

Pengcheng Sun

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

1,065
citations

687363

13
h-index

713466

21
g-index

23
all docs

23
docs citations

23
times ranked

1822
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Improved synthesis of Ti_3C_2Tx MXenes resulting in exceptional electrical conductivity, high synthesis yield, and enhanced capacitance. <i>Nanoscale</i> , 2021, 13, 3572-3580. | 5.6 | 228 |
| 2 | Bimetallic Cu-Pd alloy multipods and their highly electrocatalytic performance for formic acid oxidation and oxygen reduction. <i>Journal of Materials Chemistry A</i> , 2017, 5, 4421-4429. | 10.3 | 174 |
| 3 | High energy flexible supercapacitors formed via bottom-up infilling of gel electrolytes into thick porous electrodes. <i>Nature Communications</i> , 2018, 9, 2578. | 12.8 | 121 |
| 4 | Tribological Behaviour of a Lubricant Oil Containing Boron Nitride Nanoparticles. <i>Procedia Engineering</i> , 2015, 102, 1038-1045. | 1.2 | 107 |
| 5 | Reduced Graphene Oxide/Li Composite Lithium Ion Battery Cathodes. <i>Nano Letters</i> , 2017, 17, 6893-6899. | 9.1 | 67 |
| 6 | High Volumetric Capacity Three-Dimensionally Sphere-Caged Secondary Battery Anodes. <i>Nano Letters</i> , 2016, 16, 4501-4507. | 9.1 | 62 |
| 7 | Electroplating lithium transition metal oxides. <i>Science Advances</i> , 2017, 3, e1602427. | 10.3 | 62 |
| 8 | Rheological and tribological behaviour of lubricating oils containing platelet MoS ₂ nanoparticles. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1. | 1.9 | 43 |
| 9 | High-Performance Packaged 3D Lithium-Ion Microbatteries Fabricated Using Imprint Lithography. <i>Advanced Materials</i> , 2021, 33, e2006229. | 21.0 | 43 |
| 10 | High capacity 3D structured tin-based electroplated Li-ion battery anodes. <i>Energy Storage Materials</i> , 2019, 17, 151-156. | 18.0 | 36 |
| 11 | Two-dimensional IrO ₂ /MnO ₂ enabling conformal growth of amorphous Li ₂ O ₂ for high-performance Li-O ₂ batteries. <i>Energy Storage Materials</i> , 2017, 9, 206-213. | 18.0 | 32 |
| 12 | Carbon black/octadecane composites for room temperature electrical and thermal regulation. <i>Carbon</i> , 2015, 94, 417-423. | 10.3 | 24 |
| 13 | A Nearly Packaging-Free Design Paradigm for Light, Powerful, and Energy-Dense Primary Microbatteries. <i>Advanced Materials</i> , 2021, 33, e2101760. | 21.0 | 17 |
| 14 | Tuning the Mechanical and Electrical Properties of Porous Electrodes for Architecting 3D Microsupercapacitors with Batteries-Level Energy. <i>Advanced Science</i> , 2021, 8, e2004957. | 11.2 | 16 |
| 15 | Scalable fabrication of high-performance micro-supercapacitors by embedding thick interdigital microelectrodes into microcavities. <i>Nanoscale</i> , 2019, 11, 19772-19782. | 5.6 | 7 |
| 16 | Improved field electron emission from SiC assisted carbon nanorod/nanotube heterostructured arrays by using energetic Si ion irradiation. <i>Surface and Coatings Technology</i> , 2013, 228, S323-S327. | 4.8 | 6 |
| 17 | Enhanced Electron Field Emission from Carbon Nanotubes Irradiated by Energetic C Ions. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 6510-6515. | 0.9 | 5 |
| 18 | PTC MWCNT/DI-water switchable composites. <i>Journal of Materials Chemistry A</i> , 2015, 3, 5270-5274. | 10.3 | 5 |

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|----|---|------|-----------|
| 19 | Compact 3D Metal Collectors Enabled by Roll-to-Roll Nanoimprinting for Improving Capacitive Energy Storage. <i>Small Methods</i> , 2022, 6, e2101539. | 8.6 | 5 |
| 20 | Adhesive Enhancement Improved Field Emission Characteristics of Carbon Nanotube Arrays on Energetic Ion Pre-Bombarded Si Substrates. <i>Key Engineering Materials</i> , 2011, 483, 589-594. | 0.4 | 4 |
| 21 | H plasma processing triggered phase transformation from DLC to diamond nano-particles. <i>Diamond and Related Materials</i> , 2012, 25, 45-49. | 3.9 | 1 |
| 22 | A Nearly Packaging-Free Design Paradigm for Light, Powerful, and Energy-Dense Primary Microbatteries (<i>Adv. Mater.</i> 35/2021). <i>Advanced Materials</i> , 2021, 33, 2170275. | 21.0 | 0 |