

Peng Shi

List of Publications by Year in descending order

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Version: 2024-02-01

69
papers

3,070
citations

159358

30
h-index

161609

54
g-index

72
all docs

72
docs citations

72
times ranked

5255
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrathin MXeneâ€Micropatternâ€Based Fieldâ€Effect Transistor for Probing Neural Activity. <i>Advanced Materials</i> , 2016, 28, 3333-3339.	11.1	474
2	Mechanically resilient, injectable, and bioadhesive supramolecular gelatin hydrogels crosslinked by weak host-guest interactions assist cell infiltration and in situ tissue regeneration. <i>Biomaterials</i> , 2016, 101, 217-228.	5.7	249
3	Anti-counterfeiting patterns encrypted with multi-mode luminescent nanotaggants. <i>Nanoscale</i> , 2017, 9, 2701-2705.	2.8	149
4	Multiexcitonic Emission in Zero-Dimensional Cs ₂ ZrCl ₆ :Sb ³⁺ Perovskite Crystals. <i>Journal of the American Chemical Society</i> , 2021, 143, 17599-17606.	6.6	131
5	Coreâ€Shell Upconversion Nanoparticles with Enhanced Emission for Wireless Optogenetic Inhibition. <i>Nano Letters</i> , 2018, 18, 948-956.	4.5	130
6	Phorbiplatin, a Highly Potent Pt(IV) Antitumor Prodrug That Can Be Controllably Activated by Red Light. <i>CheM</i> , 2019, 5, 3151-3165.	5.8	107
7	Poking cells for efficient vector-free intracellular delivery. <i>Nature Communications</i> , 2014, 5, 4466.	5.8	104
8	Cryomicroneedles for transdermal cell delivery. <i>Nature Biomedical Engineering</i> , 2021, 5, 1008-1018.	11.6	97
9	Synapse microarray identification of small molecules that enhance synaptogenesis. <i>Nature Communications</i> , 2011, 2, 510.	5.8	84
10	Tetherless near-infrared control of brain activity in behaving animals using fully implantable upconversion microdevices. <i>Biomaterials</i> , 2017, 142, 136-148.	5.7	74
11	Large-scale Topographical Screen for Investigation of Physical Neural-Guidance Cues. <i>Scientific Reports</i> , 2015, 5, 8644.	1.6	66
12	Remote modulation of neural activities via near-infrared triggered release of biomolecules. <i>Biomaterials</i> , 2015, 65, 76-85.	5.7	65
13	Combined microfluidics/protein patterning platform for pharmacological interrogation of axon pathfinding. <i>Lab on A Chip</i> , 2010, 10, 1005.	3.1	64
14	Local presentation of L1 and Nâ€cadherin in multicomponent, microscale patterns differentially direct neuron function <i>in vitro</i> . <i>Developmental Neurobiology</i> , 2007, 67, 1765-1776.	1.5	59
15	High-throughput mapping of brain-wide activity in awake and drug-responsive vertebrates. <i>Lab on A Chip</i> , 2015, 15, 680-689.	3.1	59
16	Multiplexed Optogenetic Stimulation of Neurons with Spectrumâ€Selective Upconversion Nanoparticles. <i>Advanced Healthcare Materials</i> , 2017, 6, 1700446.	3.9	58
17	A Cancer Cell-Selective and Low-Toxic Bifunctional Heterodinuclear Pt(IV)â€Ru(II) Anticancer Prodrug. <i>Inorganic Chemistry</i> , 2018, 57, 2917-2924.	1.9	56
18	NeuroArray: A Universal Interface for Patterning and Interrogating Neural Circuitry with Single Cell Resolution. <i>Scientific Reports</i> , 2014, 4, 4784.	1.6	54

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19	Organic electrochemical transistor arrays for real-time mapping of evoked neurotransmitter release in vivo. <i>ELife</i> , 2020, 9, .	2.8	50
20	An upconversion nanoprobe operating in the first biological window. <i>Journal of Materials Chemistry B</i> , 2015, 3, 3548-3555.	2.9	49
21	Injectable Nanoreinforced Shape-Memory Hydrogel System for Regenerating Spinal Cord Tissue from Traumatic Injury. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 29299-29307.	4.0	49
22	Near-Infrared Light Responsive Multi-Compartmental Hydrogel Particles Synthesized Through Droplets Assembly Induced by Superhydrophobic Surface. <i>Small</i> , 2014, 10, 4886-4894.	5.2	47
23	Concentration-Dependent Requirement for Local Protein Synthesis in Motor Neuron Subtype-Specific Response to Axon Guidance Cues. <i>Journal of Neuroscience</i> , 2012, 32, 1496-1506.	1.7	44
24	Controlled nanoparticle release from stable magnetic microbubble oscillations. <i>NPG Asia Materials</i> , 2016, 8, e260-e260.	3.8	43
25	Latest advances in MXene biosensors. <i>JPhys Materials</i> , 2020, 3, 031001.	1.8	38
26	Vascularized neural constructs for ex-vivo reconstitution of blood-brain barrier function. <i>Biomaterials</i> , 2020, 245, 119980.	5.7	36
27	Semiconductor nanostructures in biological applications. <i>Journal of Physics Condensed Matter</i> , 2005, 17, R637-R656.	0.7	35
28	Interrogation of Cellular Innate Immunity by Diamond-Nanoneedle-Assisted Intracellular Molecular Fishing. <i>Nano Letters</i> , 2015, 15, 7058-7063.	4.5	35
29	Energy transfer-based biodetection using optical nanomaterials. <i>Journal of Materials Chemistry B</i> , 2018, 6, 2924-2944.	2.9	35
30	High-throughput brain activity mapping and machine learning as a foundation for systems neuropharmacology. <i>Nature Communications</i> , 2018, 9, 5142.	5.8	34
31	High-throughput three-dimensional chemotactic assays reveal steepness-dependent complexity in neuronal sensation to molecular gradients. <i>Nature Communications</i> , 2018, 9, 4745.	5.8	33
32	Regeneration of cortical tissue from brain injury by implantation of defined molecular gradient of semaphorin 3A. <i>Biomaterials</i> , 2018, 157, 125-135.	5.7	28
33	A Remotely Controlled Transformable Soft Robot Based on Engineered Cardiac Tissue Construct. <i>Small</i> , 2019, 15, e1900006.	5.2	27
34	Flexible and fully implantable upconversion device for wireless optogenetic stimulation of the spinal cord in behaving animals. <i>Nanoscale</i> , 2020, 12, 2406-2414.	2.8	27
35	Organ-targeted high-throughput in vivo biologics screen identifies materials for RNA delivery. <i>Integrative Biology (United Kingdom)</i> , 2014, 6, 926-934.	0.6	26
36	Binding of semiconductor quantum dots to cellular integrins. <i>IEEE Nanotechnology Magazine</i> , 2004, 3, 86-92.	1.1	25

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37	Self-Aligned Supported Lipid Bilayers for Patterning the Cell~Substrate Interface. <i>Journal of the American Chemical Society</i> , 2009, 131, 13204-13205.	6.6	25
38	Compartmentalized Platforms for Neuro-Pharmacological Research. <i>Current Neuropharmacology</i> , 2016, 14, 72-86.	1.4	25
39	Site~Specific Differentiation of Neural Stem Cell Regulated by Micropatterned Multicomponent Interfaces. <i>Advanced Healthcare Materials</i> , 2014, 3, 214-220.	3.9	22
40	NaYbF ₄ @NaYF ₄ Nanoparticles: Controlled Shell Growth and Shape-Dependent Cellular Uptake. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 2327-2335.	4.0	22
41	High-throughput intracellular biopsy of microRNAs for dissecting the temporal dynamics of cellular heterogeneity. <i>Science Advances</i> , 2020, 6, eaba4971.	4.7	20
42	Autonomous system for cross-organ investigation of ethanol-induced acute response in behaving larval zebrafish. <i>Biomicrofluidics</i> , 2016, 10, 024123.	1.2	17
43	Biohybrid Triboelectric Nanogenerator for Label-Free Pharmacological Fingerprinting in Cardiomyocytes. <i>Nano Letters</i> , 2020, 20, 4043-4050.	4.5	17
44	Investigation of the Subcellular Neurotoxicity of Amyloid~ Using a Device Integrating Microfluidic Perfusion and Chemotactic Guidance. <i>Advanced Healthcare Materials</i> , 2017, 6, 1600895.	3.9	16
45	An erythrocyte-delivered photoactivatable oxaliplatin nanoprodruge for enhanced antitumor efficacy and immune response. <i>Chemical Science</i> , 2021, 12, 14353-14362.	3.7	15
46	High-Efficiency Cellular Reprogramming by Nanoscale Puncturing. <i>Nano Letters</i> , 2020, 20, 5473-5481.	4.5	13
47	Peptide-Directed Binding of Quantum Dots to Integrins in Human Fibroblast. <i>IEEE Transactions on Nanobioscience</i> , 2006, 5, 15-19.	2.2	12
48	Field-Effect Transistors: Ultrathin MXene-Micropattern-Based Field-Effect Transistor for Probing Neural Activity (<i>Adv. Mater.</i> 17/2016). <i>Advanced Materials</i> , 2016, 28, 3411-3411.	11.1	12
49	Mapping Drug-Induced Neuropathy through In-Situ Motor Protein Tracking and Machine Learning. <i>Journal of the American Chemical Society</i> , 2021, 143, 14907-14915.	6.6	11
50	Fish Capsules: A System for High~Throughput Screening of Combinatorial Drugs. <i>Advanced Science</i> , 2022, 9, e2104449.	5.6	11
51	Optical and Electrical Properties of Colloidal Quantum Dots in Electrolytic Environments: Using Biomolecular Links in Chemically-Directed Assembly of Quantum Dot Networks. <i>Journal of Computational Electronics</i> , 2005, 4, 21-25.	1.3	10
52	Cell Generator: A Self~Sustaining Biohybrid System Based on Energy Harvesting from Engineered Cardiac Microtissues. <i>Advanced Functional Materials</i> , 2017, 27, 1606169.	7.8	10
53	Profiling MicroRNAs with Associated Spatial Dynamics in Acute Tissue Slices. <i>ACS Nano</i> , 2021, 15, 4881-4892.	7.3	10
54	Sequencing-free Analysis of Multiple Methylations on Gene-Specific mRNAs. <i>Journal of the American Chemical Society</i> , 2022, 144, 6010-6018.	6.6	9

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55	Injectable Black Phosphorus Nanosheets for Wireless Nongenetic Neural Stimulation. <i>Small</i> , 2022, 18, e2105388.	5.2	8
56	Recent advances in cellular optogenetics for photomedicine. <i>Advanced Drug Delivery Reviews</i> , 2022, 188, 114457.	6.6	7
57	Low-Invasive Cell Injection based on Rotational Microrobot. <i>Advanced Biology</i> , 2019, 3, e1800274.	3.0	5
58	3D Upconversion Barcodes for Combinatory Wireless Neuromodulation in Behaving Animals. <i>Advanced Healthcare Materials</i> , 2022, 11, e2200304.	3.9	5
59	Drug Delivery: Near-Infrared Light Responsive Multi-Compartmental Hydrogel Particles Synthesized Through Droplets Assembly Induced by Superhydrophobic Surface (<i>Small</i> 23/2014). <i>Small</i> , 2014, 10, 4984-4984.	5.2	2
60	A flexible object tracking system for planary motion. , 2016, , .		2
61	Using brain functional magnetic resonance imaging to evaluate the effectiveness of acupuncture combined with mirror therapy on upper limb function in patients with cerebral ischemic stroke: a study protocol for a randomized, controlled trial. <i>Trials</i> , 2021, 22, 53.	0.7	2
62	Tunable optical properties of colloidal quantum dots in electrolytic environments. , 2004, , .		1
63	Neural Stimulation: Multiplexed Optogenetic Stimulation of Neurons with Spectrum-Selective Upconversion Nanoparticles (<i>Adv. Healthcare Mater.</i> 17/2017). <i>Advanced Healthcare Materials</i> , 2017, 6, .	3.9	1
64	Compartmentalized Synapse Microarray for High-Throughput Screening. <i>NeuroMethods</i> , 2015, , 231-245.	0.2	1
65	An electrically-stimulate optically-record microsystem based on active CMOS multi-electrode array for dissociated cell cultures. , 2011, , .		0
66	Micropatterning of bioactive ligands for high-throughput study neuronal network functions. , 2013, , .		0
67	Micropatterning: Site-Specific Differentiation of Neural Stem Cell Regulated by Micropatterned Multicomponent Interfaces (<i>Adv. Healthcare Mater.</i> 2/2014). <i>Advanced Healthcare Materials</i> , 2014, 3, 304-304.	3.9	0
68	Bioelectronic Devices: Cell Generator: A Self-Sustaining Biohybrid System Based on Energy Harvesting from Engineered Cardiac Microtissues (<i>Adv. Funct. Mater.</i> 20/2017). <i>Advanced Functional Materials</i> , 2017, 27, .	7.8	0
69	Intelligent Biohybrid Robotic Systems: A Remotely Controlled Transformable Soft Robot Based on Engineered Cardiac Tissue Construct (<i>Small</i> 18/2019). <i>Small</i> , 2019, 15, 1970095.	5.2	0