Jia Liu

List of Publications by Year
in descending order

50 papers	12,225 citations	159585 30 h-index	182427 51 g-index
62 all docs	62 docs citations	62 times ranked	19655 citing authors

#	Article	IF	Citations
1	Pursuing prosthetic electronic skin. Nature Materials, 2016, 15, 937-950.	27.5	1,821
2	Human Genome Sequencing Using Unchained Base Reads on Self-Assembling DNA Nanoarrays. Science, 2010, 327, 78-81.	12.6	1,085
3	A bioinspired flexible organic artificial afferent nerve. Science, 2018, 360, 998-1003.	12.6	982
4	A highly stretchable, transparent, and conductive polymer. Science Advances, 2017, 3, e1602076.	10.3	962
5	Three-dimensional intact-tissue sequencing of single-cell transcriptional states. Science, 2018, 361, .	12.6	890
6	Multifunctional Mesoporous Composite Microspheres with Well-Designed Nanostructure: A Highly Integrated Catalyst System. Journal of the American Chemical Society, 2010, 132, 8466-8473.	13.7	887
7	Highly Waterâ€Dispersible Biocompatible Magnetite Particles with Low Cytotoxicity Stabilized by Citrate Groups. Angewandte Chemie - International Edition, 2009, 48, 5875-5879.	13.8	856
8	Macroporous nanowire nanoelectronic scaffolds for synthetic tissues. Nature Materials, 2012, 11, 986-994.	27.5	561
9	Syringe-injectable electronics. Nature Nanotechnology, 2015, 10, 629-636.	31.5	543
10	Soft and elastic hydrogel-based microelectronics for localized low-voltage neuromodulation. Nature Biomedical Engineering, 2019, 3, 58-68.	22.5	499
11	Biocompatible and totally disintegrable semiconducting polymer for ultrathin and ultralightweight transient electronics. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 5107-5112.	7.1	347
12	Three-dimensional macroporous nanoelectronic networks as minimally invasive brain probes. Nature Materials, 2015, 14, 1286-1292.	27.5	334
13	Synthesis of Core/Shell Colloidal Magnetic Zeolite Microspheres for the Immobilization of Trypsin. Advanced Materials, 2009, 21, 1377-1382.	21.0	281
14	Fast and reversible thermoresponsive polymer switching materials for safer batteries. Nature Energy, 2016, 1, .	39.5	253
15	Three-dimensional mapping and regulation of action potential propagation in nanoelectronics-innervated tissues. Nature Nanotechnology, 2016, 11, 776-782.	31.5	160
16	Genetically targeted chemical assembly of functional materials in living cells, tissues, and animals. Science, 2020, 367, 1372-1376.	12.6	132
17	Long Term Stability of Nanowire Nanoelectronics in Physiological Environments. Nano Letters, 2014, 14, 1614-1619.	9.1	126
18	Cyborg Organoids: Implantation of Nanoelectronics via Organogenesis for Tissue-Wide Electrophysiology. Nano Letters, 2019, 19, 5781-5789.	9.1	121

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19	Nanoelectronics-biology frontier: From nanoscopic probes for action potential recording in live cells to three-dimensional cyborg tissues. Nano Today, 2013, 8, 351-373.	11.9	116
20	Ultra-Large-Pore Mesoporous Carbons Templated from Poly(ethylene oxide)-<i>b</i>-Polystyrene Diblock Copolymer by Adding Polystyrene Homopolymer as a Pore Expander. Chemistry of Materials, 2008, 20, 7281-7286.	6.7	115
21	Intrinsically stretchable electrode array enabled in vivo electrophysiological mapping of atrial fibrillation at cellular resolution. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 14769-14778.	7.1	108
22	Fully stretchable active-matrix organic light-emitting electrochemical cell array. Nature Communications, 2020, 11, 3362.	12.8	106
23	Chiral Hierarchical Molecular Nanostructures on Two-Dimensional Surface by Controllable Trinary Self-Assembly. Journal of the American Chemical Society, 2011, 133, 21010-21015.	13.7	91
24	Multifunctional three-dimensional macroporous nanoelectronic networks for smart materials. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 6694-6699.	7.1	85
25	â€œRecent advances on support materials for lipase immobilization and applicability as biocatalysts in inhibitors screening methodsâ€•A review. Analytica Chimica Acta, 2020, 1101, 9-22.	5.4	66
26	Solvent-Controlled 2D Hostâ˘Guest (2,7,12-Trihexyloxytruxene/Coronene) Molecular Nanostructures at Organic Liquid/Solid Interface Investigated by Scanning Tunneling Microscopy. Langmuir, 2010, 26, 8195-8200.	3.5	56
27	ClusterMap for multi-scale clustering analysis of spatial gene expression. Nature Communications, 2021, 12, 5909.	12.8	47
28	Roadmap on semiconductorâ€“cell biointerfaces. Physical Biology, 2018, 15, 031002.	1.8	45
29	Stretchable Mesh Nanoelectronics for 3D Singleâ€Cell Chronic Electrophysiology from Developing Brain Organoids. Advanced Materials, 2022, 34, e2106829.	21.0	44
30	Magnetic 3-D ordered macroporous silica templated from binary colloidal crystals and its application for effective removal of microcystin. Microporous and Mesoporous Materials, 2010, 130, 26-31.	4.4	36
31	Stretchable Electrets: Nanoparticleâ€“Elastomer Composites. Nano Letters, 2020, 20, 4580-4587.	9.1	31
32	Emerging Bioelectronics for Brain Organoid Electrophysiology. Journal of Molecular Biology, 2022, 434, 167165.	4.2	29
33	A simple approach to the synthesis of hollow microspheres with magnetite/silica hybrid walls. Journal of Colloid and Interface Science, 2009, 333, 329-334.	9.4	28
34	Fundamental Limits to the Electrochemical Impedance Stability of Dielectric Elastomers in Bioelectronics. Nano Letters, 2020, 20, 224-233.	9.1	28
35	From Lithographically Patternable to Genetically Patternable Electronic Materials for Miniaturized, Scalable, and Soft Implantable Bioelectronics to Interface with Nervous and Cardiac Systems. ACS Applied Electronic Materials, 2021, 3, 101-118.	4.3	21
36	Antimicrobial and Immunomodulating Activities of Two Endemic Nepeta Species and Their Major Iridoids Isolated from Natural Sources. Pharmaceuticals, 2021, 14, 414.	3.8	21

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37	A novel approach to the construction of 3-D ordered macrostructures with polyhedral particles. Journal of Materials Chemistry, 2008, 18, 408-415.	6.7	18
38	Syringe Injectable Electronics. Springer Theses, 2018, , 65-93.	0.1	18
39	Lanthanide-containing persistent luminescence materials with superbright red afterglow and excellent solution processability. Science China Chemistry, 2021, 64, 2125-2133.	8.2	18
40	Homopolymer induced phase evolution in mesoporous silica from evaporation induced self-assembly process. Microporous and Mesoporous Materials, 2008, 116, 633-640.	4.4	14
41	Interfacial DNA Framework-Enhanced Background-to-Signal Transition for Ultrasensitive and Specific Micro-RNA Detection. ACS Applied Materials & Interfaces, 2022, 14, 18209-18218.	8.0	13
42	Shapeâ€Persistent Twoâ€Component 2â€‰D Networks with Atomicâ€Size Tunability. Chemistry - an Asian Journal, 2011, 6, 2426-2430.	3.3	9
43	Chemically Modified mocRNAs for Highly Efficient Protein Expression in Mammalian Cells. ACS Chemical Biology, 2022, 17, 3352-3366.	3.4	8
44	Soft bioelectronics for cardiac interfaces. Biophysics Reviews, 2022, 3, .	2.7	8
45	Engineering the Mesopores of Fe₃O₄@Mesosilica Coreâ€"Shell Nanospheres through a Solvothermal Postâ€Treatment Method. Chemistry - an Asian Journal, 2013, 8, 582-587.	3.3	7
46	Elevated serum 4HNE plus decreased serum thioredoxin: Unique feature and implications for acute exacerbation of chronic obstructive pulmonary disease. PLoS ONE, 2021, 16, e0245810.	2.5	6
47	Functional nanomaterial-enabled synthetic biology. Nano Futures, 2021, 5, 022001.	2.2	6
48	Scanning Tunneling Microscopy Investigation of Copper Phthalocyanine and Truxenone Derivative Binary Superstructures on Graphite. Chemistry - an Asian Journal, 2011, 6, 424-429.	3.3	5
49	Biomimetics Through Nanoelectronics. Springer Theses, 2018, , .	0.1	3
50	New insights into serum/extracellular thioredoxin in regulating hepatic insulin receptor activation. Biochimica Et Biophysica Acta - General Subjects, 2020, 1864, 129630.	2.4	2