Cheng-Peng Jiang

List of Publications by Year
in descending order

20 papers	551 citations	567281 15 h-index	752698 20 g-index
20 all docs	20 docs citations	20 times ranked	735 citing authors

#	Article	IF	Citations
1	A neuromorphic device mimicking synaptic plasticity under different body fluid K+ homeostasis for artificial reflex path construction and pattern recognition. Fundamental Research, 2022, , .	3.3	1
2	A Flexible Artificial Sensory Nerve Enabled by Nanoparticleâ€Assembled Synaptic Devices for Neuromorphic Tactile Recognition. Advanced Science, 2022, 9, .	11.2	24
3	Ultrafast-response/recovery capacitive humidity sensor based on arc-shaped hollow structure with nanocone arrays for human physiological signals monitoring. Sensors and Actuators B: Chemical, 2021, 334, 129637.	7.8	58
4	Fingerâ€Skinâ€Inspired Flexible Optical Sensor for Force Sensing and Slip Detection in Robotic Grasping. Advanced Materials Technologies, 2021, 6, 2100285.	5.8	36
5	Wafer-Scale Fabrication and Assembly Method of Multichannel Microelectrode Arrays for ECoG Application. Electronics (Switzerland), 2021, 10, 316.	3.1	1
6	A high-resolution, ultrabroad-range and sensitive capacitive tactile sensor based on a CNT/PDMS composite for robotic hands. Nanoscale, 2021, 13, 18780-18788.	5.6	33
7	Digitally aligned ZnO nanowire array based synaptic transistors with intrinsically controlled plasticity for short-term computation and long-term memory. Nanoscale, 2021, 13, 19190-19199.	5.6	8
8	Ultrafast Detection and Discrimination of Methanol Gas Using a Polyindole-Embedded Substrate Integrated Waveguide Microwave Sensor. ACS Sensors, 2020, 5, 3939-3948.	7.8	18
9	A multifunctional skin-like wearable optical sensor based on an optical micro-/nanofibre. Nanoscale, 2020, 12, 17538-17544.	5.6	66
10	Development of Fully Flexible Tactile Pressure Sensor with Bilayer Interlaced Bumps for Robotic Grasping Applications. Micromachines, 2020, 11, 770.	2.9	18
11	Fully Elastomeric Fingerprint-Shaped Electronic Skin Based on Tunable Patterned Graphene/Silver Nanocomposites. ACS Applied Materials & Interfaces, 2020, 12, 31725-31737.	8.0	42
12	Patterned arrays of assembled nanoparticles prepared by interfacial assembly and femtosecond laser fabrication. Journal of Nanoparticle Research, 2020, 22, 1.	1.9	76
13	Flexible Liquidâ€Filled Fiber Adapter Enabled Wearable Optical Sensors. Advanced Materials Technologies, 2020, 5, 2000079.	5.8	18
14	Amine-Functionalized Fe2O3â€“SiO2 Coreâ€“Shell Nanoparticles With Tunable Sizes. IEEE Nanotechnology Magazine, 2018, 17, 69-77.	2.0	11
15	Self-assembled thin films of Fe3O4-Ag composite nanoparticles for spintronic applications. Applied Surface Science, 2017, 419, 692-696.	6.1	31
16	Magnetically assembled iron oxide nanoparticle coatings and their integration with pseudo-spin-valve thin films. Journal of Materials Chemistry C, 2017, 5, 252-263.	5.5	40
17	CoFe₂O₄ Nanoparticle-Integrated Spin-Valve Thin Films Prepared by Interfacial Self-Assembly. Journal of Physical Chemistry C, 2017, 121, 22508-22516.	3.1	19
18	Magnetic-Field-Assisted Assembly of Anisotropic Superstructures by Iron Oxide Nanoparticles and Their Enhanced Magnetism. Nanoscale Research Letters, 2016, 11, 189.	5.7	25

#	Article	IF	Citations
19	Characterization and bio-binding ability study on size-controllable highly monodisperse magnetic nanoparticles. Microelectronic Engineering, 2015, 144, 61-67.	2.4	11
20	Controlled convective self-assembly of silver nanoparticles in volatile organic solvent and its application in electronics. RSC Advances, 2015, 5, 98747-98756.	3.6	15