Xiaobin Xu

List of Publications by Year
in descending order

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		126858	102432
71	4,468	33	66
papers	citations	h-index	g-index

77	77	77	7603
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Large-Scale Synthesis of SnO₂ Nanosheets with High Lithium Storage Capacity. Journal of the American Chemical Society, 2010, 132, 46-47.	6.6	626
2	Aptamerâ€"field-effect transistors overcome Debye length limitations for small-molecule sensing. Science, 2018, 362, 319-324.	6.0	570
3	Porous Multishelled Ni₂P Hollow Microspheres as an Active Electrocatalyst for Hydrogen and Oxygen Evolution. Chemistry of Materials, 2017, 29, 8539-8547.	3.2	279
4	Ni-Decorated Molybdenum Carbide Hollow Structure Derived from Carbon-Coated Metalâ€"Organic Framework for Electrocatalytic Hydrogen Evolution Reaction. Chemistry of Materials, 2016, 28, 6313-6320.	3.2	207
5	Ultrahigh-speed rotating nanoelectromechanical system devices assembled from nanoscale building blocks. Nature Communications, 2014, 5, 3632.	5.8	172
6	Wellâ€Defined Metalâ€"Organicâ€Framework Hollow Nanostructures for Catalytic Reactions Involving Gases. Advanced Materials, 2015, 27, 5365-5371.	11.1	162
7	Superhydrophilic amorphous Coâ€"Bâ€"P nanosheet electrocatalysts with Pt-like activity and durability for the hydrogen evolution reaction. Journal of Materials Chemistry A, 2018, 6, 22062-22069.	5.2	156
8	Nearâ€Field Enhanced Plasmonicâ€Magnetic Bifunctional Nanotubes for Single Cell Bioanalysis. Advanced Functional Materials, 2013, 23, 4332-4338.	7.8	111
9	Precision-Guided Nanospears for Targeted and High-Throughput Intracellular Gene Delivery. ACS Nano, 2018, 12, 4503-4511.	7.3	103
10	Rapid synthesis of mesoporous Ni_xCo_{3â"x}(PO₄)₂hollow shells showing enhanced electrocatalytic and supercapacitor performance. Journal of Materials Chemistry A, 2014, 2, 20182-20188.	5.2	101
11	Nickel Diselenide Ultrathin Nanowires Decorated with Amorphous Nickel Oxide Nanoparticles for Enhanced Water Splitting Electrocatalysis. Small, 2017, 13, 1701487.	5.2	99
12	Modifying Commercial Carbon with Trace Amounts of ZIF to Prepare Derivatives with Superior ORR Activities. Advanced Materials, 2017, 29, 1701354.	11.1	94
13	Surfactant encapsulated palladium-polyoxometalates: controlled assembly and their application as single-atom catalysts. Chemical Science, 2016, 7, 1011-1015.	3.7	84
14	Multiple-Patterning Nanosphere Lithography for Fabricating Periodic Three-Dimensional Hierarchical Nanostructures. ACS Nano, 2017, 11, 10384-10391.	7.3	83
15	Recent Progress on Manâ€Made Inorganic Nanomachines. Small, 2015, 11, 4037-4057.	5.2	80
16	Ultralight and Binderâ€Free Allâ€Solidâ€State Flexible Supercapacitors for Powering Wearable Strain Sensors. Advanced Functional Materials, 2017, 27, 1702738.	7.8	75
17	Three-dimensional hierarchical Pt-Cu superstructures. Nano Research, 2015, 8, 832-838.	5.8	73
18	Tuning the growth of metal-organic framework nanocrystals by using polyoxometalates as coordination modulators. Science China Materials, 2015, 58, 370-377.	3.5	65

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19	Metalâ€“Organic Framework Based Microcapsules. Angewandte Chemie - International Edition, 2018, 57, 10148-10152.	7.2	64
20	Polyoxometalate Clusterâ€Incorporated Metalâ€Organic Framework Hierarchical Nanotubes. Small, 2016, 12, 2982-2990.	5.2	60
21	Ordered Arrays of Raman Nanosensors for Ultrasensitive and Location Predictable Biochemical Detection. Advanced Materials, 2012, 24, 5457-5463.	11.1	55
22	Guided-mode-resonance-coupled plasmonic-active SiO2 nanotubes for surface enhanced Raman spectroscopy. Applied Physics Letters, 2012, 100, 191114.	1.5	53
23	Tunable Release of Multiplex Biochemicals by Plasmonically Active Rotary Nanomotors. Angewandte Chemie - International Edition, 2015, 54, 2525-2529.	7.2	53
24	Micromotors with Step-Motor Characteristics by Controlled Magnetic Interactions among Assembled Components. ACS Nano, 2015, 9, 548-554.	7.3	46
25	One-Step Hydrothermal Synthesis of Comb-Like ZnO Nanostructures. Crystal Growth and Design, 2012, 12, 4829-4833.	1.4	42
26	Three-dimensional multilevel porous thin graphite nanosuperstructures for Ni(OH)₂-based energy storage devices. Journal of Materials Chemistry A, 2014, 2, 15768-15773.	5.2	42
27	A Batteryâ€and Leadless Heartâ€Worn Pacemaker Strategy. Advanced Functional Materials, 2020, 30, 2000477.	7.8	42
28	Polymer-Pen Chemical Lift-Off Lithography. Nano Letters, 2017, 17, 3302-3311.	4.5	39
29	Iron Hydroxide-Modified Nickel Hydroxylphosphate Single-Wall Nanotubes as Efficient Electrocatalysts for Oxygen Evolution Reactions. ACS Applied Materials & Interfaces, 2018, 10, 9407-9414.	4.0	38
30	Electronic properties of nanoentities revealed by electrically driven rotation. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 9309-9313.	3.3	37
31	Single-Step Dual-Layer Photolithography for Tunable and Scalable Nanopatterning. ACS Nano, 2021, 15, 12180-12188.	7.3	37
32	Competitive Coordination Strategy to Finely Tune Pore Environment of Zirconium-Based Metalâ€“Organic Frameworks. ACS Applied Materials & Interfaces, 2017, 9, 22732-22738.	4.0	36
33	Monodispersed NiO nanoflowers with anomalous magnetic behavior. Nanotechnology, 2010, 21, 425702.	1.3	33
34	Narrower Nanoribbon Biosensors Fabricated by Chemical Lift-off Lithography Show Higher Sensitivity. ACS Nano, 2021, 15, 904-915.	7.3	33
35	Growth mechanism of cross-like SnO structure synthesized by thermal decomposition. Chemical Physics Letters, 2009, 482, 287-290.	1.2	29
36	Electricâ€Driven Rotation of Silicon Nanowires and Silicon Nanowire Motors. Advanced Functional Materials, 2014, 24, 4843-4850.	7.8	28

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37	Large-Area, Ultrathin Metal-Oxide Semiconductor Nanoribbon Arrays Fabricated by Chemical Lift-Off Lithography. Nano Letters, 2018, 18, 5590-5595.	4.5	27
38	Twoâ€Plateau Liâ€Se Chemistry for High Volumetric Capacity Se Cathodes. Angewandte Chemie - International Edition, 2020, 59, 13908-13914.	7.2	26
39	High temperature stable monodisperse superparamagnetic core-shell iron-oxide@SnO2 nanoparticles. Applied Physics Letters, 2009, 95, .	1.5	23
40	Synthesis of Mo-based nanostructures from organic-inorganic hybrid with enhanced electrochemical for water splitting. Science China Materials, 2015, 58, 775-784.	3.5	23
41	Large-Area Periodic Organicâ€“Inorganic Hybrid Perovskite Nanopyramid Arrays for High-Performance Photodetector and Image Sensor Applications. , 2021, 3, 1189-1196.		23
42	Highâ€Performance Zincâ€Air Batteries Based on Bifunctional Hierarchically Porous Nitrogenâ€Doped Carbon. Small, 2022, 18, e2105928.	5.2	23
43	Self-Collapse Lithography. Nano Letters, 2017, 17, 5035-5042.	4.5	19
44	Cross-Linked Fluorescent Supramolecular Nanoparticles for Intradermal Controlled Release of Antifungal Drugâ€”A Therapeutic Approach for Onychomycosis. ACS Nano, 2018, 12, 6851-6859.	7.3	19
45	Scalable Fabrication of Quasi-One-Dimensional Gold Nanoribbons for Plasmonic Sensing. Nano Letters, 2020, 20, 1747-1754.	4.5	19
46	One-step waferscale synthesis of 3-D ZnO nanosuperstructures by designed catalysts for substantial improvement of solar water oxidation efficiency. Journal of Materials Chemistry A, 2013, 1, 8111.	5.2	18
47	A Stretchable Ionic Conductive Elastomer for Highâ€Arealâ€Capacity Lithiumâ€Metal Batteries. Energy and Environmental Materials, 2022, 5, 337-343.	7.3	16
48	Metalâ€“Organic Framework Based Microcapsules. Angewandte Chemie, 2018, 130, 10305-10309.	1.6	15
49	Photothermal Intracellular Delivery Using Gold Nanodisk Arrays. , 2020, 2, 1475-1483.		15
50	Fabrication and Robotization of Ultrasensitive Plasmonic Nanosensors for Molecule Detection with Raman Scattering. Sensors, 2015, 15, 10422-10451.	2.1	13
51	A review of recent progress toward the efficient separation of circulating tumor cells via microâ€/nanostructured microfluidic chips. View, 2022, 3, .	2.7	13
52	Vascularizing the brain inÂvitro. IScience, 2022, 25, 104110.	1.9	13
53	Recent progress on the design and fabrication of micromotors and their biomedical applications. Bio-Design and Manufacturing, 2018, 1, 225-236.	3.9	12
54	Osteogenesisâ€Inducing Chemical Cues Enhance the Mechanosensitivity of Human Mesenchymal Stem Cells for Osteogenic Differentiation on a Microtopographically Patterned Surface. Advanced Science, 2022, 9, e2200053.	5.6	11

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55	Tunable Release of Multiplex Biochemicals by Plasmonically Active Rotary Nanomotors. Angewandte Chemie, 2015, 127, 2555-2559.	1.6	9
56	Twoâ€Plateau Liâ€Se Chemistry for High Volumetric Capacity Se Cathodes. Angewandte Chemie, 2020, 132, 14012-14018.	1.6	9
57	One-dimensional microstructure-assisted intradermal and intracellular delivery. Bio-Design and Manufacturing, 2019, 2, 24-30.	3.9	8
58	Supramolecular Nanosubstrateâ€Mediated Delivery for CRISPR/Cas9 Gene Disruption and Deletion. Small, 2021, 17, 2100546.	5.2	8
59	Micropatterned Viral Membrane Clusters for Antiviral Drug Evaluation. ACS Applied Materials & Interfaces, 2019, 11, 13984-13990.	4.0	7
60	Synthesis and characterization of gold cubic nanoshells using water-soluble GeO₂templates. Nanotechnology, 2011, 22, 155706.	1.3	6
61	Instant Intracellular Delivery of miRNA via Photothermal Effect Induced on Plasmonic Pyramid Arrays. Advanced Functional Materials, 2022, 32, 2107999.	7.8	6
62	Reproducible and arbitrary patterning of transparent ZnO nanorod arrays for optic and biomedical device integration. Journal of Alloys and Compounds, 2021, , 163003.	2.8	6
63	Promoting the catalytic efficiency of a catalyst by a solvothermal method. RSC Advances, 2013, 3, 5819.	1.7	5
64	Recent progress on microfluidic devices with incorporated 1D nanostructures for enhanced extracellular vesicle (EV) separation. Bio-Design and Manufacturing, 2022, 5, 607-616.	3.9	5
65	Hybrid Lithographic Arbitrary Patterning of TiO₂ Nanorod Arrays. ACS Omega, 2022, 7, 22039-22045.	1.6	3
66	Rational Synthesis of Three-Dimensional Nanosuperstructures for Applications in Energy Storage and Conversion. IEEE Transactions on Device and Materials Reliability, 2016, 16, 475-482.	1.5	2
67	Ultra-efficient nano-photonic devices using hybrid material systems for optical communication and sensing. , 2012, , .		1
68	Electric-Field Enhanced Molecule Detection in Suspension on Assembled Plasmonic Arrays by Raman Spectroscopy. Journal of Nanotechnology in Engineering and Medicine, 2014, 5, 0410051-410056.	0.8	1
69	Nanosensors: Ordered Arrays of Raman Nanosensors for Ultrasensitive and Location Predictable Biochemical Detection (Adv. Mater. 40/2012). Advanced Materials, 2012, 24, 5516-5516.	11.1	0
70	Selfâ€Powered Sensors: Ultralight and Binderâ€Free Allâ€Solidâ€State Flexible Supercapacitors for Powering Wearable Strain Sensors (Adv. Funct. Mater. 39/2017). Advanced Functional Materials, 2017, 27, .	7.8	0
71	Instant Intracellular Delivery of miRNA via Photothermal Effect Induced on Plasmonic Pyramid Arrays (Adv. Funct. Mater. 9/2022). Advanced Functional Materials, 2022, 32, .	7.8	0