

Zhengchun Peng

List of Publications by Year in descending order

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62
papers

2,690
citations

218677

26
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182427

51
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all docs

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docs citations

62
times ranked

3790
citing authors

#	ARTICLE	IF	CITATIONS
1	A Highly Stretchable Transparent Self-Powered Triboelectric Tactile Sensor with Metallized Nanofibers for Wearable Electronics. <i>Advanced Materials</i> , 2018, 30, e1706738.	21.0	315
2	Recent advances in black phosphorus-based photonics, electronics, sensors and energy devices. <i>Materials Horizons</i> , 2017, 4, 997-1019.	12.2	296
3	Black Phosphorus Quantum Dots with Tunable Memory Properties and Multilevel Resistive Switching Characteristics. <i>Advanced Science</i> , 2017, 4, 1600435.	11.2	175
4	Full 3D Printing of Stretchable Piezoresistive Sensor with Hierarchical Porosity and Multimodulus Architecture. <i>Advanced Functional Materials</i> , 2019, 29, 1807569.	14.9	172
5	High-Performance Humidity Sensor Based on Urchin-Like Composite of $\text{Ti}_3\text{C}_2\text{MXene}$ -Derived TiO_2 Nanowires. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 38116-38125.	8.0	156
6	Eradication of tumor growth by delivering novel photothermal selenium-coated tellurium nanoheterojunctions. <i>Science Advances</i> , 2020, 6, eaay6825.	10.3	126
7	Ionic Gels and Their Applications in Stretchable Electronics. <i>Macromolecular Rapid Communications</i> , 2018, 39, e1800246.	3.9	112
8	Flexible Piezoresistive Sensors with Wide-Range Pressure Measurements Based on a Graded Nest-like Architecture. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 26137-26144.	8.0	103
9	Significance of Flexible Substrates for Wearable and Implantable Devices: Recent Advances and Perspectives. <i>Advanced Materials Technologies</i> , 2022, 7, .	5.8	81
10	A fully inkjet-printed transparent humidity sensor based on a $\text{Ti}_3\text{C}_2/\text{Ag}$ hybrid for touchless sensing of finger motion. <i>Nanoscale</i> , 2019, 11, 21522-21531.	5.6	68
11	Light-Emission Enhancement in a Flexible and Size-Controllable ZnO Nanowire/Organic Light-Emitting Diode Array by the Piezotronic Effect. <i>ACS Photonics</i> , 2017, 4, 1344-1349.	6.6	65
12	Visualization Recording and Storage of Pressure Distribution through a Smart Matrix Based on the Piezotronic Effect. <i>Advanced Materials</i> , 2017, 29, 1701253.	21.0	59
13	Vat Photopolymerization 3D Printing of Advanced Soft Sensors and Actuators: From Architecture to Function. <i>Advanced Materials Technologies</i> , 2021, 6, 2001218.	5.8	57
14	Multilayer Double-Sided Microstructured Flexible Iontronic Pressure Sensor with a Record-wide Linear Working Range. <i>ACS Sensors</i> , 2021, 6, 1785-1795.	7.8	56
15	A High-Performance Flexible Pressure Sensor Realized by Overhanging Cobweb-like Structure on a Micropost Array. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 48938-48947.	8.0	55
16	pH-Responsive Dual Drug-Loaded Nanocarriers Based on Poly (2-Ethyl-2-Oxazoline) Modified Black Phosphorus Nanosheets for Cancer Chemo/Photothermal Therapy. <i>Frontiers in Pharmacology</i> , 2019, 10, 270.	3.5	50
17	Optoelectronic Gas Sensor Based on Few-Layered InSe Nanosheets for NO_2 Detection with Ultrahigh Antihumidity Ability. <i>Analytical Chemistry</i> , 2020, 92, 11277-11287.	6.5	47
18	Structured Output-Associated Dictionary Learning for Haptic Understanding. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2017, 47, 1564-1574.	9.3	45

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19	A triboelectric-inductive hybrid tactile sensor for highly accurate object recognition. <i>Nano Energy</i> , 2022, 96, 107063.	16.0	39
20	A highly elastic, Room-temperature repairable and recyclable conductive hydrogel for stretchable electronics. <i>Journal of Colloid and Interface Science</i> , 2021, 588, 295-304.	9.4	36
21	Efficient deep blue electroluminescence with CIE y (0.05~0.07) from phenanthroimidazole-acridine derivative hybrid fluorophores. <i>Journal of Materials Chemistry C</i> , 2018, 6, 9363-9373.	5.5	35
22	Naphthalimide-arylamine derivatives with aggregation induced delayed fluorescence for realizing efficient green to red electroluminescence. <i>Journal of Materials Chemistry C</i> , 2019, 7, 2886-2897.	5.5	35
23	Preparation of molecularly imprinted polymeric microspheres based on distillation-precipitation polymerization for an ultrasensitive electrochemical sensor. <i>Analyst</i> , 2017, 142, 1091-1098.	3.5	34
24	Two-dimensional pnictogens, their chemistry and applications. <i>FlatChem</i> , 2019, 13, 8-24.	5.6	33
25	Voltammetric lidocaine sensor by using a glassy carbon electrode modified with porous carbon prepared from a MOF, and with a molecularly imprinted polymer. <i>Mikrochimica Acta</i> , 2018, 185, 78.	5.0	32
26	A ratiometric electrochemiluminescence sensing platform for robust ascorbic acid analysis based on a molecularly imprinted polymer modified bipolar electrode. <i>Biosensors and Bioelectronics</i> , 2020, 167, 112490.	10.1	32
27	Selective detection of glutathione by flower-like NiV ₂ O ₆ with only peroxidase-like activity at neutral pH. <i>Talanta</i> , 2021, 234, 122645.	5.5	26
28	A smart flexible supercapacitor enabled by a transparent electrochromic electrode composed of W ₁₈ O ₄₉ nanowires/rGO composite films. <i>Journal of Materials Chemistry A</i> , 2022, 10, 4870-4880.	10.3	26
29	High-performance perovskite light-emitting diodes based on double hole transport layers. <i>Journal of Materials Chemistry C</i> , 2021, 9, 2115-2122.	5.5	25
30	Simultaneously Achieving Ultrahigh Sensitivity and Wide Detection Range for Stretchable Strain Sensors with an Interface-Locking Strategy. <i>Advanced Materials Technologies</i> , 2020, 5, 2000008.	5.8	24
31	A High-Performance Flexible Broadband Photodetector Based on Graphene-PTAA-Perovskite Heterojunctions. <i>Advanced Electronic Materials</i> , 2021, 7, 2000522.	5.1	24
32	Progress on Self-Powered Wearable and Implantable Systems Driven by Nanogenerators. <i>Micromachines</i> , 2021, 12, 666.	2.9	23
33	Investigation of Fog Collection on Cactus-inspired Structures. <i>Journal of Bionic Engineering</i> , 2016, 13, 364-372.	5.0	18
34	A triboelectric-piezoresistive hybrid sensor for precisely distinguishing transient processes in mechanical stimuli. <i>Nano Energy</i> , 2020, 78, 105216.	16.0	17
35	Interfacially Locked Metal Aerogel Inside Porous Polymer Composite for Sensitive and Durable Flexible Piezoresistive Sensors. <i>Advanced Science</i> , 2022, 9, .	11.2	16
36	An Optimized Flutter-Driven Triboelectric Nanogenerator with a Low Cut-In Wind Speed. <i>Micromachines</i> , 2021, 12, 366.	2.9	15

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37	Machine Learning Methods for Real-Time Blood Pressure Measurement Based on Photoplethysmography. , 2018, , .		14
38	Transparent, Conductive Hydrogels with High Mechanical Strength and Toughness. <i>Polymers</i> , 2021, 13, 2004.	4.5	13
39	A paper-based microfluidic sensor array combining molecular imprinting technology and carbon quantum dots for the discrimination of nitrophenol isomers. <i>Journal of Hazardous Materials</i> , 2022, 435, 129012.	12.4	13
40	Self-standing hollow porous AuPt nanospheres and their enhanced electrocatalytic performance. <i>Journal of Colloid and Interface Science</i> , 2019, 554, 396-403.	9.4	12
41	Full printed flexible pressure sensor based on microcapsule controllable structure and composite dielectrics. <i>Flexible and Printed Electronics</i> , 2021, 6, 014001.	2.7	12
42	Engineering Mono- Chalcogen Nanomaterials for Omnipotent Anticancer Applications: Progress and Challenges. <i>Advanced Healthcare Materials</i> , 2020, 9, 2000273.	7.6	11
43	A ternary heterogeneous hydrogel with strength elements for resilient, self-healing, and recyclable epidermal electronics. <i>Npj Flexible Electronics</i> , 2022, 6, .	10.7	11
44	A Textile Proximity/Pressure Dual-Mode Sensor Based on Magneto-Straining and Piezoresistive Effects. <i>IEEE Sensors Journal</i> , 2022, 22, 10420-10427.	4.7	9
45	A Heart Rate Measurement System Based on Ballistocardiogram for Smart Furniture. , 2018, , .		8
46	A study on $\text{Li}_{0.33}\text{La}_{0.55}\text{TiO}_3$ solid electrolyte with high ionic conductivity and its application in flexible all-solid-state batteries. <i>Nanoscale</i> , 2021, 13, 11518-11524.	5.6	8
47	Robust Conductive Hydrogels with Ultrafast Self-Recovery and Nearly Zero Response Hysteresis for Epidermal Sensors. <i>Nanomaterials</i> , 2021, 11, 1854.	4.1	7
48	Highly phosphorescent platinum (Pt) complexes supported by (2-(1 <i>H</i> -benzimidazole)-phenyl)diphosphine oxide ancillary ligands. <i>Journal of Materials Chemistry C</i> , 2021, 9, 9627-9636.	5.5	7
49	Touchless Sensing Interface Based on the Magneto-Piezoresistive Effect of Magnetic Microstructures with Stacked Conductive Coating. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 61422-61433.	8.0	7
50	Stabilization of $\text{Li}_{0.33}\text{La}_{0.55}\text{TiO}_3$ Solid Electrolyte Interphase Layer and Enhancement of Cycling Performance of $\text{LiNi}_{0.5}\text{Co}_{0.3}\text{Mn}_{0.2}\text{O}_2$ Battery Cathode with Buffer Layer. <i>Nanomaterials</i> , 2021, 11, 989.	4.1	5
51	A Low Power-Consumption and Transient Nonvolatile Memory Based on Highly Dense All-Inorganic Perovskite Films. <i>Advanced Electronic Materials</i> , 0, , 2101412.	5.1	5
52	A Bilayer Skin-Inspired Hydrogel with Strong Bonding Interface. <i>Nanomaterials</i> , 2022, 12, 1137.	4.1	5
53	Ellagic Acid Nanoemulsion in Cosmetics: The Preparation and Evaluation of a New Nanoemulsion Method as a Whitening and Antiaging Agent. <i>IEEE Nanotechnology Magazine</i> , 2018, 12, 14-20.	1.3	4
54	Highly-Responsive Broadband Photodetector Based on Graphene-PTAA-SnS ₂ Hybrid. <i>Nanomaterials</i> , 2022, 12, 475.	4.1	4

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55	Utility of TPP-manufactured biophysical restrictions to probe multiscale cellular dynamics. <i>Bio-Design and Manufacturing</i> , 2021, 4, 776-789.	7.7	3
56	Analytical Model of the Piezoresistive Behavior of Highly Compressible Sensors Made of Microporous Nanocomposites. <i>Advanced Theory and Simulations</i> , 2021, 4, .	2.8	3
57	A Facile Low-Cost Wireless Self-Powered Footwear System for Monitoring Plantar Pressure. , 2021, , .		1
58	Piezoresistive Sensors: Full 3D Printing of Stretchable Piezoresistive Sensor with Hierarchical Porosity and Multimodulus Architecture (<i>Adv. Funct. Mater.</i> 11/2019). <i>Advanced Functional Materials</i> , 2019, 29, 1970067.	14.9	0
59	Leaf-like Self-assembled MXene/ZnOEP Hybrid Network for Highly-Sensitive Temperature Sensing in Electronic Skin. , 2021, , .		0
60	A surface and interior material identification technology based on dual-mode sensor. , 2021, , .		0
61	Electric-Field Induced and Highly Deformable Triboelectric Generators from Ionic Gels. , 2022, , .		0
62	Electrospun Titanium Dioxide Nanofibers Reinforced Anti-freezing, Adhesive and Conductive Hydrogels. , 2022, , .		0