

Shuang Cheng

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/622668/publications.pdf>

Version: 2024-02-01

45
papers

2,602
citations

331670

21
h-index

254184

43
g-index

46
all docs

46
docs citations

46
times ranked

4509
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | 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 |
| 2 | 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 |
| 3 | 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 |
| 4 | 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 |
| 5 | 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 |
| 6 | Defect Engineering in Single-Layer MoS ₂ Using Heavy Ion Irradiation. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 42524-42533. | 8.0 | 138 |
| 7 | 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 |
| 8 | 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 |
| 9 | 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 |
| 10 | 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 |
| 11 | 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 |
| 12 | Improving the Electrocatalytic Activity and Durability of the La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O ₃ γ Cathode by Surface Modification. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 39785-39793. | 8.0 | 71 |
| 13 | A high-performance electrode for supercapacitors: Silver nanoparticles grown on a porous perovskite-type material La _{0.7} Sr _{0.3} CoO ₃ γ substrate. <i>Chemical Engineering Journal</i> , 2017, 328, 1-10. | 12.7 | 69 |
| 14 | 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 |
| 15 | 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 |
| 16 | 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 |
| 17 | Fast Energy Storage in Two-Dimensional MoO ₂ Enabled by Uniform Oriented Tunnels. <i>ACS Nano</i> , 2019, 13, 9091-9099. | 14.6 | 59 |
| 18 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | 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 |
| 20 | Growth and photoluminescence of CdS and CdS:Mn Nanoribbons. <i>Materials Letters</i> , 2011, 65, 2776-2778. | 2.6 | 30 |
| 21 | Investigation into the energy storage behaviour of layered V_2O_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 |
| 22 | Self-standing ultrathin NiCo_2S_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 |
| 23 | 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 |
| 24 | Template synthesis of carbon-coated Co_9S_8 composite with largely improved capacity for lithium ion batteries. <i>Materials Letters</i> , 2018, 217, 163-166. | 2.6 | 18 |
| 25 | Simple and Cost-Effective Approach To Dramatically Enhance the Durability and Capability of a Layered 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 |
| 26 | 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 |
| 27 | Targeted synthesis and reaction mechanism discussion of Mo_2C based insertion-type electrodes for advanced pseudocapacitors. <i>Journal of Materials Chemistry A</i> , 2020, 8, 7819-7827. | 10.3 | 14 |
| 28 | Fabrication of TiO_2 coated porous CoMn_2O_4 submicrospheres for advanced lithium-ion anodes. <i>RSC Advances</i> , 2017, 7, 21214-21220. | 3.6 | 13 |
| 29 | Achieving Durable and Fast Charge Storage of MoO_2 -Based Insertion-Type Pseudocapacitive Electrodes via N-Doped Carbon Coating. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 2806-2813. | 6.7 | 13 |
| 30 | Enhanced capacitive performance of nickel oxide on porous $\text{La}_{0.7}\text{Sr}_{0.3}\text{CoO}_3$ ceramic substrate for electrochemical capacitors. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 19589-19599. | 7.1 | 12 |
| 31 | 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 |
| 32 | Investigation into the electrochemical behaviour of silver in alkaline solution and the influence of Au-decoration using operando Raman spectroscopy. <i>RSC Advances</i> , 2020, 10, 8453-8459. | 3.6 | 9 |
| 33 | Scientific Challenges and Improvement Strategies of Zn-Based Anodes for Aqueous Zn-Ion Batteries. <i>Chemical Record</i> , 2022, 22, . | 5.8 | 9 |
| 34 | Crystal Imperfection Modulation Engineering for Functionalization of Wide Band Gap Semiconductor Radiation Detector. <i>Advanced Electronic Materials</i> , 2018, 4, 1700307. | 5.1 | 8 |
| 35 | 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 |
| 36 | Achievement of high durability of MnO_2 based pseudocapacitive electrode enabled by Zn doping induced reattachment. <i>Journal of Alloys and Compounds</i> , 2020, 834, 155117. | 5.5 | 7 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 37 | Charge storage behavior and reaction mechanism of Fe_2O_3 as anodes for aqueous batteries. <i>Journal of Alloys and Compounds</i> , 2021, 859, 157789. | 5.5 | 7 |
| 38 | Facile synthesis of $\text{MoO}_2/\text{Mo-GO}$ with high initial columbic efficiency and enhanced lithiation ability. <i>Materials Letters</i> , 2019, 254, 332-335. | 2.6 | 6 |
| 39 | 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 |
| 40 | 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 |
| 41 | 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 |
| 42 | 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 |
| 43 | 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 |
| 44 | 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 |
| 45 | 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 |