Shengnan He

List of Publications by Year
in descending order

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64 papers	3,184 citations	172207 29 h-index	149479 56 g-index
64 all docs	64 docs citations	64 times ranked	4612 citing authors

#	Article	IF	Citations
1	Efficient Anion Fluoride-Doping Strategy to Enhance the Performance in Garnet-Type Solid Electrolyte Li₇La₃Zr₂O₁₂. ACS Applied Materials & Interfaces, 2022, 14, 2939-2948.	4.0	10
2	Three-dimensional embroidered ball-like Î±-Fe₂O₃ synthesised by a microwave hydrothermal method as a sulfur immobilizer for high-performance Liâ€“S batteries. Journal of Materials Chemistry C, 2022, 10, 7066-7075.	2.7	5
3	Biomimetic Synthesis of Earâ€ofâ€wheatâ€shaped Manganese Oxide Nanoparticles on Carbon Nanotubes for Highâ€capacity Lithium Storage. Energy and Environmental Materials, 2021, 4, 399-406.	7.3	13
4	Preparation and Application of Nanorod FeOOH/CNT@S Composites for High-Performance Lithiumâ€“Sulfur Batteries. ACS Applied Energy Materials, 2021, 4, 8368-8376.	2.5	5
5	Facile strategy of hollow polyaniline nanotubes supported on Ti3C2-MXene nanosheets for High-performance symmetric supercapacitors. Journal of Colloid and Interface Science, 2020, 580, 601-613.	5.0	76
6	Allâ€Inâ€One Stainlessâ€Steel Mesh Oxide Composites Anode for Flexible Liâ€Ion Battery. Advanced Materials Technologies, 2020, 5, 2000376.	3.0	8
7	Enhanced redox kinetics of polysulfides by nano-rod FeOOH for ultrastable lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2020, 8, 19544-19554.	5.2	22
8	Study of TiO₂-Coated Î±-Fe₂O₃ Composites and the Oxygen-Defects Effect on the Application as the Anode Materials of High-Performance Li-Ion Batteries. ACS Applied Energy Materials, 2020, 3, 11666-11673.	2.5	19
9	Suppressing Feâ€“Li, Niâ€“Li Antisite Defects in LiFePO₄ and LiNi_{1/3}Co_{1/3}Mn_{1/3}O₂ by Optimized Synthesis Methods. ACS Applied Energy Materials, 2020, 3, 5893-5901.	2.5	6
10	Enhanced ionic conductivity of an F^{â^'}-assisted Na₃Zr₂Si₂PO₁₂ solid electrolyte for solid-state sodium batteries. Journal of Materials Chemistry A, 2020, 8, 12594-12602.	5.2	52
11	Mg²⁺/F^{â^'} Synergy to Enhance the Ionic Conductivity of Na₃Zr₂Si₂PO₁₂ Solid Electrolyte for Solidâ€State Sodium Batteries. ChemElectroChem, 2020, 7, 2087-2094.	1.7	21
12	Elevated Energy Density and Cyclic Stability of LiVPO₄F Cathode Material for High-rate Lithium Ion Batteries. ACS Applied Energy Materials, 2020, 3, 3553-3561.	2.5	13
13	ZnO nanorod arrays grown on g-C₃N₄ micro-sheets for enhanced visible light photocatalytic H₂ evolution. RSC Advances, 2019, 9, 24483-24488.	1.7	32
14	Simultaneous Electrochemical Dualâ€Electrode Exfoliation of Graphite toward Scalable Production of Highâ€Quality Graphene. Advanced Functional Materials, 2019, 29, 1902171.	7.8	63
15	A pHâ€Tailored Anodic Deposition of Hydrous RuO 2 for Supercapacitors. ChemistrySelect, 2019, 4, 8122-8128.	0.7	7
16	Graphene: Simultaneous Electrochemical Dualâ€Electrode Exfoliation of Graphite toward Scalable Production of Highâ€Quality Graphene (Adv. Funct. Mater. 37/2019). Advanced Functional Materials, 2019, 29, 1970257.	7.8	11
17	Double Donors Tuning Conductivity of LiVPO₄F for Advanced Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2019, 11, 38849-38858.	4.0	13
18	Facile synthesis of foamed-nickel supporting MnO2 as binder-less electrodes for high electrochemical performance supercapacitors. Journal of Nanoparticle Research, 2019, 21, 1.	0.8	3

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19	Electrochemically exfoliated high-yield graphene in ambient temperature molten salts and its application for flexible solid-state supercapacitors. Carbon, 2018, 127, 392-403.	5.4	75
20	Fluorophosphates from Solidâ€State Synthesis and Electrochemical Ion Exchange: NaVPO₄F or Na₃V₂(PO₄)₂F₃?. Advanced Energy Materials, 2018, 8, 1801064.	10.2	57
21	Surface Modification of Al Foils for Aluminum Electrolytic Capacitor. Advanced Functional Materials, 2017, 27, 1606042.	7.8	22
22	Selfâ€Powered Electrochemical Synthesis of Polypyrrole from the Pulsed Output of a Triboelectric Nanogenerator as a Sustainable Energy System. Advanced Functional Materials, 2016, 26, 3542-3548.	7.8	87
23	Electrochemically Prepared Poly(3,4â€ethylenedioxyâ€thiophene)/Polypyrrole Films with Hollow Microâ€/Nanohorn Arrays as Highâ€Efficiency Counter Electrodes for Dyeâ€Sensitized Solar Cells. ChemElectroChem, 2016, 3, 1376-1383.	1.7	0
24	Stretchable and Waterproof Self-Charging Power System for Harvesting Energy from Diverse Deformation and Powering Wearable Electronics. ACS Nano, 2016, 10, 6519-6525.	7.3	182
25	One-step Preparation of Nanoarchitectured TiO2 on Porous Al as Integrated Anode for High-performance Lithium-ion Batteries. Scientific Reports, 2016, 6, 20138.	1.6	27
26	Sustainably powering wearable electronics solely by biomechanical energy. Nature Communications, 2016, 7, 12744.	5.8	483
27	Allâ€Plasticâ€Materials Based Selfâ€Charging Power System Composed of Triboelectric Nanogenerators and Supercapacitors. Advanced Functional Materials, 2016, 26, 1070-1076.	7.8	190
28	Microwave-Assisted Synthesis of SnO₂@polypyrrole Nanotubes and Their Pyrolyzed Composite as Anode for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 15598-15606.	4.0	65
29	Capacitive characteristics of nanocomposites of conducting polypyrrole and functionalized carbon nanotubes: pulse current synthesis and tailoring. Journal of Solid State Electrochemistry, 2016, 20, 1413-1420.	1.2	3
30	Low-Cost Al₂O₃ Coating Layer As a Preformed SEI on Natural Graphite Powder To Improve Coulombic Efficiency and High-Rate Cycling Stability of Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 6512-6519.	4.0	89
31	Simple thermal decomposition method to synthesize LiTi2(PO4)3/C coreâ€“shell composite for lithium ion batteries. Journal of Solid State Electrochemistry, 2016, 20, 1889-1894.	1.2	4
32	Enhanced capacitance performance of Al2O3â€“TiO2 composite thin film via solâ€“gel using double chelators. Journal of Colloid and Interface Science, 2015, 443, 170-176.	5.0	15
33	The effect of K-Ion on the electrochemical performance of spinel LiMn2O4. Electronic Materials Letters, 2015, 11, 138-142.	1.0	6
34	Morphology controllable nano-sheet polypyrroleâ€“graphene composites for high-rate supercapacitor. Physical Chemistry Chemical Physics, 2015, 17, 19885-19894.	1.3	100
35	Graphene oxide sheets-induced growth of nanostructured Fe₃O₄ for a high-performance anode material of lithium ion batteries. Journal of Materials Chemistry A, 2015, 3, 12938-12946.	5.2	98
36	The effect of various electrolyte cations on electrochemical performance of polypyrrole/RGO based supercapacitors. Physical Chemistry Chemical Physics, 2015, 17, 28666-28673.	1.3	140

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37	Towards low-cost, high energy density Li₂MnO₃ cathode materials. Journal of Materials Chemistry A, 2015, 3, 670-679.	5.2	44
38	Towards ultrafine TiO2 nanocrystal at room temperature. Journal of Sol-Gel Science and Technology, 2014, 72, 310-313.	1.1	0
39	Synthesis and characterization of Nb, F-codoped titania nanoparticles for dye-sensitized solar cells. Journal of Materials Research, 2014, 29, 230-238.	1.2	3
40	The electrochemical performance of sodium-ion-modified spinel LiMn2O4 used for lithium-ion batteries. Journal of Solid State Electrochemistry, 2014, 18, 713-719.	1.2	12
41	The effect of Na0.44MnO2 formation in Na+-modified spinel LiMn2O4. Electronic Materials Letters, 2014, 10, 787-790.	1.0	1
42	Polyaniline with high crystallinity degree: Synthesis, structure, and electrochemical properties. Journal of Applied Polymer Science, 2014, 131, .	1.3	63
43	Electrochemical co-deposition and characterization of MnO2/SWNT composite for supercapacitor application. Journal of Materials Science: Materials in Electronics, 2013, 24, 1913-1920.	1.1	26
44	Corrosion behavior of different tantalum crystal faces in NH4Brâ€“ethanol solution and DFT calculation. Applied Surface Science, 2013, 280, 247-255.	3.1	12
45	In situ fabrication of Ni(OH)2 nanofibers on polypyrrole-based carbon nanotubes for high-capacitance supercapacitors. Materials Research Bulletin, 2013, 48, 1342-1345.	2.7	14
46	Nb, F-codoped TiO2 hollow spheres with high visible light photocatalytic activity. Nanoscale Research Letters, 2013, 8, 508.	3.1	4
47	High performance LiV0.96Mn0.04PO4F/C cathodes for lithium-ion batteries. Journal of Materials Chemistry A, 2013, 1, 2501.	5.2	62
48	Li2MnO3 stabilized LiNi1/3Co1/3Mn1/3O2 cathode with improved performance for lithium ion batteries. Applied Surface Science, 2013, 285, 235-240.	3.1	20
49	The composite rods of MnO and multi-walled carbon nanotubes as anode materials for lithium ion batteries. Journal of Power Sources, 2013, 244, 690-694.	4.0	47
50	Sodium substitution for partial lithium to significantly enhance theÂcycling stability of Li 2 MnO 3 cathode material. Journal of Power Sources, 2013, 243, 78-87.	4.0	50
51	First-principles study on the structural stability and electronic properties of AlN/GaN heterostructure nanoribbons. Superlattices and Microstructures, 2013, 57, 37-43.	1.4	2
52	Excellent stability of spinel LiMn2O4-based composites for lithium ion batteries. Journal of Materials Chemistry, 2012, 22, 24563.	6.7	48
53	Electropolymerized composite film of polypyrrole and functionalized multi-walled carbon nanotubes: effect of functionalization time on capacitive performance. Journal of Solid State Electrochemistry, 2012, 16, 1781-1789.	1.2	28
54	Synthesis and electrochemical characterization of multi-cations doped spinel LiMn2O4 used for lithium ion batteries. Journal of Power Sources, 2012, 199, 214-219.	4.0	135

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55	Electrochemical in situ polymerization of reduced graphene oxide/polypyrrole composite with high power density. Journal of Power Sources, 2012, 208, 138-143.	4.0	118
56	Double roles of aluminium ion on surface-modified spinel LiMn1.97Ti0.03O4. Journal of Materials Chemistry, 2011, 21, 4937.	6.7	34
57	Polymer-derived carbon nanofiber network supported SnO2 nanocrystals: a superior lithium secondary battery material. Journal of Materials Chemistry, 2011, 21, 19302.	6.7	30
58	Toward a high specific power and high stability polypyrrole supercapacitors. Synthetic Metals, 2011, 161, 1141-1144.	2.1	55
59	Electrochemical properties of tetravalent Ti-doped spinel LiMn2O4. Journal of Solid State Electrochemistry, 2011, 15, 1263-1269.	1.2	80
60	Template-free prepared micro/nanostructured polypyrrole with ultrafast charging/discharging rate and long cycle life. Journal of Power Sources, 2011, 196, 2373-2379.	4.0	141
61	Capacitive characteristics of nanocomposites of conducting polypyrrole and functionalized carbon nanotubes: effects of in situ dopant and film thickness. Journal of Solid State Electrochemistry, 2010, 14, 1565-1575.	1.2	17
62	High charge/discharge rate polypyrrole films prepared by pulse current polymerization. Synthetic Metals, 2010, 160, 1826-1831.	2.1	72
63	Formation of Al2O3â€“BaTiO3 nanocomposite oxide films on etched aluminum foil by solâ€“gel coating and anodizing. Journal of Sol-Gel Science and Technology, 2008, 45, 57-61.	1.1	16
64	Electrochemical capacitance of the composite of poly (3,4-ethylenedioxythiophene) and functionalized single-walled carbon nanotubes. Journal of Solid State Electrochemistry, 2008, 12, 947-952.	1.2	28