3	14
113	Pseudocapacitive oxide materials for high-rate electrochemical energy storage. <i>Energy and Environmental Science</i> , 2014 , 7, 1597	35.4	3208
112	Electrochemical Kinetics of Nanostructured Nb ₂ O ₅ Electrodes. <i>Journal of the Electrochemical Society</i> , 2014 , 161, A718-A725	3.9	188
111	Lithium-ion storage properties of titanium oxide nanosheets. <i>Materials Horizons</i> , 2014 , 1, 219-223	14.4	61
110	Nanostructured Pseudocapacitors Based on Atomic Layer Deposition of V ₂ O ₅ onto Conductive Nanocrystal-based Mesoporous ITO Scaffolds. <i>Advanced Functional Materials</i> , 2014 , 24, 6717-6728	15.6	68
109	Synthesis of ion conducting Li _x Al _y Si _z O thin films by atomic layer deposition. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 9566-9573	13	58
108	3D Architected Anodes for Lithium-Ion Microbatteries with Large Areal Capacity. <i>Energy Technology</i> , 2014 , 2, 362-369	3.5	32
107	Panoramic View of Electrochemical Pseudocapacitor and Organic Solar Cell Research in Molecularly Engineered Energy Materials (MEEM). <i>Journal of Physical Chemistry C</i> , 2014 , 118, 19505-19523	3.8	15

106	Naphthalene Diimide Based Materials with Adjustable Redox Potentials: Evaluation for Organic Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2014 , 26, 7151-7157	9.6	104
105	Materials science. Where do batteries end and supercapacitors begin?. <i>Science</i> , 2014 , 343, 1210-1	33.3	3680
104	Low-potential lithium-ion reactivity of vanadium oxide aerogels. <i>Electrochimica Acta</i> , 2013 , 88, 530-535	6.7	28
103	Enhancing pseudocapacitive charge storage in polymer templated mesoporous materials. <i>Accounts of Chemical Research</i> , 2013 , 46, 1113-24	24.3	217
102	High-rate electrochemical energy storage through Li ⁺ intercalation pseudocapacitance. <i>Nature Materials</i> , 2013 , 12, 518-22	27	3039
101	A spatially and chemically defined platform for the uniform growth of human pluripotent stem cells. <i>Materials Science and Engineering C</i> , 2013 , 33, 234-41	8.3	5
100	The Effect of Crystallinity on the Rapid Pseudocapacitive Response of Nb ₂ O ₅ . <i>Advanced Energy Materials</i> , 2012 , 2, 141-148	21.8	399
99	High-performance sodium-ion pseudocapacitors based on hierarchically porous nanowire composites. <i>ACS Nano</i> , 2012 , 6, 4319-27	16.7	574
98	Processing and Applications of Sol-Gel Glass 2012 , 183-197		
97	Protection of lithium metal surfaces using tetraethoxysilane. <i>Journal of Materials Chemistry</i> , 2011 , 21, 1593-1599		157
96	Three-dimensional electrodes and battery architectures. <i>MRS Bulletin</i> , 2011 , 36, 523-531	3.2	242
95	Electrical energy storage for the grid: a battery of choices. <i>Science</i> , 2011 , 334, 928-35	33.3	9187
94	Next generation pseudocapacitor materials from sol-gel derived transition metal oxides. <i>Journal of Sol-Gel Science and Technology</i> , 2011 , 57, 330-335	2.3	49
93	High-performance supercapacitors based on intertwined CNT/V ₂ O ₅ nanowire nanocomposites. <i>Advanced Materials</i> , 2011 , 23, 791-5	24	715
92	High-Performance Supercapacitors Based on Hierarchically Porous Graphite Particles. <i>Advanced Energy Materials</i> , 2011 , 1, 551-556	21.8	171
91	High-Performance Supercapacitors Based on Nanocomposites of Nb ₂ O ₅ Nanocrystals and Carbon Nanotubes. <i>Advanced Energy Materials</i> , 2011 , 1, 1089-1093	21.8	285
90	Ordered mesoporous alpha-MoO ₃ with iso-oriented nanocrystalline walls for thin-film pseudocapacitors. <i>Nature Materials</i> , 2010 , 9, 146-51	27	2261
89	Synthesis and Thermoelectric Properties of Doped Yb ₁₄ MnSb _{11-x} Bix Zintl. <i>Materials Research Society Symposia Proceedings</i> , 2010 , 1267, 1		1

88	Pseudocapacitive contributions to charge storage in highly ordered mesoporous group V transition metal oxides with iso-oriented layered nanocrystalline domains. <i>Journal of the American Chemical Society</i> , 2010 , 132, 6982-90	16.4	263
87	Three-dimensional microbatteries for MEMS/NEMS technology 2010 ,		9
86	On the correlation between mechanical flexibility, nanoscale structure, and charge storage in periodic mesoporous CeO(2) thin films. <i>ACS Nano</i> , 2010 , 4, 967-77	16.7	112
85	Characterization of gold nanoparticle binding to microtubule filaments. <i>Materials Science and Engineering C</i> , 2010 , 30, 20-26	8.3	46
84	Vanadium oxide aerogels: Nanostructured materials for enhanced energy storage. <i>Comptes Rendus Chimie</i> , 2010 , 13, 130-141	2.7	37
83	Kinetics of Anode Reactions for a Yeast-Catalysed Microbial Fuel Cell. <i>Fuel Cells</i> , 2009 , 9, 44-52	2.9	47
82	Bio-hybrid materials for immunoassay-based sensing of cortisol. <i>Journal of Sol-Gel Science and Technology</i> , 2009 , 50, 176-183	2.3	7
81	Templated nanocrystal-based porous TiO(2) films for next-generation electrochemical capacitors. <i>Journal of the American Chemical Society</i> , 2009 , 131, 1802-9	16.4	713
80	Nanomaterials in Energy Storage Systems 2009 , 519-535		2
79	Vanadium Oxide Aerogels: Enhanced Energy Storage in Nanostructured Materials. <i>Nanostructure Science and Technology</i> , 2009 , 185-199	0.9	1
78	Inverse opal ceria/zirconia: architectural engineering for heterogeneous catalysis. <i>Energy and Environmental Science</i> , 2008 , 1, 484	35.4	33
77	Fabrication and properties of a carbon/polypyrrole three-dimensional microbattery. <i>Journal of Power Sources</i> , 2008 , 178, 795-800	8.9	158
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