

Molly M Stevens

List of Publications by Year in descending order

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Version: 2024-02-01

227
papers

18,955
citations

17776

65
h-index

15698

129
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all docs

233
docs citations

233
times ranked

31415
citing authors

#	ARTICLE	IF	CITATIONS
1	Tunable Microgel-templated Porogel (MTP) Bioink for 3D Bioprinting Applications. <i>Advanced Healthcare Materials</i> , 2022, 11, e2200027.	3.9	19
2	Design and clinical application of injectable hydrogels for musculoskeletal therapy. <i>Bioengineering and Translational Medicine</i> , 2022, 7, .	3.9	29
3	Noble Metal Nanoparticle Biosensors: From Fundamental Studies toward Point-of-Care Diagnostics. <i>Accounts of Chemical Research</i> , 2022, 55, 593-604.	7.6	30
4	Versailles project on advanced materials and standards (VAMAS) interlaboratory study on measuring the number concentration of colloidal gold nanoparticles. <i>Nanoscale</i> , 2022, 14, 4690-4704.	2.8	15
5	Novel endosomolytic compounds enable highly potent delivery of antisense oligonucleotides. <i>Communications Biology</i> , 2022, 5, 185.	2.0	7
6	Presentation of antigen on extracellular vesicles using transmembrane domains from viral glycoproteins for enhanced immunogenicity. <i>Journal of Extracellular Vesicles</i> , 2022, 11, e12199.	5.5	14
7	Coupling Lipid Nanoparticle Structure and Automated Single-Particle Composition Analysis to Design Phospholipase-Responsive Nanocarriers. <i>Advanced Materials</i> , 2022, 34, e2200839.	11.1	10
8	Substrate Stiffness-Driven Membrane Tension Modulates Vesicular Trafficking <i>via</i> Caveolin-1. <i>ACS Nano</i> , 2022, 16, 4322-4337.	7.3	22
9	Peptide-Folding Triggered Phase Separation and Lipid Membrane Destabilization in Cholesterol-Rich Lipid Vesicles. <i>Bioconjugate Chemistry</i> , 2022, 33, 736-746.	1.8	3
10	Sub-picomolar lateral flow antigen detection with two-wavelength imaging of composite nanoparticles. <i>Biosensors and Bioelectronics</i> , 2022, 207, 114133.	5.3	7
11	Potent Virustatic Polymer-Lipid Nanomimics Block Viral Entry and Inhibit Malaria Parasites In Vivo. <i>ACS Central Science</i> , 2022, 8, 1238-1257.	5.3	9
12	Bacterial Toxin-Triggered Release of Antibiotics from Capsosomes Protects a Fly Model from Lethal Methicillin-Resistant <i>Staphylococcus aureus</i> (MRSA) Infection. <i>Advanced Healthcare Materials</i> , 2022, 11, e2200036.	3.9	3
13	In vitro and in vivo investigation of a zonal microstructured scaffold for osteochondral defect repair. <i>Biomaterials</i> , 2022, 286, 121548.	5.7	19
14	Artificial Antigen Presenting Cells for Detection and Desensitization of Autoreactive T cells Associated with Type 1 Diabetes. <i>Nano Letters</i> , 2022, 22, 4376-4382.	4.5	3
15	Block Length-Dependent Protein Fouling on Poly(2-oxazoline)-Based Polymersomes: Influence on Macrophage Association and Circulation Behavior. <i>Small</i> , 2022, 18, .	5.2	10
16	Polysaccharide-Polyplex Nanofilm Coatings Enhance Nanoneedle-Based Gene Delivery and Transfection Efficiency. <i>Small</i> , 2022, 18, .	5.2	6
17	Tissue Engineering Cartilage with Deep Zone Cytoarchitecture by High-Resolution Acoustic Cell Patterning. <i>Advanced Healthcare Materials</i> , 2022, 11, .	3.9	17
18	Biophysical Regulations of Epigenetic State and Notch Signaling in Neural Development Using Microgroove Substrates. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 32773-32787.	4.0	5

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19	Advancing Cell-Instructive Biomaterials Through Increased Understanding of Cell Receptor Spacing and Material Surface Functionalization. <i>Regenerative Engineering and Translational Medicine</i> , 2021, 7, 533-547.	1.6	6
20	Advances in the Fabrication of Biomaterials for Gradient Tissue Engineering. <i>Trends in Biotechnology</i> , 2021, 39, 150-164.	4.9	98
21	Driving Hierarchical Collagen Fiber Formation for Functional Tendon, Ligament, and Meniscus Replacement. <i>Biomaterials</i> , 2021, 269, 120527.	5.7	56
22	Assessing the impact of silicon nanowires on bacterial transformation and viability of <i>Escherichia coli</i> . <i>Journal of Materials Chemistry B</i> , 2021, 9, 4906-4914.	2.9	6
23	Nanoneedle-Based Materials for Intracellular Studies. <i>Advances in Experimental Medicine and Biology</i> , 2021, 1295, 191-219.	0.8	5
24	Tumor-Targeting Cholesterol-Decorated DNA Nanoflowers for Intracellular Ratiometric Aptasensing. <i>Advanced Materials</i> , 2021, 33, e2007738.	11.1	34
25	High-Throughput Peptide Derivatization toward Supramolecular Diversification in Microtiter Plates. <i>ACS Nano</i> , 2021, 15, 4034-4044.	7.3	11
26	IL-1 β mediated nanoscale surface clustering of integrin α 5 β 1 regulates the adhesion of mesenchymal stem cells. <i>Scientific Reports</i> , 2021, 11, 6890.	1.6	2
27	Iodide-Mediated Rapid and Sensitive Surface Etching of Gold Nanostars for Biosensing. <i>Angewandte Chemie</i> , 2021, 133, 9979-9984.	1.6	4
28	Iodide-Mediated Rapid and Sensitive Surface Etching of Gold Nanostars for Biosensing. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 9891-9896.	7.2	55
29	Surfactant Protein B Promotes Cytosolic SiRNA Delivery by Adopting a Virus-like Mechanism of Action. <i>ACS Nano</i> , 2021, 15, 8095-8109.	7.3	24
30	Nanoceria provides antioxidant and osteogenic properties to mesoporous silica nanoparticles for osteoporosis treatment. <i>Acta Biomaterialia</i> , 2021, 122, 365-376.	4.1	49
31	Fiber-Based Electrochemical Biosensors for Monitoring pH and Transient Neurometabolic Lactate. <i>Analytical Chemistry</i> , 2021, 93, 6646-6655.	3.2	38
32	Colistin kills bacteria by targeting lipopolysaccharide in the cytoplasmic membrane. <i>ELife</i> , 2021, 10, .	2.8	177
33	3D printed silica-gelatin hybrid scaffolds of specific channel sizes promote collagen Type II, Sox9 and Aggrecan production from chondrocytes. <i>Materials Science and Engineering C</i> , 2021, 123, 111964.	3.8	22
34	The Fourth Bioelectronic Medicine Summit – Technology Targeting Molecular Mechanisms: current progress, challenges, and charting the future. <i>Bioelectronic Medicine</i> , 2021, 7, 7.	1.0	5
35	Extracellular vesicles for tissue repair and regeneration: Evidence, challenges and opportunities. <i>Advanced Drug Delivery Reviews</i> , 2021, 175, 113775.	6.6	86
36	Design of Lipid-Based Nanocarriers via Cation Modulation of Ethanol-Interdigitated Lipid Membranes. <i>Langmuir</i> , 2021, 37, 11909-11921.	1.6	4

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37	Delivery of Oligonucleotide Therapeutics: Chemical Modifications, Lipid Nanoparticles, and Extracellular Vesicles. <i>ACS Nano</i> , 2021, 15, 13993-14021.	7.3	74
38	Polymeric and lipid nanoparticles for delivery of self-amplifying RNA vaccines. <i>Journal of Controlled Release</i> , 2021, 338, 201-210.	4.8	53
39	A Novel Ventilator Design for COVID-19 and Resource-Limited Settings. <i>Frontiers in Medical Technology</i> , 2021, 3, 707826.	1.3	5
40	Kinetics of RNA and RNA:DNA Hybrid Strand Displacement. <i>ACS Synthetic Biology</i> , 2021, 10, 3066-3073.	1.9	34
41	A dynamic duo. <i>Science</i> , 2021, 374, 825-826.	6.0	4
42	High-Throughput Molecular Imaging via Deep-Learning-Enabled Raman Spectroscopy. <i>Analytical Chemistry</i> , 2021, 93, 15850-15860.	3.2	38
43	Abstract 10747: Genetic Enhancement of Epicardial Paracrine Signalling for Cardiac Regeneration. <i>Circulation</i> , 2021, 144, .	1.6	0
44	Using Remote Fields for Complex Tissue Engineering. <i>Trends in Biotechnology</i> , 2020, 38, 254-263.	4.9	60
45	Advances in high-resolution microscopy for the study of intracellular interactions with biomaterials. <i>Biomaterials</i> , 2020, 226, 119406.	5.7	30
46	Microwave Dielectric Sensing of Free-Flowing, Single, Living Cells in Aqueous Suspension. <i>IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology</i> , 2020, 4, 97-108.	2.3	16
47	Void-Free 3D Bioprinting for In Situ Endothelialization and Microfluidic Perfusion. <i>Advanced Functional Materials</i> , 2020, 30, 1908349.	7.8	96
48	Surface enhanced Raman scattering artificial nose for high dimensionality fingerprinting. <i>Nature Communications</i> , 2020, 11, 207.	5.8	93
49	Ultrasound-Triggered Enzymatic Gelation. <i>Advanced Materials</i> , 2020, 32, e1905914.	11.1	38
50	Remote Magnetic Nanoparticle Manipulation Enables the Dynamic Patterning of Cardiac Tissues. <i>Advanced Materials</i> , 2020, 32, e1904598.	11.1	70
51	Organic Bioelectronics: Using Highly Conjugated Polymers to Interface with Biomolecules, Cells, and Tissues in the Human Body. <i>Advanced Materials Technologies</i> , 2020, 5, 2000384.	3.0	38
52	Micro and nanoscale technologies in oral drug delivery. <i>Advanced Drug Delivery Reviews</i> , 2020, 157, 37-62.	6.6	123
53	Nanoscale Molecular Quantification of Stem Cell-Hydrogel Interactions. <i>ACS Nano</i> , 2020, 14, 17321-17332.	7.3	22
54	In vivo biomolecular imaging of zebrafish embryos using confocal Raman spectroscopy. <i>Nature Communications</i> , 2020, 11, 6172.	5.8	36

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55	Natural Biomaterials for Cardiac Tissue Engineering: A Highly Biocompatible Solution. <i>Frontiers in Cardiovascular Medicine</i> , 2020, 7, 554597.	1.1	74
56	Digital technologies in the public-health response to COVID-19. <i>Nature Medicine</i> , 2020, 26, 1183-1192.	15.2	695
57	Neutrophils Enable Local and Noninvasive Liposome Delivery to Inflamed Skeletal Muscle and Ischemic Heart. <i>Advanced Materials</i> , 2020, 32, e2003598.	11.1	66
58	Harnessing the secreted extracellular matrix to engineer tissues. <i>Nature Biomedical Engineering</i> , 2020, 4, 357-363.	11.6	62
59	Expanding and optimizing 3D bioprinting capabilities using complementary network bioinks. <i>Science Advances</i> , 2020, 6, .	4.7	156
60	An Electroactive Oligo-EDOT Platform for Neural Tissue Engineering. <i>Advanced Functional Materials</i> , 2020, 30, 2003710.	7.8	32
61	Tailoring Gelation Mechanisms for Advanced Hydrogel Applications. <i>Advanced Functional Materials</i> , 2020, 30, 2002759.	7.8	148
62	An improved synthesis of poly(amidoamine)s for complexation with self-amplifying RNA and effective transfection. <i>Polymer Chemistry</i> , 2020, 11, 5861-5869.	1.9	8
63	Controlled Dendrimersome Nanoreactor System for Localized Hypochlorite-Induced Killing of Bacteria. <i>ACS Nano</i> , 2020, 14, 17333-17353.	7.3	29
64	Molecular imaging of extracellular vesicles <i>in vitro</i> via Raman metabolic labelling. <i>Journal of Materials Chemistry B</i> , 2020, 8, 4447-4459.	2.9	18
65	Engineering the drug carrier biointerface to overcome biological barriers to drug delivery. <i>Advanced Drug Delivery Reviews</i> , 2020, 167, 89-108.	6.6	91
66	Dynamic pH responsivity of triazole-based self-immolative linkers. <i>Chemical Science</i> , 2020, 11, 3713-3718.	3.7	18
67	Scaffold channel size influences stem cell differentiation pathway in 3-D printed silica hybrid scaffolds for cartilage regeneration. <i>Biomaterials Science</i> , 2020, 8, 4458-4466.	2.6	37
68	Synthesis of Phospho-Amino Acid Analogues as Tissue Adhesive Cement Additives. <i>ACS Central Science</i> , 2020, 6, 226-231.	5.3	14
69	Modeling the transport of nuclear proteins along single skeletal muscle cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 2978-2986.	3.3	23
70	Assembling Living Building Blocks to Engineer Complex Tissues. <i>Advanced Functional Materials</i> , 2020, 30, 1909009.	7.8	76
71	Gold Nanocluster Extracellular Vesicle Supraparticles: Self-Assembled Nanostructures for Three-Dimensional Uptake Visualization. <i>Langmuir</i> , 2020, 36, 3912-3923.	1.6	11
72	Photoswitchable gRNAs for Spatiotemporally Controlled CRISPR-Cas-Based Genomic Regulation. <i>ACS Central Science</i> , 2020, 6, 695-703.	5.3	69

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73	Big Is Beautiful: Enhanced saRNA Delivery and Immunogenicity by a Higher Molecular Weight, Bioreducible, Cationic Polymer. <i>ACS Nano</i> , 2020, 14, 5711-5727.	7.3	92
74	Cubosomen: die nächste Generation intelligenter Lipid-Nanopartikel?. <i>Angewandte Chemie</i> , 2019, 131, 2984-3006.	1.6	11
75	Glycosaminoglycan-based biomaterials for growth factor and cytokine delivery: Making the right choices. <i>Journal of Controlled Release</i> , 2019, 313, 131-147.	4.8	80
76	Renal clearable catalytic gold nanoclusters for in vivo disease monitoring. <i>Nature Nanotechnology</i> , 2019, 14, 883-890.	15.6	333
77	Detection of microRNA biomarkers via inhibition of DNA-mediated liposome fusion. <i>Nanoscale Advances</i> , 2019, 1, 532-536.	2.2	18
78	Activatable cell-biomaterial interfacing with photo-caged peptides. <i>Chemical Science</i> , 2019, 10, 1158-1167.	3.7	21
79	The Future of Layer-by-Layer Assembly: A Tribute to <i>ACS Nano</i> Associate Editor Helmuth Mhwald. <i>ACS Nano</i> , 2019, 13, 6151-6169.	7.3	211
80	Open vessel free radical photopolymerization of double network gels for biomaterial applications using glucose oxidase. <i>Journal of Materials Chemistry B</i> , 2019, 7, 4030-4039.	2.9	7
81	Rolling Circle Transcription-Amplified Hierarchically Structured Organic-Inorganic Hybrid RNA Flowers for Enzyme Immobilization. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 22932-22940.	4.0	17
82	Immunogold FIB-SEM: Combining Volumetric Ultrastructure Visualization with 3D Biomolecular Analysis to Dissect Cell-Environment Interactions. <i>Advanced Materials</i> , 2019, 31, 1900488.	11.1	16
83	Toward Regeneration of the Heart: Bioengineering Strategies for Immunomodulation. <i>Frontiers in Cardiovascular Medicine</i> , 2019, 6, 26.	1.1	54
84	The design and in vivo testing of a locally stiffness-matched porous scaffold. <i>Applied Materials Today</i> , 2019, 15, 377-388.	2.3	84
85	Biointerfaces: Porous Silicon Nanoneedles Modulate Endocytosis to Deliver Biological Payloads (Adv.) <i>Tj ETQq1 1 0,784314 rgBT /Ove</i>	11.1	9
86	Buoyancy-Driven Gradients for Biomaterial Fabrication and Tissue Engineering. <i>Advanced Materials</i> , 2019, 31, e1900291.	11.1	61
87	Multifunctional hyaluronate nanoparticle hybrid systems for diagnostic, therapeutic and theranostic applications. <i>Journal of Controlled Release</i> , 2019, 303, 55-66.	4.8	24
88	Effect of Formulation Method, Lipid Composition, and PEGylation on Vesicle Lamellarity: A Small-Angle Neutron Scattering Study. <i>Langmuir</i> , 2019, 35, 6064-6074.	1.6	69
89	Rheological Characterization of Biomaterials Directs Additive Manufacturing of Strontium-Substituted Bioactive Glass/Polycaprolactone Microfibers. <i>Macromolecular Rapid Communications</i> , 2019, 40, e1900019.	2.0	38
90	Emerging Technologies for Tissue Engineering: From Gene Editing to Personalized Medicine. <i>Tissue Engineering - Part A</i> , 2019, 25, 688-692.	1.6	26

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91	Bioinspired Fabrication of DNA-Inorganic Hybrid Composites Using Synthetic DNA. ACS Nano, 2019, 13, 2888-2900.	7.3	57
92	A Dual Wavelength Polymerization and Bioconjugation Strategy for High Throughput Synthesis of Multivalent Ligands. Journal of the American Chemical Society, 2019, 141, 19823-19830.	6.6	25
93	<i>In vivo</i> biocompatibility and immunogenicity of metal-phenolic gelation. Chemical Science, 2019, 10, 10179-10194.	3.7	24
94	Individual response variations in scaffold-guided bone regeneration are determined by independent strain- and injury-induced mechanisms. Biomaterials, 2019, 194, 183-194.	5.7	63
95	Physical stimuli-responsive vesicles in drug delivery: Beyond liposomes and polymersomes. Advanced Drug Delivery Reviews, 2019, 138, 259-275.	6.6	146
96	Cubosomes: The Next Generation of Smart Lipid Nanoparticles?. Angewandte Chemie - International Edition, 2019, 58, 2958-2978.	7.2	313
97	Engineering Extracellular Vesicles with the Tools of Enzyme Prodrug Therapy. Advanced Materials, 2018, 30, e1706616.	11.1	77
98	Auxetic Cardiac Patches with Tunable Mechanical and Conductive Properties toward Treating Myocardial Infarction. Advanced Functional Materials, 2018, 28, 1800618.	7.8	167
99	Drug Delivery: Engineering Extracellular Vesicles with the Tools of Enzyme Prodrug Therapy (Adv.) Tj ETQq1 1 0.784314 rgBT /Overloc	11.1	77
100	Fabrication of Hemin-Doped Serum Albumin-Based Fibrous Scaffolds for Neural Tissue Engineering Applications. ACS Applied Materials & Interfaces, 2018, 10, 5305-5317.	4.0	53
101	Scarring vs. functional healing: Matrix-based strategies to regulate tissue repair. Advanced Drug Delivery Reviews, 2018, 129, 407-419.	6.6	80
102	A Serological Point-of-Care Test for the Detection of IgG Antibodies against Ebola Virus in Human Survivors. ACS Nano, 2018, 12, 63-73.	7.3	163
103	Fractal-like hierarchical organization of bone begins at the nanoscale. Science, 2018, 360, .	6.0	390
104	Culturing functional pancreatic islets on α 5-laminins and curative transplantation to diabetic mice. Matrix Biology, 2018, 70, 5-19.	1.5	23
105	Enzyme Prodrug Therapy Achieves Site-Specific, Personalized Physiological Responses to the Locally Produced Nitric Oxide. ACS Applied Materials & Interfaces, 2018, 10, 10741-10751.	4.0	29
106	Bloch surface wave label-free and fluorescence platform for the detection of VEGF biomarker in biological matrices. Sensors and Actuators B: Chemical, 2018, 255, 2143-2150.	4.0	25
107	A low friction, biphasic and boundary lubricating hydrogel for cartilage replacement. Acta Biomaterialia, 2018, 65, 102-111.	4.1	92
108	MicroRNA Detection by DNA-Mediated Liposome Fusion. ChemBioChem, 2018, 19, 434-438.	1.3	35

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109	Platinum Nanocatalyst Amplification: Redefining the Gold Standard for Lateral Flow Immunoassays with Ultrabroad Dynamic Range. <i>ACS Nano</i> , 2018, 12, 279-288.	7.3	284
110	Surface Dynamics and Ligand-Core Interactions of Quantum Sized Photoluminescent Gold Nanoclusters. <i>Journal of the American Chemical Society</i> , 2018, 140, 18217-18226.	6.6	54
111	p24 revisited. <i>Aids</i> , 2018, 32, 2089-2102.	1.0	37
112	Single Particle Automated Raman Trapping Analysis. <i>Nature Communications</i> , 2018, 9, 4256.	5.8	37
113	Engineering Anisotropic Muscle Tissue using Acoustic Cell Patterning. <i>Advanced Materials</i> , 2018, 30, e1802649.	11.1	140
114	Hybrids of Silica/Poly(<i>caprolactone coglycidoxypropyl trimethoxysilane</i>) as Biomaterials. <i>Chemistry of Materials</i> , 2018, 30, 3743-3751.	3.2	21
115	Glycosylated superparamagnetic nanoparticle gradients for osteochondral tissue engineering. <i>Biomaterials</i> , 2018, 176, 24-33.	5.7	92
116	Strategic design of extracellular vesicle drug delivery systems. <i>Advanced Drug Delivery Reviews</i> , 2018, 130, 12-16.	6.6	171
117	Fate of Liposomes in the Presence of Phospholipase C and D: From Atomic to Supramolecular Lipid Arrangement. <i>ACS Central Science</i> , 2018, 4, 1023-1030.	5.3	18
118	Achieving Controlled Biomolecule-Biomaterial Conjugation. <i>Chemical Reviews</i> , 2018, 118, 7702-7743.	23.0	165
119	Elastic serum-albumin based hydrogels: mechanism of formation and application in cardiac tissue engineering. <i>Journal of Materials Chemistry B</i> , 2018, 6, 5604-5612.	2.9	40
120	Duplex-Specific Nuclease-Amplified Detection of MicroRNA Using Compact Quantum Dot-DNA Conjugates. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 28290-28300.	4.0	59
121	Bouncing and 3D printable hybrids with self-healing properties. <i>Materials Horizons</i> , 2018, 5, 849-860.	6.4	44
122	Plasmonic Chirality Imprinting on Nucleobase-Displaying Supramolecular Nanohelices by Metal-Nucleobase Recognition. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 2361-2365.	7.2	32
123	Synthesis of Hetero-bifunctional, End-Capped Oligo-EDOT Derivatives. <i>CheM</i> , 2017, 2, 125-138.	5.8	21
124	Plasmonic Chirality Imprinting on Nucleobase-Displaying Supramolecular Nanohelices by Metal-Nucleobase Recognition. <i>Angewandte Chemie</i> , 2017, 129, 2401-2405.	1.6	10
125	Re-Engineering Extracellular Vesicles as Smart Nanoscale Therapeutics. <i>ACS Nano</i> , 2017, 11, 69-83.	7.3	432
126	Enhanced articular cartilage by human mesenchymal stem cells in enzymatically mediated transiently RGDS-functionalized collagen-mimetic hydrogels. <i>Acta Biomaterialia</i> , 2017, 51, 75-88.	4.1	49

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127	Localized and Controlled Delivery of Nitric Oxide to the Conventional Outflow Pathway via Enzyme Biocatalysis: Toward Therapy for Glaucoma. <i>Advanced Materials</i> , 2017, 29, 1604932.	11.1	85
128	Biodegradable inorganic-organic hybrids of methacrylate star polymers for bone regeneration. <i>Acta Biomaterialia</i> , 2017, 54, 411-418.	4.1	24
129	Facet-Dependent Interactions of Islet Amyloid Polypeptide with Gold Nanoparticles: Implications for Fibril Formation and Peptide-Induced Lipid Membrane Disruption. <i>Chemistry of Materials</i> , 2017, 29, 1550-1560.	3.2	35
130	One-Pot Synthesis of Multiple Protein-Encapsulated DNA Flowers and Their Application in Intracellular Protein Delivery. <i>Advanced Materials</i> , 2017, 29, 1701086.	11.1	105
131	Peptide-Functionalized Fluorescent Particles for In Situ Detection of Nitric Oxide via Peroxynitrite-Mediated Nitration. <i>Advanced Healthcare Materials</i> , 2017, 6, 1700383.	3.9	7
132	Self-Healing, Self-Assembled β -Sheet Peptide-Poly(β -glutamic acid) Hybrid Hydrogels. <i>Journal of the American Chemical Society</i> , 2017, 139, 7250-7255.	6.6	143
133	Functional Adaptation of the Calcaneus in Historical Foot Binding. <i>Journal of Bone and Mineral Research</i> , 2017, 32, 1915-1925.	3.1	15
134	Probing amylin fibrillation at an early stage via a tetracysteine-recognising fluorophore. <i>Talanta</i> , 2017, 173, 44-50.	2.9	12
135	Electron Hopping Across Hemin-Doped Serum Albumin Mats on Centimeter-Length Scales. <i>Advanced Materials</i> , 2017, 29, 1700810.	11.1	26
136	Multimodal Hydrogel-Based Platform To Deliver and Monitor Cardiac Progenitor/Stem Cell Engraftment. <i>ACS Central Science</i> , 2017, 3, 338-348.	5.3	25
137	Diverse Applications of Nanomedicine. <i>ACS Nano</i> , 2017, 11, 2313-2381.	7.3	976
138	Human Induced Pluripotent Stem Cell-Derived Cardiomyocyte Encapsulating Bioactive Hydrogels Improve Rat Heart Function Post Myocardial Infarction. <i>Stem Cell Reports</i> , 2017, 9, 1415-1422.	2.3	103
139	Self-Assembled 2D Free-Standing Janus Nanosheets with Single-Layer Thickness. <i>Journal of the American Chemical Society</i> , 2017, 139, 13592-13595.	6.6	93
140	Highly porous scaffolds of PEDOT:PSS for bone tissue engineering. <i>Acta Biomaterialia</i> , 2017, 62, 91-101.	4.1	198
141	Enzyme Prodrug Therapy Engineered into Electrospun Fibers with Embedded Liposomes for Controlled, Localized Synthesis of Therapeutics. <i>Advanced Healthcare Materials</i> , 2017, 6, 1700385.	3.9	33
142	Sequence-Dependent Self-Assembly and Structural Diversity of Islet Amyloid Polypeptide-Derived β -Sheet Fibrils. <i>ACS Nano</i> , 2017, 11, 8579-8589.	7.3	48
143	Exploring the binding sites and proton diffusion on insulin amyloid fibril surfaces by naphthol-based photoacid fluorescence and molecular simulations. <i>Scientific Reports</i> , 2017, 7, 6245.	1.6	17
144	Distinct Bimodal Roles of Aromatic Molecules in Controlling Gold Nanorod Growth for Biosensing. <i>Advanced Functional Materials</i> , 2017, 27, 1700523.	7.8	13

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145	Online quantitative monitoring of live cell engineered cartilage growth using diffuse fiber-optic Raman spectroscopy. <i>Biomaterials</i> , 2017, 140, 128-137.	5.7	41
146	Multi-Amplified Sensing of MicroRNA by a Small DNA Fragment-Driven Enzymatic Cascade Reaction. <i>ACS Sensors</i> , 2017, 2, 111-118.	4.0	38
147	Combinatorial Low-Volume Synthesis of Well-Defined Polymers by Enzyme Degassing. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 4500-4503.	7.2	117
148	A conducting polymer with enhanced electronic stability applied in cardiac models. <i>Science Advances</i> , 2016, 2, e1601007.	4.7	173
149	Controlled Sub-Nanometer Epitope Spacing in a Three-Dimensional Self-Assembled Peptide Hydrogel. <i>ACS Nano</i> , 2016, 10, 11096-11104.	7.3	36
150	Long-Range Proton Conduction across Free-Standing Serum Albumin Mats. <i>Advanced Materials</i> , 2016, 28, 2692-2698.	11.1	65
151	Phospholipase A2 as a point of care alternative to serum amylase and pancreatic lipase. <i>Nanoscale</i> , 2016, 8, 11834-11839.	2.8	8
152	Temporally degradable collagen-mimetic hydrogels tuned to chondrogenesis of human mesenchymal stem cells. <i>Biomaterials</i> , 2016, 99, 56-71.	5.7	56
153	Angular Approach Scanning Ion Conductance Microscopy. <i>Biophysical Journal</i> , 2016, 110, 2252-2265.	0.2	23
154	Tailoring Mechanical Properties of Sol-Gel Hybrids for Bone Regeneration through Polymer Structure. <i>Chemistry of Materials</i> , 2016, 28, 6127-6135.	3.2	46
155	Harnessing the Versatility of Bacterial Collagen to Improve the Chondrogenic Potential of Porous Collagen Scaffolds. <i>Advanced Healthcare Materials</i> , 2016, 5, 1656-1666.	3.9	21
156	Quantitative multi-image analysis for biomedical Raman spectroscopic imaging. <i>Journal of Biophotonics</i> , 2016, 9, 542-550.	1.1	25
157	Improving the image of nanoparticles. <i>Nature</i> , 2016, 539, 505-506.	13.7	14
158	Selective etching of injection molded zirconia-toughened alumina: Towards osseointegrated and antibacterial ceramic implants. <i>Acta Biomaterialia</i> , 2016, 46, 308-322.	4.1	35
159	Electroconductive Hydrogel Based on Functional Poly(Ethylenedioxy Thiophene). <i>Chemistry of Materials</i> , 2016, 28, 6080-6088.	3.2	96
160	Raman Spectroscopy Reveals New Insights into the Zonal Organization of Native and Tissue-Engineered Articular Cartilage. <i>ACS Central Science</i> , 2016, 2, 885-895.	5.3	103
161	Pericyte Seeded Dual Peptide Scaffold with Improved Endothelialization for Vascular Graft Tissue Engineering. <i>Advanced Healthcare Materials</i> , 2016, 5, 3046-3055.	3.9	33
162	Controlling Shear Stress in 3D Bioprinting is a Key Factor to Balance Printing Resolution and Stem Cell Integrity. <i>Advanced Healthcare Materials</i> , 2016, 5, 326-333.	3.9	571

#	ARTICLE	IF	CITATIONS
163	Combinatorial Low-Volume Synthesis of Well-Defined Polymers by Enzyme Degassing. <i>Angewandte Chemie</i> , 2016, 128, 4576-4579.	1.6	58
164	Assembly of emulsion droplets into fibers by microfluidic wet spinning. <i>Journal of Materials Chemistry A</i> , 2016, 4, 813-818.	5.2	37
165	Point of care testing of phospholipase A2 group IIA for serological diagnosis of rheumatoid arthritis. <i>Nanoscale</i> , 2016, 8, 4482-4485.	2.8	21
166	Material Cues as Potent Regulators of Epigenetics and Stem Cell Function. <i>Cell Stem Cell</i> , 2016, 18, 39-52.	5.2	222
167	In vitro and in vivo bone formation potential of surface calcium phosphate-coated polycaprolactone and polycaprolactone/bioactive glass composite scaffolds. <i>Acta Biomaterialia</i> , 2016, 30, 319-333.	4.1	137
168	Mapping Local Cytosolic Enzymatic Activity in Human Esophageal Mucosa with Porous Silicon Nanoneedles. <i>Advanced Materials</i> , 2015, 27, 5147-5152.	11.1	80
169	Modular and Versatile Spatial Functionalization of Tissue Engineering Scaffolds through Fiber-Initiated Controlled Radical Polymerization. <i>Advanced Functional Materials</i> , 2015, 25, 5748-5757.	7.8	35
170	Controlled Polymerization: Modular and Versatile Spatial Functionalization of Tissue Engineering Scaffolds through Fiber-Initiated Controlled Radical Polymerization (<i>Adv. Funct. Mater.</i> 36/2015). <i>Advanced Functional Materials</i> , 2015, 25, 5718-5718.	7.8	0
171	Circular Dichroism of Amino Acids: Following the Structural Formation of Phenylalanine. <i>ChemPhysChem</i> , 2015, 16, 2768-2774.	1.0	91
172	Fibres and cellular structures preserved in 75-million-year-old dinosaur specimens. <i>Nature Communications</i> , 2015, 6, 7352.	5.8	67
173	A structural and physical study of sol-gel methacrylate-silica hybrids: intermolecular spacing dictates the mechanical properties. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 29124-29133.	1.3	27
174	Gold-silica quantum rattles for multimodal imaging and therapy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 1959-1964.	3.3	107
175	Active loading into extracellular vesicles significantly improves the cellular uptake and photodynamic effect of porphyrins. <i>Journal of Controlled Release</i> , 2015, 205, 35-44.	4.8	511
176	Elucidating the deprotonation of polyaniline films by X-ray photoelectron spectroscopy. <i>Journal of Materials Chemistry C</i> , 2015, 3, 7180-7186.	2.7	95
177	c-Kit+ progenitors generate vascular cells for tissue-engineered grafts through modulation of the Wnt/Klf4 pathway. <i>Biomaterials</i> , 2015, 60, 53-61.	5.7	29
178	Colorimetric Detection of Small Molecules in Complex Matrixes via Target-Mediated Growth of Aptamer-Functionalized Gold Nanoparticles. <i>Analytical Chemistry</i> , 2015, 87, 7644-7652.	3.2	134
179	Accelerating the Translation of Nanomaterials in Biomedicine. <i>ACS Nano</i> , 2015, 9, 6644-6654.	7.3	279
180	Integrative Self-Assembly of Graphene Quantum Dots and Biopolymers into a Versatile Biosensing Toolkit. <i>Advanced Functional Materials</i> , 2015, 25, 3183-3192.	7.8	62

#	ARTICLE	IF	CITATIONS
181	Synthesis and self-assembly of temperature-responsive copolymers based on N-vinylpyrrolidone and triethylene glycol methacrylate. <i>Polymer Chemistry</i> , 2015, 6, 4116-4122.	1.9	17
182	Cell-derived vesicles for drug therapy and diagnostics: Opportunities and challenges. <i>Nano Today</i> , 2015, 10, 397-409.	6.2	124
183	Biosensing platform combining label-free and labelled analysis using Bloch surface waves. , 2015, , .		6
184	Sparse feature selection methods identify unexpected global cellular response to strontium-containing materials. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 4280-4285.	3.3	61
185	Collagen-mimetic peptide-modifiable hydrogels for articular cartilage regeneration. <i>Biomaterials</i> , 2015, 54, 213-225.	5.7	139
186	Multivalent Nanoparticle Networks Enable Point-of-Care Detection of Human Phospholipase-A2 in Serum. <i>ACS Nano</i> , 2015, 9, 2565-2573.	7.3	97
187	Hypoxia-mimicking bioactive glass/collagen glycosaminoglycan composite scaffolds to enhance angiogenesis and bone repair. <i>Biomaterials</i> , 2015, 52, 358-366.	5.7	200
188	Key elements for nourishing the translational research environment. <i>Science Translational Medicine</i> , 2015, 7, 282cm2.	5.8	24
189	Designing dapsone polymer conjugates for controlled drug delivery. <i>Acta Biomaterialia</i> , 2015, 27, 32-41.	4.1	16
190	Tailoring Cellular Uptake of Conjugated Polymer Nanoparticles Using Modular Amphiphilic Peptide Capping Ligands. <i>Chemistry of Materials</i> , 2015, 27, 6879-6889.	3.2	25
191	Enhanced efficiency of genetic programming toward cardiomyocyte creation through topographical cues. <i>Biomaterials</i> , 2015, 70, 94-104.	5.7	81
192	Label-Free Detection of Tumor Angiogenesis Biomarker Angiopoietin 2 Using Bloch Surface Waves on One Dimensional Photonic Crystals. <i>Journal of Lightwave Technology</i> , 2015, 33, 3385-3393.	2.7	26
193	Designing Fluorescent Peptide Sensors with Dual Specificity for the Detection of HIV-1 Protease. <i>Chemistry of Materials</i> , 2015, 27, 7187-7195.	3.2	14
194	Layer-by-Layer Self-Assembly of Polymer Films and Capsules through Coiled-Coil Peptides. <i>Chemistry of Materials</i> , 2015, 27, 5820-5824.	3.2	32
195	A general strategy for the preparation of aligned multiwalled carbon nanotube/inorganic nanocomposites and aligned nanostructures. <i>Materials Research Bulletin</i> , 2015, 61, 453-458.	2.7	6
196	Changing the Mindset in Life Sciences Toward Translation: A Consensus. <i>Science Translational Medicine</i> , 2014, 6, 264cm12.	5.8	42
197	Highly Controlled Open Vessel RAFT Polymerizations by Enzyme Degassing. <i>Macromolecules</i> , 2014, 47, 8541-8547.	2.2	177
198	Biomimetic Materials: Peptide-directed Spatial Organization of Biomolecules in Dynamic Gradient Scaffolds (<i>Adv. Healthcare Mater.</i> 9/2014). <i>Advanced Healthcare Materials</i> , 2014, 3, 1350-1350.	3.9	1

#	ARTICLE	IF	CITATIONS
199	Crystallization: Nanoparticle Growth via Concentration Gradients Generated by Enzyme Nanopatterns (Adv. Funct. Mater. 24/2014). Advanced Functional Materials, 2014, 24, 3654-3654.	7.8	0
200	Tailoring of mechanical properties of derivatized natural polyamino acids through esterification and tensile deformation. RSC Advances, 2014, 4, 2096-2102.	1.7	13
201	Nanoparticle Growth via Concentration Gradients Generated by Enzyme Nanopatterns. Advanced Functional Materials, 2014, 24, 3692-3698.	7.8	8
202	Colloidal nanoparticles as advanced biological sensors. Science, 2014, 346, 1247390.	6.0	842
203	Cardiovascular calcification violet pearl. Lancet, The, 2014, 384, 1294.	6.3	9
204	Amphiphilic amino acids: a key to adsorbing proteins to nanopatterned surfaces?. Chemical Science, 2013, 4, 928-937.	3.7	48
205	Exciting Times for Nano. ACS Nano, 2013, 7, 10437-10439.	7.3	1
206	Stem Cells: Nanoscale Topography and Chemistry Affect Embryonic Stem Cell Self-Renewal and Early Differentiation (Adv. Healthcare Mater. 12/2013). Advanced Healthcare Materials, 2013, 2, 1538-1538.	3.9	0
207	Hybrid gelation processes in enzymatically gelled gelatin: impact on nanostructure, macroscopic properties and cellular response. Soft Matter, 2013, 9, 6986-6999.	1.2	35
208	Melt-electrospun polycaprolactone-strontium substituted bioactive glass scaffolds for bone regeneration. Journal of Biomedical Materials Research - Part A, 2013, 102, n/a-n/a.	2.1	2
209	Latent Transforming Growth Factor-beta1 Functionalised Electrospun Scaffolds Promote Human Cartilage Differentiation: Towards an Engineered Cartilage Construct. Archives of Plastic Surgery, 2013, 40, 676-686.	0.4	13
210	Bio-inspired materials for biosensing and tissue engineering. Polymer International, 2012, 61, 680-685.	1.6	12
211	ACS Nano in 2011 and Looking Forward to 2012. ACS Nano, 2011, 5, 9301-9302.	7.3	0
212	Emerging materials for tissue engineering and regenerative medicine: themed issue for Soft Matter and Journal of Materials Chemistry. Soft Matter, 2010, 6, 4962.	1.2	7
213	Silica-Gelatin Hybrids with Tailorable Degradation and Mechanical Properties for Tissue Regeneration. Advanced Functional Materials, 2010, 20, 3835-3845.	7.8	213
214	Nanomedicine: Engineering Nanocomposite Materials for Cancer Therapy (Small 21/2010). Small, 2010, 6, n/a-n/a.	5.2	0
215	Supramolecular replication of peptide and DNA patterned arrays. Journal of Materials Chemistry, 2010, 20, 68-70.	6.7	3
216	Emerging materials for tissue engineering and regenerative medicine: themed issue for Journal of Materials Chemistry and Soft Matter. Journal of Materials Chemistry, 2010, 20, 8729.	6.7	2

#	ARTICLE	IF	CITATIONS
217	Biomaterial-Related Approaches: Surface Structuring. , 2009, , 469-484.		8
218	Lactide polymerization co-initiated by carbohydrate esters and pyranoses. Journal of Polymer Science Part A, 2008, 46, 4352-4362.	2.5	19
219	Enzyme-Responsive Nanoparticle Systems. Advanced Materials, 2008, 20, 4359-4363.	11.1	169
220	Peptide-based stimuli-responsive biomaterials. Soft Matter, 2006, 2, 822.	1.2	548
221	Biomedical hydrogels. , 2005, , 107-115.		19
222	Exploring and Engineering the Cell Surface Interface. Science, 2005, 310, 1135-1138.	6.0	2,383
223	Degradation Behavior of Novel Poly(α -hydroxy acid)-Derived Polyesters. Materials Research Society Symposia Proceedings, 2004, 823, W11.10.1.	0.1	1
224	On the dynamic behaviour of the forced dissociation of ligand-receptor pairs. Perkin Transactions II RSC, 2000, , 5-8.	1.1	16
225	ECM Interactions with Cells from the Macro- to Nanoscale. , 0, , 223-260.		4
226	Developing Atom Probe Tomography to Characterize Sr-Loaded Bioactive Glass for Bone Scaffolding. Microscopy and Microanalysis, 0, , 1-11.	0.2	2
227	Bioactive, Degradable and Tough Hybrids Through Calcium and Phosphate Incorporation. Frontiers in Materials, 0, 9, .	1.2	7