

Chuanbin Mao

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

262
papers

13,024
citations

60
h-index

105
g-index

295
ext. papers

15,151
ext. citations

9.8
avg, IF

6.66
L-index

#	Paper	IF	Citations
262	Ordering of quantum dots using genetically engineered viruses. <i>Science</i> , 2002 , 296, 892-5	33.3	877
261	Virus-based toolkit for the directed synthesis of magnetic and semiconducting nanowires. <i>Science</i> , 2004 , 303, 213-7	33.3	871
260	Immunolabeling and NIR-excited fluorescent imaging of HeLa cells by using NaYF(4):Yb,Er upconversion nanoparticles. <i>ACS Nano</i> , 2009 , 3, 1580-6	16.7	491
259	Viral assembly of oriented quantum dot nanowires. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 6946-51	11.5	415
258	Upconversion nanoparticles: synthesis, surface modification and biological applications. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2011 , 7, 710-29	6	359
257	Bacterial biosynthesis of cadmium sulfide nanocrystals. <i>Chemistry and Biology</i> , 2004 , 11, 1553-9		340
256	Nanomaterials as photothermal therapeutic agents. <i>Progress in Materials Science</i> , 2019 , 99, 1-26	42.2	234
255	Virus-based chemical and biological sensing. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 6790-8104	10.4	217
254	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, 8783-9	7.8	214
253	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	16.7	191
252	Biological Routes to Metal Alloy Ferromagnetic Nanostructures. <i>Nano Letters</i> , 2004 , 4, 1127-1132	11.5	185
251	Phage nanofibers induce vascularized osteogenesis in 3D printed bone scaffolds. <i>Advanced Materials</i> , 2014 , 26, 4961-4966	24	171
250	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	3.8	166
249	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, 1278-84	4	155
248	Synthesis and organization of nanoscale III-V semiconductor materials using evolved peptide specificity and viral capsid assembly. <i>Journal of Materials Chemistry</i> , 2003 , 13, 2414-2421		155
247	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, 1141-8	7.7	144
246	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, 15100-9	4.6	142

245	Rare Earth Fluorescent Nanomaterials for Enhanced Development of Latent Fingerprints. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 28110-5	9.5	137
244	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, 17724-32	16.4	135
243	Electroactive polymers for tissue regeneration: Developments and perspectives. <i>Progress in Polymer Science</i> , 2018 , 81, 144-162	29.6	132
242	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, 1815-22	4	127
241	Importance of dual delivery systems for bone tissue engineering. <i>Journal of Controlled Release</i> , 2016 , 225, 152-69	11.7	113
240	In Vitro and in Vivo Mechanism of Bone Tumor Inhibition by Selenium-Doped Bone Mineral Nanoparticles. <i>ACS Nano</i> , 2016 , 10, 9927-9937	16.7	111
239	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, 7084-90	4	110
238	NIR-induced highly sensitive detection of latent finger-marks by NaYF ₄ :Yb,Er upconversion nanoparticles in a dry powder state. <i>Nano Research</i> , 2015 , 8, 1800-1810	10	105
237	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		104
236	Silk as a potential candidate for bone tissue engineering. <i>Journal of Controlled Release</i> , 2015 , 215, 112-28	1.7	100
235	Bio-imaging, detection and analysis by using nanostructures as SERS substrates. <i>Journal of Materials Chemistry</i> , 2011 , 21, 5190-5202		100
234	Fluorescent Nanomaterials for the Development of Latent Fingerprints in Forensic Sciences. <i>Advanced Functional Materials</i> , 2017 , 27, 1606243	15.6	98
233	Phage-Enabled Nanomedicine: From Probes to Therapeutics in Precision Medicine. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 1964-1992	16.4	98
232	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	16.4	98
231	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	15.6	97
230	Novel microwave-assisted solvothermal synthesis of NaYF ₄ :Yb,Er upconversion nanoparticles and their application in cancer cell imaging. <i>Langmuir</i> , 2011 , 27, 14632-7	4	94
229	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, 557-66	10.1	93
228	On the issue of transparency and reproducibility in nanomedicine. <i>Nature Nanotechnology</i> , 2019 , 14, 629-635	28.7	92

227	Controlled growth and differentiation of MSCs on grooved films assembled from monodisperse biological nanofibers with genetically tunable surface chemistries. <i>Biomaterials</i> , 2011 , 32, 4744-52	15.6	91
226	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	14.4	90
225	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	9.5	88
224	Stem cells loaded with nanoparticles as a drug carrier for in vivo breast cancer therapy. <i>Advanced Materials</i> , 2014 , 26, 4627-31	24	85
223	Biosynthesis and characterization of CdS quantum dots in genetically engineered Escherichia coli. <i>Journal of Biotechnology</i> , 2011 , 153, 125-32	3.7	82
222	Biomimetic nucleation of hydroxyapatite crystals mediated by Antheraea pernyi silk sericin promotes osteogenic differentiation of human bone marrow derived mesenchymal stem cells. <i>Biomacromolecules</i> , 2014 , 15, 1185-93	6.9	76
221	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, 215-21	11	76
220	Enhancement of Photodynamic Cancer Therapy by Physical and Chemical Factors. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 14066-14080	16.4	75
219	Virus activated artificial ECM induces the osteoblastic differentiation of mesenchymal stem cells without osteogenic supplements. <i>Scientific Reports</i> , 2013 , 3, 1242	4.9	74
218	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, 5257-63	11.5	73
217	Bacteriophage Bundles with Pre-Aligned Ca Initiate the Oriented Nucleation and Growth of Hydroxylapatite. <i>Chemistry of Materials</i> , 2010 , 22, 3630-3636	9.6	73
216	Phage as a Genetically Modifiable Supramacromolecule in Chemistry, Materials and Medicine. <i>Accounts of Chemical Research</i> , 2016 , 49, 1111-20	24.3	72
215	Biomimetic branched hollow fibers templated by self-assembled fibrous polyvinylpyrrolidone structures in aqueous solution. <i>ACS Nano</i> , 2010 , 4, 1573-9	16.7	70
214	Ultrasensitive rapid detection of human serum antibody biomarkers by biomarker-capturing viral nanofibers. <i>ACS Nano</i> , 2015 , 9, 4475-4483	16.7	69
213	Phage-mediated counting by the naked eye of miRNA molecules at attomolar concentrations in a Petri dish. <i>Nature Materials</i> , 2015 , 14, 1058-64	27	69
212	Nanofibrous bio-inorganic hybrid structures formed through self-assembly and oriented mineralization of genetically engineered phage nanofibers. <i>Small</i> , 2010 , 6, 2230-5	11	69
211	Portable amperometric immunosensor for histamine detection using Prussian blue-chitosan-gold nanoparticle nanocomposite films. <i>Biosensors and Bioelectronics</i> , 2017 , 98, 305-309	11.8	68
210	An injectable collagen-genipin-carbon dot hydrogel combined with photodynamic therapy to enhance chondrogenesis. <i>Biomaterials</i> , 2019 , 218, 119190	15.6	67

209	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	15.6	66
208	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	11.5	64
207	3D-printed guiding templates for improved osteosarcoma resection. <i>Scientific Reports</i> , 2016 , 6, 23335	4.9	63
206	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, 4794-4807	7.3	63
205	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, 1963-9	11	63
204	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, 673-9	3.1	61
203	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	24	61
202	Oriented nucleation of hydroxylapatite crystals on spider dragline silks. <i>Langmuir</i> , 2007 , 23, 10701-5	4	58
201	Self-assembly and mineralization of genetically modifiable biological nanofibers driven by structure formation. <i>Biomacromolecules</i> , 2011 , 12, 2193-9	6.9	57
200	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	8.1	56
199	Virus-mimetic cytoplasm-cleavable magnetic/silica nanoclusters for enhanced gene delivery to mesenchymal stem cells. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 11278-81	16.4	56
198	Oriented growth of phosphates on polycrystalline titanium in a process mimicking biomineralization. <i>Journal of Crystal Growth</i> , 1999 , 206, 308-321	1.6	56
197	Controlling nanostructures of mesoporous silica fibers by supramolecular assembly of genetically modifiable bacteriophages. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 6411-5	16.4	54
196	Addition of Zn to the ternary Mg-Ca-Sr alloys significantly improves their antibacterial property. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 6676-6689	7.3	53
195	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, 1629-42	5.6	53
194	Ca-induced self-assembly of silk sericin into a nanofibrous network-like protein matrix for directing controlled nucleation of hydroxylapatite nano-needles. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 2455-2462	7.3	49
193	Tuning photothermal properties of gold nanodendrites for in vivo cancer therapy within a wide near infrared range by simply controlling their degree of branching. <i>Biomaterials</i> , 2016 , 104, 138-44	15.6	49
192	Cartilage-targeting and dual MMP-13/pH responsive theranostic nanoprobe for osteoarthritis imaging and precision therapy. <i>Biomaterials</i> , 2019 , 225, 119520	15.6	48

191	Nanoparticle-Plant Interactions: Two-Way Traffic. <i>Small</i> , 2019 , 15, e1901794	11	48
190	Viscosity gradient as a novel mechanism for the centrifugation-based separation of nanoparticles. <i>Advanced Materials</i> , 2011 , 23, 4880-5	24	48
189	CaZnOS:Nd Emits Tissue-Penetrating near-Infrared Light upon Force Loading. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 14509-14516	9.5	45
188	Human Mesenchymal Stem Cell Derived Exosomes Enhance Cell-Free Bone Regeneration by Altering Their miRNAs Profiles. <i>Advanced Science</i> , 2020 , 7, 2001334	13.6	45
187	Bone-Inspired Spatially Specific Piezoelectricity Induces Bone Regeneration. <i>Theranostics</i> , 2017 , 7, 3387-3397	13.2	44
186	Oriented growth of hydroxyapatite on (0001) textured titanium with functionalized self-assembled silane monolayer as template. <i>Journal of Materials Chemistry</i> , 1998 , 8, 2795-2801		44
185	Circ-MALAT1 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	13.6	44
184	Protein-Induced Gold Nanoparticle Assembly for Improving the Photothermal Effect in Cancer Therapy. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 11136-11143	9.5	43
183	3D-Plotted Beta-Tricalcium 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	10.1	43
182	Mechanically cartilage-mimicking poly(PCL-PTHF urethane)/collagen nanofibers induce chondrogenesis by blocking NF-kappa B signaling pathway. <i>Biomaterials</i> , 2018 , 178, 281-292	15.6	43
181	Tuning molecular weights of Bombyx mori (B. mori) silk sericin to modify its assembly structures and materials formation. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 13782-9	9.5	43
180	Oxide Formation on Biological Nanostructures via a Structure-Directing Agent: Towards an Understanding of Precise Structural Transcription. <i>Chemical Science</i> , 2012 , 3, 2639-2645	9.4	43
179	The functionalization of titanium with EDTA to induce biomimetic mineralization of hydroxyapatite. <i>Journal of Materials Chemistry</i> , 1999 , 9, 2573-2582		43
178	Polydopamine-Coated () Silk Fibroin Films Promote Cell Adhesion and Wound Healing in Skin Tissue Repair. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 34736-34743	9.5	42
177	Metallic Nanoclusters for Cancer Imaging and Therapy. <i>Current Medicinal Chemistry</i> , 2018 , 25, 1379-1396	4.3	42
176	Microgrooved Polymer Substrates Promote Collective Cell Migration To Accelerate Fracture Healing in an in Vitro Model. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 23336-45	9.5	40
175	Protein-Mediated Nanocrystal Assembly for Flash Memory Fabrication. <i>IEEE Transactions on Electron Devices</i> , 2007 , 54, 433-438	2.9	39
174	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	12.1	39

173	The effect and fate of water-soluble carbon nanodots in maize (<i>Zea mays</i> L.). <i>Nanotoxicology</i> , 2016 , 10, 818-28	5.3	38
172	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	9.5	38
171	Virus-Derived Peptides for Clinical Applications. <i>Chemical Reviews</i> , 2017 , 117, 10377-10402	68.1	38
170	Osteogenic differentiation of bone marrow mesenchymal stem cells on the collagen/silk fibroin bi-template-induced biomimetic bone substitutes. <i>Journal of Biomedical Materials Research - Part A</i> , 2012 , 100, 2929-38	5.4	38
169	Surface-Selective Preferential Production of Reactive Oxygen Species on Piezoelectric Ceramics for Bacterial Killing. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 24306-9	9.5	38
168	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	9.5	37
167	A Fibrous Localized Drug Delivery Platform with NIR-Triggered and Optically Monitored Drug Release. <i>Langmuir</i> , 2016 , 32, 9083-90	4	37
166	3D printed personalized titanium plates improve clinical outcome in microwave ablation of bone tumors around the knee. <i>Scientific Reports</i> , 2017 , 7, 7626	4.9	37
165	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	15.6	37
164	Surface micro-structuring of silicon by excimer-laser irradiation in reactive atmospheres. <i>Applied Surface Science</i> , 2000 , 168, 251-257	6.7	37
163	Integrating 3D Printing and Biomimetic Mineralization for Personalized Enhanced Osteogenesis, Angiogenesis, and Osteointegration. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 42146-42154	9.5	37
162	Identification of microtubule-binding domains on microtubule-associated proteins by major coat phage display technique. <i>Biomacromolecules</i> , 2009 , 10, 555-64	6.9	36
161	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,	10.3	35
160	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, 13068-72	16.4	35
159	Peptide SMIM30 promotes HCC development by inducing SRC/YES1 membrane anchoring and MAPK pathway activation. <i>Journal of Hepatology</i> , 2020 , 73, 1155-1169	13.4	34
158	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	5.7	34
157	Biotemplated synthesis of hollow double-layered core/shell titania/silica nanotubes under ambient conditions. <i>Small</i> , 2012 , 8, 3691-7	11	34
156	Wet-adhesive, haemostatic and antimicrobial bilayered composite nanosheets for sealing and healing soft-tissue bleeding wounds. <i>Biomaterials</i> , 2020 , 252, 120018	15.6	34

155	Bio-inspired supramolecular self-assembly towards soft nanomaterials. <i>Frontiers of Materials Science</i> , 2011 , 5, 247-265	2.5	33
154	Near-infrared luminescent CaTiO:Nd nanofibers with tunable and trackable drug release kinetics. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 7449-7456	7.3	32
153	Architectonics of phage-liposome nanowebs as optimized photosensitizer vehicles for photodynamic cancer therapy. <i>Molecular Cancer Therapeutics</i> , 2010 , 9, 2524-35	6.1	32
152	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	15.6	32
151	Biomineralization of Natural Collagenous Nanofibrous Membranes and Their Potential Use in Bone Tissue Engineering. <i>Journal of Biomedical Nanotechnology</i> , 2015 , 11, 447-56	4	31
150	Virus-based photo-responsive nanowires formed by linking site-directed mutagenesis and chemical reaction. <i>Scientific Reports</i> , 2013 , 3, 1820	4.9	31
149	Controlled self-assembly of rodlike bacterial pili particles into ordered lattices. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 6264-8	16.4	31
148	Transmission electron microscopy as a tool to image bioinorganic nanohybrids: the case of phage-gold nanocomposites. <i>Microscopy Research and Technique</i> , 2011 , 74, 627-35	2.8	30
147	Phage-based vaccines. <i>Advanced Drug Delivery Reviews</i> , 2019 , 145, 40-56	18.5	30
146	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	6.9	29
145	Controlled alignment of filamentous supramolecular assemblies of biomolecules into centimeter-scale highly ordered patterns by using nature-inspired magnetic guidance. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 11750-4	16.4	29
144	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	7.4	27
143	Delivery of inhibitor of growth 4 (ING4) gene significantly inhibits proliferation and invasion and promotes apoptosis of human osteosarcoma cells. <i>Scientific Reports</i> , 2014 , 4, 7380	4.9	27
142	Encoding activities of non-coding RNAs. <i>Theranostics</i> , 2018 , 8, 2496-2507	12.1	27
141	A Rapidly Self-Healing Host-Guest Supramolecular Hydrogel with High Mechanical Strength and Excellent Biocompatibility. <i>Angewandte Chemie</i> , 2018 , 130, 9146-9150	3.6	27
140	Multifunctional Electrospun Nanofibers for Enhancing Localized Cancer Treatment. <i>Small</i> , 2018 , 14, e1801183	11.83	27
139	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	9.5	26
138	Morphology-controlled synthesis of silica nanotubes through pH- and sequence-responsive morphological change of bacterial flagellar biotemplates. <i>Journal of Materials Chemistry</i> , 2012 , 22, 15702-15709	9.26	26

137	Cell-Specific Promoters Enable Lipid-Based Nanoparticles to Deliver Genes to Specific Cells of the Retina In Vivo. <i>Theranostics</i> , 2016 , 6, 1514-27	12.1	26
136	Built-in microscale electrostatic fields induced by anatase-rutile-phase transition in selective areas promote osteogenesis. <i>NPG Asia Materials</i> , 2016 , 8,	10.3	26
135	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	9.5	25
134	Genetically Engineered Virus Nanofibers as an Efficient Vaccine for Preventing Fungal Infection. <i>Advanced Healthcare Materials</i> , 2016 , 5, 786-94	10.1	24
133	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	10.8	23
132	Chemical functionalization of bone implants with nanoparticle-stabilized chitosan and methotrexate for inhibiting both osteoclastoma formation and bacterial infection. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 5952-5961	7.3	23
131	One-pot synthesis of surface roughness controlled hollow silica spheres with enhanced drug loading and release profile under ambient conditions in aqueous solutions. <i>Journal of Materials Chemistry B</i> , 2013 , 1,	7.3	23
130	Selenite-Releasing Bone Mineral Nanoparticles Retard Bone Tumor Growth and Improve Healthy Tissue Functions In Vivo. <i>Advanced Healthcare Materials</i> , 2015 , 4, 1813-8	10.1	23
129	Self-assembly of drug-loaded liposomes on genetically engineered protein nanotubes: a potential anti-cancer drug delivery vector. <i>Soft Matter</i> , 2009 , 5, 954	3.6	23
128	Molecular recognition-directed site-specific release of stem cell differentiation inducers for enhanced joint repair. <i>Biomaterials</i> , 2020 , 232, 119644	15.6	23
127	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, 863-77	4	23
126	Polydopamine modification of silk fibroin membranes significantly promotes their wound healing effect. <i>Biomaterials Science</i> , 2019 , 7, 5232-5237	7.4	23
125	In situ protein-templated porous protein-hydroxylapatite nanocomposite microspheres for pH-dependent sustained anticancer drug release. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 3945-3954	7.3	22
124	pH-Triggered SrTiO ₃ :Er Nanofibers with Optically Monitored and Controlled Drug Delivery Functionality. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 25514-21	9.5	22
123	Silica-based branched hollow microfibers as a biomimetic extracellular matrix for promoting tumor cell growth in vitro and in vivo. <i>Advanced Materials</i> , 2013 , 25, 2492-6	24	22
122	Ice-Templated Protein Nanoridges Induce Bone Tissue Formation. <i>Advanced Functional Materials</i> , 2017 , 27, 1703726	15.6	21
121	Mesoporous iron oxide nanoparticles prepared by polyacrylic acid etching and their application in gene delivery to mesenchymal stem cells. <i>Microscopy Research and Technique</i> , 2013 , 76, 936-41	2.8	21
120	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	4.9	21

119	Bio-Templated Growth of Bone Minerals from Modified Simulated Body Fluid on Nanofibrous Decellularized Natural Tissues. <i>Journal of Biomedical Nanotechnology</i> , 2016 , 12, 753-61	4	21
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117	Cancer-derived Circulating MicroRNAs Promote Tumor Angiogenesis by Entering Dendritic Cells to Degrade Highly Complementary MicroRNAs. <i>Theranostics</i> , 2017 , 7, 1407-1421	12.1	20
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