Guangzhao Mao

List of Publications by Year
in descending order

108 papers	3,708 citations	136950 32 h-index	144013 57 g-index
112 all docs	112 docs citations	112 times ranked	5800 citing authors

#	Article	IF	Citations
1	Mechanical properties and stability measurement of cholesterol-containing liposome on mica by atomic force microscopy. Journal of Colloid and Interface Science, 2004, 278, 53-62.	9.4	207
2	Hyaluronic acid-conjugated polyamidoamine dendrimers for targeted delivery of 3,4-difluorobenzylidene curcumin to CD44 overexpressing pancreatic cancer cells. Colloids and Surfaces B: Biointerfaces, 2015, 136, 413-423.	5.0	170
3	Synthesis of Copper Sulfide Nanorod Arrays on Molecular Templates. Nano Letters, 2004, 4, 249-252.	9.1	127
4	Sizeâ€Ðependent Toxicity of Gold Nanoparticles on Human Embryonic Stem Cells and Their Neural Derivatives. Small, 2016, 12, 631-646.	10.0	127
5	Nanoparticle-mediated combination chemotherapy and photodynamic therapy overcomes tumor drug resistance in vitro. European Journal of Pharmaceutics and Biopharmaceutics, 2009, 71, 214-222.	4.3	118
6	Probing small unilamellar EggPC vesicles on mica surface by atomic force microscopy. Colloids and Surfaces B: Biointerfaces, 2004, 34, 41-51.	5.0	117
7	Gene delivery in vitro and in vivo from bioreducible multilayered polyelectrolyte films of plasmid DNA. Biomaterials, 2009, 30, 939-950.	11.4	111
8	Influence of Nano-Carrier Architecture on in Vitro siRNA Delivery Performance and in Vivo Biodistribution: Polyplexes vs Micelleplexes. ACS Nano, 2011, 5, 3493-3505.	14.6	109
9	Dually Responsive Multiblock Copolymers via Reversible Additionâ^'Fragmentation Chain Transfer Polymerization:Â Synthesis of Temperature- and Redox-Responsive Copolymers of Poly(N-isopropylacrylamide) and Poly(2-(dimethylamino)ethyl methacrylate). Macromolecules, 2007, 40, 8617-8624.	4.8	108
10	Influence of TAT-peptide polymerization on properties and transfection activity of TAT/DNA polyplexes. Journal of Controlled Release, 2005, 102, 293-306.	9.9	99
11	Surfactantâ^'Polymer Nanoparticles Enhance the Effectiveness of Anticancer Photodynamic Therapy. Molecular Pharmaceutics, 2008, 5, 795-807.	4.6	96
12	Polymerâ€surfactant nanoparticles for sustained release of waterâ€soluble drugs. Journal of Pharmaceutical Sciences, 2007, 96, 3379-3389.	3.3	91
13	Self-assembly of photopolymerizable bolaform amphiphile mono- and multilayers. Langmuir, 1993, 9, 3461-3470.	3.5	89
14	Disassembly of layer-by-layer films of plasmid DNA and reducible TAT polypeptide. Biomaterials, 2007, 28, 117-124.	11.4	84
15	Self-assembly of octadecyltrichlorosilane monolayers on silicon-based substrates by chemical vapor deposition. Thin Solid Films, 2006, 515, 2116-2122.	1.8	83
16	Recognition of Salmonella typhimurium by immobilized phage P22 monolayers. Surface Science, 2008, 602, 1392-1400.	1.9	78
17	Surface Functionalization of Mesoporous Silica Nanoparticles Controls Loading and Release Behavior of Mitoxantrone. Pharmaceutical Research, 2012, 29, 2407-2418.	3.5	77
18	Induction of necrotic cell death and activation of STING in the tumor microenvironment via cationic silica nanoparticles leading to enhanced antitumor immunity. Nanoscale, 2018, 10, 9311-9319.	5.6	77

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19	Colloidal subwavelength nanostructures for antireflection optical coatings. Optics Letters, 2005, 30, 1885.	3.3	76
20	Fibronectin Adsorption onto Polyelectrolyte Multilayer Films. Langmuir, 2004, 20, 3362-3370.	3.5	75
21	Electrospun polyvinyl alcoholâ€“collagenâ€“hydroxyapatite nanofibers: a biomimetic extracellular matrix for osteoblastic cells. Nanotechnology, 2012, 23, 115101.	2.6	74
22	Effect of chain lengths of PEOâ€“PPOâ€“PEO on small unilamellar liposome morphology and stability: an AFM investigation. Journal of Colloid and Interface Science, 2005, 285, 360-372.	9.4	70
23	Interactions, Structure, and Stability of Photoreactive Bolaform Amphiphile Multilayers. Langmuir, 1995, 11, 942-952.	3.5	67
24	Multifunctional Dendrimerâ€Templated Antibody Presentation on Biosensor Surfaces for Improved Biomarker Detection. Advanced Functional Materials, 2010, 20, 409-421.	14.9	58
25	Transporter protein and drug-conjugated gold nanoparticles capable of bypassing the blood-brain barrier. Scientific Reports, 2016, 6, 25794.	3.3	54
26	Dendrimer-enabled DNA delivery and transformation of Chlamydia pneumoniae. Nanomedicine: Nanotechnology, Biology, and Medicine, 2013, 9, 996-1008.	3.3	51
27	Gold nanostructures: synthesis, properties, and neurological applications. Chemical Society Reviews, 2022, 51, 2601-2680.	38.1	43
28	Atomically dispersed Pb ionic sites in PbCdSe quantum dot gels enhance room-temperature NO2 sensing. Nature Communications, 2021, 12, 4895.	12.8	40
29	Cross-Linked Bioreducible Layer-by-Layer Films for Increased Cell Adhesion and Transgene Expression. Journal of Physical Chemistry B, 2010, 114, 5283-5291.	2.6	39
30	Gold nanoparticle conjugated Rad6 inhibitor induces cell death in triple negative breast cancer cells by inducing mitochondrial dysfunction and PARP-1 hyperactivation: Synthesis and characterization. Nanomedicine: Nanotechnology, Biology, and Medicine, 2016, 12, 745-757.	3.3	37
31	Direct Study of C12E5 Aggregation on Mica by Atomic Force Microscopy Imaging and Force Measurements. Langmuir, 2000, 16, 6641-6647.	3.5	36
32	DNA Release Dynamics from Reducible Polyplexes by Atomic Force Microscopy. Langmuir, 2008, 24, 12474-12482.	3.5	33
33	Asymmetrical Molecular Aggregation in Spherulitic Dye Films. Journal of the American Chemical Society, 1999, 121, 3475-3485.	13.7	32
34	Controlled Permeability in Polyelectrolyte Films via Solvent Treatment. Chemistry of Materials, 2005, 17, 4992-4999.	6.7	32
35	Surface Morphological Study of J-Aggregate Thin Films by Atomic Force Microscopy. Langmuir, 1998, 14, 565-568.	3.5	30
36	Monolayers of Bolaform Amphiphiles: Influence of Alkyl Chain Length and Counterions. Langmuir, 1994, 10, 4174-4184.	3.5	29

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37	Transfection activity of layer-by-layer plasmid DNA/poly(ethylenimine) films deposited on PLGA microparticles. International Journal of Pharmaceutics, 2009, 365, 44-52.	5.2	29
38	DNA Release Dynamics from Bioreducible Poly(amido amine) Polyplexes. Journal of Physical Chemistry B, 2009, 113, 13735-13741.	2.6	29
39	Direct Force Measurement of Comb Silicone Surfactants in Alcoholic Media by Atomic Force Microscopy. Journal of Colloid and Interface Science, 2001, 242, 337-345.	9.4	28
40	Layer-by-Layer Films with Bioreducible and Nonbioreducible Polycations for Sequential DNA Release. Biomacromolecules, 2014, 15, 3965-3975.	5.4	28
41	Therapeutic enhancement of radiation and immunomodulation by gold nanoparticles in triple negative breast cancer. Cancer Biology and Therapy, 2021, 22, 124-135.	3.4	28
42	DNA Release Dynamics from Bioreducible Layer-by-Layer Films. Langmuir, 2010, 26, 8597-8605.	3.5	27
43	Rectification in Nanoscale Devices Based on an Asymmetric Fiveâ€Coordinate Iron(III) Phenolate Complex. Angewandte Chemie - International Edition, 2013, 52, 13346-13350.	13.8	27
44	Stepwise adsorption of a long trichlorosilane and a short aminosilane. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2000, 162, 203-213.	4.7	26
45	Nanoscale Aggregate Structures of Trisiloxane Surfactants at the Solidâ^'Liquid Interface. Langmuir, 2004, 20, 2695-2700.	3.5	25
46	Immobilization and Molecular Interactions between Bacteriophage and Lipopolysaccharide Bilayers. Langmuir, 2010, 26, 12095-12103.	3.5	25
47	Cyclodextrin-erythromycin complexes as a drug delivery device for orthopedic application. International Journal of Nanomedicine, 2011, 6, 3173.	6.7	24
48	pH-Controlled association of PEG-containing terpolymers of N-isopropylacrylamide and 1-vinylimidazole. Polymer, 2005, 46, 7945-7952.	3.8	23
49	3D organization and function of the cell: Golgi budding and vesicle biogenesis to docking at the porosome complex. Histochemistry and Cell Biology, 2012, 137, 703-718.	1.7	23
50	Surface forces measurements on a cationic polymer in the presence of an anionic ???. Colloids and Surfaces, 1991, 61, 167-174.	0.9	22
51	The Mechanisms of Rectification in Au|Molecule|Au Devices Based on Langmuirâ€"Blodgett Monolayers of Iron(III) and Copper(II) Surfactants. Angewandte Chemie - International Edition, 2014, 53, 14462-14467.	13.8	22
52	The secretion and biological function of tumor suppressor maspin as an exosome cargo protein. Oncotarget, 2017, 8, 8043-8056.	1.8	22
53	Nanoscale Visualization of Crystal Habit Modification by Atomic Force Microscopy. Chemistry of Materials, 1997, 9, 773-783.	6.7	21
54	Deposition and Aggregation of Aspirin Molecules on a Phospholipid Bilayer Pattern. Langmuir, 2005, 21, 578-585.	3.5	21

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55	Dendrimer-enabled transformation of Chlamydia trachomatis. Microbial Pathogenesis, 2013, 65, 29-35.	2.9	19
56	Liquid-Metal-Assisted Deposition and Patterning of Molybdenum Dioxide at Low Temperature. ACS Applied Materials & Interfaces, 2021, 13, 53181-53193.	8.0	19
57	Proteome of the porosome complex in human airway epithelia: Interaction with the cystic fibrosis transmembrane conductance regulator (CFTR). Journal of Proteomics, 2014, 96, 82-91.	2.4	18
58	Measurement of gold nanofilm dose enhancement using unlaminated radiochromic film. Medical Physics, 2015, 42, 5937-5944.	3.0	18
59	AFM study of templated growth of cadmium sulfide nanoparticles using pure and mixed arachidate films. Thin Solid Films, 2000, 358, 62-72.	1.8	17
60	Examining the inflammatory response to nanopatterned polydimethylsiloxane using organotypic brain slice methods. Journal of Neuroscience Methods, 2013, 217, 17-25.	2.5	17
61	Aquaporin-assisted and ER-mediated mitochondrial fission: A hypothesis. Micron, 2013, 47, 50-58.	2.2	17
62	Influence of Nanoscale Surface Roughness on Colloidal Force Measurements. Langmuir, 2015, 31, 10341-10350.	3.5	17
63	Layer-by-layer DNA films incorporating highly transfecting bioreducible poly(amido amine) and polyethylenimine for sequential gene delivery. International Journal of Nanomedicine, 2018, Volume 13, 4943-4960.	6.7	16
64	Direct Force Measurement of Silicone- and Hydrocarbon-Based ABA Triblock Surfactants in Alcoholic Media by Atomic Force Microscopy. Journal of Colloid and Interface Science, 2002, 256, 331-340.	9.4	15
65	Particleâ€'Rod Hybrids:â€‰ Growth of Arachidic Acid Molecular Rods from Capped Cadmium Selenide Nanoparticles. Journal of the American Chemical Society, 2004, 126, 16290-16291.	13.7	15
66	Transporter Protein-Coupled DPCPX Nanoconjugates Induce Diaphragmatic Recovery after SCI by Blocking Adenosine A1 Receptors. Journal of Neuroscience, 2016, 36, 3441-3452.	3.6	15
67	Nano-delivery of RAD6/Translesion Synthesis Inhibitor SMI#9 for Triple-negative Breast Cancer Therapy. Molecular Cancer Therapeutics, 2018, 17, 2586-2597.	4.1	14
68	Self-assembled molecular patterns of fatty acid on graphite in the presence of metal ions. Soft Matter, 2006, 2, 686-692.	2.7	13
69	Electrocrystallization of Tetrathiafulvalene Charge-Transfer Salt Nanorods on Gold Nanoparticle Seeds. Journal of Physical Chemistry C, 2014, 118, 18771-18782.	3.1	11
70	Nanoconjugate-bound adenosine A 1 receptor antagonist enhances recovery of breathing following acute cervical spinal cord injury. Experimental Neurology, 2017, 292, 56-62.	4.1	11
71	Nanoparticles Change the Ordering Pattern of n-Carboxylic Acids into Nanorods on HOPG. ACS Nano, 2010, 4, 6687-6696.	14.6	10
72	A Supra-monolayer Nanopattern for Organic Nanoparticle Array Deposition. ACS Applied Materials & Interfaces, 2013, 5, 2699-2707.	8.0	10

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73	Reviewâ€”Micro/Nanoelectrodes and Their Use in Electrocrystallization: Historical Perspective and Current Trends. Journal of the Electrochemical Society, 2022, 169, 022505.	2.9	10
74	Surface-Directed Adsorption in the Epitaxy Growth of Streptocyanine Dye Crystals. Journal of Physical Chemistry B, 1999, 103, 11161-11168.	2.6	9
75	Application of virtual laboratories and molecular simulations in teaching nanoengineering to undergraduate students. Computer Applications in Engineering Education, 2018, 26, 1527-1538.	3.4	8
76	From ribbons to nanodot arrays: nanopattern design through reductive annealing. Chemical Communications, 2006, , 1121.	4.1	7
77	Cellular Uptake and Radio-sensitization Effect of Small Gold Nanoparticles in MCF-7 Breast Cancer Cells. Journal of Nanomedicine & Nanotechnology, 2018, 09, .	1.1	7
78	Oneâ€Step Synthesis of Chargeâ€Transfer Salt Nanosensors on Microelectrode Patterns. Advanced Materials Technologies, 2020, 5, 2000554.	5.8	7
79	Incorporation of Phospholipids Enhances Cellular Uptake and Retention of Surfactant-Polymer Nanoparticles. Journal of Biomedical Nanotechnology, 2007, 3, 291-296.	1.1	6
80	Surface Morphological Evolution of Ultrathin P4VP Films and Generation of Ordered Patterns on Graphite. Macromolecular Rapid Communications, 2007, 28, 1619-1623.	3.9	6
81	Lysophosphatidylcholine inhibits membraneâ€associated SNARE complex disassembly. Journal of Cellular and Molecular Medicine, 2012, 16, 1701-1708.	3.6	6
82	Electrodeposition of partially oxidized tetracyanoplatinate nanowires on seeds and patterns for gas sensing. Materials Research Letters, 2017, 5, 569-576.	8.7	6
83	Observation of current rectification by the new bimetallic iron(<scp>iii</scp>) hydrophobe [FeIII2(L^{N4O6})] on Au∣LB-molecule∣Au devices. Dalton Transactions, 2018, 47, 14352-14361.	3.3	6
84	Polystyrene nanorod formation in C 12 E 5 hemimicelle thin film templates. Colloid and Polymer Science, 2005, 284, 340-345.	2.1	5
85	A Mass Transfer-Based Method for Controlled Electrosynthesis and Organization of Tetrathiafulvalene Bromide Micro/Nanowires. Journal of the Electrochemical Society, 2019, 166, H63-H69.	2.9	5
86	RAD6B Loss Disrupts Expression of Melanoma Phenotype in Part by Inhibiting WNT/Î²-Catenin Signaling. American Journal of Pathology, 2021, 191, 368-384.	3.8	5
87	Sustained A1 Adenosine Receptor Antagonist Drug Release from Nanoparticles Functionalized by a Neural Tracing Protein. ACS Chemical Neuroscience, 2021, 12, 4438-4448.	3.5	5
88	Formation of Carboxylic Acid Nanorods on Oleylamide-Capped Au Nanoparticles. Journal of Physical Chemistry C, 2012, 116, 5492-5498.	3.1	4
89	Human Platelet Vesicles Exhibit Distinct Size and Proteome. Journal of Proteome Research, 2017, 16, 2333-2338.	3.7	4
90	Sleep disordered breathing induced by cervical spinal cord injury and effect of adenosine A1 receptors modulation in rats. Journal of Applied Physiology, 2019, 127, 1668-1676.	2.5	4

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91	Statistical study of two-dimensional colloidal crystals based on microscopic images and optical diffraction. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2000, 174, 113-119.	4.7	3
92	Temperature-Reversible Ultrathin Films of N-Isopropylacrylamide Terpolymer Adsorbed at the Solidâ^'Liquid Interface. Langmuir, 2007, 23, 12159-12166.	3.5	3
93	Secretion induces cell pH dynamics impacting assembly-disassembly of the fusion protein complex: A combined fluorescence and atomic force microscopy study. Seminars in Cell and Developmental Biology, 2018, 73, 57-63.	5.0	3
94	Diaphragmatic recovery in rats with cervical spinal cord injury induced by a theophylline nanoconjugate: Challenges for clinical use. Journal of Spinal Cord Medicine, 2019, 42, 725-734.	1.4	3
95	Nanoparticles as Seeds for Organic Crystallization. ACS Symposium Series, 2008, , 358-368.	0.5	2
96	Self-assembled nanostructures for antireflection optical coatings. , 2005, , .		1
97	ENATBIO: a National Conference on Emerging Nanoscience in Technology and Biomedicine. Nanomedicine: Nanotechnology, Biology, and Medicine, 2008, 4, 267-272.	3.3	1
98	Nanospiral Formation by Droplet Drying: One Molecule at a Time. Nanoscale Research Letters, 2011, 6, 49.	5.7	1
99	In Situ AFM Analysis Investigating Disassembly of DNA Nanoparticles and Nano-Films. , 2013, 948, 183-193.		1
100	Layer-By-Layer Film Engineering for Sequential Gene Delivery. Methods in Molecular Biology, 2019, 1943, 161-176.	0.9	1
101	Phospholipid Nanoparticles: Process Optimization Using Factorial Design and Atomic Force Microscopy. Journal of Biomedical Nanotechnology, 2007, 3, 394-400.	1.1	1
102	Efficacy and toxicity of the DPCPX nanoconjugate drug study for the treatment of spinal cord injury in rats. Journal of Applied Physiology, 2022, 133, 262-272.	2.5	1
103	Engineering photonic nanostructure profiles using nanosphere lithography and reactive-ion etching. , 2006, , .		0
104	Resolving the Thickness and Micromechanical Properties of Lipid Bilayers and Vesicles Using AFM. , 0, , 181-200.		0
105	Thermal Characterization of the Interaction of Silanes with a Dihydroxy Vulcanized Fluoroelastomer. Rubber Chemistry and Technology, 2006, 79, 765-782.	1.2	0
106	Nanostructure fabrication using nanosphere lithography for photonics devices. , 2006, , .		0
107	In Situ AFM Analysis Investigating Disassembly of DNA Nanoparticles and Nanofilms. Methods in Molecular Biology, 2019, 1943, 199-209.	0.9	0
108	Radiation and Gold Nanoparticle Increase the Expression of Immunogenic Cell Death Markers in MDA MB 231 Breast Cancer Model. International Journal of Radiation Oncology Biology Physics, 2020, 108, E26-E27.	0.8	0