

Evan Uchaker

List of Publications by Year in descending order

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47
papers

5,855
citations

109321

35
h-index

223800

46
g-index

48
all docs

48
docs citations

48
times ranked

8851
citing authors

#	ARTICLE	IF	CITATIONS
1	Revitalized interest in vanadium pentoxide as cathode material for lithium-ion batteries and beyond. <i>Energy Storage Materials</i> , 2018, 11, 205-259.	18.0	221
2	REVITALIZED INTEREST IN VANADIUM PENTOXIDE AS CATHODE MATERIAL FOR ALKALI-ION BATTERIES. , 2018, , 453-580.		0
3	BEYOND LI ION: ELECTRODE MATERIALS FOR SODIUM AND MAGNESIUM-ION BATTERIES. , 2018, , 639-755.		0
4	One-pot synthesis of <i>in-situ</i> carbon-coated Fe ₃ O ₄ as a long-life lithium-ion battery anode. <i>Nanotechnology</i> , 2017, 28, 155603.	2.6	32
5	Nanoporous carbon leading to the high performance of a Na ₃ V ₂ O ₂ (PO ₄) ₂ F@carbon/graphene cathode in a sodium ion battery. <i>CrystEngComm</i> , 2017, 19, 4287-4293.	2.6	31
6	Mesoporous Tungsten Trioxide Polyaniline Nanocomposite as an Anode Material for High-Performance Lithium-Ion Batteries. <i>ChemNanoMat</i> , 2016, 2, 281-289.	2.8	32
7	Phosphorus/sulfur Co-doped porous carbon with enhanced specific capacitance for supercapacitor and improved catalytic activity for oxygen reduction reaction. <i>Journal of Power Sources</i> , 2016, 314, 39-48.	7.8	141
8	TiNb ₂ O ₇ /graphene composites as high-rate anode materials for lithium/sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 4242-4251.	10.3	134
9	Comparison of amorphous, pseudohexagonal and orthorhombic Nb ₂ O ₅ for high-rate lithium ion insertion. <i>CrystEngComm</i> , 2016, 18, 2532-2540.	2.6	146
10	Mesoporous Carbon Nanofibers Embedded with MoS ₂ Nanocrystals for Extraordinary Li-Ion Storage. <i>Chemistry - A European Journal</i> , 2015, 21, 18248-18257.	3.3	25
11	The Role of Intentionally Introduced Defects on Electrode Materials for Alkali-Ion Batteries. <i>Chemistry - an Asian Journal</i> , 2015, 10, 1608-1617.	3.3	69
12	Porous carbon with high capacitance and graphitization through controlled addition and removal of sulfur-containing compounds. <i>Nano Energy</i> , 2015, 12, 567-577.	16.0	67
13	Nickel-mediated polyol synthesis of hierarchical V ₂ O ₅ hollow microspheres with enhanced lithium storage properties. <i>Journal of Materials Chemistry A</i> , 2015, 3, 1979-1985.	10.3	82
14	Comparison of surface and bulk nitrogen modification in highly porous carbon for enhanced supercapacitors. <i>Science China Materials</i> , 2015, 58, 521-533.	6.3	25
15	Microstructurally Composed Nanoparticle Assemblies as Electroactive Materials for Lithium-Ion Battery Electrodes. <i>Green Energy and Technology</i> , 2015, , 353-391.	0.6	1
16	Three dimensional architecture of carbon wrapped multilayer Na ₃ V ₂ O ₂ (PO ₄) ₂ F nanocubes embedded in graphene for improved sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 17563-17568.	10.3	91
17	Influence of deposition strategies on CdSe quantum dot-sensitized solar cells: a comparison between successive ionic layer adsorption and reaction and chemical bath deposition. <i>Journal of Materials Chemistry A</i> , 2015, 3, 12539-12549.	10.3	73
18	Beyond Li-ion: electrode materials for sodium- and magnesium-ion batteries. <i>Science China Materials</i> , 2015, 58, 715-766.	6.3	241

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19	Elucidating the Role of Defects for Electrochemical Intercalation in Sodium Vanadium Oxide. <i>Chemistry of Materials</i> , 2015, 27, 7082-7090.	6.7	28
20	Laser-induced surface acoustic waves: An alternative method to nanoindentation for the mechanical characterization of porous nanostructured thin film electrode media. <i>Mechanics of Materials</i> , 2015, 91, 333-342.	3.2	26
21	Photoanodes with mesoporous TiO ₂ beads and nanoparticles for enhanced performance of CdS/CdSe quantum dot co-sensitized solar cells. <i>Electrochimica Acta</i> , 2014, 135, 284-292.	5.2	42
22	Sulfur-rich carbon cryogels for supercapacitors with improved conductivity and wettability. <i>Journal of Materials Chemistry A</i> , 2014, 2, 8472.	10.3	91
23	Mesocrystals as electrode materials for lithium-ion batteries. <i>Nano Today</i> , 2014, 9, 499-524.	11.9	120
24	Facile and Green Preparation for the Formation of MoO ₂ -GO Composites as Anode Material for Lithium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2014, 118, 24890-24897.	3.1	58
25	Preparation of carbon coated MoS ₂ flower-like nanostructure with self-assembled nanosheets as high-performance lithium-ion battery anodes. <i>Journal of Materials Chemistry A</i> , 2014, 2, 7862.	10.3	226
26	Mesoporous TiO ₂ beads for high efficiency CdS/CdSe quantum dot co-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 2517.	10.3	102
27	Hierarchically Structured ZnO Nanorods/Nanosheets for Improved Quantum-Dot-Sensitized Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 4466-4472.	8.0	85
28	Sn-Doped V ₂ O ₅ Film with Enhanced Lithium-Ion Storage Performance. <i>Journal of Physical Chemistry C</i> , 2013, 117, 23507-23514.	3.1	170
29	CoO-carbon nanofiber networks prepared by electrospinning as binder-free anode materials for lithium-ion batteries with enhanced properties. <i>Nanoscale</i> , 2013, 5, 12342.	5.6	149
30	Additive-free solvothermal synthesis of hierarchical flower-like LiFePO ₄ /C mesocrystal and its electrochemical performance. <i>RSC Advances</i> , 2013, 3, 19366.	3.6	41
31	Titanium alkoxide induced BiOBr/Bi ₂ WO ₆ mesoporous nanosheet composites with much enhanced photocatalytic activity. <i>Journal of Materials Chemistry A</i> , 2013, 1, 7949.	10.3	113
32	Polyol-Mediated Solvothermal Synthesis and Electrochemical Performance of Nanostructured V ₂ O ₅ Hollow Microspheres. <i>Journal of Physical Chemistry C</i> , 2013, 117, 1621-1626.	3.1	121
33	Nanomaterials for energy conversion and storage. <i>Chemical Society Reviews</i> , 2013, 42, 3127.	38.1	1,356
34	Homogenous incorporation of SnO ₂ nanoparticles in carbon cryogels via the thermal decomposition of stannous sulfate and their enhanced lithium-ion intercalation properties. <i>Nano Energy</i> , 2013, 2, 769-778.	16.0	54
35	Additive-free solvothermal synthesis and Li-ion intercalation properties of dumbbell-shaped LiFePO ₄ /C mesocrystals. <i>Journal of Power Sources</i> , 2013, 239, 103-110.	7.8	36
36	Enhanced Intercalation Dynamics and Stability of Engineered Micro/Nano-Structured Electrode Materials: Vanadium Oxide Mesocrystals. <i>Small</i> , 2013, 9, 3880-3886.	10.0	50

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37	Leaf-Like V_2O_5 Nanosheets Fabricated by a Facile Green Approach as High Energy Cathode Material for Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2013, 3, 1171-1175.	19.5	200
38	Constructing ZnO nanorod array photoelectrodes for highly efficient quantum dot sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 6770.	10.3	74
39	Architected ZnO photoelectrode for high efficiency quantum dot sensitized solar cells. <i>Energy and Environmental Science</i> , 2013, 6, 3542.	30.8	116
40	Facile synthesis of nanostructured vanadium oxide as cathode materials for efficient Li-ion batteries. <i>Journal of Materials Chemistry</i> , 2012, 22, 24439.	6.7	63
41	General Strategy for Designing Core-Shell Nanostructured Materials for High-Power Lithium Ion Batteries. <i>Nano Letters</i> , 2012, 12, 5673-5678.	9.1	193
42	Hydrogenated $Li_4Ti_5O_{12}$ Nanowire Arrays for High Rate Lithium Ion Batteries. <i>Advanced Materials</i> , 2012, 24, 6502-6506.	21.0	451
43	$Li_4Ti_5O_{12}$ Nanoparticles Embedded in a Mesoporous Carbon Matrix as a Superior Anode Material for High Rate Lithium Ion Batteries. <i>Advanced Energy Materials</i> , 2012, 2, 691-698.	19.5	321
44	Mesoporous Carbon: $Li_4Ti_5O_{12}$ Nanoparticles Embedded in a Mesoporous Carbon Matrix as a Superior Anode Material for High Rate Lithium Ion Batteries (<i>Adv. Energy Mater.</i> 6/2012). <i>Advanced Energy Materials</i> , 2012, 2, 699-699.	19.5	5
45	Three-Dimensional Coherent Titania-Mesoporous Carbon Nanocomposite and Its Lithium-Ion Storage Properties. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 2985-2992.	8.0	84
46	Synthesis and characterization of high power $LiFePO_4/C$ nano-plate thin films. <i>Journal of Power Sources</i> , 2012, 213, 100-105.	7.8	27
47	Porous nanostructured V_2O_5 film electrode with excellent Li-ion intercalation properties. <i>Electrochemistry Communications</i> , 2011, 13, 1276-1279.	4.7	40