Liwei Su

List of Publications by Year
in descending order

63 papers	3,839 citations	159358 30 h-index	118652 62 g-index
65 all docs	65 docs citations	65 times ranked	4884 citing authors

#	Article	IF	Citations
1	Li ion battery materials with coreâ€“shell nanostructures. Nanoscale, 2011, 3, 3967.	2.8	473
2	CoCO3 submicrocube/graphene composites with high lithium storage capability. Nano Energy, 2013, 2, 276-282.	8.2	263
3	Core double-shell Si@SiO2@C nanocomposites as anode materials for Li-ion batteries. Chemical Communications, 2010, 46, 2590.	2.2	232
4	Role of transition metal nanoparticles in the extra lithium storage capacity of transition metal oxides: a case study of hierarchical coreâ€“shell Fe3O4@C and Fe@C microspheres. Journal of Materials Chemistry A, 2013, 1, 15158.	5.2	230
5	Core-shell yolk-shell Si@C@Void@C nanohybrids as advanced lithium ion battery anodes with good electronic conductivity and corrosion resistance. Journal of Power Sources, 2017, 342, 529-536.	4.0	200
6	Preparation and Lithium Storage Performances of Mesoporous Fe₃O₄@C Microcapsules. ACS Applied Materials & Interfaces, 2011, 3, 705-709.	4.0	199
7	Ni/C Hierarchical Nanostructures with Ni Nanoparticles Highly Dispersed in N-Containing Carbon Nanosheets: Origin of Li Storage Capacity. Journal of Physical Chemistry C, 2012, 116, 23974-23980.	1.5	199
8	Pre-lithiated graphene nanosheets as negative electrode materials for Li-ion capacitors with high power and energy density. Journal of Power Sources, 2014, 264, 108-113.	4.0	153
9	Coreâ€“shell Fe@Fe3C/C nanocomposites as anode materials for Li ion batteries. Electrochimica Acta, 2013, 87, 180-185.	2.6	124
10	Rambutan-Like FeCO₃ Hollow Microspheres: Facile Preparation and Superior Lithium Storage Performances. ACS Applied Materials & Interfaces, 2013, 5, 11212-11217.	4.0	121
11	Ultrathin Layered Hydroxide Cobalt Acetate Nanoplates Faceâ€toâ€Face Anchored to Graphene Nanosheets for Highâ€Efficiency Lithium Storage. Advanced Functional Materials, 2017, 27, 1605544.	7.8	103
12	Ultrasmall MnO@N-rich carbon nanosheets for high-power asymmetric supercapacitors. Journal of Materials Chemistry A, 2014, 2, 12519.	5.2	92
13	Sugarapple-like N-doped TiO 2 @carbon core-shell spheres as high-rate and long-life anode materials for lithium-ion batteries. Journal of Power Sources, 2017, 353, 237-244.	4.0	89
14	A composite of Co nanoparticles highly dispersed on N-rich carbon substrates: an efficient electrocatalyst for Liâ€“O₂battery cathodes. Chemical Communications, 2014, 50, 776-778.	2.2	87
15	Do Transition Metal Carbonates Have Greater Lithium Storage Capability Than Oxides? A Case Study of Monodisperse CoCO3 and CoO Microspindles. ACS Applied Materials & Interfaces, 2014, 6, 12346-12352.	4.0	83
16	LiVOPO4: A cathode material for 4V lithium ion batteries. Journal of Power Sources, 2009, 189, 786-789.	4.0	78
17	Ultra-small Fe3O4 nanocrystals decorated on 2D graphene nanosheets with excellent cycling stability as anode materials for lithium ion batteries. Electrochimica Acta, 2016, 194, 219-227.	2.6	69
18	Recycling silicon-based industrial waste as sustainable sources of Si/SiO2 composites for high-performance Li-ion battery anodes. Journal of Power Sources, 2020, 449, 227513.	4.0	68

#	Article	IF	Citations
19	Mesoporous slit-structured NiO for high-performance pseudocapacitors. Physical Chemistry Chemical Physics, 2012, 14, 11048.	1.3	55
20	Micro/nano-complex-structure SiOxâ€“PANIâ€“Ag composites with homogeneously-embedded Si nanocrystals and nanopores as high-performance anodes for lithium ion batteries. Journal of Materials Chemistry A, 2014, 2, 3776.	5.2	53
21	Preparation and lithium storage performance of yolkâ€“shell Si@void@C nanocomposites. Physical Chemistry Chemical Physics, 2015, 17, 17562-17565.	1.3	51
22	Multi-yolkâ€“shell SnO₂/Co₃Sn₂@C Nanocubes with High Initial Coulombic Efficiency and Oxygen Reutilization for Lithium Storage. ACS Applied Materials & Interfaces, 2016, 8, 35172-35179.	4.0	50
23	Cu₂S@ N, S Dualâ€Doped Carbon Matrix Hybrid as Superior Anode Materials for Lithium/Sodium ion Batteries. ChemElectroChem, 2018, 5, 2135-2141.	1.7	49
24	Preparation and electrochemical Li storage performance of MnO@C nanorods consisting of ultra small MnO nanocrystals. RSC Advances, 2013, 3, 9035.	1.7	47
25	Well-distributed TiO2 nanocrystals on reduced graphene oxides as high-performance anode materials for lithium ion batteries. RSC Advances, 2013, 3, 13696.	1.7	44
26	Co2SiO4/SiO2/RGO nanosheets: Boosting the lithium storage capability of tetravalent Si by using highly-dispersed Co element. Electrochimica Acta, 2018, 282, 609-617.	2.6	41
27	Mesoporous Mn₃ O₄ Nanobeads/Graphene Hybrids: Facile Gel-Like Film Synthesis, Rational Structure Design, and Excellent Performance for Lithium Storage. Particle and Particle Systems Characterization, 2015, 32, 721-727.	1.2	39
28	Rational Design of Ni Nanoparticles on Nâ€Rich Ultrathin Carbon Nanosheets for Highâ€Performance Supercapacitor Materials: Embeddedâ€•Versus Anchoredâ€Type Dispersion. Chemistry - A European Journal, 2014, 20, 5046-5053.	1.7	37
29	Chrysanthemum-like Co3O4 architectures: Hydrothermal synthesis and lithium storage performances. Solid State Sciences, 2012, 14, 451-455.	1.5	35
30	Preparation and Ni-Doping Effect of Nanosized Truncated Octahedral LiCoMnO₄ As Cathode Materials for 5 V Li-Ion Batteries. ACS Applied Materials & Interfaces, 2013, 5, 12185-12189.	4.0	35
31	Co-modification of nitrogen-doped graphene and carbon on Li3V2(PO4)3 particles with excellent long-term and high-rate performance for lithium storage. Journal of Power Sources, 2016, 326, 313-321.	4.0	31
32	Sea urchin-like CoO/Co/N-doped carbon matrix hybrid composites with superior high-rate performance for lithium-ion batteries. Journal of Alloys and Compounds, 2017, 701, 524-532.	2.8	28
33	Ultrafine, high-loading and oxygen-deficient cerium oxide embedded on mesoporous carbon nanosheets for superior lithiumâ€“oxygen batteries. Nano Energy, 2020, 71, 104570.	8.2	28
34	MnO QD/Graphene Dot Fabrics: A Versatile Nanohybrid Material. ChemElectroChem, 2015, 2, 789-794.	1.7	25
35	Iron titanium phosphates as high-specific-capacity electrode materials for lithium ion batteries. Journal of Alloys and Compounds, 2014, 585, 434-441.	2.8	22
36	Three-dimensional VS4 consisting of uniform nanosheets as excellent anode material for sodium ion batteries. Journal of Alloys and Compounds, 2020, 834, 155204.	2.8	22

#	Article	IF	Citations
37	CoO@Nâ€Doped Carbon Composite Nanotubes as Excellent Anodes for Lithiumâ€ion Batteries. ChemElectroChem, 2017, 4, 2862-2869.	1.7	21
38	Poplar flower-like nitrogen-doped carbon nanotube@VS₄ composites with excellent sodium storage performance. Inorganic Chemistry Frontiers, 2020, 7, 4883-4891.	3.0	21
39	Size-dependent capacitive behavior of homogeneous MnO nanoparticles on carbon cloth as electrodes for symmetric solid-state supercapacitors with high performance. Electrochimica Acta, 2019, 307, 442-450.	2.6	20
40	Facile Synthesis of Amorphous Ge Supported by Ni Nanopyramid Arrays as an Anode Material for Sodiumâ€ion Batteries. ChemistryOpen, 2019, 8, 298-303.	0.9	19
41	Effect of pore lengths on the reduction degree and lithium storage performance of Mesoporous SiOx nanomaterials. Journal of Alloys and Compounds, 2016, 663, 524-530.	2.8	18
42	Synthesis of Co Ni1-S2 electrode material with a greatly enhanced electrochemical performance for supercapacitors by in-situ solid-state transformation. Journal of Alloys and Compounds, 2019, 803, 950-957.	2.8	18
43	Highlyâ€Dispersed Niâ€QDs/Mesoporous Carbon Nanoplates: A Universal and Commercially Applicable Approach Based on Corn Straw Piths and High Capacitive Performances. ChemElectroChem, 2015, 2, 1897-1902.	1.7	17
44	Uniform coreâ€“shell Cu₆Sn₅@C nanospheres with controllable synthesis and excellent lithium storage performances. RSC Advances, 2017, 7, 28399-28406.	1.7	15
45	Three-dimensional porous copper framework supported group IVA element materials as sodium-ion battery anode materials. Journal of Alloys and Compounds, 2019, 771, 169-175.	2.8	14
46	Excellent Lithium Storage Materials Consisting of Highly Distributed Fe3O4Quantum Dots on Commercially Available Graphite Nanoplates. Particle and Particle Systems Characterization, 2016, 33, 597-601.	1.2	13
47	Coreâ€“Shell CoSn@CoSnO_x Nanoparticles Encapsulated in Hollow Carbon Nanocubes as Anodes for Lithiumâ€ion Batteries. Energy Technology, 2021, 9, 2100153.	1.8	12
48	EDTA-2Na assisted dynamic hydrothermal synthesis of orthorhombic LiMnO2 for lithium ion battery. Journal of Alloys and Compounds, 2020, 830, 154599.	2.8	10
49	Hierarchical porous carbon material regenerated from natural bamboo-leaf: How to improve the performance of lead-carbon batteries?. Journal of Power Sources, 2021, 516, 230664.	4.0	9
50	Influence of DC conductivity of PPy anode on Li/PPy secondary batteries. Journal of Applied Polymer Science, 2008, 109, 3458-3460.	1.3	8
51	Sub-10 nm SnO2/Fe3O4/graphene nanosheets: Nanocatalysis to improve initial coulombic efficiency for lithium storage. Journal of Alloys and Compounds, 2020, 816, 152624.	2.8	8
52	Ultrahigh Reversibility of SnO₂ in SnO₂@C Quantum Dots/Graphene Oxide Nanosheets for Lithium Storage. ChemistrySelect, 2017, 2, 11853-11859.	0.7	7
53	Ultrathin Ni_{1â^'}_xCo_xS₂ nanoflakes as high energy density electrode materials for asymmetric supercapacitors. Beilstein Journal of Nanotechnology, 2019, 10, 2207-2216.	1.5	7
54	Enlarging Surface/Bulk Ratios of NiO Nanoparticles toward High Utilization and Rate Capability for Supercapacitors. Particle and Particle Systems Characterization, 2020, 37, 1900344.	1.2	7

#	Article	IF	Citations
55	N-doped carbon nanolayer modified nickel foam: A novel substrate for supercapacitors. Applied Surface Science, 2021, 546, 148754.	3.1	7
56	Porous Carbon Nanosheets Armoring 3D Current Collectors toward Ultrahigh Mass Loading for High-Energy-Density All-Solid-State Supercapacitors. ACS Applied Materials & Interfaces, 2021, 13, 52519-52529.	4.0	6
57	One-pot fabricating rambutan-like nitrogen-simultaneously-doped TiO2@carbon@TiO2 double shell composites with superior sodium storage for Na-ion batteries. Journal of Materials Science: Materials in Electronics, 2019, 30, 6395-6402.	1.1	5
58	Facile One-Step Dynamic Hydrothermal Synthesis of Spinel LiMn2O4/Carbon Nanotubes Composite as Cathode Material for Lithium-Ion Batteries. Materials, 2019, 12, 4123.	1.3	5
59	Subâ€10Ânm V₂O₅ Crystals on Carbon Nanosheets for Advanced Allâ€Solidâ€State Lithium Metal Batteries. Particle and Particle Systems Characterization, 2020, 37, 2000164.	1.2	4
60	Low-carbon CeOx/Ru@RuO2 nanosheets as bifunctional catalysts for lithium-oxygen batteries. Journal of Alloys and Compounds, 2022, 924, 166354.	2.8	4
61	Uniform Mesoporous CoCO 3 Nanospindles on Graphite Nanosheets for Highly Efficient Lithium Storage. Particle and Particle Systems Characterization, 2020, 37, 2000113.	1.2	3
62	Engineering Bamboo Leaves Into 3D Macroporous Si@C Composites for Stable Lithium-Ion Battery Anodes. Frontiers in Chemistry, 2022, 10, 882681.	1.8	2
63	EG-Assisted Synthesis and Electrochemical Performance of Ultrathin Carbon-Coated LiMnPO₄Nanoplates as Cathodes in Lithium Ion Batteries. Journal of Nanomaterials, 2015, 2015, 1-8.	1.5	1