

# 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  
g-index

233  
all docs

233  
docs citations

233  
times ranked

31415  
citing authors

#	ARTICLE	IF	CITATIONS
1	Exploring and Engineering the Cell Surface Interface. <i>Science</i> , 2005, 310, 1135-1138.	6.0	2,383
2	Diverse Applications of Nanomedicine. <i>ACS Nano</i> , 2017, 11, 2313-2381.	7.3	976
3	Colloidal nanoparticles as advanced biological sensors. <i>Science</i> , 2014, 346, 1247390.	6.0	842
4	Digital technologies in the public-health response to COVID-19. <i>Nature Medicine</i> , 2020, 26, 1183-1192.	15.2	695
5	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
6	Peptide-based stimuli-responsive biomaterials. <i>Soft Matter</i> , 2006, 2, 822.	1.2	548
7	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
8	Re-Engineering Extracellular Vesicles as Smart Nanoscale Therapeutics. <i>ACS Nano</i> , 2017, 11, 69-83.	7.3	432
9	Fractal-like hierarchical organization of bone begins at the nanoscale. <i>Science</i> , 2018, 360, .	6.0	390
10	Renal clearable catalytic gold nanoclusters for in vivo disease monitoring. <i>Nature Nanotechnology</i> , 2019, 14, 883-890.	15.6	333
11	Cubosomes: The Next Generation of Smart Lipid Nanoparticles?. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 2958-2978.	7.2	313
12	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
13	Accelerating the Translation of Nanomaterials in Biomedicine. <i>ACS Nano</i> , 2015, 9, 6644-6654.	7.3	279
14	Material Cues as Potent Regulators of Epigenetics and Stem Cell Function. <i>Cell Stem Cell</i> , 2016, 18, 39-52.	5.2	222
15	Silica-Gelatin Hybrids with Tailorable Degradation and Mechanical Properties for Tissue Regeneration. <i>Advanced Functional Materials</i> , 2010, 20, 3835-3845.	7.8	213
16	The Future of Layer-by-Layer Assembly: A Tribute to <i>ACS Nano</i> Associate Editor Helmuth MÄ¶hwald. <i>ACS Nano</i> , 2019, 13, 6151-6169.	7.3	211
17	Hypoxia-mimicking bioactive glass/collagen glycosaminoglycan composite scaffolds to enhance angiogenesis and bone repair. <i>Biomaterials</i> , 2015, 52, 358-366.	5.7	200
18	Highly porous scaffolds of PEDOT:PSS for bone tissue engineering. <i>Acta Biomaterialia</i> , 2017, 62, 91-101.	4.1	198

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19	Highly Controlled Open Vessel RAFT Polymerizations by Enzyme Degassing. <i>Macromolecules</i> , 2014, 47, 8541-8547.	2.2	177
20	Colistin kills bacteria by targeting lipopolysaccharide in the cytoplasmic membrane. <i>ELife</i> , 2021, 10, .	2.8	177
21	A conducting polymer with enhanced electronic stability applied in cardiac models. <i>Science Advances</i> , 2016, 2, e1601007.	4.7	173
22	Strategic design of extracellular vesicle drug delivery systems. <i>Advanced Drug Delivery Reviews</i> , 2018, 130, 12-16.	6.6	171
23	Enzyme-Responsive Nanoparticle Systems. <i>Advanced Materials</i> , 2008, 20, 4359-4363.	11.1	169
24	Auxetic Cardiac Patches with Tunable Mechanical and Conductive Properties toward Treating Myocardial Infarction. <i>Advanced Functional Materials</i> , 2018, 28, 1800618.	7.8	167
25	Achieving Controlled Biomolecule-Biomaterial Conjugation. <i>Chemical Reviews</i> , 2018, 118, 7702-7743.	23.0	165
26	A Serological Point-of-Care Test for the Detection of IgG Antibodies against Ebola Virus in Human Survivors. <i>ACS Nano</i> , 2018, 12, 63-73.	7.3	163
27	Expanding and optimizing 3D bioprinting capabilities using complementary network bioinks. <i>Science Advances</i> , 2020, 6, .	4.7	156
28	Tailoring Gelation Mechanisms for Advanced Hydrogel Applications. <i>Advanced Functional Materials</i> , 2020, 30, 2002759.	7.8	148
29	Physical stimuli-responsive vesicles in drug delivery: Beyond liposomes and polymersomes. <i>Advanced Drug Delivery Reviews</i> , 2019, 138, 259-275.	6.6	146
30	Self-Healing, Self-Assembled $\beta$ -Sheet Peptide-Poly( $\beta$ -glutamic acid) Hybrid Hydrogels. <i>Journal of the American Chemical Society</i> , 2017, 139, 7250-7255.	6.6	143
31	Engineering Anisotropic Muscle Tissue using Acoustic Cell Patterning. <i>Advanced Materials</i> , 2018, 30, e1802649.	11.1	140
32	Collagen-mimetic peptide-modifiable hydrogels for articular cartilage regeneration. <i>Biomaterials</i> , 2015, 54, 213-225.	5.7	139
33	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
34	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
35	Cell-derived vesicles for drug therapy and diagnostics: Opportunities and challenges. <i>Nano Today</i> , 2015, 10, 397-409.	6.2	124
36	Micro and nanoscale technologies in oral drug delivery. <i>Advanced Drug Delivery Reviews</i> , 2020, 157, 37-62.	6.6	123

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37	Combinatorial Low-Volume Synthesis of Well-Defined Polymers by Enzyme Degassing. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 4500-4503.	7.2	117
38	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
39	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
40	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
41	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
42	Advances in the Fabrication of Biomaterials for Gradient Tissue Engineering. <i>Trends in Biotechnology</i> , 2021, 39, 150-164.	4.9	98
43	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
44	Electroconductive Hydrogel Based on Functional Poly(Ethylenedioxy Thiophene). <i>Chemistry of Materials</i> , 2016, 28, 6080-6088.	3.2	96
45	Void-Free 3D Bioprinting for In Situ Endothelialization and Microfluidic Perfusion. <i>Advanced Functional Materials</i> , 2020, 30, 1908349.	7.8	96
46	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
47	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
48	Surface enhanced Raman scattering artificial nose for high dimensionality fingerprinting. <i>Nature Communications</i> , 2020, 11, 207.	5.8	93
49	A low friction, biphasic and boundary lubricating hydrogel for cartilage replacement. <i>Acta Biomaterialia</i> , 2018, 65, 102-111.	4.1	92
50	Glycosylated superparamagnetic nanoparticle gradients for osteochondral tissue engineering. <i>Biomaterials</i> , 2018, 176, 24-33.	5.7	92
51	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
52	Circular Dichroism of Amino Acids: Following the Structural Formation of Phenylalanine. <i>ChemPhysChem</i> , 2015, 16, 2768-2774.	1.0	91
53	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
54	Extracellular vesicles for tissue repair and regeneration: Evidence, challenges and opportunities. <i>Advanced Drug Delivery Reviews</i> , 2021, 175, 113775.	6.6	86

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55	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
56	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
57	Enhanced efficiency of genetic programming toward cardiomyocyte creation through topographical cues. <i>Biomaterials</i> , 2015, 70, 94-104.	5.7	81
58	Mapping Local Cytosolic Enzymatic Activity in Human Esophageal Mucosa with Porous Silicon Nanoneedles. <i>Advanced Materials</i> , 2015, 27, 5147-5152.	11.1	80
59	Scarring vs. functional healing: Matrix-based strategies to regulate tissue repair. <i>Advanced Drug Delivery Reviews</i> , 2018, 129, 407-419.	6.6	80
60	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
61	Engineering Extracellular Vesicles with the Tools of Enzyme Prodrug Therapy. <i>Advanced Materials</i> , 2018, 30, e1706616.	11.1	77
62	Assembling Living Building Blocks to Engineer Complex Tissues. <i>Advanced Functional Materials</i> , 2020, 30, 1909009.	7.8	76
63	Natural Biomaterials for Cardiac Tissue Engineering: A Highly Biocompatible Solution. <i>Frontiers in Cardiovascular Medicine</i> , 2020, 7, 554597.	1.1	74
64	Delivery of Oligonucleotide Therapeutics: Chemical Modifications, Lipid Nanoparticles, and Extracellular Vesicles. <i>ACS Nano</i> , 2021, 15, 13993-14021.	7.3	74
65	Remote Magnetic Nanoparticle Manipulation Enables the Dynamic Patterning of Cardiac Tissues. <i>Advanced Materials</i> , 2020, 32, e1904598.	11.1	70
66	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
67	Photoswitchable gRNAs for Spatiotemporally Controlled CRISPR-Cas-Based Genomic Regulation. <i>ACS Central Science</i> , 2020, 6, 695-703.	5.3	69
68	Fibres and cellular structures preserved in 75-million-year-old dinosaur specimens. <i>Nature Communications</i> , 2015, 6, 7352.	5.8	67
69	Neutrophils Enable Local and Non-invasive Liposome Delivery to Inflamed Skeletal Muscle and Ischemic Heart. <i>Advanced Materials</i> , 2020, 32, e2003598.	11.1	66
70	Long-Range Proton Conduction across Free-Standing Serum Albumin Mats. <i>Advanced Materials</i> , 2016, 28, 2692-2698.	11.1	65
71	Individual response variations in scaffold-guided bone regeneration are determined by independent strain- and injury-induced mechanisms. <i>Biomaterials</i> , 2019, 194, 183-194.	5.7	63
72	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

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73	Harnessing the secreted extracellular matrix to engineer tissues. <i>Nature Biomedical Engineering</i> , 2020, 4, 357-363.	11.6	62
74	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
75	Buoyancy-Driven Gradients for Biomaterial Fabrication and Tissue Engineering. <i>Advanced Materials</i> , 2019, 31, e1900291.	11.1	61
76	Using Remote Fields for Complex Tissue Engineering. <i>Trends in Biotechnology</i> , 2020, 38, 254-263.	4.9	60
77	Duplex-Specific Nuclease-Amplified Detection of MicroRNA Using Compact Quantum Dot-DNA Conjugates. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 28290-28300.	4.0	59
78	Combinatorial Low-Volume Synthesis of Well-Defined Polymers by Enzyme Degassing. <i>Angewandte Chemie</i> , 2016, 128, 4576-4579.	1.6	58
79	Bioinspired Fabrication of DNA-Inorganic Hybrid Composites Using Synthetic DNA. <i>ACS Nano</i> , 2019, 13, 2888-2900.	7.3	57
80	Temporally degradable collagen-mimetic hydrogels tuned to chondrogenesis of human mesenchymal stem cells. <i>Biomaterials</i> , 2016, 99, 56-71.	5.7	56
81	Driving Hierarchical Collagen Fiber Formation for Functional Tendon, Ligament, and Meniscus Replacement. <i>Biomaterials</i> , 2021, 269, 120527.	5.7	56
82	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
83	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
84	Toward Regeneration of the Heart: Bioengineering Strategies for Immunomodulation. <i>Frontiers in Cardiovascular Medicine</i> , 2019, 6, 26.	1.1	54
85	Fabrication of Hemin-Doped Serum Albumin-Based Fibrous Scaffolds for Neural Tissue Engineering Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 5305-5317.	4.0	53
86	Polymeric and lipid nanoparticles for delivery of self-amplifying RNA vaccines. <i>Journal of Controlled Release</i> , 2021, 338, 201-210.	4.8	53
87	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
88	Nanoceria provides antioxidant and osteogenic properties to mesoporous silica nanoparticles for osteoporosis treatment. <i>Acta Biomaterialia</i> , 2021, 122, 365-376.	4.1	49
89	Amphiphilic amino acids: a key to adsorbing proteins to nanopatterned surfaces?. <i>Chemical Science</i> , 2013, 4, 928-937.	3.7	48
90	Sequence-Dependent Self-Assembly and Structural Diversity of Islet Amyloid Polypeptide-Derived $\beta$ -Sheet Fibrils. <i>ACS Nano</i> , 2017, 11, 8579-8589.	7.3	48

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91	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
92	Bouncing and 3D printable hybrids with self-healing properties. <i>Materials Horizons</i> , 2018, 5, 849-860.	6.4	44
93	Changing the Mindset in Life Sciences Toward Translation: A Consensus. <i>Science Translational Medicine</i> , 2014, 6, 264cm12.	5.8	42
94	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
95	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
96	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
97	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
98	Ultrasound-Triggered Enzymatic Gelation. <i>Advanced Materials</i> , 2020, 32, e1905914.	11.1	38
99	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
100	Fiber-Based Electrochemical Biosensors for Monitoring pH and Transient Neurometabolic Lactate. <i>Analytical Chemistry</i> , 2021, 93, 6646-6655.	3.2	38
101	High-Throughput Molecular Imaging via Deep-Learning-Enabled Raman Spectroscopy. <i>Analytical Chemistry</i> , 2021, 93, 15850-15860.	3.2	38
102	Assembly of emulsion droplets into fibers by microfluidic wet spinning. <i>Journal of Materials Chemistry A</i> , 2016, 4, 813-818.	5.2	37
103	p24 revisited. <i>Aids</i> , 2018, 32, 2089-2102.	1.0	37
104	Single Particle Automated Raman Trapping Analysis. <i>Nature Communications</i> , 2018, 9, 4256.	5.8	37
105	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
106	Controlled Sub-Nanometer Epitope Spacing in a Three-Dimensional Self-Assembled Peptide Hydrogel. <i>ACS Nano</i> , 2016, 10, 11096-11104.	7.3	36
107	In vivo biomolecular imaging of zebrafish embryos using confocal Raman spectroscopy. <i>Nature Communications</i> , 2020, 11, 6172.	5.8	36
108	Hybrid gelation processes in enzymatically gelled gelatin: impact on nanostructure, macroscopic properties and cellular response. <i>Soft Matter</i> , 2013, 9, 6986-6999.	1.2	35

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109	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
110	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
111	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
112	MicroRNA Detection by DNA-Mediated Liposome Fusion. <i>ChemBioChem</i> , 2018, 19, 434-438.	1.3	35
113	Tumor-Targeting Cholesterol-Decorated DNA Nanoflowers for Intracellular Ratiometric Aptasensing. <i>Advanced Materials</i> , 2021, 33, e2007738.	11.1	34
114	Kinetics of RNA and RNA:DNA Hybrid Strand Displacement. <i>ACS Synthetic Biology</i> , 2021, 10, 3066-3073.	1.9	34
115	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
116	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
117	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
118	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
119	An Electroactive Oligo-EDOT Platform for Neural Tissue Engineering. <i>Advanced Functional Materials</i> , 2020, 30, 2003710.	7.8	32
120	Advances in high-resolution microscopy for the study of intracellular interactions with biomaterials. <i>Biomaterials</i> , 2020, 226, 119406.	5.7	30
121	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
122	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
123	Enzyme Prodrug Therapy Achieves Site-Specific, Personalized Physiological Responses to the Locally Produced Nitric Oxide. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 10741-10751.	4.0	29
124	Controlled Dendrimer Nanoreactor System for Localized Hypochlorite-Induced Killing of Bacteria. <i>ACS Nano</i> , 2020, 14, 17333-17353.	7.3	29
125	Design and clinical application of injectable hydrogels for musculoskeletal therapy. <i>Bioengineering and Translational Medicine</i> , 2022, 7, .	3.9	29
126	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



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127	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
128	Electron Hopping Across Hemin-Doped Serum Albumin Mats on Centimeter-Length Scales. <i>Advanced Materials</i> , 2017, 29, 1700810.	11.1	26
129	Emerging Technologies for Tissue Engineering: From Gene Editing to Personalized Medicine. <i>Tissue Engineering - Part A</i> , 2019, 25, 688-692.	1.6	26
130	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
131	Quantitative multi-image analysis for biomedical Raman spectroscopic imaging. <i>Journal of Biophotonics</i> , 2016, 9, 542-550.	1.1	25
132	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
133	Bloch surface wave label-free and fluorescence platform for the detection of VEGF biomarker in biological matrices. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 2143-2150.	4.0	25
134	A Dual Wavelength Polymerization and Bioconjugation Strategy for High Throughput Synthesis of Multivalent Ligands. <i>Journal of the American Chemical Society</i> , 2019, 141, 19823-19830.	6.6	25
135	Key elements for nourishing the translational research environment. <i>Science Translational Medicine</i> , 2015, 7, 282cm2.	5.8	24
136	Biodegradable inorganic-organic hybrids of methacrylate star polymers for bone regeneration. <i>Acta Biomaterialia</i> , 2017, 54, 411-418.	4.1	24
137	Multifunctional hyaluronate nanoparticle hybrid systems for diagnostic, therapeutic and theranostic applications. <i>Journal of Controlled Release</i> , 2019, 303, 55-66.	4.8	24
138	<i>In vivo</i> biocompatibility and immunogenicity of metal-phenolic gelation. <i>Chemical Science</i> , 2019, 10, 10179-10194.	3.7	24
139	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
140	Angular Approach Scanning Ion Conductance Microscopy. <i>Biophysical Journal</i> , 2016, 110, 2252-2265.	0.2	23
141	Culturing functional pancreatic islets on $\pm$ 5-laminins and curative transplantation to diabetic mice. <i>Matrix Biology</i> , 2018, 70, 5-19.	1.5	23
142	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
143	Nanoscale Molecular Quantification of Stem Cell-Hydrogel Interactions. <i>ACS Nano</i> , 2020, 14, 17321-17332.	7.3	22
144	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

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145	Substrate Stiffness-Driven Membrane Tension Modulates Vesicular Trafficking <i>via</i> Caveolin-1. ACS Nano, 2022, 16, 4322-4337.	7.3	22
146	Harnessing the Versatility of Bacterial Collagen to Improve the Chondrogenic Potential of Porous Collagen Scaffolds. Advanced Healthcare Materials, 2016, 5, 1656-1666.	3.9	21
147	Point of care testing of phospholipase A2 group IIA for serological diagnosis of rheumatoid arthritis. Nanoscale, 2016, 8, 4482-4485.	2.8	21
148	Synthesis of Hetero-bifunctional, End-Capped Oligo-EDOT Derivatives. Chem, 2017, 2, 125-138.	5.8	21
149	Hybrids of Silica/Poly( <i>caprolactone coglycidoxypropyl trimethoxysilane</i> ) as Biomaterials. Chemistry of Materials, 2018, 30, 3743-3751.	3.2	21
150	Activatable cell-biomaterial interfacing with photo-caged peptides. Chemical Science, 2019, 10, 1158-1167.	3.7	21
151	Biomedical hydrogels. , 2005, , 107-115.		19
152	Lactide polymerization co-initiated by carbohydrate esters and pyranoses. Journal of Polymer Science Part A, 2008, 46, 4352-4362.	2.5	19
153	Tunable Microgel-templated Porogel (MTP) Bioink for 3D Bioprinting Applications. Advanced Healthcare Materials, 2022, 11, e2200027.	3.9	19
154	In vitro and in vivo investigation of a zonal microstructured scaffold for osteochondral defect repair. Biomaterials, 2022, 286, 121548.	5.7	19
155	Fate of Liposomes in the Presence of Phospholipase C and D: From Atomic to Supramolecular Lipid Arrangement. ACS Central Science, 2018, 4, 1023-1030.	5.3	18
156	Detection of microRNA biomarkers <i>via</i> inhibition of DNA-mediated liposome fusion. Nanoscale Advances, 2019, 1, 532-536.	2.2	18
157	Molecular imaging of extracellular vesicles <i>in vitro via</i> Raman metabolic labelling. Journal of Materials Chemistry B, 2020, 8, 4447-4459.	2.9	18
158	Dynamic pH responsivity of triazole-based self-immolative linkers. Chemical Science, 2020, 11, 3713-3718.	3.7	18
159	Synthesis and self-assembly of temperature-responsive copolymers based on N-vinylpyrrolidone and triethylene glycol methacrylate. Polymer Chemistry, 2015, 6, 4116-4122.	1.9	17
160	Exploring the binding sites and proton diffusion on insulin amyloid fibril surfaces by naphthol-based photoacid fluorescence and molecular simulations. Scientific Reports, 2017, 7, 6245.	1.6	17
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