

He Zhang

List of Publications by Year in descending order

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33
papers

638
citations

567281

15
h-index

610901

24
g-index

33
all docs

33
docs citations

33
times ranked

675
citing authors

#	ARTICLE	IF	CITATIONS
1	Controlled Synthesis of Tellurium Nanostructures from Nanotubes to Nanorods and Nanowires and Their Template Applications. <i>Journal of Physical Chemistry C</i> , 2011, 115, 6375-6380.	3.1	83
2	Highly stable flexible transparent electrode via rapid electrodeposition coating of Ag-Au alloy on copper nanowires for bifunctional electrochromic and supercapacitor device. <i>Chemical Engineering Journal</i> , 2020, 399, 125075.	12.7	57
3	Enabling <i>In Vivo</i> Photocatalytic Activation of Rapid Bioorthogonal Chemistry by Repurposing Silicon-Rhodamine Fluorophores as Cytocompatible Far-Red Photocatalysts. <i>Journal of the American Chemical Society</i> , 2021, 143, 10793-10803.	13.7	47
4	Glass-on-LiNbO ₃ heterostructure formed via a two-step plasma activated low-temperature direct bonding method. <i>Applied Surface Science</i> , 2018, 459, 621-629.	6.1	42
5	Self-Limited Nanosoldering of Silver Nanowires for High-Performance Flexible Transparent Heaters. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 21850-21858.	8.0	42
6	Electrodeposition fabrication of Cu@Ni core shell nanowire network for highly stable transparent conductive films. <i>Chemical Engineering Journal</i> , 2020, 390, 124495.	12.7	38
7	Robust Cu-Au alloy nanowires flexible transparent electrode for asymmetric electrochromic energy storage device. <i>Chemical Engineering Journal</i> , 2021, 426, 131438.	12.7	34
8	High-efficiency extraction synthesis for high-purity copper nanowires and their applications in flexible transparent electrodes. <i>Nano Materials Science</i> , 2020, 2, 164-171.	8.8	27
9	TiO ₂ -Coated Core-Shell Ag Nanowire Networks for Robust and Washable Flexible Transparent Electrodes. <i>ACS Applied Nano Materials</i> , 2019, 2, 2456-2466.	5.0	26
10	High-performance conductive adhesives based on water-soluble resins for printed circuits, flexible conductive films, and electromagnetic interference shielding devices. <i>Advanced Composites and Hybrid Materials</i> , 2022, 5, 1730-1742.	21.1	26
11	Fabrication of Novel Printable Electrically Conductive Adhesives (ECAs) with Excellent Conductivity and Stability Enhanced by the Addition of Polyaniline Nanoparticles. <i>Nanomaterials</i> , 2019, 9, 960.	4.1	22
12	High-Performance Conductive Polymer Composites by Incorporation of Polyaniline-Wrapped Halloysite Nanotubes and Silver Microflakes. <i>ACS Applied Polymer Materials</i> , 2022, 4, 3352-3360.	4.4	18
13	An eco-friendly water-assisted polyol method to enhance the aspect ratio of silver nanowires. <i>RSC Advances</i> , 2019, 9, 1933-1938.	3.6	17
14	Fabrication of Ag@Ag ₂ O-MnOx composite nanowires for high-efficient room-temperature removal of formaldehyde. <i>Journal of Materials Science and Technology</i> , 2021, 91, 5-16.	10.7	16
15	Tri-wing bismuth telluride nanoribbons with quasi-periodic rough surfaces. <i>Journal of Materials Chemistry</i> , 2011, 21, 12375.	6.7	15
16	Cellular interactions with hydrogel microfibers synthesized via interfacial tetrazine ligation. <i>Biomaterials</i> , 2018, 180, 24-35.	11.4	15
17	Controlled hydrothermal synthesis of tri-wing tellurium nanoribbons and their template reaction. <i>CrystEngComm</i> , 2012, 14, 251-255.	2.6	12
18	Enhanced mechanical properties of Nylon6 nanocomposites containing pristine β -zirconium phosphate nanoplatelets of various sizes by melt-compounding. <i>RSC Advances</i> , 2017, 7, 32682-32691.	3.6	12

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19	Transient solid-liquid interfacial reaction between Al wire and Au/Cu pad during parallel gap micro-resistance welding. <i>Materials Letters</i> , 2021, 288, 129340.	2.6	12
20	One-Step Fabrication of Copper Nanopillar Array-Filled AAO Films by Pulse Electrodeposition for Anisotropic Thermal Conductive Interconnectors. <i>ACS Omega</i> , 2019, 4, 6092-6096.	3.5	11
21	Silver flake/polyaniline composite ink for electrohydrodynamic printing of flexible heaters. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 27373-27383.	2.2	9
22	Ultrafast Parallel Micro-Gap Resistance Welding of an AuNi9 Microwire and Au Microlayer. <i>Micromachines</i> , 2021, 12, 51.	2.9	8
23	Joining of copper nanowires by electrodepositing silver layer for high-performance transparent electrode. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2021, 65, 1021-1030.	2.5	8
24	Phase transformation behavior of Al-Au-Cu intermetallic compounds under ultra-fast micro resistance bonding process. <i>Materials Characterization</i> , 2021, 180, 111401.	4.4	7
25	Core-Shell Microfibers via Bioorthogonal Layer-by-Layer Assembly. <i>ACS Macro Letters</i> , 2020, 9, 1369-1375.	4.8	6
26	Highly stable and printable Ag NWs/GO/PVP composite ink for flexible electronics. <i>Flexible and Printed Electronics</i> , 2021, 6, 024002.	2.7	6
27	Rapid sintering of copper nanopaste by pulse current for power electronics packaging. , 2017, , .		5
28	A Modified Interposer Fabrication Process by Copper Nano-Pillars Filled in Anodic Aluminum Oxide Film for 3D Electronic Package. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 2188.	2.5	5
29	Tunable Synthesis of Hydrogel Microfibers via Interfacial Tetrazine Ligation. <i>Biomacromolecules</i> , 2022, 23, 3017-3030.	5.4	4
30	Growth kinetics of $(\text{Cu}_x\text{Ni}_{1-x})_6\text{Sn}_5$ intermetallic compound at the interface of mixed Sn63Pb37/SAC305 BGA solder joints during thermal aging test. <i>Materials Research Express</i> , 2021, 8, 106301.	1.6	3
31	Pyridine-functionalized fullerene derivative as an independent electron transport layer enabling efficient and hysteresis-free regular perovskite solar cells. <i>Nano Select</i> , 2021, 2, 2192-2200.	3.7	2
32	A Dual pH/O ₂ Sensing Film Based on Functionalized Electrospun Nanofibers for Real-Time Monitoring of Cellular Metabolism. <i>Molecules</i> , 2022, 27, 1586.	3.8	2
33	Magnetically Reusable and Well-dispersed Nanoparticles for Oxygen Detection in Water. <i>Journal of Fluorescence</i> , 0, , .	2.5	1