

# Molly M Stevens

## List of Publications by Year in Descending Order

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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.

209  
papers

12,874  
citations

52  
h-index

109  
g-index

233  
ext. papers

16,017  
ext. citations

13.1  
avg. IF

7.09  
L-index

#	Paper	IF	Citations
209	Tunable Microgel-Templated Porogel (MTP) Bioink for 3D Bioprinting Applications.. <i>Advanced Healthcare Materials</i> , <b>2022</b> , e2200027	10.1	2
208	Novel endosomolytic compounds enable highly potent delivery of antisense oligonucleotides.. <i>Communications Biology</i> , <b>2022</b> , 5, 185	6.7	3
207	Presentation of antigen on extracellular vesicles using transmembrane domains from viral glycoproteins for enhanced immunogenicity.. <i>Journal of Extracellular Vesicles</i> , <b>2022</b> , 11, e12199	16.4	1
206	Coupling Lipid Nanoparticle Structure and Automated Single Particle Composition Analysis to Design Phospholipase Responsive Nanocarriers.. <i>Advanced Materials</i> , <b>2022</b> , e2200839	24	0
205	Sub-picomolar lateral flow antigen detection with two-wavelength imaging of composite nanoparticles.. <i>Biosensors and Bioelectronics</i> , <b>2022</b> , 207, 114133	11.8	0
204	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> , <b>2022</b> , e2200036	10.1	0
203	In vitro and in vivo investigation of a zonal microstructured scaffold for osteochondral defect repair.. <i>Biomaterials</i> , <b>2022</b> , 286, 121548	15.6	4
202	Advancing cell instructive biomaterials through increased understanding of cell receptor spacing and material surface functionalization. <i>Regenerative Engineering and Translational Medicine</i> , <b>2021</b> , 7, 553-547	2.4	4
201	Kinetics of RNA and RNA:DNA Hybrid Strand Displacement. <i>ACS Synthetic Biology</i> , <b>2021</b> , 10, 3066-3073	5.7	5
200	A dynamic duo. <i>Science</i> , <b>2021</b> , 374, 825-826	33.3	2
199	High-Throughput Molecular Imaging via Deep-Learning-Enabled Raman Spectroscopy. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 15850-15860	7.8	4
198	A Novel Ventilator Design for COVID-19 and Resource-Limited Settings.. <i>Frontiers in Medical Technology</i> , <b>2021</b> , 3, 707826	1.9	1
197	IL-1 $\beta$ -mediated nanoscale surface clustering of integrin $\beta$ 1 regulates the adhesion of mesenchymal stem cells. <i>Scientific Reports</i> , <b>2021</b> , 11, 6890	4.9	1
196	Iodide-Mediated Rapid and Sensitive Surface Etching of Gold Nanostars for Biosensing. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 9979-9984	3.6	1
195	Iodide-Mediated Rapid and Sensitive Surface Etching of Gold Nanostars for Biosensing. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 9891-9896	16.4	11
194	Surfactant Protein B Promotes Cytosolic siRNA Delivery by Adopting a Virus-like Mechanism of Action. <i>ACS Nano</i> , <b>2021</b> , 15, 8095-8109	16.7	12
193	Nanoceria provides antioxidant and osteogenic properties to mesoporous silica nanoparticles for osteoporosis treatment. <i>Acta Biomaterialia</i> , <b>2021</b> , 122, 365-376	10.8	17

192	Fiber-Based Electrochemical Biosensors for Monitoring pH and Transient Neurometabolic Lactate. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 6646-6655	7.8	13
191	Colistin kills bacteria by targeting lipopolysaccharide in the cytoplasmic membrane. <i>ELife</i> , <b>2021</b> , 10,	8.9	33
190	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> , <b>2021</b> , 123, 111964	8.3	8
189	The Fourth Bioelectronic Medicine Summit "Technology Targeting Molecular Mechanisms": current progress, challenges, and charting the future. <i>Bioelectronic Medicine</i> , <b>2021</b> , 7, 7	5.4	1
188	Advances in the Fabrication of Biomaterials for Gradient Tissue Engineering. <i>Trends in Biotechnology</i> , <b>2021</b> , 39, 150-164	15.1	37
187	Driving Hierarchical Collagen Fiber Formation for Functional Tendon, Ligament, and Meniscus Replacement. <i>Biomaterials</i> , <b>2021</b> , 269, 120527	15.6	21
186	Assessing the impact of silicon nanowires on bacterial transformation and viability of. <i>Journal of Materials Chemistry B</i> , <b>2021</b> , 9, 4906-4914	7.3	2
185	Nanoneedle-Based Materials for Intracellular Studies. <i>Advances in Experimental Medicine and Biology</i> , <b>2021</b> , 1295, 191-219	3.6	2
184	Tumor-Targeting Cholesterol-Decorated DNA Nanoflowers for Intracellular Ratiometric Aptasensing. <i>Advanced Materials</i> , <b>2021</b> , 33, e2007738	24	10
183	High-Throughput Peptide Derivatization toward Supramolecular Diversification in Microtiter Plates. <i>ACS Nano</i> , <b>2021</b> , 15, 4034-4044	16.7	1
182	Extracellular vesicles for tissue repair and regeneration: Evidence, challenges and opportunities. <i>Advanced Drug Delivery Reviews</i> , <b>2021</b> , 175, 113775	18.5	21
181	Design of Lipid-Based Nanocarriers via Cation Modulation of Ethanol-Interdigitated Lipid Membranes. <i>Langmuir</i> , <b>2021</b> , 37, 11909-11921	4	2
180	Delivery of Oligonucleotide Therapeutics: Chemical Modifications, Lipid Nanoparticles, and Extracellular Vesicles. <i>ACS Nano</i> , <b>2021</b> , 15, 13993-14021	16.7	16
179	Polymeric and lipid nanoparticles for delivery of self-amplifying RNA vaccines. <i>Journal of Controlled Release</i> , <b>2021</b> , 338, 201-210	11.7	11
178	Controlled Dendrimersome Nanoreactor System for Localized Hypochlorite-Induced Killing of Bacteria. <i>ACS Nano</i> , <b>2020</b> ,	16.7	15
177	Molecular imaging of extracellular vesicles in vitro via Raman metabolic labelling. <i>Journal of Materials Chemistry B</i> , <b>2020</b> , 8, 4447-4459	7.3	6
176	Engineering the drug carrier biointerface to overcome biological barriers to drug delivery. <i>Advanced Drug Delivery Reviews</i> , <b>2020</b> , 167, 89-108	18.5	31
175	Dynamic pH responsivity of triazole-based self-immolative linkers. <i>Chemical Science</i> , <b>2020</b> , 11, 3713-3718	9.4	10

174	Scaffold channel size influences stem cell differentiation pathway in 3-D printed silica hybrid scaffolds for cartilage regeneration. <i>Biomaterials Science</i> , <b>2020</b> , 8, 4458-4466	7.4	26
173	Synthesis of Phospho-Amino Acid Analogues as Tissue Adhesive Cement Additives. <i>ACS Central Science</i> , <b>2020</b> , 6, 226-231	16.8	5
172	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> , <b>2020</b> , 117, 2978-2986	11.5	13
171	Assembling Living Building Blocks to Engineer Complex Tissues. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1909009	15.6	31
170	Gold Nanocluster Extracellular Vesicle Supraparticles: Self-Assembled Nanostructures for Three-Dimensional Uptake Visualization. <i>Langmuir</i> , <b>2020</b> , 36, 3912-3923	4	5
169	Photoswitchable gRNAs for Spatiotemporally Controlled CRISPR-Cas-Based Genomic Regulation. <i>ACS Central Science</i> , <b>2020</b> , 6, 695-703	16.8	33
168	Big Is Beautiful: Enhanced saRNA Delivery and Immunogenicity by a Higher Molecular Weight, Bioreducible, Cationic Polymer. <i>ACS Nano</i> , <b>2020</b> , 14, 5711-5727	16.7	47
167	. <i>IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology</i> , <b>2020</b> , 4, 97-108	2.8	6
166	Void-free 3D Bioprinting for In-situ Endothelialization and Microfluidic Perfusion. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1908349	15.6	50
165	Surface enhanced Raman scattering artificial nose for high dimensionality fingerprinting. <i>Nature Communications</i> , <b>2020</b> , 11, 207	17.4	49
164	Ultrasound-Triggered Enzymatic Gelation. <i>Advanced Materials</i> , <b>2020</b> , 32, e1905914	24	18
163	Remote Magnetic Nanoparticle Manipulation Enables the Dynamic Patterning of Cardiac Tissues. <i>Advanced Materials</i> , <b>2020</b> , 32, e1904598	24	40
162	Organic Bioelectronics: Using Highly Conjugated Polymers to Interface with Biomolecules, Cells, and Tissues in the Human Body. <i>Advanced Materials Technologies</i> , <b>2020</b> , 5, 2000384	6.8	19
161	Micro and nanoscale technologies in oral drug delivery. <i>Advanced Drug Delivery Reviews</i> , <b>2020</b> , 157, 37-62	8.5	45
160	Nanoscale Molecular Quantification of Stem Cell-Hydrogel Interactions. <i>ACS Nano</i> , <b>2020</b> ,	16.7	8
159	In vivo biomolecular imaging of zebrafish embryos using confocal Raman spectroscopy. <i>Nature Communications</i> , <b>2020</b> , 11, 6172	17.4	13
158	Natural Biomaterials for Cardiac Tissue Engineering: A Highly Biocompatible Solution. <i>Frontiers in Cardiovascular Medicine</i> , <b>2020</b> , 7, 554597	5.4	31
157	Digital technologies in the public-health response to COVID-19. <i>Nature Medicine</i> , <b>2020</b> , 26, 1183-1192	50.5	303

156	Neutrophils Enable Local and Non-Invasive Liposome Delivery to Inflamed Skeletal Muscle and Ischemic Heart. <i>Advanced Materials</i> , <b>2020</b> , 32, e2003598	24	31
155	Harnessing the secreted extracellular matrix to engineer tissues. <i>Nature Biomedical Engineering</i> , <b>2020</b> , 4, 357-363	19	30
154	Expanding and optimizing 3D bioprinting capabilities using complementary network bioinks. <i>Science Advances</i> , <b>2020</b> , 6,	14.3	56
153	An Electroactive Oligo-EDOT Platform for Neural Tissue Engineering. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2003710	15.6	21
152	Tailoring Gelation Mechanisms for Advanced Hydrogel Applications. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2002759	15.6	60
151	An improved synthesis of poly(amidoamine)s for complexation with self-amplifying RNA and effective transfection. <i>Polymer Chemistry</i> , <b>2020</b> , 11, 5861-5869	4.9	2
150	Using Remote Fields for Complex Tissue Engineering. <i>Trends in Biotechnology</i> , <b>2020</b> , 38, 254-263	15.1	32
149	Advances in high-resolution microscopy for the study of intracellular interactions with biomaterials. <i>Biomaterials</i> , <b>2020</b> , 226, 119406	15.6	15
148	Renal clearable catalytic gold nanoclusters for in vivo disease monitoring. <i>Nature Nanotechnology</i> , <b>2019</b> , 14, 883-890	28.7	178
147	Detection of microRNA biomarkers via inhibition of DNA-mediated liposome fusion. <i>Nanoscale Advances</i> , <b>2019</b> , 1, 532-536	5.1	8
146	Activatable cell-biomaterial interfacing with photo-caged peptides. <i>Chemical Science</i> , <b>2019</b> , 10, 1158-1167	7.4	16
145	The Future of Layer-by-Layer Assembly: A Tribute to ACS Nano Associate Editor Helmuth M $\ddot{u}$ rwald. <i>ACS Nano</i> , <b>2019</b> , 13, 6151-6169	16.7	127
144	Open vessel free radical photopolymerization of double network gels for biomaterial applications using glucose oxidase. <i>Journal of Materials Chemistry B</i> , <b>2019</b> , 7, 4030-4039	7.3	3
143	Rolling Circle Transcription-Amplified Hierarchically Structured Organic-Inorganic Hybrid RNA Flowers for Enzyme Immobilization. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 22932-22940	9.5	12
142	Immunogold FIB-SEM: Combining Volumetric Ultrastructure Visualization with 3D Biomolecular Analysis to Dissect Cell-Environment Interactions. <i>Advanced Materials</i> , <b>2019</b> , 31, e1900488	24	12
141	Toward Regeneration of the Heart: Bioengineering Strategies for Immunomodulation. <i>Frontiers in Cardiovascular Medicine</i> , <b>2019</b> , 6, 26	5.4	29
140	The Design and Testing of a Locally Stiffness-Matched Porous Scaffold. <i>Applied Materials Today</i> , <b>2019</b> , 15, 377-388	6.6	51
139	Biointerfaces: Porous Silicon Nanoneedles Modulate Endocytosis to Deliver Biological Payloads (Adv. Mater. 12/2019). <i>Advanced Materials</i> , <b>2019</b> , 31, 1970086	24	5

138	Buoyancy-Driven Gradients for Biomaterial Fabrication and Tissue Engineering. <i>Advanced Materials</i> , <b>2019</b> , 31, e1900291	24	36
137	Multifunctional hyaluronate - nanoparticle hybrid systems for diagnostic, therapeutic and theranostic applications. <i>Journal of Controlled Release</i> , <b>2019</b> , 303, 55-66	11.7	16
136	Effect of Formulation Method, Lipid Composition, and PEGylation on Vesicle Lamellarity: A Small-Angle Neutron Scattering Study. <i>Langmuir</i> , <b>2019</b> , 35, 6064-6074	4	46
135	Rheological Characterization of Biomaterials Directs Additive Manufacturing of Strontium-Substituted Bioactive Glass/Polycaprolactone Microfibers. <i>Macromolecular Rapid Communications</i> , <b>2019</b> , 40, e1900019	4.8	28
134	Emerging Technologies for Tissue Engineering: From Gene Editing to Personalized Medicine. <i>Tissue Engineering - Part A</i> , <b>2019</b> , 25, 688-692	3.9	18
133	Bioinspired Fabrication of DNA-Inorganic Hybrid Composites Using Synthetic DNA. <i>ACS Nano</i> , <b>2019</b> , 13, 2888-2900	16.7	31
132	Cubosomen: die nahste Generation intelligenter Lipid-Nanopartikel?. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 2984-3006	3.6	6
131	Glycosaminoglycan-based biomaterials for growth factor and cytokine delivery: Making the right choices. <i>Journal of Controlled Release</i> , <b>2019</b> , 313, 131-147	11.7	48
130	A Dual Wavelength Polymerization and Bioconjugation Strategy for High Throughput Synthesis of Multivalent Ligands. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 19823-19830	16.4	10
129	In vivo biocompatibility and immunogenicity of metal-phenolic gelation. <i>Chemical Science</i> , <b>2019</b> , 10, 10179-10194	9.4	14
128	Individual response variations in scaffold-guided bone regeneration are determined by independent strain- and injury-induced mechanisms. <i>Biomaterials</i> , <b>2019</b> , 194, 183-194	15.6	34
127	Physical stimuli-responsive vesicles in drug delivery: Beyond liposomes and polymersomes. <i>Advanced Drug Delivery Reviews</i> , <b>2019</b> , 138, 259-275	18.5	92
126	Cubosomes: The Next Generation of Smart Lipid Nanoparticles?. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 2958-2978	16.4	183
125	Engineering Extracellular Vesicles with the Tools of Enzyme Prodrug Therapy. <i>Advanced Materials</i> , <b>2018</b> , 30, e1706616	24	50
124	Auxetic Cardiac Patches with Tunable Mechanical and Conductive Properties toward Treating Myocardial Infarction. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1800618	15.6	102
123	Drug Delivery: Engineering Extracellular Vesicles with the Tools of Enzyme Prodrug Therapy (Adv. Mater. 15/2018). <i>Advanced Materials</i> , <b>2018</b> , 30, 1870109	24	
122	Fabrication of Hemin-Doped Serum Albumin-Based Fibrous Scaffolds for Neural Tissue Engineering Applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 5305-5317	9.5	42
121	Scarring vs. functional healing: Matrix-based strategies to regulate tissue repair. <i>Advanced Drug Delivery Reviews</i> , <b>2018</b> , 129, 407-419	18.5	50

120	A Serological Point-of-Care Test for the Detection of IgG Antibodies against Ebola Virus in Human Survivors. <i>ACS Nano</i> , <b>2018</b> , 12, 63-73	16.7	111
119	Fractal-like hierarchical organization of bone begins at the nanoscale. <i>Science</i> , <b>2018</b> , 360,	33.3	231
118	Culturing functional pancreatic islets on $\beta$ -laminins and curative transplantation to diabetic mice. <i>Matrix Biology</i> , <b>2018</b> , 70, 5-19	11.4	16
117	Enzyme Prodrug Therapy Achieves Site-Specific, Personalized Physiological Responses to the Locally Produced Nitric Oxide. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 10741-10751	9.5	23
116	Bloch surface wave label-free and fluorescence platform for the detection of VEGF biomarker in biological matrices. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 255, 2143-2150	8.5	20
115	Fate of Liposomes in the Presence of Phospholipase C and D: From Atomic to Supramolecular Lipid Arrangement. <i>ACS Central Science</i> , <b>2018</b> , 4, 1023-1030	16.8	12
114	Achieving Controlled Biomolecule-Biomaterial Conjugation. <i>Chemical Reviews</i> , <b>2018</b> , 118, 7702-7743	68.1	105
113	Elastic serum-albumin based hydrogels: mechanism of formation and application in cardiac tissue engineering. <i>Journal of Materials Chemistry B</i> , <b>2018</b> , 6, 5604-5612	7.3	24
112	Duplex-Specific Nuclease-Amplified Detection of MicroRNA Using Compact Quantum Dot-DNA Conjugates. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 28290-28300	9.5	43
111	Bouncing and 3D printable hybrids with self-healing properties. <i>Materials Horizons</i> , <b>2018</b> , 5, 849-860	14.4	28
110	A low friction, biphasic and boundary lubricating hydrogel for cartilage replacement. <i>Acta Biomaterialia</i> , <b>2018</b> , 65, 102-111	10.8	55
109	MicroRNA Detection by DNA-Mediated Liposome Fusion. <i>ChemBioChem</i> , <b>2018</b> , 19, 434-438	3.8	20
108	Platinum Nanocatalyst Amplification: Redefining the Gold Standard for Lateral Flow Immunoassays with Ultrabroad Dynamic Range. <i>ACS Nano</i> , <b>2018</b> , 12, 279-288	16.7	176
107	Surface Dynamics and Ligand-Core Interactions of Quantum Sized Photoluminescent Gold Nanoclusters. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 18217-18226	16.4	33
106	Single Particle Automated Raman Trapping Analysis. <i>Nature Communications</i> , <b>2018</b> , 9, 4256	17.4	19
105	Engineering Anisotropic Muscle Tissue using Acoustic Cell Patterning. <i>Advanced Materials</i> , <b>2018</b> , 30, e1802649	9.2	92
104	Hybrids of Silica/Poly( $\epsilon$ -caprolactone coglycidoxypropyl trimethoxysilane) as Biomaterials. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 3743-3751	9.6	12
103	Glycosylated superparamagnetic nanoparticle gradients for osteochondral tissue engineering. <i>Biomaterials</i> , <b>2018</b> , 176, 24-33	15.6	65

102	Strategic design of extracellular vesicle drug delivery systems. <i>Advanced Drug Delivery Reviews</i> , <b>2018</b> , 130, 12-16	18.5	104
101	Plasmonic Chirality Imprinting on Nucleobase-Displaying Supramolecular Nanohelices by Metal-Nucleobase Recognition. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 2361-2365	16.4	24
100	Synthesis of Hetero-bifunctional, End-Capped Oligo-EDOT Derivatives. <i>Chem</i> , <b>2017</b> , 2, 125-138	16.2	14
99	Plasmonic Chirality Imprinting on Nucleobase-Displaying Supramolecular Nanohelices by Metal-Nucleobase Recognition. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 2401-2405	3.6	7
98	Re-Engineering Extracellular Vesicles as Smart Nanoscale Therapeutics. <i>ACS Nano</i> , <b>2017</b> , 11, 69-83	16.7	286
97	Enhanced articular cartilage by human mesenchymal stem cells in enzymatically mediated transiently RGDS-functionalized collagen-mimetic hydrogels. <i>Acta Biomaterialia</i> , <b>2017</b> , 51, 75-88	10.8	36
96	Localized and Controlled Delivery of Nitric Oxide to the Conventional Outflow Pathway via Enzyme Biocatalysis: Toward Therapy for Glaucoma. <i>Advanced Materials</i> , <b>2017</b> , 29, 1604932	24	69
95	Biodegradable inorganic-organic hybrids of methacrylate star polymers for bone regeneration. <i>Acta Biomaterialia</i> , <b>2017</b> , 54, 411-418	10.8	20
94	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> , <b>2017</b> , 29, 1550-1560	9.6	21
93	One-Pot Synthesis of Multiple Protein-Encapsulated DNA Flowers and Their Application in Intracellular Protein Delivery. <i>Advanced Materials</i> , <b>2017</b> , 29, 1701086	24	71
92	Peptide-Functionalized Fluorescent Particles for In Situ Detection of Nitric Oxide via Peroxynitrite-Mediated Nitration. <i>Advanced Healthcare Materials</i> , <b>2017</b> , 6, 1700383	10.1	7
91	Self-Healing, Self-Assembled Sheet Peptide-Poly( $\beta$ -glutamic acid) Hybrid Hydrogels. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 7250-7255	16.4	114
90	Functional Adaptation of the Calcaneus in Historical Foot Binding. <i>Journal of Bone and Mineral Research</i> , <b>2017</b> , 32, 1915-1925	6.3	11
89	Probing amylin fibrillation at an early stage via a tetracysteine-recognising fluorophore. <i>Talanta</i> , <b>2017</b> , 173, 44-50	6.2	10
88	Electron Hopping Across Hemin-Doped Serum Albumin Mats on Centimeter-Length Scales. <i>Advanced Materials</i> , <b>2017</b> , 29, 1700810	24	20
87	Multimodal Hydrogel-Based Platform To Deliver and Monitor Cardiac Progenitor/Stem Cell Engraftment. <i>ACS Central Science</i> , <b>2017</b> , 3, 338-348	16.8	17
86	Diverse Applications of Nanomedicine. <i>ACS Nano</i> , <b>2017</b> , 11, 2313-2381	16.7	714
85	Human Induced Pluripotent Stem Cell-Derived Cardiomyocyte Encapsulating Bioactive Hydrogels Improve Rat Heart Function Post Myocardial Infarction. <i>Stem Cell Reports</i> , <b>2017</b> , 9, 1415-1422	8	69



84	Self-Assembled 2D Free-Standing Janus Nanosheets with Single-Layer Thickness. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 13592-13595	16.4	71
83	Highly porous scaffolds of PEDOT:PSS for bone tissue engineering. <i>Acta Biomaterialia</i> , <b>2017</b> , 62, 91-101	10.8	119
82	Enzyme Prodrug Therapy Engineered into Electrospun Fibers with Embedded Liposomes for Controlled, Localized Synthesis of Therapeutics. <i>Advanced Healthcare Materials</i> , <b>2017</b> , 6, 1700385	10.1	29
81	Sequence-Dependent Self-Assembly and Structural Diversity of Islet Amyloid Polypeptide-Derived Sheet Fibrils. <i>ACS Nano</i> , <b>2017</b> , 11, 8579-8589	16.7	30
80	Exploring the binding sites and proton diffusion on insulin amyloid fibril surfaces by naphthol-based photoacid fluorescence and molecular simulations. <i>Scientific Reports</i> , <b>2017</b> , 7, 6245	4.9	11
79	Distinct Bimodal Roles of Aromatic Molecules in Controlling Gold Nanorod Growth for Biosensing. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1700523	15.6	9
78	Online quantitative monitoring of live cell engineered cartilage growth using diffuse fiber-optic Raman spectroscopy. <i>Biomaterials</i> , <b>2017</b> , 140, 128-137	15.6	27
77	Multi-Amplified Sensing of MicroRNA by a Small DNA Fragment-Driven Enzymatic Cascade Reaction. <i>ACS Sensors</i> , <b>2017</b> , 2, 111-118	9.2	27
76	Materials science: Improving the image of nanoparticles. <i>Nature</i> , <b>2016</b> , 539, 505-506	50.4	11
75	Selective etching of injection molded zirconia-toughened alumina: Towards osseointegrated and antibacterial ceramic implants. <i>Acta Biomaterialia</i> , <b>2016</b> , 46, 308-322	10.8	26
74	Electroconductive Hydrogel Based on Functional Poly(Ethylenedioxy Thiophene). <i>Chemistry of Materials</i> , <b>2016</b> , 28, 6080-6088	9.6	81
73	Raman Spectroscopy Reveals New Insights into the Zonal Organization of Native and Tissue-Engineered Articular Cartilage. <i>ACS Central Science</i> , <b>2016</b> , 2, 885-895	16.8	66
72	Pericyte Seeded Dual Peptide Scaffold with Improved Endothelialization for Vascular Graft Tissue Engineering. <i>Advanced Healthcare Materials</i> , <b>2016</b> , 5, 3046-3055	10.1	27
71	Controlling Shear Stress in 3D Bioprinting is a Key Factor to Balance Printing Resolution and Stem Cell Integrity. <i>Advanced Healthcare Materials</i> , <b>2016</b> , 5, 326-33	10.1	390
70	Combinatorial Low-Volume Synthesis of Well-Defined Polymers by Enzyme Degassing. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 4576-4579	3.6	51
69	Assembly of emulsion droplets into fibers by microfluidic wet spinning. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 813-818	13	29
68	Point of care testing of phospholipase A2 group IIA for serological diagnosis of rheumatoid arthritis. <i>Nanoscale</i> , <b>2016</b> , 8, 4482-5	7.7	15
67	Material Cues as Potent Regulators of Epigenetics and Stem Cell Function. <i>Cell Stem Cell</i> , <b>2016</b> , 18, 39-528		134

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