

Molly M Stevens

List of Publications by Citations

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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	Exploring and engineering the cell surface interface. <i>Science</i> , 2005 , 310, 1135-8	33.3	2149
208	Diverse Applications of Nanomedicine. <i>ACS Nano</i> , 2017 , 11, 2313-2381	16.7	714
207	Bionanotechnology. Colloidal nanoparticles as advanced biological sensors. <i>Science</i> , 2014 , 346, 1247-390	33.3	714
206	Peptide-based stimuli-responsive biomaterials. <i>Soft Matter</i> , 2006 , 2, 822-835	3.6	497
205	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, 326-33	10.1	390
204	Digital technologies in the public-health response to COVID-19. <i>Nature Medicine</i> , 2020 , 26, 1183-1192	50.5	303
203	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	11.7	295
202	Re-Engineering Extracellular Vesicles as Smart Nanoscale Therapeutics. <i>ACS Nano</i> , 2017 , 11, 69-83	16.7	286
201	Fractal-like hierarchical organization of bone begins at the nanoscale. <i>Science</i> , 2018 , 360,	33.3	231
200	Accelerating the Translation of Nanomaterials in Biomedicine. <i>ACS Nano</i> , 2015 , 9, 6644-54	16.7	220
199	Cubosomes: The Next Generation of Smart Lipid Nanoparticles?. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 2958-2978	16.4	183
198	Silica-Gelatin Hybrids with Tailorable Degradation and Mechanical Properties for Tissue Regeneration. <i>Advanced Functional Materials</i> , 2010 , 20, 3835-3845	15.6	179
197	Renal clearable catalytic gold nanoclusters for in vivo disease monitoring. <i>Nature Nanotechnology</i> , 2019 , 14, 883-890	28.7	178
196	Platinum Nanocatalyst Amplification: Redefining the Gold Standard for Lateral Flow Immunoassays with Ultrabroad Dynamic Range. <i>ACS Nano</i> , 2018 , 12, 279-288	16.7	176
195	Hypoxia-mimicking bioactive glass/collagen glycosaminoglycan composite scaffolds to enhance angiogenesis and bone repair. <i>Biomaterials</i> , 2015 , 52, 358-66	15.6	158
194	Highly Controlled Open Vessel RAFT Polymerizations by Enzyme Degassing. <i>Macromolecules</i> , 2014 , 47, 8541-8547	5.5	150
193	Material Cues as Potent Regulators of Epigenetics and Stem Cell Function. <i>Cell Stem Cell</i> , 2016 , 18, 39-52	8	134

192	A conducting polymer with enhanced electronic stability applied in cardiac models. <i>Science Advances</i> , 2016 , 2, e1601007	14.3	131
191	The Future of Layer-by-Layer Assembly: A Tribute to ACS Nano Associate Editor Helmut Möhwald. <i>ACS Nano</i> , 2019 , 13, 6151-6169	16.7	127
190	Highly porous scaffolds of PEDOT:PSS for bone tissue engineering. <i>Acta Biomaterialia</i> , 2017 , 62, 91-101	10.8	119
189	Self-Healing, Self-Assembled Sheet Peptide-Poly(Glutamic acid) Hybrid Hydrogels. <i>Journal of the American Chemical Society</i> , 2017 , 139, 7250-7255	16.4	114
188	Colorimetric Detection of Small Molecules in Complex Matrixes via Target-Mediated Growth of Aptamer-Functionalized Gold Nanoparticles. <i>Analytical Chemistry</i> , 2015 , 87, 7644-52	7.8	112
187	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	10.8	112
186	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	16.7	111
185	Collagen-mimetic peptide-modifiable hydrogels for articular cartilage regeneration. <i>Biomaterials</i> , 2015 , 54, 213-25	15.6	110
184	Achieving Controlled Biomolecule-Biomaterial Conjugation. <i>Chemical Reviews</i> , 2018 , 118, 7702-7743	68.1	105
183	Strategic design of extracellular vesicle drug delivery systems. <i>Advanced Drug Delivery Reviews</i> , 2018 , 130, 12-16	18.5	104
182	Auxetic Cardiac Patches with Tunable Mechanical and Conductive Properties toward Treating Myocardial Infarction. <i>Advanced Functional Materials</i> , 2018 , 28, 1800618	15.6	102
181	Cell-derived vesicles for drug therapy and diagnostics: opportunities and challenges. <i>Nano Today</i> , 2015 , 10, 397-409	17.9	101
180	Combinatorial Low-Volume Synthesis of Well-Defined Polymers by Enzyme Degassing. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 4500-3	16.4	97
179	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, 1959-64	11.5	94
178	Physical stimuli-responsive vesicles in drug delivery: Beyond liposomes and polymersomes. <i>Advanced Drug Delivery Reviews</i> , 2019 , 138, 259-275	18.5	92
177	Engineering Anisotropic Muscle Tissue using Acoustic Cell Patterning. <i>Advanced Materials</i> , 2018 , 30, e1802649	18.2	92
176	Multivalent nanoparticle networks enable point-of-care detection of human phospholipase-A2 in serum. <i>ACS Nano</i> , 2015 , 9, 2565-2573	16.7	82
175	Electroconductive Hydrogel Based on Functional Poly(Ethylenedioxy Thiophene). <i>Chemistry of Materials</i> , 2016 , 28, 6080-6088	9.6	81

174	Elucidating the deprotonation of polyaniline films by X-ray photoelectron spectroscopy. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 7180-7186	7.1	72
173	One-Pot Synthesis of Multiple Protein-Encapsulated DNA Flowers and Their Application in Intracellular Protein Delivery. <i>Advanced Materials</i> , 2017 , 29, 1701086	24	71
172	Self-Assembled 2D Free-Standing Janus Nanosheets with Single-Layer Thickness. <i>Journal of the American Chemical Society</i> , 2017 , 139, 13592-13595	16.4	71
171	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	24	69
170	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	8	69
169	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	16.8	66
168	Enhanced efficiency of genetic programming toward cardiomyocyte creation through topographical cues. <i>Biomaterials</i> , 2015 , 70, 94-104	15.6	65
167	Glycosylated superparamagnetic nanoparticle gradients for osteochondral tissue engineering. <i>Biomaterials</i> , 2018 , 176, 24-33	15.6	65
166	Mapping Local Cytosolic Enzymatic Activity in Human Esophageal Mucosa with Porous Silicon Nanoneedles. <i>Advanced Materials</i> , 2015 , 27, 5147-52	24	62
165	Tailoring Gelation Mechanisms for Advanced Hydrogel Applications. <i>Advanced Functional Materials</i> , 2020 , 30, 2002759	15.6	60
164	Circular Dichroism of Amino Acids: Following the Structural Formation of Phenylalanine. <i>ChemPhysChem</i> , 2015 , 16, 2768-2774	3.2	59
163	Fibres and cellular structures preserved in 75-million-year-old dinosaur specimens. <i>Nature Communications</i> , 2015 , 6, 7352	17.4	59
162	Expanding and optimizing 3D bioprinting capabilities using complementary network bioinks. <i>Science Advances</i> , 2020 , 6,	14.3	56
161	A low friction, biphasic and boundary lubricating hydrogel for cartilage replacement. <i>Acta Biomaterialia</i> , 2018 , 65, 102-111	10.8	55
160	Integrative Self-assembly of Graphene Quantum Dot and Biopolymer into a Versatile Biosensing Toolkit. <i>Advanced Functional Materials</i> , 2015 , 25, 3183-3192	15.6	52
159	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, 4280-5	11.5	52
158	Long-Range Proton Conduction across Free-Standing Serum Albumin Mats. <i>Advanced Materials</i> , 2016 , 28, 2692-8	24	52
157	The Design and Testing of a Locally Stiffness-Matched Porous Scaffold. <i>Applied Materials Today</i> , 2019 , 15, 377-388	6.6	51

156	Combinatorial Low-Volume Synthesis of Well-Defined Polymers by Enzyme Degassing. <i>Angewandte Chemie</i> , 2016 , 128, 4576-4579	3.6	51
155	Engineering Extracellular Vesicles with the Tools of Enzyme Prodrug Therapy. <i>Advanced Materials</i> , 2018 , 30, e1706616	24	50
154	Scarring vs. functional healing: Matrix-based strategies to regulate tissue repair. <i>Advanced Drug Delivery Reviews</i> , 2018 , 129, 407-419	18.5	50
153	Void-free 3D Bioprinting for In-situ Endothelialization and Microfluidic Perfusion. <i>Advanced Functional Materials</i> , 2020 , 30, 1908349	15.6	50
152	Surface enhanced Raman scattering artificial nose for high dimensionality fingerprinting. <i>Nature Communications</i> , 2020 , 11, 207	17.4	49
151	Glycosaminoglycan-based biomaterials for growth factor and cytokine delivery: Making the right choices. <i>Journal of Controlled Release</i> , 2019 , 313, 131-147	11.7	48
150	Big Is Beautiful: Enhanced saRNA Delivery and Immunogenicity by a Higher Molecular Weight, Bioreducible, Cationic Polymer. <i>ACS Nano</i> , 2020 , 14, 5711-5727	16.7	47
149	Effect of Formulation Method, Lipid Composition, and PEGylation on Vesicle Lamellarity: A Small-Angle Neutron Scattering Study. <i>Langmuir</i> , 2019 , 35, 6064-6074	4	46
148	Amphiphilic amino acids: a key to adsorbing proteins to nanopatterned surfaces?. <i>Chemical Science</i> , 2013 , 4, 928-937	9.4	45
147	Micro and nanoscale technologies in oral drug delivery. <i>Advanced Drug Delivery Reviews</i> , 2020 , 157, 37-62	18.5	45
146	Duplex-Specific Nuclease-Amplified Detection of MicroRNA Using Compact Quantum Dot-DNA Conjugates. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 28290-28300	9.5	43
145	Fabrication of Hemin-Doped Serum Albumin-Based Fibrous Scaffolds for Neural Tissue Engineering Applications. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 5305-5317	9.5	42
144	Remote Magnetic Nanoparticle Manipulation Enables the Dynamic Patterning of Cardiac Tissues. <i>Advanced Materials</i> , 2020 , 32, e1904598	24	40
143	Temporally degradable collagen-mimetic hydrogels tuned to chondrogenesis of human mesenchymal stem cells. <i>Biomaterials</i> , 2016 , 99, 56-71	15.6	40
142	Advances in the Fabrication of Biomaterials for Gradient Tissue Engineering. <i>Trends in Biotechnology</i> , 2021 , 39, 150-164	15.1	37
141	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	10.8	36
140	Buoyancy-Driven Gradients for Biomaterial Fabrication and Tissue Engineering. <i>Advanced Materials</i> , 2019 , 31, e1900291	24	36
139	Tailoring Mechanical Properties of SolGel Hybrids for Bone Regeneration through Polymer Structure. <i>Chemistry of Materials</i> , 2016 , 28, 6127-6135	9.6	36

138	Modular and Versatile Spatial Functionalization of Tissue Engineering Scaffolds through Fiber-Initiated Controlled Radical Polymerization. <i>Advanced Functional Materials</i> , 2015 , 25, 5748-5757	15.6	34
137	Individual response variations in scaffold-guided bone regeneration are determined by independent strain- and injury-induced mechanisms. <i>Biomaterials</i> , 2019 , 194, 183-194	15.6	34
136	Photoswitchable gRNAs for Spatiotemporally Controlled CRISPR-Cas-Based Genomic Regulation. <i>ACS Central Science</i> , 2020 , 6, 695-703	16.8	33
135	Colistin kills bacteria by targeting lipopolysaccharide in the cytoplasmic membrane. <i>ELife</i> , 2021 , 10,	8.9	33
134	Surface Dynamics and Ligand-Core Interactions of Quantum Sized Photoluminescent Gold Nanoclusters. <i>Journal of the American Chemical Society</i> , 2018 , 140, 18217-18226	16.4	33
133	Using Remote Fields for Complex Tissue Engineering. <i>Trends in Biotechnology</i> , 2020 , 38, 254-263	15.1	32
132	Bioinspired Fabrication of DNA-Inorganic Hybrid Composites Using Synthetic DNA. <i>ACS Nano</i> , 2019 , 13, 2888-2900	16.7	31
131	Engineering the drug carrier biointerface to overcome biological barriers to drug delivery. <i>Advanced Drug Delivery Reviews</i> , 2020 , 167, 89-108	18.5	31
130	Assembling Living Building Blocks to Engineer Complex Tissues. <i>Advanced Functional Materials</i> , 2020 , 30, 1909009	15.6	31
129	Changing the mindset in life sciences toward translation: a consensus. <i>Science Translational Medicine</i> , 2014 , 6, 264cm12	17.5	31
128	Natural Biomaterials for Cardiac Tissue Engineering: A Highly Biocompatible Solution. <i>Frontiers in Cardiovascular Medicine</i> , 2020 , 7, 554597	5.4	31
127	Neutrophils Enable Local and Non-Invasive Liposome Delivery to Inflamed Skeletal Muscle and Ischemic Heart. <i>Advanced Materials</i> , 2020 , 32, e2003598	24	31
126	Sequence-Dependent Self-Assembly and Structural Diversity of Islet Amyloid Polypeptide-Derived Sheet Fibrils. <i>ACS Nano</i> , 2017 , 11, 8579-8589	16.7	30
125	Harnessing the secreted extracellular matrix to engineer tissues. <i>Nature Biomedical Engineering</i> , 2020 , 4, 357-363	19	30
124	Toward Regeneration of the Heart: Bioengineering Strategies for Immunomodulation. <i>Frontiers in Cardiovascular Medicine</i> , 2019 , 6, 26	5.4	29
123	Layer-by-Layer Self-Assembly of Polymer Films and Capsules through Coiled-Coil Peptides. <i>Chemistry of Materials</i> , 2015 , 27, 5820-5824	9.6	29
122	Assembly of emulsion droplets into fibers by microfluidic wet spinning. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 813-818	13	29
121	Enzyme Prodrug Therapy Engineered into Electrospun Fibers with Embedded Liposomes for Controlled, Localized Synthesis of Therapeutics. <i>Advanced Healthcare Materials</i> , 2017 , 6, 1700385	10.1	29

120	Hybrid processes in enzymatically gelled gelatin: impact on , macroscopic properties and cellular response. <i>Soft Matter</i> , 2013 , 9, 6986-6999	3.6	29
119	Controlled Sub-Nanometer Epitope Spacing in a Three-Dimensional Self-Assembled Peptide Hydrogel. <i>ACS Nano</i> , 2016 , 10, 11096-11104	16.7	29
118	Rheological Characterization of Biomaterials Directs Additive Manufacturing of Strontium-Substituted Bioactive Glass/Polycaprolactone Microfibers. <i>Macromolecular Rapid Communications</i> , 2019 , 40, e1900019	4.8	28
117	Bouncing and 3D printable hybrids with self-healing properties. <i>Materials Horizons</i> , 2018 , 5, 849-860	14.4	28
116	Pericyte Seeded Dual Peptide Scaffold with Improved Endothelialization for Vascular Graft Tissue Engineering. <i>Advanced Healthcare Materials</i> , 2016 , 5, 3046-3055	10.1	27
115	Online quantitative monitoring of live cell engineered cartilage growth using diffuse fiber-optic Raman spectroscopy. <i>Biomaterials</i> , 2017 , 140, 128-137	15.6	27
114	Multi-Amplified Sensing of MicroRNA by a Small DNA Fragment-Driven Enzymatic Cascade Reaction. <i>ACS Sensors</i> , 2017 , 2, 111-118	9.2	27
113	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	7.4	26
112	Selective etching of injection molded zirconia-toughened alumina: Towards osseointegrated and antibacterial ceramic implants. <i>Acta Biomaterialia</i> , 2016 , 46, 308-322	10.8	26
111	c-Kit+ progenitors generate vascular cells for tissue-engineered grafts through modulation of the Wnt/Klf4 pathway. <i>Biomaterials</i> , 2015 , 60, 53-61	15.6	25
110	Plasmonic Chirality Imprinting on Nucleobase-Displaying Supramolecular Nanohelices by Metal-Nucleobase Recognition. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 2361-2365	16.4	24
109	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	7.3	24
108	Tailoring Cellular Uptake of Conjugated Polymer Nanoparticles Using Modular Amphiphilic Peptide Capping Ligands. <i>Chemistry of Materials</i> , 2015 , 27, 6879-6889	9.6	23
107	Enzyme Prodrug Therapy Achieves Site-Specific, Personalized Physiological Responses to the Locally Produced Nitric Oxide. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 10741-10751	9.5	23
106	Quantitative multi-image analysis for biomedical Raman spectroscopic imaging. <i>Journal of Biophotonics</i> , 2016 , 9, 542-50	3.1	22
105	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	9.6	21
104	Key elements for nourishing the translational research environment. <i>Science Translational Medicine</i> , 2015 , 7, 282cm2	17.5	21
103	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, 29124-33	3.6	21

102	An Electroactive Oligo-EDOT Platform for Neural Tissue Engineering. <i>Advanced Functional Materials</i> , 2020 , 30, 2003710	15.6	21
101	Driving Hierarchical Collagen Fiber Formation for Functional Tendon, Ligament, and Meniscus Replacement. <i>Biomaterials</i> , 2021 , 269, 120527	15.6	21
100	Extracellular vesicles for tissue repair and regeneration: Evidence, challenges and opportunities. <i>Advanced Drug Delivery Reviews</i> , 2021 , 175, 113775	18.5	21
99	Biodegradable inorganic-organic hybrids of methacrylate star polymers for bone regeneration. <i>Acta Biomaterialia</i> , 2017 , 54, 411-418	10.8	20
98	Electron Hopping Across Hemin-Doped Serum Albumin Mats on Centimeter-Length Scales. <i>Advanced Materials</i> , 2017 , 29, 1700810	24	20
97	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	8.5	20
96	MicroRNA Detection by DNA-Mediated Liposome Fusion. <i>ChemBioChem</i> , 2018 , 19, 434-438	3.8	20
95	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	6.8	19
94	Single Particle Automated Raman Trapping Analysis. <i>Nature Communications</i> , 2018 , 9, 4256	17.4	19
93	Emerging Technologies for Tissue Engineering: From Gene Editing to Personalized Medicine. <i>Tissue Engineering - Part A</i> , 2019 , 25, 688-692	3.9	18
92	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	4	18
91	Ultrasound-Triggered Enzymatic Gelation. <i>Advanced Materials</i> , 2020 , 32, e1905914	24	18
90	Multimodal Hydrogel-Based Platform To Deliver and Monitor Cardiac Progenitor/Stem Cell Engraftment. <i>ACS Central Science</i> , 2017 , 3, 338-348	16.8	17
89	Nanoceria provides antioxidant and osteogenic properties to mesoporous silica nanoparticles for osteoporosis treatment. <i>Acta Biomaterialia</i> , 2021 , 122, 365-376	10.8	17
88	Angular Approach Scanning Ion Conductance Microscopy. <i>Biophysical Journal</i> , 2016 , 110, 2252-65	2.9	17
87	Activatable cell-biomaterial interfacing with photo-caged peptides. <i>Chemical Science</i> , 2019 , 10, 1158-1167	7.4	16
86	Multifunctional hyaluronate - nanoparticle hybrid systems for diagnostic, therapeutic and theranostic applications. <i>Journal of Controlled Release</i> , 2019 , 303, 55-66	11.7	16
85	Culturing functional pancreatic islets on β -laminins and curative transplantation to diabetic mice. <i>Matrix Biology</i> , 2018 , 70, 5-19	11.4	16

84	Lactide polymerization co-initiated by carbohydrate esters and pyranoses. <i>Journal of Polymer Science Part A</i> , 2008 , 46, 4352-4362	2.5	16
83	Delivery of Oligonucleotide Therapeutics: Chemical Modifications, Lipid Nanoparticles, and Extracellular Vesicles. <i>ACS Nano</i> , 2021 , 15, 13993-14021	16.7	16
82	Controlled Dendrimersome Nanoreactor System for Localized Hypochlorite-Induced Killing of Bacteria. <i>ACS Nano</i> , 2020 ,	16.7	15
81	Point of care testing of phospholipase A2 group IIA for serological diagnosis of rheumatoid arthritis. <i>Nanoscale</i> , 2016 , 8, 4482-5	7.7	15
80	Quantum-Dot-Based FRET Detection of Histone Acetyltransferase Activity. <i>Angewandte Chemie</i> , 2011 , 123, 3479-3482	3.6	15
79	Advances in high-resolution microscopy for the study of intracellular interactions with biomaterials. <i>Biomaterials</i> , 2020 , 226, 119406	15.6	15
78	Synthesis of Hetero-bifunctional, End-Capped Oligo-EDOT Derivatives. <i>Chem</i> , 2017 , 2, 125-138	16.2	14
77	Designing dapson polymer conjugates for controlled drug delivery. <i>Acta Biomaterialia</i> , 2015 , 27, 32-41	10.8	14
76	On the dynamic behaviour of the forced dissociation of ligand-receptor pairs. <i>Perkin Transactions II RSC</i> , 2000 , 5-8		14
75	Synthesis and self-assembly of temperature-responsive copolymers based on -vinylpyrrolidone and triethylene glycol methacrylate. <i>Polymer Chemistry</i> , 2015 , 6, 4116-4122	4.9	13
74	Designing Fluorescent Peptide Sensors with Dual Specificity for the Detection of HIV-1 Protease. <i>Chemistry of Materials</i> , 2015 , 27, 7187-7195	9.6	13
73	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	11.5	13
72	In vivo biomolecular imaging of zebrafish embryos using confocal Raman spectroscopy. <i>Nature Communications</i> , 2020 , 11, 6172	17.4	13
71	Fiber-Based Electrochemical Biosensors for Monitoring pH and Transient Neurometabolic Lactate. <i>Analytical Chemistry</i> , 2021 , 93, 6646-6655	7.8	13
70	Rolling Circle Transcription-Amplified Hierarchically Structured Organic-Inorganic Hybrid RNA Flowers for Enzyme Immobilization. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 22932-22940	9.5	12
69	Immunogold FIB-SEM: Combining Volumetric Ultrastructure Visualization with 3D Biomolecular Analysis to Dissect Cell-Environment Interactions. <i>Advanced Materials</i> , 2019 , 31, e1900488	24	12
68	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	16.8	12
67	Surfactant Protein B Promotes Cytosolic siRNA Delivery by Adopting a Virus-like Mechanism of Action. <i>ACS Nano</i> , 2021 , 15, 8095-8109	16.7	12

66	Harnessing the Versatility of Bacterial Collagen to Improve the Chondrogenic Potential of Porous Collagen Scaffolds. <i>Advanced Healthcare Materials</i> , 2016 , 5, 1656-66	10.1	12
65	Hybrids of Silica/Poly(ϵ -caprolactone coglycidoxypopyl trimethoxysilane) as Biomaterials. <i>Chemistry of Materials</i> , 2018 , 30, 3743-3751	9.6	12
64	Functional Adaptation of the Calcaneus in Historical Foot Binding. <i>Journal of Bone and Mineral Research</i> , 2017 , 32, 1915-1925	6.3	11
63	Materials science: Improving the image of nanoparticles. <i>Nature</i> , 2016 , 539, 505-506	50.4	11
62	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	4.9	11
61	Latent Transforming Growth Factor-beta1 Functionalised Electrospun Scaffolds Promote Human Cartilage Differentiation: Towards an Engineered Cartilage Construct. <i>Archives of Plastic Surgery</i> , 2013 , 40, 676-86	1.6	11
60	Iodide-Mediated Rapid and Sensitive Surface Etching of Gold Nanostars for Biosensing. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 9891-9896	16.4	11
59	In vivo biocompatibility and immunogenicity of metal-phenolic gelation. <i>Chemical Science</i> , 2019 , 10, 10179-10194	9.4	11
58	Polymeric and lipid nanoparticles for delivery of self-amplifying RNA vaccines. <i>Journal of Controlled Release</i> , 2021 , 338, 201-210	11.7	11
57	Probing amylin fibrillation at an early stage via a tetracysteine-recognising fluorophore. <i>Talanta</i> , 2017 , 173, 44-50	6.2	10
56	Dynamic pH responsivity of triazole-based self-immolative linkers. <i>Chemical Science</i> , 2020 , 11, 3713-3718	9.4	10
55	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	16.4	10
54	Tumor-Targeting Cholesterol-Decorated DNA Nanoflowers for Intracellular Ratiometric Aptasensing. <i>Advanced Materials</i> , 2021 , 33, e2007738	24	10
53	Tailoring of mechanical properties of derivatized natural polyamino acids through esterification and tensile deformation. <i>RSC Advances</i> , 2014 , 4, 2096-2102	3.7	9
52	Distinct Bimodal Roles of Aromatic Molecules in Controlling Gold Nanorod Growth for Biosensing. <i>Advanced Functional Materials</i> , 2017 , 27, 1700523	15.6	9
51	Bio-inspired materials for biosensing and tissue engineering. <i>Polymer International</i> , 2012 , 61, 680-685	3.3	9
50	Detection of microRNA biomarkers via inhibition of DNA-mediated liposome fusion. <i>Nanoscale Advances</i> , 2019 , 1, 532-536	5.1	8
49	Biomedical hydrogels 2005 , 107-115		8

48	Biomaterial-Related Approaches: Surface Structuring 2009 , 469-484		8
47	Nanoscale Molecular Quantification of Stem Cell-Hydrogel Interactions. <i>ACS Nano</i> , 2020 ,	16.7	8
46	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	8.3	8
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