

Pingqiang Cai

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

3,605
citations

126907

33
h-index

189892

50
g-index

52
all docs

52
docs citations

52
times ranked

5670
citing authors

#	ARTICLE	IF	CITATIONS
1	Gesture recognition using a bioinspired learning architecture that integrates visual data with somatosensory data from stretchable sensors. <i>Nature Electronics</i> , 2020, 3, 563-570.	26.0	298
2	Plasticizing Silk Protein for On-Skin Stretchable Electrodes. <i>Advanced Materials</i> , 2018, 30, e1800129.	21.0	230
3	Artificial Sensory Memory. <i>Advanced Materials</i> , 2020, 32, e1902434.	21.0	200
4	Broadband Extrinsic Self-Trapped Exciton Emission in Sn-Doped 2D Lead-Halide Perovskites. <i>Advanced Materials</i> , 2019, 31, e1806385.	21.0	198
5	Nanoparticles Strengthen Intracellular Tension and Retard Cellular Migration. <i>Nano Letters</i> , 2014, 14, 83-88.	9.1	191
6	An artificial sensory neuron with visual-haptic fusion. <i>Nature Communications</i> , 2020, 11, 4602.	12.8	166
7	Mechanically Interlocked Hydrogel-Elastomer Hybrids for On-Skin Electronics. <i>Advanced Functional Materials</i> , 2020, 30, 1909540.	14.9	120
8	Programmable Nano-Bio Interfaces for Functional Biointegrated Devices. <i>Advanced Materials</i> , 2017, 29, 1605529.	21.0	118
9	Organic Dots with Aggregation-Induced Emission (AIE Dots) Characteristics for Dual-Color Cell Tracing. <i>Chemistry of Materials</i> , 2013, 25, 4181-4187.	6.7	115
10	A silk-based sealant with tough adhesion for instant hemostasis of bleeding tissues. <i>Nanoscale Horizons</i> , 2019, 4, 1333-1341.	8.0	104
11	Mediating Short-Term Plasticity in an Artificial Memristive Synapse by the Orientation of Silica Mesopores. <i>Advanced Materials</i> , 2018, 30, e1706395.	21.0	100
12	Biomechanical-Interactive Materials and Interfaces. <i>Advanced Materials</i> , 2018, 30, e1800572.	21.0	93
13	Conjugated polymer and drug co-encapsulated nanoparticles for Chemo- and Photo-thermal Combination Therapy with two-photon regulated fast drug release. <i>Nanoscale</i> , 2015, 7, 3067-3076.	5.6	92
14	Mechano-Based Transductive Sensing for Wearable Healthcare. <i>Small</i> , 2018, 14, e1702933.	10.0	91
15	A Compliant Ionic Adhesive Electrode with Ultralow Bioelectronic Impedance. <i>Advanced Materials</i> , 2020, 32, e2003723.	21.0	86
16	Combinatorial Nano-Bio Interfaces. <i>ACS Nano</i> , 2018, 12, 5078-5084.	14.6	84
17	Three-Dimensional Graphene Composite Macroscopic Structures for Capture of Cancer Cells. <i>Advanced Materials Interfaces</i> , 2014, 1, 1300043.	3.7	82
18	An on-demand plant-based actuator created using conformable electrodes. <i>Nature Electronics</i> , 2021, 4, 134-142.	26.0	81

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19	Thermal-Disrupting Interface Mitigates Intercellular Cohesion Loss for Accurate Topical Antibacterial Therapy. <i>Advanced Materials</i> , 2020, 32, e1907030.	21.0	75
20	A supertough electro-tendon based on spider silk composites. <i>Nature Communications</i> , 2020, 11, 1332.	12.8	73
21	Enhancing the Matrix Addressing of Flexible Sensory Arrays by a Highly Nonlinear Threshold Switch. <i>Advanced Materials</i> , 2018, 30, e1802516.	21.0	70
22	Nanomaterials Discovery and Design through Machine Learning. <i>Small Methods</i> , 2019, 3, 1900025.	8.6	67
23	Bio-Inspired Mechanotactic Hybrids for Orchestrating Traction-Mediated Epithelial Migration. <i>Advanced Materials</i> , 2016, 28, 3102-3110.	21.0	66
24	Artificial Sense Technology: Emulating and Extending Biological Senses. <i>ACS Nano</i> , 2021, 15, 18671-18678.	14.6	64
25	Devising Materials Manufacturing Toward Lab-to-Fab Translation of Flexible Electronics. <i>Advanced Materials</i> , 2020, 32, e2001903.	21.0	60
26	Bio-inspired micropatterned hydrogel to direct and deconstruct hierarchical processing of geometry-force signals by human mesenchymal stem cells during smooth muscle cell differentiation. <i>NPG Asia Materials</i> , 2015, 7, e199-e199.	7.9	51
27	Orthogonally Engineering Matrix Topography and Rigidity to Regulate Multicellular Morphology. <i>Advanced Materials</i> , 2014, 26, 5786-5793.	21.0	47
28	Conjugated Polymer Nanodots as Ultrastable Long-Term Trackers to Understand Mesenchymal Stem Cell Therapy in Skin Regeneration. <i>Advanced Functional Materials</i> , 2015, 25, 4263-4273.	14.9	47
29	Locally coupled electromechanical interfaces based on cytoadhesion-inspired hybrids to identify muscular excitation-contraction signatures. <i>Nature Communications</i> , 2020, 11, 2183.	12.8	47
30	Chemosynthesis of Poly(μ -lysine)-Analogous Polymers by Microwave-Assisted Click Polymerization. <i>Biomacromolecules</i> , 2011, 12, 737-746.	5.4	45
31	Nanomechanically Visualizing Drug-Cell Interaction at the Early Stage of Chemotherapy. <i>ACS Nano</i> , 2017, 11, 6996-7005.	14.6	41
32	Loss of TAK1 increases cell traction force in a ROS-dependent manner to drive epithelial-mesenchymal transition of cancer cells. <i>Cell Death and Disease</i> , 2013, 4, e848-e848.	6.3	40
33	Haptically Quantifying Young's Modulus of Soft Materials Using a Self-Locked Stretchable Strain Sensor. <i>Advanced Materials</i> , 2022, 34, e2104078.	21.0	39
34	Synergistic Lysosomal Activatable Polymeric Nanoprobe Encapsulating pH Sensitive Imidazole Derivative for Tumor Diagnosis. <i>Small</i> , 2018, 14, 1703164.	10.0	36
35	Mechanomaterials: A Rational Deployment of Forces and Geometries in Programming Functional Materials. <i>Advanced Materials</i> , 2021, 33, e2007977.	21.0	34
36	Orientational Coupling Locally Orchestrates a Cell Migration Pattern for Re-Epithelialization. <i>Advanced Materials</i> , 2017, 29, 1700145.	21.0	33

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37	Polymeric Nonviral Gene Delivery Systems for Cancer Immunotherapy. <i>Advanced Therapeutics</i> , 2020, 3, 1900213.	3.2	30
38	Role of Cytoskeletal Tension in the Induction of Cardiomyogenic Differentiation in Micropatterned Human Mesenchymal Stem Cell. <i>Advanced Healthcare Materials</i> , 2015, 4, 1399-1407.	7.6	28
39	Nanomechanical Force Mapping of Restricted Cell-To-Cell Collisions Oscillating between Contraction and Relaxation. <i>ACS Nano</i> , 2017, 11, 12302-12310.	14.6	25
40	Reprogramming Mitochondrial Metabolism in Synovial Macrophages of Early Osteoarthritis by a Camouflaged Meta-Defensome. <i>Advanced Materials</i> , 2022, 34, .	21.0	25
41	Gold Nanotip Array for Ultrasensitive Electrochemical Sensing and Spectroscopic Monitoring. <i>Small</i> , 2013, 9, 2260-2265.	10.0	23
42	Hydrogels for Artificial Vitreous: From Prolonged Substitution to Elicited Regeneration. , 2019, 1, 285-289.		22
43	Engineering subcellular-patterned biointerfaces to regulate the surface wetting of multicellular spheroids. <i>Nano Research</i> , 2018, 11, 5704-5715.	10.4	13
44	Highly specific differentiation of MSCs into neurons directed by local electrical stimuli triggered wirelessly by electromagnetic induction nanogenerator. <i>Nano Energy</i> , 2022, 100, 107483.	16.0	13
45	Differential Homeostasis of Sessile and Pendant Epithelium Reconstituted in a 3D-Printed "GeminiChip". <i>Advanced Materials</i> , 2019, 31, e1900514.	21.0	12
46	Actin-ring segment switching drives nonadhesive gap closure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 33263-33271.	7.1	12
47	Spatiotemporal Oscillation in Confined Epithelial Motion upon Fluid-to-Solid Transition. <i>ACS Nano</i> , 2021, 15, 7618-7627.	14.6	12
48	Biointegrated Devices: Programmable Nano-Bio Interfaces for Functional Biointegrated Devices (Adv.) <i>Tj ETQq0 0.0.rgBT /Qverlock 10</i>	21.0	8
49	Editorial: Advanced Silica Nanomaterials for Drug Delivery. <i>Frontiers in Chemistry</i> , 2021, 9, 677647.	3.6	1
50	Structural Regulation of Myocytes in Engineered Healthy and Diseased Cardiac Models. <i>ACS Applied Bio Materials</i> , 2021, 4, 267-276.	4.6	1
51	Regenerative Medicine: Conjugated Polymer Nanodots as Ultrastable Long-Term Trackers to Understand Mesenchymal Stem Cell Therapy in Skin Regeneration (Adv. Funct. Mater. 27/2015). <i>Advanced Functional Materials</i> , 2015, 25, 4262-4262.	14.9	0