

Shan Zou

List of Publications by Year in descending order

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69
papers

3,055
citations

218592

26
h-index

161767

54
g-index

70
all docs

70
docs citations

70
times ranked

4500
citing authors

#	ARTICLE	IF	CITATIONS
1	Lab-on-a-chip analytical devices. , 2022, , 355-374.		0
2	Novel nanocarriers for silencing anti-phagocytosis CD47 marker in acute myeloid leukemia cells. Colloids and Surfaces B: Biointerfaces, 2022, 217, 112609.	2.5	8
3	Characteristics of Graphene Oxide for Gene Transfection and Controlled Release in Breast Cancer Cells. International Journal of Molecular Sciences, 2022, 23, 6802.	1.8	10
4	Anti-leukemia effect associated with down-regulated CD47 and up-regulated calreticulin by stimulated macrophages in co-culture. Cancer Immunology, Immunotherapy, 2021, 70, 787-801.	2.0	7
5	AFM characterization of cellulose nanocrystal height and width using internal calibration standards. Cellulose, 2021, 28, 1933-1946.	2.4	24
6	Influence of bound dodecanoic acid on the reconstitution of albumin nanoparticles from a lyophilized state. Scientific Reports, 2021, 11, 4768.	1.6	1
7	In situ rolling circle amplification surface modifications to improve E.Âcoli O157:H7 capturing performances for rapid and sensitive microfluidic detection applications. Analytica Chimica Acta, 2021, 1150, 338229.	2.6	14
8	Advances in culture methods for acute myeloid leukemia research. Oncoscience, 2021, 8, 82-90.	0.9	2
9	Thermogravimetric analysis of microplastics: A mini review. Environmental Advances, 2021, 5, 100117.	2.2	40
10	Characterization of size and aggregation for cellulose nanocrystal dispersions separated by asymmetrical-flow field-flow fractionation. Cellulose, 2020, 27, 2015-2028.	2.4	18
11	Probing arsenic trioxide (ATO) treated leukemia cell elasticities using atomic force microscopy. Analytical Methods, 2020, 12, 4734-4741.	1.3	1
12	Conformational Order in Aggregated rra-P3HT as an Indicator of Quality of Boron Nitride Nanotubes. Journal of Physical Chemistry Letters, 2020, 11, 4179-4185.	2.1	6
13	Developing a dual-RCA microfluidic platform for sensitive E.Âcoli O157:H7 whole-cell detections. Analytica Chimica Acta, 2020, 1127, 79-88.	2.6	36
14	Rolling circle amplification and its application in microfluidic systems for Escherichia coli O157:H7 detections. Journal of Food Safety, 2019, 39, e12671.	1.1	9
15	The impact of processing on the cytotoxicity of graphene oxide. Nanoscale Advances, 2019, 1, 817-826.	2.2	28
16	Assessing size-dependent cytotoxicity of boron nitride nanotubes using a novel cardiomyocyte AFM assay. Nanoscale Advances, 2019, 1, 1914-1923.	2.2	24
17	Quality Assessment of Bulk Boron Nitride Nanotubes for Advancing Research, Commercial, and Industrial Applications. ACS Applied Nano Materials, 2019, 2, 2054-2063.	2.4	19
18	Cellular Metrology: Scoping for a Value Proposition in Extra- and Intracellular Measurements. Frontiers in Bioengineering and Biotechnology, 2019, 7, 456.	2.0	10

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19	Characterization challenges for a cellulose nanocrystal reference material: dispersion and particle size distributions. <i>Journal of Nanoparticle Research</i> , 2018, 20, 1.	0.8	46
20	Temperature induced lipid membrane restructuring and changes in nanomechanics. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2018, 1860, 700-709.	1.4	19
21	Systematic toxicity investigation of graphene oxide: evaluation of assay selection, cell type, exposure period and flake size. <i>Toxicology Research</i> , 2018, 7, 93-101.	0.9	58
22	Cyanoethylated pullulan as a high-k solution processable polymer gate dielectric for SWCNT TFTs. <i>Organic Electronics</i> , 2017, 42, 329-336.	1.4	16
23	Gel-gel phase separation within milk sphingomyelin domains revealed at the nanoscale using atomic force microscopy. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2017, 1859, 949-958.	1.4	18
24	A simple dendrimer-aptamer based microfluidic platform for E. coli O157:H7 detection and signal intensification by rolling circle amplification. <i>Sensors and Actuators B: Chemical</i> , 2017, 251, 976-984.	4.0	63
25	Fabrication of High Content Carbon Nanotube/Polyurethane Sheets with Tailorable Properties. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 30840-30849.	4.0	30
26	Manipulation and Quantification of Graphene Oxide Flake Size: Photoluminescence and Cytotoxicity. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 28911-28921.	4.0	60
27	Analysis Method for Quantifying the Morphology of Nanotube Networks. <i>Langmuir</i> , 2016, 32, 8735-8742.	1.6	6
28	Evaluation of drug-mediated arrhythmic changes in spontaneous beating cardiomyocytes by AFM. <i>Analyst</i> , 2016, 141, 6303-6313.	1.7	9
29	Rapid and ultra-sensitive detection of foodborne pathogens by using miniaturized microfluidic devices: a review. <i>Analytical Methods</i> , 2016, 8, 6668-6681.	1.3	37
30	AFM force indentation analysis on leukemia cells. <i>Analytical Methods</i> , 2016, 8, 4421-4431.	1.3	10
31	Enrichment of large-diameter semiconducting SWCNTs by polyfluorene extraction for high network density thin film transistors. <i>Nanoscale</i> , 2014, 6, 2328.	2.8	154
32	Milk Sphingomyelin Domains in Biomimetic Membranes and the Role of Cholesterol: Morphology and Nanomechanical Properties Investigated Using AFM and Force Spectroscopy. <i>Langmuir</i> , 2014, 30, 6516-6524.	1.6	37
33	Morphology and expression status investigations of specific surface markers on cell chronic lymphocytic leukemia cells. <i>Microscopy Research and Technique</i> , 2013, 76, 1147-1153.	1.2	3
34	Ordered gold nanoparticle arrays on glass and their characterization. <i>Journal of Colloid and Interface Science</i> , 2013, 410, 1-10.	5.0	22
35	Lipid Reassembly in Asymmetric Langmuir/Blodgett/Langmuir/Schaeffer Bilayers. <i>Langmuir</i> , 2013, 29, 221-227.	1.6	19
36	Analysis of localized surface plasmon resonance in glass-supported gold nanoparticles with a hexagonal pattern. , 2013, , .		0

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37	Force Spectroscopy Measurements Show That Cortical Neurons Exposed to Excitotoxic Agonists Stiffen before Showing Evidence of Bleb Damage. PLoS ONE, 2013, 8, e73499.	1.1	19
38	Multifunctional nanoprobes for pathogen-selective capture and detection. Chemical Communications, 2012, 48, 561-563.	2.2	17
39	Polymer Nanomechanics. , 2012, , 377-404.		1
40	Atomic Force Microscopy Force Mapping in the Study of Supported Lipid Bilayers. Langmuir, 2011, 27, 1308-1313.	1.6	55
41	Ceramide-enriched microdomains in planar membranes. Current Opinion in Colloid and Interface Science, 2010, 15, 489-498.	3.4	18
42	Cholesterol-Dependent Nanomechanical Stability of Phase-Segregated Multicomponent Lipid Bilayers. Biophysical Journal, 2010, 99, 507-516.	0.2	96
43	Perfluorophenyl Azide Immobilization Chemistry for Single Molecule Force Spectroscopy of the Concanavalin A/Mannose Interaction. Langmuir, 2010, 26, 16677-16680.	1.6	9
44	Quantification of the Nanomechanical Stability of Ceramide-Enriched Domains. Langmuir, 2009, 25, 12874-12877.	1.6	21
45	Direct Correlation of Structures and Nanomechanical Properties of Multicomponent Lipid Bilayers. Langmuir, 2009, 25, 7471-7477.	1.6	84
46	Enzymatic generation of ceramide induces membrane restructuring: Correlated AFM and fluorescence imaging of supported bilayers. Journal of Structural Biology, 2009, 168, 78-89.	1.3	45
47	Organometallicâ€“Polypeptide Block Copolymers: Synthesis and Selfâ€“Assembly of Poly(ferrocenyldimethylsilane)â€“Poly(μ -benzyloxycarbonyl-L-lysine). Chemistry - A European Journal, 2008, 14, 8624-8631.	1.7	26
48	Differential Conductivity in Selfâ€“Assembled Nanodomains of a Diblock Copolymer Using Polystyreneâ€“Poly(ferrocenylethylmethylsilane). Advanced Materials, 2008, 20, 1989-1993.	11.1	22
49	A Water-Soluble pH-Responsive Molecular Brush of Poly(<i>N,N</i> -dimethylaminoethyl) Tj ETQq1 1 0.784314 rgBT / Overlock 138	2.2	138
50	Ordered CdSe Nanoparticles within Self-Assembled Block Copolymer Domains on Surfaces. Langmuir, 2007, 23, 1612-1614.	1.6	53
51	Self-assembly of metalâ€“polymer analogues of amphiphilic triblock copolymers. Nature Materials, 2007, 6, 609-614.	13.3	746
52	Atomic Force Microscopy-Based Single-Molecule Force Spectroscopy of Synthetic Supramolecular Dimers and Polymers. , 2006, , 315-353.		10
53	Adhesion studies of latex film surfaces on the meso- and nanoscale. Applied Surface Science, 2006, 252, 3714-3728.	3.1	3
54	Single molecule force spectroscopy of smart poly(ferrocenylsilane) macromolecules: Towards highly controlled redox-driven single chain motors. Polymer, 2006, 47, 2483-2492.	1.8	37

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55	Force Spectroscopy of Individual Stimulus-Responsive Poly(ferrocenyldimethylsilane) Chains: Towards a Redox-Driven Macromolecular Motor. <i>Macromolecular Rapid Communications</i> , 2006, 27, 103-108.	2.0	52
56	Stretching and Rupturing Individual Supramolecular Polymer Chains by AFM. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 956-959.	7.2	113
57	Stretching and Rupturing Individual Supramolecular Polymer Chains by AFM. <i>Angewandte Chemie</i> , 2005, 117, 978-981.	1.6	19
58	Force Spectroscopy of Quadruple H-Bonded Dimers by AFM: Dynamic Bond Rupture and Molecular Time-Temperature Superposition. <i>Journal of the American Chemical Society</i> , 2005, 127, 11230-11231.	6.6	92
59	Enzymatic Surface Erosion of Poly(trimethylene carbonate) Films Studied by Atomic Force Microscopy. <i>Biomacromolecules</i> , 2005, 6, 3404-3409.	2.6	26
60	Grafting of Single, Stimuli-Responsive Poly(ferrocenylsilane) Polymer Chains to Gold Surfaces. <i>Langmuir</i> , 2004, 20, 6278-6287.	1.6	37
61	β -Cyclodextrin Host-Guest Complexes Probed under Thermodynamic Equilibrium: Thermodynamics and AFM Force Spectroscopy. <i>Journal of the American Chemical Society</i> , 2004, 126, 1577-1584.	6.6	162
62	Tunable Complex Stability in Surface Molecular Recognition Mediated by Self-Complementary Quadruple Hydrogen Bonds. <i>Langmuir</i> , 2003, 19, 8618-8621.	1.6	22
63	Study on Polymer Micelles of Hydrophobically Modified Ethyl Hydroxyethyl Cellulose Using Single-Molecule Force Spectroscopy. <i>Langmuir</i> , 2001, 17, 4799-4808.	1.6	21
64	Single-Molecule Force Spectroscopy on Carrageenan by Means of AFM. <i>Macromolecular Rapid Communications</i> , 2001, 22, 1163.	2.0	27
65	Single-Molecule Force Spectroscopy on <i>Bombyx mori</i> Silk Fibroin by Atomic Force Microscopy. <i>Langmuir</i> , 2000, 16, 4305-4308.	1.6	46
66	Single Polymer Chain Elongation of Poly(N-isopropylacrylamide) and Poly(acrylamide) by Atomic Force Microscopy. <i>Journal of Physical Chemistry B</i> , 2000, 104, 10258-10264.	1.2	112
67	Layer-by-layer self-assembled multilayer films containing the organic pigment, 3,4,9,10-perylenetetracarboxylic acid, and their photo- and electroluminescence properties. <i>Materials Science and Engineering C</i> , 1999, 10, 123-126.	3.8	17
68	Layer-by-layer assemblies of polycation bearing Os complex with electroactive and electroinactive polyanions and their electrocatalytic reduction of nitrite. <i>Macromolecular Chemistry and Physics</i> , 1999, 200, 840-844.	1.1	22
69	Multilayer assemblies of colloidal ZnS doped with silver and polyelectrolytes based on electrostatic interaction. <i>Thin Solid Films</i> , 1998, 327-329, 528-531.	0.8	23