

Shuang Cheng

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

2,602
citations

331670

21
h-index

254184

43
g-index

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all docs

46
docs citations

46
times ranked

4509
citing authors

#	ARTICLE	IF	CITATIONS
1	Towards a broad-operation window for stable CO ₂ electroreduction to HCOOH by a design involving upcycling electroplating sludge-derived Sn@N/P-doped carbon. <i>Environmental Science: Nano</i> , 2022, 9, 511-522.	4.3	5
2	Target design towards HER inhibition for an electrolytic Mn//MnO ₂ aqueous battery with high discharge voltage. <i>Surfaces and Interfaces</i> , 2022, 29, 101782.	3.0	3
3	Energetic influence of methylene blue on the electrochemical performance of activated carbon in a water-in-salt electrolyte. <i>Ionics</i> , 2022, 28, 2481-2488.	2.4	1
4	Development and enhancement strategy of MoSe ₂ based anodes for aqueous Li-ion battery. <i>Journal of Science: Advanced Materials and Devices</i> , 2022, 7, 100455.	3.1	2
5	Fabrication of a cost-effective cation exchange membrane for advanced energy storage in a decoupled alkaline-neutral electrolyte system. <i>Chemical Engineering Journal</i> , 2022, 443, 136435.	12.7	5
6	Scientific Challenges and Improvement Strategies of Zn-Based Anodes for Aqueous Zn-Ion Batteries. <i>Chemical Record</i> , 2022, 22, .	5.8	9
7	Self-standing ultrathin NiCo ₂ S ₄ @carbon nanotubes and carbon nanotubes hybrid films as battery-type electrodes for advanced flexible supercapacitors. <i>Journal of Power Sources</i> , 2022, 543, 231829.	7.8	21
8	Target synthesis of dense C-coated ZnO for advanced lithium storage via a facile and cost-effective approach. <i>Ionics</i> , 2021, 27, 423-428.	2.4	5
9	Modulation on Radiative Recombination Rate of CdS Nanobelts by Selective Rare Earth Ions. <i>Crystal Research and Technology</i> , 2021, 56, 2000170.	1.3	0
10	Charge storage behavior and reaction mechanism of γ -Fe ₂ O ₃ as anodes for aqueous batteries. <i>Journal of Alloys and Compounds</i> , 2021, 859, 157789.	5.5	7
11	Achievement of a polymer-free KAc gel electrolyte for advanced aqueous K-Ion battery. <i>Energy Storage Materials</i> , 2021, 41, 133-140.	18.0	19
12	A facile and cost-effective approach to fabricate flexible graphene films for aqueous available current collectors. <i>Carbon</i> , 2020, 170, 264-269.	10.3	8
13	Achievement of high energy carbon based supercapacitors in acid solution enabled by the balance of SSA with abundant micropores and conductivity. <i>Electrochimica Acta</i> , 2020, 353, 136562.	5.2	9
14	Achieving Durable and Fast Charge Storage of MoO₂-Based Insertion-Type Pseudocapacitive Electrodes via N-Doped Carbon Coating . <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 2806-2813.	6.7	13
15	Targeted synthesis and reaction mechanism discussion of Mo ₂ C based insertion-type electrodes for advanced pseudocapacitors. <i>Journal of Materials Chemistry A</i> , 2020, 8, 7819-7827.	10.3	14
16	Achievement of high durability of γ -MnO ₂ based pseudocapacitive electrode enabled by Zn doping induced reattachment. <i>Journal of Alloys and Compounds</i> , 2020, 834, 155117.	5.5	7
17	Investigation into the electrochemical behaviour of silver in alkaline solution and the influence of Au-decoration using <i>in operando</i> Raman spectroscopy. <i>RSC Advances</i> , 2020, 10, 8453-8459.	3.6	9
18	Fast Energy Storage in Two-Dimensional MoO ₂ Enabled by Uniform Oriented Tunnels. <i>ACS Nano</i> , 2019, 13, 9091-9099.	14.6	59

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19	Facile synthesis of MoO ₂ /Mo-GO with high initial columbic efficiency and enhanced lithiation ability. <i>Materials Letters</i> , 2019, 254, 332-335.	2.6	6
20	Simple and Cost-Effective Approach To Dramatically Enhance the Durability and Capability of a Layered γ -MnO ₂ Based Electrode for Pseudocapacitors: A Practical Electrochemical Test and Mechanistic Revealing. <i>ACS Applied Energy Materials</i> , 2019, 2, 2743-2750.	5.1	17
21	A promising water-in-salt electrolyte for aqueous based electrochemical energy storage cells with a wide potential window: highly concentrated HCOOK. <i>Chemical Communications</i> , 2019, 55, 12817-12820.	4.1	35
22	Template synthesis of carbon-coated Co ₉ S ₈ composite with largely improved capacity for lithium ion batteries. <i>Materials Letters</i> , 2018, 217, 163-166.	2.6	18
23	Crystal Imperfection Modulation Engineering for Functionalization of Wide Band Gap Semiconductor Radiation Detector. <i>Advanced Electronic Materials</i> , 2018, 4, 1700307.	5.1	8
24	Synthesis of biomass-derived 3D porous graphene-like via direct solid-state transformation and its potential utilization in lithium-ion battery. <i>Ionics</i> , 2018, 24, 1879-1886.	2.4	16
25	Defect Engineering in Single-Layer MoS ₂ Using Heavy Ion Irradiation. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 42524-42533.	8.0	138
26	Enhanced capacitive performance of nickel oxide on porous La _{0.7} Sr _{0.3} CoO _{3-δ} ceramic substrate for electrochemical capacitors. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 19589-19599.	7.1	12
27	Improving the Electrocatalytic Activity and Durability of the La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O _{3-δ} Cathode by Surface Modification. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 39785-39793.	8.0	71
28	Fabrication of TiO ₂ coated porous CoMn ₂ O ₄ submicrospheres for advanced lithium-ion anodes. <i>RSC Advances</i> , 2017, 7, 21214-21220.	3.6	13
29	Construction and Performance Characterization of γ -Fe ₂ O ₃ /rGO Composite for Long-Cycling-Life Supercapacitor Anode. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 5067-5074.	6.7	98
30	Porous Functionalized Self-Standing Carbon Fiber Paper Electrodes for High-Performance Capacitive Energy Storage. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 13173-13180.	8.0	40
31	A Low-Cost, Self-Standing NiCo ₂ O ₄ @CNT/CNT Multilayer Electrode for Flexible Asymmetric Solid-State Supercapacitors. <i>Advanced Functional Materials</i> , 2017, 27, 1702160.	14.9	277
32	Investigation into the energy storage behaviour of layered γ -V ₂ O ₅ as a pseudo-capacitive electrode using operando Raman spectroscopy and a quartz crystal microbalance. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 24689-24695.	2.8	22
33	A high-performance electrode for supercapacitors: Silver nanoparticles grown on a porous perovskite-type material La _{0.7} Sr _{0.3} CoO _{3-δ} substrate. <i>Chemical Engineering Journal</i> , 2017, 328, 1-10.	12.7	69
34	In Operando Mechanism Analysis on Nanocrystalline Silicon Anode Material for Reversible and Ultrafast Sodium Storage. <i>Advanced Materials</i> , 2017, 29, 1604708.	21.0	95
35	Synthesis and Characterization of Self-Standing and Highly Flexible γ -MnO ₂ @CNTs/CNTs Composite Films for Direct Use of Supercapacitor Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 23721-23728.	8.0	83
36	A direct carbon solid oxide fuel cell operated on a plant derived biofuel with natural catalyst. <i>Applied Energy</i> , 2016, 179, 1232-1241.	10.1	67

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37	Investigation into the origin of high stability of γ -MnO ₂ pseudo-capacitive electrode using operando Raman spectroscopy. <i>Nano Energy</i> , 2016, 30, 293-302.	16.0	109
38	Ultrahigh-Performance Pseudocapacitor Electrodes Based on Transition Metal Phosphide Nanosheets Array via Phosphorization: A General and Effective Approach. <i>Advanced Functional Materials</i> , 2015, 25, 7530-7538.	14.9	359
39	Investigations into the origin of pseudocapacitive behavior of Mn ₃ O ₄ electrodes using in operando Raman spectroscopy. <i>Journal of Materials Chemistry A</i> , 2015, 3, 7338-7344.	10.3	104
40	A high-performance anode for lithium ion batteries: Fe ₃ O ₄ microspheres encapsulated in hollow graphene shells. <i>Journal of Materials Chemistry A</i> , 2015, 3, 11847-11856.	10.3	159
41	Phase transition-induced electrochemical performance enhancement of hierarchical CoCO ₃ /CoO nanostructure for pseudocapacitor electrode. <i>Nano Energy</i> , 2015, 11, 736-745.	16.0	65
42	Phase evolution of an alpha MnO ₂ -based electrode for pseudo-capacitors probed by in operando Raman spectroscopy. <i>Nano Energy</i> , 2014, 9, 161-167.	16.0	195
43	Carbon fiber paper supported hybrid nanonet/nanoflower nickel oxide electrodes for high-performance pseudo-capacitors. <i>Journal of Materials Chemistry A</i> , 2013, 1, 7709.	10.3	66
44	Anomalous Pseudocapacitive Behavior of a Nanostructured, Mixed-Valent Manganese Oxide Film for Electrical Energy Storage. <i>Nano Letters</i> , 2012, 12, 3483-3490.	9.1	234
45	Growth and photoluminescence of CdS and CdS:Mn Nanoribbons. <i>Materials Letters</i> , 2011, 65, 2776-2778.	2.6	30