

# Pengli Zhu

## List of Publications by Year in descending order

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Version: 2024-02-01

61  
papers

2,447  
citations

257101

24  
h-index

329751

37  
g-index

61  
all docs

61  
docs citations

61  
times ranked

3197  
citing authors

#	ARTICLE	IF	CITATIONS
1	A flexible, ultra-highly sensitive and stable capacitive pressure sensor with convex microarrays for motion and health monitoring. <i>Nano Energy</i> , 2020, 70, 104436.	8.2	344
2	Highly Sensitive Flexible Pressure Sensor Based on Silver Nanowires-Embedded Polydimethylsiloxane Electrode with Microarray Structure. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 26314-26324.	4.0	234
3	Flexible Asymmetrical Solid-State Supercapacitors Based on Laboratory Filter Paper. <i>ACS Nano</i> , 2016, 10, 1273-1282.	7.3	215
4	Flexible and Highly Sensitive Pressure Sensor Based on Microdome-Patterned PDMS Forming with Assistance of Colloid Self-Assembly and Replica Technique for Wearable Electronics. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 35968-35976.	4.0	200
5	Ultrathin Densified Carbon Nanotube Film with "Metal-like" Conductivity, Superior Mechanical Strength, and Ultrahigh Electromagnetic Interference Shielding Effectiveness. <i>ACS Nano</i> , 2020, 14, 14134-14145.	7.3	162
6	A highly sensitive and flexible capacitive pressure sensor based on a micro-arrayed polydimethylsiloxane dielectric layer. <i>Journal of Materials Chemistry C</i> , 2018, 6, 13232-13240.	2.7	160
7	Facile Preparation of Monodisperse, Impurity-Free, and Antioxidation Copper Nanoparticles on a Large Scale for Application in Conductive Ink. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 560-567.	4.0	129
8	A low-cost, printable, and stretchable strain sensor based on highly conductive elastic composites with tunable sensitivity for human motion monitoring. <i>Nano Research</i> , 2018, 11, 1938-1955.	5.8	99
9	Highly transparent triboelectric nanogenerator utilizing in-situ chemically welded silver nanowire network as electrode for mechanical energy harvesting and body motion monitoring. <i>Nano Energy</i> , 2019, 59, 508-516.	8.2	69
10	Room-Temperature Nanowelding of a Silver Nanowire Network Triggered by Hydrogen Chloride Vapor for Flexible Transparent Conductive Films. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 40857-40867.	4.0	68
11	Exfoliation and Defect Control of Two-Dimensional Few-Layer MXene $\text{Ti}_3\text{C}_2\text{T}_x$ for Electromagnetic Interference Shielding Coatings. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 49737-49747.	4.0	64
12	Electrodeposition of $\text{Co(OH)}_2$ Improving Carbonized Melamine Foam Performance for Compressible Supercapacitor Application. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 16803-16813.	3.2	54
13	Highly sensitive flexible capacitive pressure sensor with a broad linear response range and finite element analysis of micro-array electrode. <i>Journal of Materiomics</i> , 2020, 6, 321-329.	2.8	50
14	Tailorable, Lightweight and Superelastic Liquid Metal Monoliths for Multifunctional Electromagnetic Interference Shielding. <i>Nano-Micro Letters</i> , 2022, 14, 29.	14.4	49
15	Highly Sensitive and Stretchable Strain Sensor Based on a Synergistic Hybrid Conductive Network. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 42420-42429.	4.0	46
16	Preparation of large micron-sized monodisperse polystyrene/silver core-shell microspheres with compact shell structure and their electrical conductive and catalytic properties. <i>RSC Advances</i> , 2015, 5, 58-67.	1.7	37
17	A Highly Sensitive and Cost-Effective Flexible Pressure Sensor with Micropillar Arrays Fabricated by Novel Metal-Assisted Chemical Etching for Wearable Electronics. <i>Advanced Materials Technologies</i> , 2019, 4, 1900367.	3.0	34
18	PVP-Mediated Galvanic Replacement Synthesis of Smart Elliptic $\text{Cu@Ag}$ Nanoflakes for Electrically Conductive Pastes. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 8382-8390.	4.0	32

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19	A flexible pressure sensor based on melamine foam capped by copper nanowires and reduced graphene oxide. <i>Materials Today Communications</i> , 2020, 24, 100970.	0.9	32
20	Facile and Efficient Welding of Silver Nanowires Based on UVA-Induced Nanoscale Photothermal Process for Roll-to-Roll Manufacturing of High-Performance Transparent Conducting Films. <i>Advanced Materials Interfaces</i> , 2019, 6, 1801635.	1.9	30
21	A cobalt hydroxide-based compressible electrode material for asymmetrical all-solid supercapacitors. <i>Sustainable Energy and Fuels</i> , 2018, 2, 2345-2357.	2.5	30
22	Flexible and Highly Sensitive Pressure Sensors with Surface Discrete Microdomes Made from Self-Assembled Polymer Microspheres Array. <i>Macromolecular Chemistry and Physics</i> , 2020, 221, 2000073.	1.1	30
23	Laboratory filter paper as a substrate material for flexible supercapacitors. <i>Sustainable Energy and Fuels</i> , 2018, 2, 147-154.	2.5	27
24	Enhanced oxidation resistance and electrical conductivity copper nanowires-graphene hybrid films for flexible strain sensors. <i>New Journal of Chemistry</i> , 2017, 41, 4950-4958.	1.4	25
25	Versatile Biomass Carbon Foams for Fast Oil-Water Separation, Flexible Pressure-Strain Sensors, and Electromagnetic Interference Shielding. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 20740-20748.	1.8	25
26	Transparent and flexible hybrid nanogenerator with welded silver nanowire networks as the electrodes for mechanical energy harvesting and physiological signal monitoring. <i>Smart Materials and Structures</i> , 2020, 29, 045040.	1.8	25
27	Cationic Polyelectrolyte Bridged Boron Nitride Microplatelet Based Poly(vinyl alcohol) Composite: A Novel Method toward High Thermal Conductivity. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900787.	1.9	24
28	Multidimensional Ternary Hybrids with Synergistically Enhanced Electrical Performance for Conductive Nanocomposites and Prosthetic Electronic Skin. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 38493-38505.	4.0	23
29	Flexible, Highly Sensitive, and Ultrafast Responsive Pressure Sensor with Stochastic Microstructures for Human Health Monitoring. <i>Advanced Engineering Materials</i> , 2021, 23, 2000902.	1.6	20
30	Investigation on the structural quality dependent electromagnetic interference shielding performance of few-layer and lamellar Nb <sub>2</sub> CT <sub>x</sub> MXene nanostructures. <i>Journal of Alloys and Compounds</i> , 2021, 877, 160235.	2.8	19
31	Alumina-Coated Cu@Reduced Graphene Oxide Microspheres as Enhanced Antioxidative and Electrically Insulating Fillers for Thermal Interface Materials with High Thermal Conductivity. <i>ACS Applied Electronic Materials</i> , 2019, 1, 1330-1335.	2.0	17
32	Low Temperature Sintered Silver Nanoflake Paste for Power Device Packaging and Its Anisotropic Sintering Mechanism. <i>ACS Applied Electronic Materials</i> , 2021, 3, 5365-5373.	2.0	10
33	CuCl <sub>2</sub> and stainless steel synergistically assisted synthesis of high-purity silver nanowires on a large scale. <i>RSC Advances</i> , 2014, 4, 47536-47539.	1.7	8
34	Rapid metallization by copper electroplating on insulating substrate using silver nanowires conductive composite as seed layer. <i>Composites Communications</i> , 2021, 27, 100819.	3.3	8
35	Synergistic size and shape effect of dendritic silver nanostructures for low-temperature sintering of paste as die attach materials. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 323-336.	1.1	8
36	Facile and scalable fabrication of self-assembled Cu architecture with superior antioxidative properties and improved sinterability as a conductive ink for flexible electronics. <i>Nanotechnology</i> , 2019, 30, 355601.	1.3	6

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37	Ultrathin Manganese Dioxide Nanosheets Grown on Mesoporous Carbon Hollow Spheres for High Performance Asymmetrical Supercapacitors. ACS Applied Energy Materials, 0, , .	2.5	5
38	Characterization and Verification of Viscoelastic Constitutive Parameters of Underfill Material. , 2021, , .		5
39	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
40	Synthesis of Air-Sinterable Copper Nanoparticles for Die-Attachment. , 2021, , .		3
41	Comparative Analysis of Temperature-induced Micro-scale Deformation of Package by Experiment and Finite Element Analysis. , 2021, , .		3
42	In-Situ Redox Nanowelding of Copper Nanowires with Surficial Oxide Layer as Solder for Flexible Transparent Electromagnetic Interference Shielding. , 2019, , .		2
43	Pressureless and low temperature sintering by Ag paste for the high temperature die-attachment in power device packaging. , 2022, , .		2
44	Reconstructing more sinterable surfaces for copper nanoparticles to form high-strength Cu-Cu joints in air atmosphere. , 2022, , .		2
45	Electromagnetic Interference Shielding Properties of 2D MXene (Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> ) by Metal nanoparticles Loading. , 2019, , .		1
46	Preparation and Low Temperature Sintering of Silver Nanoparticles Based Pastes for Power Semiconductor Device Interaction. , 2020, , .		1
47	Stretchable and Printable Conductive Polymer Composites for Electromagnetic Interference (EMI) Shielding Meshes. , 2020, , .		1
48	Lightweight and Flexible Fe <sub>3</sub> O <sub>4</sub> /MXene/Cellulose Nanofiber Film with Gradient and Sandwich Structure for Superior EMI Shielding Properties. , 2020, , .		1
49	Investigation into Electrical Conductivity and Electromagnetic Interference Shielding Performance of Ag/TPU Hybrids Filled with Various Silver Fillers. , 2021, , .		1
50	Underfill Filler Settling Effect on the Adhesive Force of Flip Chip Packages. , 2021, , .		1
51	Effects of Surface Oxidation Treatments on the Interfacial Adhesion between Copper and Underfill. , 2021, , .		1
52	The Effect of Toughening Agents on Capillary Underfill in the Flip Chip Package. , 2021, , .		1
53	Cost-Efficient Formation of Flexible Pressure Sensor with Micropillar Arrays by Metal-Assisted Chemical Etching for Wearable Electronic Skin. , 2018, , .		0
54	Copper nanoplates based conductive paste as die attachment materials for power semiconductor device package. , 2019, , .		0

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55	Study on conductive paste of silver particles for power semiconductor devices package. , 2019, , .		0
56	Low-temperature MOD assisted sintering of Ag nanoparticles for power device die-attach. , 2021, , .		0
57	Cu-Cu joint formation by sintering of self-reducible Cu nanoparticle paste assisted by MOD under air condition. , 2021, , .		0
58	The Particle Interaction Analysis for Nanoparticles in Underfill for Flip-Chip Packaging-. , 2021, , .		0
59	Interaction of silane coupling agents with nano-silica probed by nano-IR*. , 2021, , .		0
60	Key factor analysis of nano silica on the dispersion in underfill. , 2021, , .		0
61	Anisotropy of curing residual stress of underfill in the encapsulation under three-dimensionally constrained condition based on in-situ characterization. , 2022, , .		0