

Xiaobin Xu

List of Publications by Year in descending order

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71
papers

4,468
citations

126858

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102432

66
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all docs

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docs citations

77
times ranked

7603
citing authors

#	ARTICLE	IF	CITATIONS
1	A Stretchable Ionic Conductive Elastomer for High-Areal-Capacity Lithium-Metal Batteries. <i>Energy and Environmental Materials</i> , 2022, 5, 337-343.	7.3	16
2	Instant Intracellular Delivery of miRNA via Photothermal Effect Induced on Plasmonic Pyramid Arrays. <i>Advanced Functional Materials</i> , 2022, 32, 2107999.	7.8	6
3	A review of recent progress toward the efficient separation of circulating tumor cells via micro-nanostructured microfluidic chips. <i>View</i> , 2022, 3, .	2.7	13
4	Instant Intracellular Delivery of miRNA via Photothermal Effect Induced on Plasmonic Pyramid Arrays (Adv. Funct. Mater. 9/2022). <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	0
5	Vascularizing the brain in-vitro. <i>IScience</i> , 2022, 25, 104110.	1.9	13
6	Osteogenesis-Inducing Chemical Cues Enhance the Mechanosensitivity of Human Mesenchymal Stem Cells for Osteogenic Differentiation on a Microtopographically Patterned Surface. <i>Advanced Science</i> , 2022, 9, e2200053.	5.6	11
7	High-Performance Zinc-Air Batteries Based on Bifunctional Hierarchically Porous Nitrogen-Doped Carbon. <i>Small</i> , 2022, 18, e2105928.	5.2	23
8	Recent progress on microfluidic devices with incorporated 1D nanostructures for enhanced extracellular vesicle (EV) separation. <i>Bio-Design and Manufacturing</i> , 2022, 5, 607-616.	3.9	5
9	Hybrid Lithographic Arbitrary Patterning of TiO ₂ Nanorod Arrays. <i>ACS Omega</i> , 2022, 7, 22039-22045.	1.6	3
10	Narrower Nanoribbon Biosensors Fabricated by Chemical Lift-off Lithography Show Higher Sensitivity. <i>ACS Nano</i> , 2021, 15, 904-915.	7.3	33
11	Supramolecular Nanosubstrate-Mediated Delivery for CRISPR/Cas9 Gene Disruption and Deletion. <i>Small</i> , 2021, 17, 2100546.	5.2	8
12	Single-Step Dual-Layer Photolithography for Tunable and Scalable Nanopatterning. <i>ACS Nano</i> , 2021, 15, 12180-12188.	7.3	37
13	Large-Area Periodic Organic-Inorganic Hybrid Perovskite Nanopyramid Arrays for High-Performance Photodetector and Image Sensor Applications. , 2021, 3, 1189-1196.		23
14	Reproducible and arbitrary patterning of transparent ZnO nanorod arrays for optic and biomedical device integration. <i>Journal of Alloys and Compounds</i> , 2021, , 163003.	2.8	6
15	Photothermal Intracellular Delivery Using Gold Nanodisk Arrays. , 2020, 2, 1475-1483.		15
16	Two-Plateau Li-Se Chemistry for High Volumetric Capacity Se Cathodes. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 13908-13914.	7.2	26
17	A Battery-and Leadless Heart-Worn Pacemaker Strategy. <i>Advanced Functional Materials</i> , 2020, 30, 2000477.	7.8	42
18	Two-Plateau Li-Se Chemistry for High Volumetric Capacity Se Cathodes. <i>Angewandte Chemie</i> , 2020, 132, 14012-14018.	1.6	9

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19	Scalable Fabrication of Quasi-One-Dimensional Gold Nanoribbons for Plasmonic Sensing. <i>Nano Letters</i> , 2020, 20, 1747-1754.	4.5	19
20	One-dimensional microstructure-assisted intradermal and intracellular delivery. <i>Bio-Design and Manufacturing</i> , 2019, 2, 24-30.	3.9	8
21	Micropatterned Viral Membrane Clusters for Antiviral Drug Evaluation. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 13984-13990.	4.0	7
22	Iron Hydroxide-Modified Nickel Hydroxylphosphate Single-Wall Nanotubes as Efficient Electrocatalysts for Oxygen Evolution Reactions. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 9407-9414.	4.0	38
23	Precision-Guided Nanospears for Targeted and High-Throughput Intracellular Gene Delivery. <i>ACS Nano</i> , 2018, 12, 4503-4511.	7.3	103
24	Recent progress on the design and fabrication of micromotors and their biomedical applications. <i>Bio-Design and Manufacturing</i> , 2018, 1, 225-236.	3.9	12
25	Aptamer-Field-Effect Transistors Overcome Debye Length Limitations for Small-Molecule Sensing. <i>Science</i> , 2018, 362, 319-324.	6.0	570
26	Cross-Linked Fluorescent Supramolecular Nanoparticles for Intradermal Controlled Release of Antifungal Drug: A Therapeutic Approach for Onychomycosis. <i>ACS Nano</i> , 2018, 12, 6851-6859.	7.3	19
27	Metal-Organic Framework Based Microcapsules. <i>Angewandte Chemie</i> , 2018, 130, 10305-10309.	1.6	15
28	Metal-Organic Framework Based Microcapsules. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 10148-10152.	7.2	64
29	Large-Area, Ultrathin Metal-Oxide Semiconductor Nanoribbon Arrays Fabricated by Chemical Lift-Off Lithography. <i>Nano Letters</i> , 2018, 18, 5590-5595.	4.5	27
30	Superhydrophilic amorphous Co-B-P nanosheet electrocatalysts with Pt-like activity and durability for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2018, 6, 22062-22069.	5.2	156
31	Polymer-Pen Chemical Lift-Off Lithography. <i>Nano Letters</i> , 2017, 17, 3302-3311.	4.5	39
32	Modifying Commercial Carbon with Trace Amounts of ZIF to Prepare Derivatives with Superior ORR Activities. <i>Advanced Materials</i> , 2017, 29, 1701354.	11.1	94
33	Competitive Coordination Strategy to Finely Tune Pore Environment of Zirconium-Based Metal-Organic Frameworks. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 22732-22738.	4.0	36
34	Multiple-Patterning Nanosphere Lithography for Fabricating Periodic Three-Dimensional Hierarchical Nanostructures. <i>ACS Nano</i> , 2017, 11, 10384-10391.	7.3	83
35	Self-Powered Sensors: Ultralight and Binder-Free All-Solid-State Flexible Supercapacitors for Powering Wearable Strain Sensors (<i>Adv. Funct. Mater.</i> 39/2017). <i>Advanced Functional Materials</i> , 2017, 27, .	7.8	0
36	Ultralight and Binder-Free All-Solid-State Flexible Supercapacitors for Powering Wearable Strain Sensors. <i>Advanced Functional Materials</i> , 2017, 27, 1702738.	7.8	75

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37	Porous Multishelled Ni ₂ P Hollow Microspheres as an Active Electrocatalyst for Hydrogen and Oxygen Evolution. <i>Chemistry of Materials</i> , 2017, 29, 8539-8547.	3.2	279
38	Self-Collapse Lithography. <i>Nano Letters</i> , 2017, 17, 5035-5042.	4.5	19
39	Nickel Diselenide Ultrathin Nanowires Decorated with Amorphous Nickel Oxide Nanoparticles for Enhanced Water Splitting Electrocatalysis. <i>Small</i> , 2017, 13, 1701487.	5.2	99
40	Polyoxometalate Cluster-Incorporated Metal-Organic Framework Hierarchical Nanotubes. <i>Small</i> , 2016, 12, 2982-2990.	5.2	60
41	Ni-Decorated Molybdenum Carbide Hollow Structure Derived from Carbon-Coated Metal-Organic Framework for Electrocatalytic Hydrogen Evolution Reaction. <i>Chemistry of Materials</i> , 2016, 28, 6313-6320.	3.2	207
42	Rational Synthesis of Three-Dimensional Nanosuperstructures for Applications in Energy Storage and Conversion. <i>IEEE Transactions on Device and Materials Reliability</i> , 2016, 16, 475-482.	1.5	2
43	Surfactant encapsulated palladium-polyoxometalates: controlled assembly and their application as single-atom catalysts. <i>Chemical Science</i> , 2016, 7, 1011-1015.	3.7	84
44	Well-Defined Metal-Organic Framework Hollow Nanostructures for Catalytic Reactions Involving Gases. <i>Advanced Materials</i> , 2015, 27, 5365-5371.	11.1	162
45	Recent Progress on Man-Made Inorganic Nanomachines. <i>Small</i> , 2015, 11, 4037-4057.	5.2	80
46	Micromotors with Step-Motor Characteristics by Controlled Magnetic Interactions among Assembled Components. <i>ACS Nano</i> , 2015, 9, 548-554.	7.3	46
47	Tunable Release of Multiplex Biochemicals by Plasmonically Active Rotary Nanomotors. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 2525-2529.	7.2	53
48	Tunable Release of Multiplex Biochemicals by Plasmonically Active Rotary Nanomotors. <i>Angewandte Chemie</i> , 2015, 127, 2555-2559.	1.6	9
49	Tuning the growth of metal-organic framework nanocrystals by using polyoxometalates as coordination modulators. <i>Science China Materials</i> , 2015, 58, 370-377.	3.5	65
50	Fabrication and Robotization of Ultrasensitive Plasmonic Nanosensors for Molecule Detection with Raman Scattering. <i>Sensors</i> , 2015, 15, 10422-10451.	2.1	13
51	Synthesis of Mo-based nanostructures from organic-inorganic hybrid with enhanced electrochemical for water splitting. <i>Science China Materials</i> , 2015, 58, 775-784.	3.5	23
52	Three-dimensional hierarchical Pt-Cu superstructures. <i>Nano Research</i> , 2015, 8, 832-838.	5.8	73
53	Electric-Field Enhanced Molecule Detection in Suspension on Assembled Plasmonic Arrays by Raman Spectroscopy. <i>Journal of Nanotechnology in Engineering and Medicine</i> , 2014, 5, 0410051-410056.	0.8	1
54	Electric-Driven Rotation of Silicon Nanowires and Silicon Nanowire Motors. <i>Advanced Functional Materials</i> , 2014, 24, 4843-4850.	7.8	28

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55	Ultrahigh-speed rotating nanoelectromechanical system devices assembled from nanoscale building blocks. <i>Nature Communications</i> , 2014, 5, 3632.	5.8	172
56	Three-dimensional multilevel porous thin graphite nanosuperstructures for Ni(OH) ₂ -based energy storage devices. <i>Journal of Materials Chemistry A</i> , 2014, 2, 15768-15773.	5.2	42
57	Rapid synthesis of mesoporous Ni _x Co _{3-x} (PO ₄) ₂ hollow shells showing enhanced electrocatalytic and supercapacitor performance. <i>Journal of Materials Chemistry A</i> , 2014, 2, 20182-20188.	5.2	101
58	Near-Field Enhanced Plasmonic-Magnetic Bifunctional Nanotubes for Single Cell Bioanalysis. <i>Advanced Functional Materials</i> , 2013, 23, 4332-4338.	7.8	111
59	One-step waferscale synthesis of 3-D ZnO nanosuperstructures by designed catalysts for substantial improvement of solar water oxidation efficiency. <i>Journal of Materials Chemistry A</i> , 2013, 1, 8111.	5.2	18
60	Promoting the catalytic efficiency of a catalyst by a solvothermal method. <i>RSC Advances</i> , 2013, 3, 5819.	1.7	5
61	Guided-mode-resonance-coupled plasmonic-active SiO ₂ nanotubes for surface enhanced Raman spectroscopy. <i>Applied Physics Letters</i> , 2012, 100, 191114.	1.5	53
62	Electronic properties of nanoentities revealed by electrically driven rotation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 9309-9313.	3.3	37
63	Nanosensors: Ordered Arrays of Raman Nanosensors for Ultrasensitive and Location Predictable Biochemical Detection (<i>Adv. Mater.</i> 40/2012). <i>Advanced Materials</i> , 2012, 24, 5516-5516.	11.1	0
64	Ultra-efficient nano-photonic devices using hybrid material systems for optical communication and sensing. , 2012, , .		1
65	One-Step Hydrothermal Synthesis of Comb-Like ZnO Nanostructures. <i>Crystal Growth and Design</i> , 2012, 12, 4829-4833.	1.4	42
66	Ordered Arrays of Raman Nanosensors for Ultrasensitive and Location Predictable Biochemical Detection. <i>Advanced Materials</i> , 2012, 24, 5457-5463.	11.1	55
67	Synthesis and characterization of gold cubic nanoshells using water-soluble GeO ₂ templates. <i>Nanotechnology</i> , 2011, 22, 155706.	1.3	6
68	Large-Scale Synthesis of SnO ₂ Nanosheets with High Lithium Storage Capacity. <i>Journal of the American Chemical Society</i> , 2010, 132, 46-47.	6.6	626
69	Monodispersed NiO nanoflowers with anomalous magnetic behavior. <i>Nanotechnology</i> , 2010, 21, 425702.	1.3	33
70	Growth mechanism of cross-like SnO structure synthesized by thermal decomposition. <i>Chemical Physics Letters</i> , 2009, 482, 287-290.	1.2	29
71	High temperature stable monodisperse superparamagnetic core-shell iron-oxide@SnO ₂ nanoparticles. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	23