Pengli Zhu

List of Publications by Year
in descending order

61	2,447	257101	329751
papers	citations	24 h-index	37 g-index

61	61	61	3197
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Tailorable, Lightweight and Superelastic Liquid Metal Monoliths for Multifunctional Electromagnetic Interference Shielding. Nano-Micro Letters, 2022, 14, 29.	14.4	49
2	Pressureless and low temperature sintering by Ag paste for the high temperature die-attachment in power device packaging. , 2022, , .		2
3	Anisotropy of curing residual stress of underfill in the encapsulation under three-dimensionally constrained condition based on in-situ characterization. , 2022, , .		0
4	Reconstructing more sinterable surfaces for copper nanoparticles to form high-strength Cu-Cu joints in air atmosphere. , 2022, , .		2
5	Flexible, Highly Sensitive, and Ultrafast Responsive Pressure Sensor with Stochastic Microstructures for Human Health Monitoring. Advanced Engineering Materials, 2021, 23, 2000902.	1.6	20
6	Investigation into Electrical Conductivity and Electromagnetic Interference Shielding Performance of Ag/TPU Hybrids Filled with Various Silver Fillers. , 2021, , .		1
7	Low-temperature MOD assisted sintering of Ag nanoparticles for power device die-attach. , 2021, , .		0
8	Improved Reliability of Silver Nanowire-Based Composites by Electroplating: A Theoretical and Experimental Study. ACS Applied Electronic Materials, 2021, 3, 3329-3337.	2.0	4
9	Investigation on the structural quality dependent electromagnetic interference shielding performance of few-layer and lamellar Nb2CTx MXene nanostructures. Journal of Alloys and Compounds, 2021, 877, 160235.	2.8	19
10	Rapid metallization by copper electroplating on insulating substrate using silver nanowires conductive composite as seed layer. Composites Communications, 2021, 27, 100819.	3.3	8
11	Synergistic size and shape effect of dendritic silver nanostructures for low-temperature sintering of paste as die attach materials. Journal of Materials Science: Materials in Electronics, 2021, 32, 323-336.	1.1	8
12	Cu-Cu joint formation by sintering of self-reducible Cu nanoparticle paste assisted by MOD under air condition. , 2021, , .		0
13	Underfill Filler Settling Effect on the Adhesive Force of Flip Chip Packages. , 2021, , .		1
14	The Particle Interaction Analysis for Nanoparticles in Underfill for Flip-Chip Packaging-. , 2021, , .		0
15	Synthesis of Air-Sinterable Copper Nanoparticles for Die-Attachment. , 2021, , .		3
16	Comparative Analysis of Temperature-induced Micro-scale Deformation of Package by Experiment and Finite Element Analysis. , 2021, , .		3
17	Interaction of silane coupling agents with nano-silica probed by nano-IR*. , 2021, , .		0
18	Key factor analysis of nano silica on the dispersion in underfill. , 2021, , .		0

#	Article	IF	Citations
19	Effects of Surface Oxidation Treatments on the Interfacial Adhesion between Copper and Underfill. , 2021, , .		1
20	The Effect of Toughening Agents on Capillary Underfill in the Flip Chip Package. , 2021, , .		1
21	Characterization and Verification of Viscoelastic Constitutive Parameters of Underfill Material. , 2021, , .		5
22	Low Temperature Sintered Silver Nanoflake Paste for Power Device Packaging and Its Anisotropic Sintering Mechanism. ACS Applied Electronic Materials, 2021, 3, 5365-5373.	2.0	10
23	A flexible, ultra-highly sensitive and stable capacitive pressure sensor with convex microarrays for motion and health monitoring. Nano Energy, 2020, 70, 104436.	8.2	344
24	Highly sensitive flexible capacitive pressure sensor with a broad linear response range and finite element analysis of micro-array electrode. Journal of Materiomics, 2020, 6, 321-329.	2.8	50
25	Preparation and Low Temperature Sintering of Silver Nanoparticles Based Pastes for Power Semiconductor Device Interaction. , 2020, , .		1
26	Exfoliation and Defect Control of Two-Dimensional Few-Layer MXene Ti₃C₂T_x for Electromagnetic Interference Shielding Coatings. ACS Applied Materials & Interfaces, 2020, 12, 49737-49747.	4.0	64
27	Ultrathin Densified Carbon Nanotube Film with â€œMetal-likeâ€•Conductivity, Superior Mechanical Strength, and Ultrahigh Electromagnetic Interference Shielding Effectiveness. ACS Nano, 2020, 14, 14134-14145.	7.3	162
28	Versatile Biomass Carbon Foams for Fast Oilâ€“Water Separation, Flexible Pressure-Strain Sensors, and Electromagnetic Interference Shielding. Industrial & Engineering Chemistry Research, 2020, 59, 20740-20748.	1.8	25
29	Stretchable and Printable Conductive Polymer Composites for Electromagnetic Interference (EMI) Shielding Meshes. , 2020, , .		1
30	Highly Sensitive and Stretchable Strain Sensor Based on a Synergistic Hybrid Conductive Network. ACS Applied Materials & Interfaces, 2020, 12, 42420-42429.	4.0	46
31	Lightweight and Flexible Fe₃O₄/MXene/Cellulose Nanofiber Film with Gradient and Sandwich Structure for Superior EMI Shielding Properties. , 2020, , .		1
32	Flexible and Highly Sensitive Pressure Sensors with Surface Discrete Microdomes Made from Selfâ€Assembled Polymer Microspheres Array. Macromolecular Chemistry and Physics, 2020, 221, 2000073.	1.1	30
33	A flexible pressure sensor based on melamine foam capped by copper nanowires and reduced graphene oxide. Materials Today Communications, 2020, 24, 100970.	0.9	32
34	Transparent and flexible hybrid nanogenerator with welded silver nanowire networks as the electrodes for mechanical energy harvesting and physiological signal monitoring. Smart Materials and Structures, 2020, 29, 045040.	1.8	25
35	Facile and Efficient Welding of Silver Nanowires Based on UVAâ€Induced Nanoscale Photothermal Process for Rollâ€toâ€Roll Manufacturing of Highâ€Performance Transparent Conducting Films. Advanced Materials Interfaces, 2019, 6, 1801635.	1.9	30
36	A Highly Sensitive and Costâ€Effective Flexible Pressure Sensor with Micropillar Arrays Fabricated by Novel Metalâ€Assisted Chemical Etching for Wearable Electronics. Advanced Materials Technologies, 2019, 4, 1900367.	3.0	34

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37	Cationic Polyelectrolyte Bridged Boron Nitride Microplatelet Based Poly(vinyl alcohol) Composite: A Novel Method toward High Thermal Conductivity. Advanced Materials Interfaces, 2019, 6, 1900787.	1.9	24
38	In-Situ Redox Nanowelding of Copper Nanowires with Surficial Oxide Layer as Solder for Flexible Transparent Electromagnetic Interference Shielding. , 2019, , .		2
39	Electrodeposition of Co(OH)₂ Improving Carbonized Melamine Foam Performance for Compressible Supercapacitor Application. ACS Sustainable Chemistry and Engineering, 2019, 7, 16803-16813.	3.2	54
40	Alumina-Coated Cu@Reduced Graphene Oxide Microspheres as Enhanced Antioxidative and Electrically Insulating Fillers for Thermal Interface Materials with High Thermal Conductivity. ACS Applied Electronic Materials, 2019, 1, 1330-1335.	2.0	17
41	Facile and scalable fabrication of self-assembled Cu architecture with superior antioxidative properties and improved sinterability as a conductive ink for flexible electronics. Nanotechnology, 2019, 30, 355601.	1.3	6
42	Highly transparent triboelectric nanogenerator utilizing in-situ chemically welded silver nanowire network as electrode for mechanical energy harvesting and body motion monitoring. Nano Energy, 2019, 59, 508-516.	8.2	69
43	PVP-Mediated Galvanic Replacement Synthesis of Smart Elliptic Cuâ€“Ag Nanoflakes for Electrically Conductive Pastes. ACS Applied Materials & Interfaces, 2019, 11, 8382-8390.	4.0	32
44	Copper nanoplates based conductive paste as die attachment materials for power semiconductor device package. , 2019, , .		0
45	Electromagnetic Interference Shielding Properties of 2D MXene (Ti3C2Tx) by Metal nanoparticles Loading. , 2019, , .		1
46	Study on conductive paste of silver particles for power semiconductor devices package. , 2019, , .		0
47	Laboratory filter paper as a substrate material for flexible supercapacitors. Sustainable Energy and Fuels, 2018, 2, 147-154.	2.5	27
48	A low-cost, printable, and stretchable strain sensor based on highly conductive elastic composites with tunable sensitivity for human motion monitoring. Nano Research, 2018, 11, 1938-1955.	5.8	99
49	A highly sensitive and flexible capacitive pressure sensor based on a micro-arrayed polydimethylsiloxane dielectric layer. Journal of Materials Chemistry C, 2018, 6, 13232-13240.	2.7	160
50	Multidimensional Ternary Hybrids with Synergistically Enhanced Electrical Performance for Conductive Nanocomposites and Prosthetic Electronic Skin. ACS Applied Materials & Interfaces, 2018, 10, 38493-38505.	4.0	23
51	Cost-Efficient Formation of Flexible Pressure Sensor with Micropillar Arrays by Metal-Assisted Chemical Etching for Wearable Electronic Skin. , 2018, , .		0
52	A cobalt hydroxide-based compressible electrode material for asymmetrical all-solid supercapacitors. Sustainable Energy and Fuels, 2018, 2, 2345-2357.	2.5	30
53	Enhanced oxidation resistance and electrical conductivity copper nanowiresâ€“graphene hybrid films for flexible strain sensors. New Journal of Chemistry, 2017, 41, 4950-4958.	1.4	25
54	Flexible and Highly Sensitive Pressure Sensor Based on Microdome-Patterned PDMS Forming with Assistance of Colloid Self-Assembly and Replica Technique for Wearable Electronics. ACS Applied Materials & Interfaces, 2017, 9, 35968-35976.	4.0	200

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55	Highly Sensitive Flexible Pressure Sensor Based on Silver Nanowires-Embedded Polydimethylsiloxane Electrode with Microarray Structure. ACS Applied Materials & Interfaces, 2017, 9, 26314-26324.	4.0	234
56	Room-Temperature Nanowelding of a Silver Nanowire Network Triggered by Hydrogen Chloride Vapor for Flexible Transparent Conductive Films. ACS Applied Materials & Interfaces, 2017, 9, 40857-40867.	4.0	68
57	Flexible Asymmetrical Solid-State Supercapacitors Based on Laboratory Filter Paper. ACS Nano, 2016, 10, 1273-1282.	7.3	215
58	Preparation of large micron-sized monodisperse polystyrene/silver coreâ€“shell microspheres with compact shell structure and their electrical conductive and catalytic properties. RSC Advances, 2015, 5, 58-67.	1.7	37
59	Facile Preparation of Monodisperse, Impurity-Free, and Antioxidation Copper Nanoparticles on a Large Scale for Application in Conductive Ink. ACS Applied Materials & Interfaces, 2014, 6, 560-567.	4.0	129
60	CuCl2and stainless steel synergistically assisted synthesis of high-purity silver nanowires on a large scale. RSC Advances, 2014, 4, 47536-47539.	1.7	8
61	Ultrathin Manganese Dioxide Nanosheets Grown on Mesoporous Carbon Hollow Spheres for High Performance Asymmetrical Supercapacitors. ACS Applied Energy Materials, 0, , .	2.5	5