Zhengchun Peng

List of Publications by Year
in descending order

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62 papers	2,690 citations	218677 26 h-index	182427 51 g-index
62 all docs	62 docs citations	62 times ranked	3790 citing authors

#	Article	IF	Citations
1	Significance of Flexible Substrates for Wearable and Implantable Devices: Recent Advances and Perspectives. Advanced Materials Technologies, 2022, 7, .	5.8	81
2	Highly-Responsive Broadband Photodetector Based on Graphene-PTAA-SnS2 Hybrid. Nanomaterials, 2022, 12, 475.	4.1	4
3	A smart flexible supercapacitor enabled by a transparent electrochromic electrode composed of W₁₈O₄₉ nanowires/rGO composite films. Journal of Materials Chemistry A, 2022, 10, 4870-4880.	10.3	26
4	A Bilayer Skin-Inspired Hydrogel with Strong Bonding Interface. Nanomaterials, 2022, 12, 1137.	4.1	5
5	A triboelectric-inductive hybrid tactile sensor for highly accurate object recognition. Nano Energy, 2022, 96, 107063.	16.0	39
6	A Textile Proximity/Pressure Dual-Mode Sensor Based on Magneto-Straining and Piezoresistive Effects. IEEE Sensors Journal, 2022, 22, 10420-10427.	4.7	9
7	A paper-based microfluidic sensor array combining molecular imprinting technology and carbon quantum dots for the discrimination of nitrophenol isomers. Journal of Hazardous Materials, 2022, 435, 129012.	12.4	13
8	Interfacially Locked Metal Aerogel Inside Porous Polymer Composite for Sensitive and Durable Flexible Piezoresistive Sensors. Advanced Science, 2022, 9, .	11.2	16
9	A ternary heterogeneous hydrogel with strength elements for resilient, self-healing, and recyclable epidermal electronics. Npj Flexible Electronics, 2022, 6, .	10.7	11
10	Electric-Field Induced and Highly Deformable Triboelectric Generators from Ionic Gels. , 2022, , .		0
11	Electrospun Titanium Dioxide Nanofibers Reinforced Anti-freezing, Adhesive and Conductive Hydrogels. , 2022, , .		0
12	High-performance perovskite light-emitting diodes based on double hole transport layers. Journal of Materials Chemistry C, 2021, 9, 2115-2122.	5.5	25
13	An Optimized Flutter-Driven Triboelectric Nanogenerator with a Low Cut-In Wind Speed. Micromachines, 2021, 12, 366.	2.9	15
14	Full printed flexible pressure sensor based on microcapsule controllable structure and composite dielectrics. Flexible and Printed Electronics, 2021, 6, 014001.	2.7	12
15	Stabilization of Li0.33La0.55TiO3 Solid Electrolyte Interphase Layer and Enhancement of Cycling Performance of LiNi0.5Co0.3Mn0.2O2 Battery Cathode with Buffer Layer. Nanomaterials, 2021, 11, 989.	4.1	5
16	Leaf-like Self-assembled MXene/ZnOEP Hybrid Network for Highly-Sensitive Temperature Sensing in Electronic Skin. , 2021, , .		0
17	A surface and interior material identification technology based on dual-mode sensor. , 2021, , .		0
18	Vat Photopolymerization 3D Printing of Advanced Soft Sensors and Actuators: From Architecture to Function. Advanced Materials Technologies, 2021, 6, 2001218.	5.8	57

#	Article	IF	Citations
19	A Facile Low-Cost Wireless Self-Powered Footwear System for Monitoring Plantar Pressure. , 2021, , .		1
20	A highly elastic, Room-temperature repairable and recyclable conductive hydrogel for stretchable electronics. Journal of Colloid and Interface Science, 2021, 588, 295-304.	9.4	36
21	Multilayer Double-Sided Microstructured Flexible Iontronic Pressure Sensor with a Record-wide Linear Working Range. ACS Sensors, 2021, 6, 1785-1795.	7.8	56
22	Transparent, Conductive Hydrogels with High Mechanical Strength and Toughness. Polymers, 2021, 13, 2004.	4.5	13
23	Progress on Self-Powered Wearable and Implantable Systems Driven by Nanogenerators. Micromachines, 2021, 12, 666.	2.9	23
24	Robust Conductive Hydrogels with Ultrafast Self-Recovery and Nearly Zero Response Hysteresis for Epidermal Sensors. Nanomaterials, 2021, 11, 1854.	4.1	7
25	Utility of TPP-manufactured biophysical restrictions to probe multiscale cellular dynamics. Bio-Design and Manufacturing, 2021, 4, 776-789.	7.7	3
26	Selective detection of glutathione by flower-like NiV2O6 with only peroxidase-like activity at neutral pH. Talanta, 2021, 234, 122645.	5.5	26
27	A Highâ€Performance Flexible Broadband Photodetector Based on Grapheneâ€“PTAAâ€“Perovskite Heterojunctions. Advanced Electronic Materials, 2021, 7, 2000522.	5.1	24
28	Highly phosphorescent platinum(<scp>ii</scp>) complexes supported by (2-(1H-benzimidazole)-phenyl)diphosphine oxide ancillary ligands. Journal of Materials Chemistry C, 2021, 9, 9627-9636.	5.5	7
29	A study on Li_{0.33}La_{0.55}TiO₃ solid electrolyte with high ionic conductivity and its application in flexible all-solid-state batteries. Nanoscale, 2021, 13, 11518-11524.	5.6	8
30	Analytical Model of the Piezoresistive Behavior of Highly Compressible Sensors Made of Microporous Nanocomposites. Advanced Theory and Simulations, 2021, 4, .	2.8	3
31	Touchless Sensing Interface Based on the Magneto-Piezoresistive Effect of Magnetic Microstructures with Stacked Conductive Coating. ACS Applied Materials & Interfaces, 2021, 13, 61422-61433.	8.0	7
32	A High-Performance Flexible Pressure Sensor Realized by Overhanging Cobweb-like Structure on a Micropost Array. ACS Applied Materials & Interfaces, 2020, 12, 48938-48947.	8.0	55
33	Optoelectronic Gas Sensor Based on Few-Layered InSe Nanosheets for NO₂ Detection with Ultrahigh Antihumidity Ability. Analytical Chemistry, 2020, 92, 11277-11287.	6.5	47
34	A ratiometric electrochemiluminescence sensing platform for robust ascorbic acid analysis based on a molecularly imprinted polymer modified bipolar electrode. Biosensors and Bioelectronics, 2020, 167, 112490.	10.1	32
35	Flexible Piezoresistive Sensors with Wide-Range Pressure Measurements Based on a Graded Nest-like Architecture. ACS Applied Materials & Interfaces, 2020, 12, 26137-26144.	8.0	103
36	Engineering Monoâ€Chalcogen Nanomaterials for Omnipotent Anticancer Applications: Progress and Challenges. Advanced Healthcare Materials, 2020, 9, 2000273.	7.6	11

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37	Simultaneously Achieving Ultrahigh Sensitivity and Wide Detection Range for Stretchable Strain Sensors with an Interfaceâ€Locking Strategy. Advanced Materials Technologies, 2020, 5, 2000008.	5.8	24
38	Eradication of tumor growth by delivering novel photothermal selenium-coated tellurium nanoheterojunctions. Science Advances, 2020, 6, eaay6825.	10.3	126
39	A triboelectric-piezoresistive hybrid sensor for precisely distinguishing transient processes in mechanical stimuli. Nano Energy, 2020, 78, 105216.	16.0	17
40	Self-standing hollow porous AuPt nanospheres and their enhanced electrocatalytic performance. Journal of Colloid and Interface Science, 2019, 554, 396-403.	9.4	12
41	High-Performance Humidity Sensor Based on Urchin-Like Composite of Ti₃C₂ MXene-Derived TiO₂ Nanowires. ACS Applied Materials & Interfaces, 2019, 11, 38116-38125.	8.0	156
42	Naphthalimideâ€“arylamine derivatives with aggregation induced delayed fluorescence for realizing efficient green to red electroluminescence. Journal of Materials Chemistry C, 2019, 7, 2886-2897.	5.5	35
43	Piezoresistive Sensors: Full 3D Printing of Stretchable Piezoresistive Sensor with Hierarchical Porosity and Multimodulus Architecture (Adv. Funct. Mater. 11/2019). Advanced Functional Materials, 2019, 29, 1970067.	14.9	0
44	pH-Responsive Dual Drug-Loaded Nanocarriers Based on Poly (2-Ethyl-2-Oxazoline) Modified Black Phosphorus Nanosheets for Cancer Chemo/Photothermal Therapy. Frontiers in Pharmacology, 2019, 10, 270.	3.5	50
45	A fully inkjet-printed transparent humidity sensor based on a Ti₃C₂/Ag hybrid for touchless sensing of finger motion. Nanoscale, 2019, 11, 21522-21531.	5.6	68
46	Full 3D Printing of Stretchable Piezoresistive Sensor with Hierarchical Porosity and Multimodulus Architecture. Advanced Functional Materials, 2019, 29, 1807569.	14.9	172
47	Two-dimensional pnictogens, their chemistry and applications. FlatChem, 2019, 13, 8-24.	5.6	33
48	Ellagic Acid Nanoemulsion in Cosmetics: The Preparation and Evaluation of a New Nanoemulsion Method as a Whitening and Antiaging Agent. IEEE Nanotechnology Magazine, 2018, 12, 14-20.	1.3	4
49	A Highly Stretchable Transparent Selfâ€Powered Triboelectric Tactile Sensor with Metallized Nanofibers for Wearable Electronics. Advanced Materials, 2018, 30, e1706738.	21.0	315
50	Voltammetric lidocaine sensor by using a glassy carbon electrode modified with porous carbon prepared from a MOF, and with a molecularly imprinted polymer. Mikrochimica Acta, 2018, 185, 78.	5.0	32
51	Machine Learning Methods for Real-Time Blood Pressure Measurement Based on Photoplethysmography. , 2018, , .		14
52	A Heart Rate Measurement System Based on Ballistocardiogram for Smart Furniture. , 2018, , .		8
53	Efficient deep blue electroluminescence with CIEy â‰ˆ (0.05â€“0.07) from phenanthroimidazoleâ€“acridine derivative hybrid fluorophores. Journal of Materials Chemistry C, 2018, 6, 9363-9373.	5.5	35
54	Ionic Gels and Their Applications in Stretchable Electronics. Macromolecular Rapid Communications, 2018, 39, e1800246.	3.9	112

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55	Preparation of molecularly imprinted polymeric microspheres based on distillationâ€“precipitation polymerization for an ultrasensitive electrochemical sensor. Analyst, The, 2017, 142, 1091-1098.	3.5	34
56	Structured Output-Associated Dictionary Learning for Haptic Understanding. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2017, 47, 1564-1574.	9.3	45
57	Visualization Recording and Storage of Pressure Distribution through a Smart Matrix Based on the Piezotronic Effect. Advanced Materials, 2017, 29, 1701253.	21.0	59
58	Light-Emission Enhancement in a Flexible and Size-Controllable ZnO Nanowire/Organic Light-Emitting Diode Array by the Piezotronic Effect. ACS Photonics, 2017, 4, 1344-1349.	6.6	65
59	Black Phosphorus Quantum Dots with Tunable Memory Properties and Multilevel Resistive Switching Characteristics. Advanced Science, 2017, 4, 1600435.	11.2	175
60	Recent advances in black phosphorus-based photonics, electronics, sensors and energy devices. Materials Horizons, 2017, 4, 997-1019.	12.2	296
61	Investigation of Fog Collection on Cactus-inspired Structures. Journal of Bionic Engineering, 2016, 13, 364-372.	5.0	18
62	A Low Powerâ€consumption and Transient Nonvolatile Memory Based on Highly Dense Allâ€inorganic Perovskite Films. Advanced Electronic Materials, 0, , 2101412.	5.1	5