Wenting Zhao

List of Publications by Year
in descending order

42 papers	5,128 citations	304743 22 h-index	361022 35 g-index
47 all docs	47 docs citations	47 times ranked	8881 citing authors

#	Article	IF	Citations
1	A pomegranate-inspired nanoscale design for large-volume-change lithium battery anodes. Nature Nanotechnology, 2014, 9, 187-192.	31.5	2,109
2	Hierarchical nanostructured conducting polymer hydrogel with high electrochemical activity. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 9287-9292.	7.1	1,025
3	Nanoscale manipulation of membrane curvature for probing endocytosis in live cells. Nature Nanotechnology, 2017, 12, 750-756.	31.5	242
4	Micro- and Nano- Magnetic Particles for Applications in Biosensing. Electroanalysis, 2007, 19, 755-768.	2.9	201
5	Conducting Nanosponge Electroporation for Affordable and High-Efficiency Disinfection of Bacteria and Viruses in Water. Nano Letters, 2013, 13, 4288-4293.	9.1	160
6	Vertical nanopillars for in situ probing of nuclear mechanics in adherent cells. Nature Nanotechnology, 2015, 10, 554-562.	31.5	152
7	Revealing the Cellâ€"Material Interface with Nanometer Resolution by Focused Ion Beam/Scanning Electron Microscopy. ACS Nano, 2017, 11, 8320-8328.	14.6	152
8	Membrane curvature underlies actin reorganization in response to nanoscale surface topography. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 23143-23151.	7.1	147
9	The Role of Membrane Curvature in Nanoscale Topography-Induced Intracellular Signaling. Accounts of Chemical Research, 2018, 51, 1046-1053.	15.6	124
10	Static Electricity Powered Copper Oxide Nanowire Microbicidal Electroporation for Water Disinfection. Nano Letters, 2014, 14, 5603-5608.	9.1	118
11	A nanostructure platform for live-cell manipulation of membrane curvature. Nature Protocols, 2019, 14, 1772-1802.	12.0	78
12	In Situ Investigation on the Nanoscale Capture and Evolution of Aerosols on Nanofibers. Nano Letters, 2018, 18, 1130-1138.	9.1	65
13	Tunable Stabilization of Gold Nanoparticles in Aqueous Solutions by Mononucleotides. Langmuir, 2007, 23, 7143-7147.	3.5	63
14	Morphology and property investigation of primary particulate matter particles from different sources. Nano Research, 2018, 11, 3182-3192.	10.4	54
15	Rapid Synthesis of DNA-Functionalized Gold Nanoparticles in Salt Solution Using Mononucleotide-Mediated Conjugation. Bioconjugate Chemistry, 2009, 20, 1218-1222.	3.6	52
16	Tutorial: using nanoneedles for intracellular delivery. Nature Protocols, 2021, 16, 4539-4563.	12.0	47
17	Hyaluronan content governs tissue stiffness in pancreatic islet inflammation. Journal of Biological Chemistry, 2018, 293, 567-578.	3.4	38
18	Membrane curvature sensing of the lipid-anchored K-Ras small GTPase. Life Science Alliance, 2019, 2, e201900343.	2.8	35

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19	Transdermal Photothermal-Pharmacotherapy to Remodel Adipose Tissue for Obesity and Metabolic Disorders. ACS Nano, 2022, 16, 1813-1825.	14.6	32
20	A microsystem compatible strategy for viable Escherichia coli detection. Biosensors and Bioelectronics, 2006, 21, 1163-1170.	10.1	30
21	Modeling axial distributions of adsorbent particle size and local voidage in expanded bed. Chemical Engineering Science, 2004, 59, 449-457.	3.8	27
22	Enhancing the Nanomaterial Bio-Interface by Addition of Mesoscale Secondary Features: Crinkling of Carbon Nanotube Films To Create Subcellular Ridges. ACS Nano, 2014, 8, 11958-11965.	14.6	26
23	Nucleotide-Mediated Size Fractionation of Gold Nanoparticles in Aqueous Solutions. Langmuir, 2010, 26, 7405-7409.	3.5	23
24	Tear-Based Aqueous Batteries for Smart Contact Lenses Enabled by Prussian Blue Analogue Nanocomposites. Nano Letters, 2021, 21, 1659-1665.	9.1	22
25	Dual-Functional Lipid Coating for the Nanopillar-Based Capture of Circulating Tumor Cells with High Purity and Efficiency. Langmuir, 2017, 33, 1097-1104.	3.5	21
26	Facile and rapid manipulation of DNA surface density on gold nanoparticles using mononucleotide-mediated conjugation. Chemical Communications, 2010, 46, 1314.	4.1	20
27	In Situ Generation of Zinc Oxide Nanobushes on Microneedles as Antibacterial Coating. SLAS Technology, 2019, 24, 181-187.	1.9	19
28	Comparative Study of Curvature Sensing Mediated by F-BAR and an Intrinsically Disordered Region of FBP17. IScience, 2020, 23, 101712.	4.1	18
29	A subset of flavaglines inhibits KRAS nanoclustering and activation. Journal of Cell Science, 2020, 133, .	2.0	10
30	Patterning of Oncogenic Ras Clustering in Live Cells Using Vertically Aligned Nanostructure Arrays. Nano Letters, 2022, 22, 1007-1016.	9.1	7
31	Stainingâ€free gel electrophoresisâ€based multiplex enzyme assay using <scp>DNA</scp> and peptide dualâ€functionalized gold nanoparticles. Electrophoresis, 2012, 33, 1288-1291.	2.4	5
32	Accelerating the Development of Hippocampal Neurons using Nanopillar Structures. Biophysical Journal, 2013, 104, 675a.	0.5	1
33	Vertical Nanopillars as Probes for in Situ Nuclear Mechanotransduction. Biophysical Journal, 2016, 110, 132a.	0.5	1
34	Membrane Curvature Dependent F-Actin Polymerization at Nano-Cell Interface. Biophysical Journal, 2018, 114, 690a.	0.5	1
35	Revealing the heterogeneity in neuroblastoma cells via nanopillar-guided subnuclear deformation. Nanoscale, 2022, , .	5.6	1
36	Nucleotide-mediated size fractionation of gold nanoparticles in aqueous solution. , 2010, , .		0

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37	Probing the Mechanical Coupling of the Cell Membrane to the Nucleus with Vertical Nanopillar Arrays. Biophysical Journal, 2013, 104, 546a.	0.5	0
38	Probing the Mechanical Coupling of the Cell Membrane to the Nucleus with Vertical Nanopillar Arrays. Biophysical Journal, 2014, 106, 424a.	0.5	0
39	Nanostructure-Induced Membrane Curvature Recruits Endocytosis Machinary in Living Cells. Biophysical Journal, 2014, 106, 31a.	0.5	0
40	At the Nano-Bio Interface: Probing Live Cells with Nano Sensors. Biophysical Journal, 2014, 106, 225a.	0.5	0
41	Nanoscale Curvatures Modulate Protein Signaling at the Cell Membrane. Biophysical Journal, 2020, 118, 487a.	0.5	0
42	Curvature Sensing Mediated by F-BAR Domain and an Intrinsically Disordered Region of FBP17. Biophysical Journal, 2021, 120, 31a.	0.5	0