

Chuanbin Mao

List of Publications by Year in descending order

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272
papers

17,348
citations

12330

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all docs

295
docs citations

295
times ranked

19974
citing authors

#	ARTICLE	IF	CITATIONS
1	Ordering of Quantum Dots Using Genetically Engineered Viruses. <i>Science</i> , 2002, 296, 892-895.	12.6	975
2	Virus-Based Toolkit for the Directed Synthesis of Magnetic and Semiconducting Nanowires. <i>Science</i> , 2004, 303, 213-217.	12.6	946
3	Immunolabeling and NIR-Excited Fluorescent Imaging of HeLa Cells by Using NaYF ₄ :Yb,Er Upconversion Nanoparticles. <i>ACS Nano</i> , 2009, 3, 1580-1586.	14.6	533
4	Viral assembly of oriented quantum dot nanowires. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 6946-6951.	7.1	468
5	Nanomaterials as photothermal therapeutic agents. <i>Progress in Materials Science</i> , 2019, 99, 1-26.	32.8	442
6	Upconversion nanoparticles: synthesis, surface modification and biological applications. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2011, 7, 710-729.	3.3	438
7	Bacterial Biosynthesis of Cadmium Sulfide Nanocrystals. <i>Chemistry and Biology</i> , 2004, 11, 1553-1559.	6.0	415
8	Multi-functional bismuth-doped bioglasses: combining bioactivity and photothermal response for bone tumor treatment and tissue repair. <i>Light: Science and Applications</i> , 2018, 7, 1.	16.6	301
9	Virus-Based Chemical and Biological Sensing. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 6790-6810.	13.8	243
10	Immunoassay of Goat Antihuman Immunoglobulin G Antibody Based on Luminescence Resonance Energy Transfer between Near-Infrared Responsive NaYF ₄ :Yb,Er Upconversion Fluorescent Nanoparticles and Gold Nanoparticles. <i>Analytical Chemistry</i> , 2009, 81, 8783-8789.	6.5	227
11	Electroactive polymers for tissue regeneration: Developments and perspectives. <i>Progress in Polymer Science</i> , 2018, 81, 144-162.	24.7	225
12	Concentration Ranges of Antibacterial Cations for Showing the Highest Antibacterial Efficacy but the Least Cytotoxicity against Mammalian Cells: Implications for a New Antibacterial Mechanism. <i>Chemical Research in Toxicology</i> , 2015, 28, 1815-1822.	3.3	217
13	Biological Routes to Metal Alloy Ferromagnetic Nanostructures. <i>Nano Letters</i> , 2004, 4, 1127-1132.	9.1	212
14	Phage Nanofibers Induce Vascularized Osteogenesis in 3D Printed Bone Scaffolds. <i>Advanced Materials</i> , 2014, 26, 4961-4966.	21.0	204
15	Assessment of the Phytotoxicity of Metal Oxide Nanoparticles on Two Crop Plants, Maize (<i>Zea mays</i> L.) and Rice (<i>Oryza sativa</i> L.). <i>International Journal of Environmental Research and Public Health</i> , 2015, 12, 15100-15109.	2.6	186
16	NIR-Responsive Silica-Coated NaYbF ₄ :Er/Tm/Ho Upconversion Fluorescent Nanoparticles with Tunable Emission Colors and Their Applications in Immunolabeling and Fluorescent Imaging of Cancer Cells. <i>Journal of Physical Chemistry C</i> , 2009, 113, 19021-19027.	3.1	176
17	Synthesis and organization of nanoscale II-VI semiconductor materials using evolved peptide specificity and viral capsid assembly. <i>Journal of Materials Chemistry</i> , 2003, 13, 2414-2421.	6.7	174
18	Rare Earth Fluorescent Nanomaterials for Enhanced Development of Latent Fingerprints. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 28110-28115.	8.0	173

#	ARTICLE	IF	CITATIONS
19	Fluorescent Nanomaterials for the Development of Latent Fingerprints in Forensic Sciences. <i>Advanced Functional Materials</i> , 2017, 27, 1606243.	14.9	169
20	<i>In Vitro</i> and <i>In Vivo</i> Mechanism of Bone Tumor Inhibition by Selenium-Doped Bone Mineral Nanoparticles. <i>ACS Nano</i> , 2016, 10, 9927-9937.	14.6	164
21	Preparation and Characterization of Fe ₃ O ₄ /CdTe Magnetic/Fluorescent Nanocomposites and Their Applications in Immuno-Labeling and Fluorescent Imaging of Cancer Cells. <i>Langmuir</i> , 2010, 26, 1278-1284.	3.5	161
22	Multifunctional nanocomposites of superparamagnetic (Fe ₃ O ₄) and NIR-responsive rare earth-doped up-conversion fluorescent (NaYF ₄ :Yb,Er) nanoparticles and their applications in biolabeling and fluorescent imaging of cancer cells. <i>Nanoscale</i> , 2010, 2, 1141.	5.6	157
23	A Rapidly Self-Healing Host-Guest Supramolecular Hydrogel with High Mechanical Strength and Excellent Biocompatibility. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 9008-9012.	13.8	149
24	On the issue of transparency and reproducibility in nanomedicine. <i>Nature Nanotechnology</i> , 2019, 14, 629-635.	31.5	149
25	3D-printable self-healing and mechanically reinforced hydrogels with host-guest non-covalent interactions integrated into covalently linked networks. <i>Materials Horizons</i> , 2019, 6, 733-742.	12.2	148
26	Oil Phase Evaporation-Induced Self-Assembly of Hydrophobic Nanoparticles into Spherical Clusters with Controlled Surface Chemistry in an Oil-in-Water Dispersion and Comparison of Behaviors of Individual and Clustered Iron Oxide Nanoparticles. <i>Journal of the American Chemical Society</i> , 2010, 132, 17724-17732.	13.7	146
27	Importance of dual delivery systems for bone tissue engineering. <i>Journal of Controlled Release</i> , 2016, 225, 152-169.	9.9	146
28	Human Mesenchymal Stem Cell Derived Exosomes Enhance Cell-Free Bone Regeneration by Altering Their miRNAs Profiles. <i>Advanced Science</i> , 2020, 7, 2001334.	11.2	144
29	Multifunctional Copper-Containing Carboxymethyl Chitosan/Alginate Scaffolds for Eradicating Clinical Bacterial Infection and Promoting Bone Formation. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 127-138.	8.0	142
30	Toward a Molecular Understanding of the Antibacterial Mechanism of Copper-Bearing Titanium Alloys against <i>Staphylococcus aureus</i> . <i>Advanced Healthcare Materials</i> , 2016, 5, 557-566.	7.6	140
31	Silk as a potential candidate for bone tissue engineering. <i>Journal of Controlled Release</i> , 2015, 215, 112-128.	9.9	135
32	Enhancement of Photodynamic Cancer Therapy by Physical and Chemical Factors. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 14066-14080.	13.8	133
33	Nanoparticle-Plant Interactions: Two-Way Traffic. <i>Small</i> , 2019, 15, e1901794.	10.0	132
34	Phage-Enabled Nanomedicine: From Probes to Therapeutics in Precision Medicine. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 1964-1992.	13.8	131
35	An injectable collagen-genipin-carbon dot hydrogel combined with photodynamic therapy to enhance chondrogenesis. <i>Biomaterials</i> , 2019, 218, 119190.	11.4	131
36	Synthesis of NIR-Responsive NaYF ₄ :Yb,Er Upconversion Fluorescent Nanoparticles Using an Optimized Solvothermal Method and Their Applications in Enhanced Development of Latent Fingerprints on Various Smooth Substrates. <i>Langmuir</i> , 2015, 31, 7084-7090.	3.5	130

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37	NIR-induced highly sensitive detection of latent fingerprints by NaYF ₄ :Yb,Er upconversion nanoparticles in a dry powder state. <i>Nano Research</i> , 2015, 8, 1800-1810.	10.4	130
38	Actively Targeted Deep Tissue Imaging and Photothermal-Chemo Therapy of Breast Cancer by Antibody-Functionalized Drug-Loaded X-Ray-Responsive Bismuth Sulfide@Mesoporous Silica Core-Shell Nanoparticles. <i>Advanced Functional Materials</i> , 2018, 28, 1704623.	14.9	120
39	Controllable synthesis of NaYF ₄ :Yb,Er upconversion nanophosphors and their application to in vivo imaging of <i>Caenorhabditis elegans</i> . <i>Journal of Materials Chemistry</i> , 2011, 21, 2632.	6.7	115
40	Bio-imaging, detection and analysis by using nanostructures as SERS substrates. <i>Journal of Materials Chemistry</i> , 2011, 21, 5190.	6.7	114
41	Bioinspired design of AgNPs embedded silk sericin-based sponges for efficiently combating bacteria and promoting wound healing. <i>Materials and Design</i> , 2019, 180, 107940.	7.0	112
42	Peptide SMIM30 promotes HCC development by inducing SRC/YES1 membrane anchoring and MAPK pathway activation. <i>Journal of Hepatology</i> , 2020, 73, 1155-1169.	3.7	111
43	Novel Microwave-Assisted Solvothermal Synthesis of NaYF ₄ :Yb,Er Upconversion Nanoparticles and Their Application in Cancer Cell Imaging. <i>Langmuir</i> , 2011, 27, 14632-14637.	3.5	107
44	Controlled growth and differentiation of MSCs on grooved films assembled from monodisperse biological nanofibers with genetically tunable surface chemistries. <i>Biomaterials</i> , 2011, 32, 4744-4752.	11.4	103
45	Biosynthesis and characterization of CdS quantum dots in genetically engineered <i>Escherichia coli</i> . <i>Journal of Biotechnology</i> , 2011, 153, 125-132.	3.8	97
46	Stem Cells Loaded with Nanoparticles as a Drug Carrier for In Vivo Breast Cancer Therapy. <i>Advanced Materials</i> , 2014, 26, 4627-4631.	21.0	94
47	Nanoparticle-Assisted Targeted Delivery of Eye-Specific Genes to Eyes Significantly Improves the Vision of Blind Mice In Vivo. <i>Nano Letters</i> , 2014, 14, 5257-5263.	9.1	93
48	Portable amperometric immunosensor for histamine detection using Prussian blue-chitosan-gold nanoparticle nanocomposite films. <i>Biosensors and Bioelectronics</i> , 2017, 98, 305-309.	10.1	92
49	Cartilage-targeting and dual MMP-13/pH responsive theranostic nanoprobe for osteoarthritis imaging and precision therapy. <i>Biomaterials</i> , 2019, 225, 119520.	11.4	92
50	Biomimetic Nucleation of Hydroxyapatite Crystals Mediated by <i>Antheraea pernyi</i> Silk Sericin Promotes Osteogenic Differentiation of Human Bone Marrow Derived Mesenchymal Stem Cells. <i>Biomacromolecules</i> , 2014, 15, 1185-1193.	5.4	91
51	Polydopamine-Coated <i>Antheraea pernyi</i> (A. <i>pernyi</i>) Silk Fibroin Films Promote Cell Adhesion and Wound Healing in Skin Tissue Repair. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 34736-34743.	8.0	87
52	Bacteriophage Bionanowire as a Carrier for Both Cancer-Targeting Peptides and Photosensitizers and its use in Selective Cancer Cell Killing by Photodynamic Therapy. <i>Small</i> , 2013, 9, 215-221.	10.0	84
53	Phage as a Genetically Modifiable Supramacromolecule in Chemistry, Materials and Medicine. <i>Accounts of Chemical Research</i> , 2016, 49, 1111-1120.	15.6	83
54	Phage-mediated counting by the naked eye of miRNA molecules at attomolar concentrations in a Petri dish. <i>Nature Materials</i> , 2015, 14, 1058-1064.	27.5	81

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55	Integrating 3D Printing and Biomimetic Mineralization for Personalized Enhanced Osteogenesis, Angiogenesis, and Osteointegration. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 42146-42154.	8.0	81
56	Biomimetic Branched Hollow Fibers Templated by Self-Assembled Fibrous Polyvinylpyrrolidone Structures in Aqueous Solution. <i>ACS Nano</i> , 2010, 4, 1573-1579.	14.6	80
57	Bacteriophage Bundles with Prealigned Ca ²⁺ Initiate the Oriented Nucleation and Growth of Hydroxylapatite. <i>Chemistry of Materials</i> , 2010, 22, 3630-3636.	6.7	80
58	Virus activated artificial ECM induces the osteoblastic differentiation of mesenchymal stem cells without osteogenic supplements. <i>Scientific Reports</i> , 2013, 3, 1242.	3.3	80
59	Untangling the Effects of Peptide Sequences and Nanotopographies in a Biomimetic Niche for Directed Differentiation of iPSCs by Assemblies of Genetically Engineered Viral Nanofibers. <i>Nano Letters</i> , 2014, 14, 6850-6856.	9.1	78
60	Ultrasensitive Rapid Detection of Human Serum Antibody Biomarkers by Biomarker-Capturing Viral Nanofibers. <i>ACS Nano</i> , 2015, 9, 4475-4483.	14.6	77
61	Protein-Induced Gold Nanoparticle Assembly for Improving the Photothermal Effect in Cancer Therapy. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 11136-11143.	8.0	77
62	Nanofibrous Bioinorganic Hybrid Structures Formed Through Self-Assembly and Oriented Mineralization of Genetically Engineered Phage Nanofibers. <i>Small</i> , 2010, 6, 2230-2235.	10.0	76
63	Green Gas-Mediated Cross-Linking Generates Biomolecular Hydrogels with Enhanced Strength and Excellent Hemostasis for Wound Healing. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 13622-13633.	8.0	76
64	3D-Plotted Beta-Tri-calcium Phosphate Scaffolds with Smaller Pore Sizes Improve In Vivo Bone Regeneration and Biomechanical Properties in a Critical-Sized Calvarial Defect Rat Model. <i>Advanced Healthcare Materials</i> , 2018, 7, e1800441.	7.6	74
65	CircMALAT1 Functions as Both an mRNA Translation Brake and a microRNA Sponge to Promote Self-Renewal of Hepatocellular Cancer Stem Cells. <i>Advanced Science</i> , 2020, 7, 1900949.	11.2	74
66	Virus-Mimetic Cytoplasm-Cleavable Magnetic/Silica Nanoclusters for Enhanced Gene Delivery to Mesenchymal Stem Cells. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 11278-11281.	13.8	73
67	Directing the fate of human and mouse mesenchymal stem cells by hydroxyl-methyl mixed self-assembled monolayers with varying wettability. <i>Journal of Materials Chemistry B</i> , 2014, 2, 4794.	5.8	73
68	3D-printed guiding templates for improved osteosarcoma resection. <i>Scientific Reports</i> , 2016, 6, 23335.	3.3	73
69	Synergetic Targeted Delivery of Sleeping Beauty Transposon System to Mesenchymal Stem Cells Using LPD Nanoparticles Modified with a Phage-Displayed Targeting Peptide. <i>Advanced Functional Materials</i> , 2013, 23, 1172-1181.	14.9	72
70	Addition of Zn to the ternary Mg-Ca-Sr alloys significantly improves their antibacterial properties. <i>Journal of Materials Chemistry B</i> , 2015, 3, 6676-6689.	5.8	72
71	Mechanically cartilage-mimicking poly(PCL-PTHF urethane)/collagen nanofibers induce chondrogenesis by blocking NF- κ B signaling pathway. <i>Biomaterials</i> , 2018, 178, 281-292.	11.4	72
72	CaZnOS:Nd ³⁺ Emits Tissue-Penetrating near-Infrared Light upon Force Loading. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 14509-14516.	8.0	71

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73	Self-Assembly of Drug-Loaded Liposomes on Genetically Engineered Target-Recognizing M13 Phage: A Novel Nanocarrier for Targeted Drug Delivery. <i>Small</i> , 2009, 5, 1963-1969.	10.0	70
74	Nanocomposite Films Assembled from Genetically Engineered Filamentous Viruses and Gold Nanoparticles: Nanoarchitecture and Humidity-Tunable Surface Plasmon Resonance Spectra. <i>Advanced Materials</i> , 2009, 21, 1001-1005.	21.0	69
75	Synthesis of NaYF ₄ :Yb/Er/Gd up-conversion luminescent nanoparticles and luminescence resonance energy transfer-based protein detection. <i>Analytical Biochemistry</i> , 2012, 421, 673-679.	2.4	68
76	Phage-based vaccines. <i>Advanced Drug Delivery Reviews</i> , 2019, 145, 40-56.	13.7	68
77	On-demand storage and release of antimicrobial peptides using Pandora's box-like nanotubes gated with a bacterial infection-responsive polymer. <i>Theranostics</i> , 2020, 10, 109-122.	10.0	68
78	Bone-Inspired Spatially Specific Piezoelectricity Induces Bone Regeneration. <i>Theranostics</i> , 2017, 7, 3387-3397.	10.0	67
79	Biomimetic cartilage-lubricating polymers regenerate cartilage in rats with early osteoarthritis. <i>Nature Biomedical Engineering</i> , 2021, 5, 1189-1201.	22.5	67
80	Metallic Nanoclusters for Cancer Imaging and Therapy. <i>Current Medicinal Chemistry</i> , 2018, 25, 1379-1396.	2.4	66
81	Oriented Nucleation of Hydroxylapatite Crystals on Spider Dragline Silks. <i>Langmuir</i> , 2007, 23, 10701-10705.	3.5	64
82	Untangling the response of bone tumor cells and bone forming cells to matrix stiffness and adhesion ligand density by means of hydrogels. <i>Biomaterials</i> , 2019, 188, 130-143.	11.4	64
83	Self-Assembly and Mineralization of Genetically Modifiable Biological Nanofibers Driven by β -Structure Formation. <i>Biomacromolecules</i> , 2011, 12, 2193-2199.	5.4	62
84	Wet-adhesive, haemostatic and antimicrobial bilayered composite nanosheets for sealing and healing soft-tissue bleeding wounds. <i>Biomaterials</i> , 2020, 252, 120018.	11.4	62
85	Controlling Nanostructures of Mesoporous Silica Fibers by Supramolecular Assembly of Genetically Modifiable Bacteriophages. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 6411-6415.	13.8	61
86	Oriented growth of phosphates on polycrystalline titanium in a process mimicking biomineralization. <i>Journal of Crystal Growth</i> , 1999, 206, 308-321.	1.5	60
87	Surface-Selective Preferential Production of Reactive Oxygen Species on Piezoelectric Ceramics for Bacterial Killing. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 24306-24309.	8.0	60
88	Self-Assembled Peptide Nanofibers Display Natural Antimicrobial Peptides to Selectively Kill Bacteria without Compromising Cytocompatibility. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 28681-28689.	8.0	59
89	Polydopamine modification of silk fibroin membranes significantly promotes their wound healing effect. <i>Biomaterials Science</i> , 2019, 7, 5232-5237.	5.4	59
90	Evolutionary Selection of New Breast Cancer Cell-Targeting Peptides and Phages with the Cell-Targeting Peptides Fully Displayed on the Major Coat and Their Effects on Actin Dynamics during Cell Internalization. <i>Molecular Pharmaceutics</i> , 2010, 7, 1629-1642.	4.6	58

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91	Ca ²⁺ -induced self-assembly of Bombyx mori silk sericin into a nanofibrous network-like protein matrix for directing controlled nucleation of hydroxylapatite nano-needles. Journal of Materials Chemistry B, 2015, 3, 2455-2462.	5.8	58
92	Tuning photothermal properties of gold nanodendrites for in vivo cancer therapy within a wide near infrared range by simply controlling their degree of branching. Biomaterials, 2016, 104, 138-144.	11.4	58
93	Viscosity Gradient as a Novel Mechanism for the Centrifugation-Based Separation of Nanoparticles. Advanced Materials, 2011, 23, 4880-4885.	21.0	55
94	Tuning Molecular Weights of Bombyx mori (B. mori) Silk Sericin to Modify Its Assembly Structures and Materials Formation. ACS Applied Materials & Interfaces, 2014, 6, 13782-13789.	8.0	55
95	Virus-Derived Peptides for Clinical Applications. Chemical Reviews, 2017, 117, 10377-10402.	47.7	55
96	Microgrooved Polymer Substrates Promote Collective Cell Migration To Accelerate Fracture Healing in an in Vitro Model. ACS Applied Materials & Interfaces, 2015, 7, 23336-23345.	8.0	53
97	The effect and fate of water-soluble carbon nanodots in maize (Zea mays L.). Nanotoxicology, 2016, 10, 818-828.	3.0	53
98	3D printed personalized titanium plates improve clinical outcome in microwave ablation of bone tumors around the knee. Scientific Reports, 2017, 7, 7626.	3.3	52
99	Multifunctional Electrospun Nanofibers for Enhancing Localized Cancer Treatment. Small, 2018, 14, e1801183.	10.0	52
100	The functionalization of titanium with EDTA to induce biomimetic mineralization of hydroxyapatite. Journal of Materials Chemistry, 1999, 9, 2573-2582.	6.7	47
101	Surface micro-structuring of silicon by excimer-laser irradiation in reactive atmospheres. Applied Surface Science, 2000, 168, 251-257.	6.1	47
102	Protein-Mediated Nanocrystal Assembly for Flash Memory Fabrication. IEEE Transactions on Electron Devices, 2007, 54, 433-438.	3.0	45
103	A Fibrous Localized Drug Delivery Platform with NIR-Triggered and Optically Monitored Drug Release. Langmuir, 2016, 32, 9083-9090.	3.5	45
104	Molecular recognition-directed site-specific release of stem cell differentiation inducers for enhanced joint repair. Biomaterials, 2020, 232, 119644.	11.4	45
105	Oriented growth of hydroxyapatite on (0001) textured titanium with functionalized self-assembled silane monolayer as template. Journal of Materials Chemistry, 1998, 8, 2795-2801.	6.7	44
106	Oxide formation on biological nanostructures via a structure-directing agent: towards an understanding of precise structural transcription. Chemical Science, 2012, 3, 2639.	7.4	44
107	Osteogenic differentiation of bone marrow mesenchymal stem cells on the collagen/silk fibroin template-induced biomimetic bone substitutes. Journal of Biomedical Materials Research - Part A, 2012, 100A, 2929-2938.	4.0	43
108	Functional reconstruction of injured corpus cavernosa using 3D-printed hydrogel scaffolds seeded with HIF-1 α -expressing stem cells. Nature Communications, 2020, 11, 2687.	12.8	43

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109	Guiding nanomaterials to tumors for breast cancer precision medicine: from tumor-targeting small-molecule discovery to targeted nanodrug delivery. <i>NPG Asia Materials</i> , 2017, 9, e452-e452.	7.9	42
110	Encoding activities of non-coding RNAs. <i>Theranostics</i> , 2018, 8, 2496-2507.	10.0	42
111	Bacteriophage-based biomaterials for tissue regeneration. <i>Advanced Drug Delivery Reviews</i> , 2019, 145, 73-95.	13.7	42
112	Aptamer-modified sensitive nanobiosensors for the specific detection of antibiotics. <i>Journal of Materials Chemistry B</i> , 2020, 8, 8607-8613.	5.8	42
113	Built-in microscale electrostatic fields induced by anataseâ€“rutile-phase transition in selective areas promote osteogenesis. <i>NPG Asia Materials</i> , 2016, 8, e243-e243.	7.9	41
114	Genetically Modifiable Flagella as Templates for Silica Fibers: From Hybrid Nanotubes to 1D Periodic Nanohole Arrays. <i>Advanced Functional Materials</i> , 2008, 18, 4007-4013.	14.9	40
115	Identification of Microtubule-Binding Domains on Microtubule-Associated Proteins by Major Coat Phage Display Technique. <i>Biomacromolecules</i> , 2009, 10, 555-564.	5.4	40
116	Reversibly Controlling Preferential Protein Adsorption on Bone Implants by Using an Applied Weak Potential as a Switch. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 13068-13072.	13.8	40
117	Selectively Suppressing Tumor Angiogenesis for Targeted Breast Cancer Therapy by Genetically Engineered Phage. <i>Advanced Materials</i> , 2020, 32, e2001260.	21.0	40
118	Bionanoparticles in cancer imaging, diagnosis, and treatment. <i>View</i> , 2022, 3, .	5.3	40
119	Microwave-assisted one-pot synthesis of water-soluble rare-earth doped fluoride luminescent nanoparticles with tunable colors. <i>Journal of Alloys and Compounds</i> , 2012, 525, 154-158.	5.5	39
120	Nucleation and Assembly of Silica into Protein-Based Nanocomposites as Effective Anticancer Drug Carriers Using Self-Assembled Silk Protein Nanostructures as Biotemplates. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 22259-22267.	8.0	39
121	Bio-inspired supramolecular self-assembly towards soft nanomaterials. <i>Frontiers of Materials Science</i> , 2011, 5, 247-265.	2.2	38
122	Cell-Specific Promoters Enable Lipid-Based Nanoparticles to Deliver Genes to Specific Cells of the Retina <i>In Vivo</i> . <i>Theranostics</i> , 2016, 6, 1514-1527.	10.0	38
123	Architectonics of Phage-Liposome Nanoweb as Optimized Photosensitizer Vehicles for Photodynamic Cancer Therapy. <i>Molecular Cancer Therapeutics</i> , 2010, 9, 2524-2535.	4.1	37
124	Transmission electron microscopy as a tool to image bioinorganic nanohybrids: The case of phageâ€“gold nanocomposites. <i>Microscopy Research and Technique</i> , 2011, 74, 627-635.	2.2	37
125	Biotemplated Synthesis of Hollow Doubleâ€“Layered Core/Shell Titania/Silica Nanotubes under Ambient Conditions. <i>Small</i> , 2012, 8, 3691-3697.	10.0	37
126	Protein Nanofibril Assemblies Templated by Graphene Oxide Nanosheets Accelerate Early Cell Adhesion and Induce Osteogenic Differentiation of Human Mesenchymal Stem Cells. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 31988-31997.	8.0	37

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127	Chimeric Protein Template-Induced Shape Control of Bone Mineral Nanoparticles and Its Impact on Mesenchymal Stem Cell Fate. <i>Biomacromolecules</i> , 2015, 16, 1987-1996.	5.4	36
128	A Rapidly Self-Healing Host-Guest Supramolecular Hydrogel with High Mechanical Strength and Excellent Biocompatibility. <i>Angewandte Chemie</i> , 2018, 130, 9146-9150.	2.0	36
129	Biom mineralization of Natural Collagenous Nanofibrous Membranes and Their Potential Use in Bone Tissue Engineering. <i>Journal of Biomedical Nanotechnology</i> , 2015, 11, 447-456.	1.1	35
130	Virus-based Photo-Responsive Nanowires Formed By Linking Site-Directed Mutagenesis and Chemical Reaction. <i>Scientific Reports</i> , 2013, 3, 1820.	3.3	34
131	Near-infrared luminescent CaTiO ₃ :Nd ³⁺ nanofibers with tunable and trackable drug release kinetics. <i>Journal of Materials Chemistry B</i> , 2015, 3, 7449-7456.	5.8	34
132	Size-Dependent Mechanism of Intracellular Localization and Cytotoxicity of Mono-Disperse Spherical Mesoporous Nano- and Micron-Bioactive Glass Particles. <i>Journal of Biomedical Nanotechnology</i> , 2016, 12, 863-877.	1.1	34
133	Temperature-Controlled Reversible Exposure and Hiding of Antimicrobial Peptides on an Implant for Killing Bacteria at Room Temperature and Improving Biocompatibility in Vivo. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 35830-35837.	8.0	34
134	Molecular and cellular mechanisms for zoledronic acid-loaded magnesium-strontium alloys to inhibit giant cell tumors of bone. <i>Acta Biomaterialia</i> , 2018, 77, 365-379.	8.3	34
135	HIF-1 α -Mediated Mitophagy Determines ZnO Nanoparticle-Induced Human Osteosarcoma Cell Death both In Vitro and In Vivo. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 48296-48309.	8.0	34
136	Controlled Self-Assembly of Rodlike Bacterial Pili Particles into Ordered Lattices. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 6264-6268.	13.8	33
137	Ice-Templated Protein Nanoridges Induce Bone Tissue Formation. <i>Advanced Functional Materials</i> , 2017, 27, 1703726.	14.9	33
138	Fabrication of Sericin/Agrose Gel Loaded Lysozyme and Its Potential in Wound Dressing Application. <i>Nanomaterials</i> , 2018, 8, 235.	4.1	33
139	Stable biofunctionalization of hydroxyapatite (HA) surfaces by HA-binding/osteogenic modular peptides for inducing osteogenic differentiation of mesenchymal stem cells. <i>Biomaterials Science</i> , 2014, 2, 1779-1786.	5.4	32
140	Relationship between Kellgren-Lawrence score and 3D kinematic gait analysis of patients with medial knee osteoarthritis using a new gait system. <i>Scientific Reports</i> , 2017, 7, 4080.	3.3	32
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