

Guangzhao Mao

List of Publications by Year in descending order

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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	Review of Micro/Nanoelectrodes and Their Use in Electrocrystallization: Historical Perspective and Current Trends. <i>Journal of the Electrochemical Society</i> , 2022, 169, 022505.	2.9	10
2	Gold nanostructures: synthesis, properties, and neurological applications. <i>Chemical Society Reviews</i> , 2022, 51, 2601-2680.	38.1	43
3	Efficacy and toxicity of the DPCPX nanoconjugate drug study for the treatment of spinal cord injury in rats. <i>Journal of Applied Physiology</i> , 2022, 133, 262-272.	2.5	1
4	RAD6B Loss Disrupts Expression of Melanoma Phenotype in Part by Inhibiting WNT/ β 2-Catenin Signaling. <i>American Journal of Pathology</i> , 2021, 191, 368-384.	3.8	5
5	Therapeutic enhancement of radiation and immunomodulation by gold nanoparticles in triple negative breast cancer. <i>Cancer Biology and Therapy</i> , 2021, 22, 124-135.	3.4	28
6	Atomically dispersed Pb ionic sites in PbCdSe quantum dot gels enhance room-temperature NO ₂ sensing. <i>Nature Communications</i> , 2021, 12, 4895.	12.8	40
7	Sustained A1 Adenosine Receptor Antagonist Drug Release from Nanoparticles Functionalized by a Neural Tracing Protein. <i>ACS Chemical Neuroscience</i> , 2021, 12, 4438-4448.	3.5	5
8	Liquid-Metal-Assisted Deposition and Patterning of Molybdenum Dioxide at Low Temperature. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 53181-53193.	8.0	19
9	One-Step Synthesis of Charge-Transfer Salt Nanosensors on Microelectrode Patterns. <i>Advanced Materials Technologies</i> , 2020, 5, 2000554.	5.8	7
10	Radiation and Gold Nanoparticle Increase the Expression of Immunogenic Cell Death Markers in MDA MB 231 Breast Cancer Model. <i>International Journal of Radiation Oncology Biology Physics</i> , 2020, 108, E26-E27.	0.8	0
11	Sleep disordered breathing induced by cervical spinal cord injury and effect of adenosine A1 receptors modulation in rats. <i>Journal of Applied Physiology</i> , 2019, 127, 1668-1676.	2.5	4
12	A Mass Transfer-Based Method for Controlled Electrosynthesis and Organization of Tetrathiafulvalene Bromide Micro/Nanowires. <i>Journal of the Electrochemical Society</i> , 2019, 166, H63-H69.	2.9	5
13	Diaphragmatic recovery in rats with cervical spinal cord injury induced by a theophylline nanoconjugate: Challenges for clinical use. <i>Journal of Spinal Cord Medicine</i> , 2019, 42, 725-734.	1.4	3
14	Layer-By-Layer Film Engineering for Sequential Gene Delivery. <i>Methods in Molecular Biology</i> , 2019, 1943, 161-176.	0.9	1
15	In Situ AFM Analysis Investigating Disassembly of DNA Nanoparticles and Nanofilms. <i>Methods in Molecular Biology</i> , 2019, 1943, 199-209.	0.9	0
16	Induction of necrotic cell death and activation of STING in the tumor microenvironment via cationic silica nanoparticles leading to enhanced antitumor immunity. <i>Nanoscale</i> , 2018, 10, 9311-9319.	5.6	77
17	Secretion induces cell pH dynamics impacting assembly-disassembly of the fusion protein complex: A combined fluorescence and atomic force microscopy study. <i>Seminars in Cell and Developmental Biology</i> , 2018, 73, 57-63.	5.0	3
18	Nano-delivery of RAD6/Translesion Synthesis Inhibitor SMI#9 for Triple-negative Breast Cancer Therapy. <i>Molecular Cancer Therapeutics</i> , 2018, 17, 2586-2597.	4.1	14

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19	Cellular Uptake and Radio-sensitization Effect of Small Gold Nanoparticles in MCF-7 Breast Cancer Cells. <i>Journal of Nanomedicine & Nanotechnology</i> , 2018, 09, .	1.1	7
20	Observation of current rectification by the new bimetallic iron($\text{Fe}_{112}(\text{L})\text{N}_4\text{O}_6$) hydrophobe [Fe ₁₁₂ (L ^{>} N ₄ O ₆ ^{<})] on Au LB-molecule Au devices. <i>Dalton Transactions</i> , 2018, 47, 14352-14361.	3.3	6
21	Layer-by-layer DNA films incorporating highly transfecting bioreducible poly(amido amine) and polyethylenimine for sequential gene delivery. <i>International Journal of Nanomedicine</i> , 2018, Volume 13, 4943-4960.	6.7	16
22	Application of virtual laboratories and molecular simulations in teaching nanoengineering to undergraduate students. <i>Computer Applications in Engineering Education</i> , 2018, 26, 1527-1538.	3.4	8
23	Nanoconjugate-bound adenosine A ₁ receptor antagonist enhances recovery of breathing following acute cervical spinal cord injury. <i>Experimental Neurology</i> , 2017, 292, 56-62.	4.1	11
24	Human Platelet Vesicles Exhibit Distinct Size and Proteome. <i>Journal of Proteome Research</i> , 2017, 16, 2333-2338.	3.7	4
25	Electrodeposition of partially oxidized tetracyanoplatinate nanowires on seeds and patterns for gas sensing. <i>Materials Research Letters</i> , 2017, 5, 569-576.	8.7	6
26	The secretion and biological function of tumor suppressor maspin as an exosome cargo protein. <i>Oncotarget</i> , 2017, 8, 8043-8056.	1.8	22
27	Size-Dependent Toxicity of Gold Nanoparticles on Human Embryonic Stem Cells and Their Neural Derivatives. <i>Small</i> , 2016, 12, 631-646.	10.0	127
28	Transporter protein and drug-conjugated gold nanoparticles capable of bypassing the blood-brain barrier. <i>Scientific Reports</i> , 2016, 6, 25794.	3.3	54
29	Transporter Protein-Coupled DPCPX Nanoconjugates Induce Diaphragmatic Recovery after SCI by Blocking Adenosine A ₁ Receptors. <i>Journal of Neuroscience</i> , 2016, 36, 3441-3452.	3.6	15
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. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2016, 12, 745-757.	3.3	37
31	Hyaluronic acid-conjugated polyamidoamine dendrimers for targeted delivery of 3,4-difluorobenzylidene curcumin to CD44 overexpressing pancreatic cancer cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 136, 413-423.	5.0	170
32	Measurement of gold nanofilm dose enhancement using unlaminated radiochromic film. <i>Medical Physics</i> , 2015, 42, 5937-5944.	3.0	18
33	Influence of Nanoscale Surface Roughness on Colloidal Force Measurements. <i>Langmuir</i> , 2015, 31, 10341-10350.	3.5	17
34	The Mechanisms of Rectification in Au Molecule Au Devices Based on Langmuir-Blodgett Monolayers of Iron(III) and Copper(II) Surfactants. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 14462-14467.	13.8	22
35	Proteome of the porosome complex in human airway epithelia: Interaction with the cystic fibrosis transmembrane conductance regulator (CFTR). <i>Journal of Proteomics</i> , 2014, 96, 82-91.	2.4	18
36	Layer-by-Layer Films with Bioreducible and Nonbioreducible Polycations for Sequential DNA Release. <i>Biomacromolecules</i> , 2014, 15, 3965-3975.	5.4	28

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37	Electrocrystallization of Tetrathiafulvalene Charge-Transfer Salt Nanorods on Gold Nanoparticle Seeds. <i>Journal of Physical Chemistry C</i> , 2014, 118, 18771-18782.	3.1	11
38	Dendrimer-enabled DNA delivery and transformation of <i>Chlamydia pneumoniae</i> . <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2013, 9, 996-1008.	3.3	51
39	Dendrimer-enabled transformation of <i>Chlamydia trachomatis</i> . <i>Microbial Pathogenesis</i> , 2013, 65, 29-35.	2.9	19
40	Rectification in Nanoscale Devices Based on an Asymmetric Five-coordinate Iron(III) Phenolate Complex. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 13346-13350.	13.8	27
41	Examining the inflammatory response to nanopatterned polydimethylsiloxane using organotypic brain slice methods. <i>Journal of Neuroscience Methods</i> , 2013, 217, 17-25.	2.5	17
42	A Supra-monolayer Nanopattern for Organic Nanoparticle Array Deposition. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 2699-2707.	8.0	10
43	In Situ AFM Analysis Investigating Disassembly of DNA Nanoparticles and Nano-Films. , 2013, 948, 183-193.		1
44	Aquaporin-assisted and ER-mediated mitochondrial fission: A hypothesis. <i>Micron</i> , 2013, 47, 50-58.	2.2	17
45	Formation of Carboxylic Acid Nanorods on Oleylamide-Capped Au Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2012, 116, 5492-5498.	3.1	4
46	Surface Functionalization of Mesoporous Silica Nanoparticles Controls Loading and Release Behavior of Mitoxantrone. <i>Pharmaceutical Research</i> , 2012, 29, 2407-2418.	3.5	77
47	Lysophosphatidylcholine inhibits membrane-associated SNARE complex disassembly. <i>Journal of Cellular and Molecular Medicine</i> , 2012, 16, 1701-1708.	3.6	6
48	Electrospun polyvinyl alcohol-collagen-hydroxyapatite nanofibers: a biomimetic extracellular matrix for osteoblastic cells. <i>Nanotechnology</i> , 2012, 23, 115101.	2.6	74
49	3D organization and function of the cell: Golgi budding and vesicle biogenesis to docking at the porosome complex. <i>Histochemistry and Cell Biology</i> , 2012, 137, 703-718.	1.7	23
50	Nanospiral Formation by Droplet Drying: One Molecule at a Time. <i>Nanoscale Research Letters</i> , 2011, 6, 49.	5.7	1
51	Influence of Nano-Carrier Architecture on <i>in Vitro</i> siRNA Delivery Performance and <i>in Vivo</i> Biodistribution: Polyplexes vs Micelleplexes. <i>ACS Nano</i> , 2011, 5, 3493-3505.	14.6	109
52	Cyclodextrin-erythromycin complexes as a drug delivery device for orthopedic application. <i>International Journal of Nanomedicine</i> , 2011, 6, 3173.	6.7	24
53	Multifunctional Dendrimer-templated Antibody Presentation on Biosensor Surfaces for Improved Biomarker Detection. <i>Advanced Functional Materials</i> , 2010, 20, 409-421.	14.9	58
54	Immobilization and Molecular Interactions between Bacteriophage and Lipopolysaccharide Bilayers. <i>Langmuir</i> , 2010, 26, 12095-12103.	3.5	25

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55	DNA Release Dynamics from Bioreducible Layer-by-Layer Films. <i>Langmuir</i> , 2010, 26, 8597-8605.	3.5	27
56	Cross-Linked Bioreducible Layer-by-Layer Films for Increased Cell Adhesion and Transgene Expression. <i>Journal of Physical Chemistry B</i> , 2010, 114, 5283-5291.	2.6	39
57	Nanoparticles Change the Ordering Pattern of n-Carboxylic Acids into Nanorods on HOPG. <i>ACS Nano</i> , 2010, 4, 6687-6696.	14.6	10
58	Transfection activity of layer-by-layer plasmid DNA/poly(ethylenimine) films deposited on PLGA microparticles. <i>International Journal of Pharmaceutics</i> , 2009, 365, 44-52.	5.2	29
59	Gene delivery in vitro and in vivo from bioreducible multilayered polyelectrolyte films of plasmid DNA. <i>Biomaterials</i> , 2009, 30, 939-950.	11.4	111
60	DNA Release Dynamics from Bioreducible Poly(amido amine) Polyplexes. <i>Journal of Physical Chemistry B</i> , 2009, 113, 13735-13741.	2.6	29
61	Nanoparticle-mediated combination chemotherapy and photodynamic therapy overcomes tumor drug resistance in vitro. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2009, 71, 214-222.	4.3	118
62	ENATBIO: a National Conference on Emerging Nanoscience in Technology and Biomedicine. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2008, 4, 267-272.	3.3	1
63	Recognition of <i>Salmonella typhimurium</i> by immobilized phage P22 monolayers. <i>Surface Science</i> , 2008, 602, 1392-1400.	1.9	78
64	DNA Release Dynamics from Reducible Polyplexes by Atomic Force Microscopy. <i>Langmuir</i> , 2008, 24, 12474-12482.	3.5	33
65	Nanoparticles as Seeds for Organic Crystallization. <i>ACS Symposium Series</i> , 2008, , 358-368.	0.5	2
66	Surfactant-Polymer Nanoparticles Enhance the Effectiveness of Anticancer Photodynamic Therapy. <i>Molecular Pharmaceutics</i> , 2008, 5, 795-807.	4.6	96
67	Incorporation of Phospholipids Enhances Cellular Uptake and Retention of Surfactant-Polymer Nanoparticles. <i>Journal of Biomedical Nanotechnology</i> , 2007, 3, 291-296.	1.1	6
68	Temperature-Reversible Ultrathin Films of N-Isopropylacrylamide Terpolymer Adsorbed at the Solid-Liquid Interface. <i>Langmuir</i> , 2007, 23, 12159-12166.	3.5	3
69	Dually Responsive Multiblock Copolymers via Reversible Addition-Fragmentation Chain Transfer Polymerization: Synthesis of Temperature- and Redox-Responsive Copolymers of Poly(N-isopropylacrylamide) and Poly(2-(dimethylamino)ethyl methacrylate). <i>Macromolecules</i> , 2007, 40, 8617-8624.	4.8	108
70	Surface Morphological Evolution of Ultrathin P4VP Films and Generation of Ordered Patterns on Graphite. <i>Macromolecular Rapid Communications</i> , 2007, 28, 1619-1623.	3.9	6
71	Polymer-surfactant nanoparticles for sustained release of water-soluble drugs. <i>Journal of Pharmaceutical Sciences</i> , 2007, 96, 3379-3389.	3.3	91
72	Disassembly of layer-by-layer films of plasmid DNA and reducible TAT polypeptide. <i>Biomaterials</i> , 2007, 28, 117-124.	11.4	84

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73	Phospholipid Nanoparticles: Process Optimization Using Factorial Design and Atomic Force Microscopy. <i>Journal of Biomedical Nanotechnology</i> , 2007, 3, 394-400.	1.1	1
74	From ribbons to nanodot arrays: nanopattern design through reductive annealing. <i>Chemical Communications</i> , 2006, , 1121.	4.1	7
75	Self-assembled molecular patterns of fatty acid on graphite in the presence of metal ions. <i>Soft Matter</i> , 2006, 2, 686-692.	2.7	13
76	Engineering photonic nanostructure profiles using nanosphere lithography and reactive-ion etching. , 2006, , .		0
77	Self-assembly of octadecyltrichlorosilane monolayers on silicon-based substrates by chemical vapor deposition. <i>Thin Solid Films</i> , 2006, 515, 2116-2122.	1.8	83
78	Thermal Characterization of the Interaction of Silanes with a Dihydroxy Vulcanized Fluoroelastomer. <i>Rubber Chemistry and Technology</i> , 2006, 79, 765-782.	1.2	0
79	Nanostructure fabrication using nanosphere lithography for photonics devices. , 2006, , .		0
80	Self-assembled nanostructures for antireflection optical coatings. , 2005, , .		1
81	Effect of chain lengths of PEOâ€“PPOâ€“PEO on small unilamellar liposome morphology and stability: an AFM investigation. <i>Journal of Colloid and Interface Science</i> , 2005, 285, 360-372.	9.4	70
82	pH-Controlled association of PEG-containing terpolymers of N-isopropylacrylamide and 1-vinylimidazole. <i>Polymer</i> , 2005, 46, 7945-7952.	3.8	23
83	Influence of TAT-peptide polymerization on properties and transfection activity of TAT/DNA polyplexes. <i>Journal of Controlled Release</i> , 2005, 102, 293-306.	9.9	99
84	Polystyrene nanorod formation in C 12 E 5 hemimicelle thin film templates. <i>Colloid and Polymer Science</i> , 2005, 284, 340-345.	2.1	5
85	Deposition and Aggregation of Aspirin Molecules on a Phospholipid Bilayer Pattern. <i>Langmuir</i> , 2005, 21, 578-585.	3.5	21
86	Controlled Permeability in Polyelectrolyte Films via Solvent Treatment. <i>Chemistry of Materials</i> , 2005, 17, 4992-4999.	6.7	32
87	Colloidal subwavelength nanostructures for antireflection optical coatings. <i>Optics Letters</i> , 2005, 30, 1885.	3.3	76
88	Mechanical properties and stability measurement of cholesterol-containing liposome on mica by atomic force microscopy. <i>Journal of Colloid and Interface Science</i> , 2004, 278, 53-62.	9.4	207
89	Probing small unilamellar EggPC vesicles on mica surface by atomic force microscopy. <i>Colloids and Surfaces B: Biointerfaces</i> , 2004, 34, 41-51.	5.0	117
90	Nanoscale Aggregate Structures of Trisiloxane Surfactants at the Solidâ”Liquid Interface. <i>Langmuir</i> , 2004, 20, 2695-2700.	3.5	25

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91	Fibronectin Adsorption onto Polyelectrolyte Multilayer Films. <i>Langmuir</i> , 2004, 20, 3362-3370.	3.5	75
92	Synthesis of Copper Sulfide Nanorod Arrays on Molecular Templates. <i>Nano Letters</i> , 2004, 4, 249-252.	9.1	127
93	Particle-Rod Hybrids: Growth of Arachidic Acid Molecular Rods from Capped Cadmium Selenide Nanoparticles. <i>Journal of the American Chemical Society</i> , 2004, 126, 16290-16291.	13.7	15
94	Direct Force Measurement of Silicone- and Hydrocarbon-Based ABA Triblock Surfactants in Alcoholic Media by Atomic Force Microscopy. <i>Journal of Colloid and Interface Science</i> , 2002, 256, 331-340.	9.4	15
95	Direct Force Measurement of Comb Silicone Surfactants in Alcoholic Media by Atomic Force Microscopy. <i>Journal of Colloid and Interface Science</i> , 2001, 242, 337-345.	9.4	28
96	AFM study of templated growth of cadmium sulfide nanoparticles using pure and mixed arachidate films. <i>Thin Solid Films</i> , 2000, 358, 62-72.	1.8	17
97	Statistical study of two-dimensional colloidal crystals based on microscopic images and optical diffraction. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2000, 174, 113-119.	4.7	3
98	Stepwise adsorption of a long trichlorosilane and a short aminosilane. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2000, 162, 203-213.	4.7	26
99	Direct Study of C12E5 Aggregation on Mica by Atomic Force Microscopy Imaging and Force Measurements. <i>Langmuir</i> , 2000, 16, 6641-6647.	3.5	36
100	Asymmetrical Molecular Aggregation in Spherulitic Dye Films. <i>Journal of the American Chemical Society</i> , 1999, 121, 3475-3485.	13.7	32
101	Surface-Directed Adsorption in the Epitaxy Growth of Streptocyanine Dye Crystals. <i>Journal of Physical Chemistry B</i> , 1999, 103, 11161-11168.	2.6	9
102	Surface Morphological Study of J-Aggregate Thin Films by Atomic Force Microscopy. <i>Langmuir</i> , 1998, 14, 565-568.	3.5	30
103	Nanoscale Visualization of Crystal Habit Modification by Atomic Force Microscopy. <i>Chemistry of Materials</i> , 1997, 9, 773-783.	6.7	21
104	Interactions, Structure, and Stability of Photoreactive Bolaform Amphiphile Multilayers. <i>Langmuir</i> , 1995, 11, 942-952.	3.5	67
105	Monolayers of Bolaform Amphiphiles: Influence of Alkyl Chain Length and Counterions. <i>Langmuir</i> , 1994, 10, 4174-4184.	3.5	29
106	Self-assembly of photopolymerizable bolaform amphiphile mono- and multilayers. <i>Langmuir</i> , 1993, 9, 3461-3470.	3.5	89
107	Surface forces measurements on a cationic polymer in the presence of an anionic ????. <i>Colloids and Surfaces</i> , 1991, 61, 167-174.	0.9	22
108	Resolving the Thickness and Micromechanical Properties of Lipid Bilayers and Vesicles Using AFM. , 0, , 181-200.		0