

Mark W Tibbitt

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.

60
papers

6,036
citations

32
h-index

77
g-index

77
ext. papers

7,175
ext. citations

12.4
avg, IF

6.51
L-index

#	Paper	IF	Citations
60	Biopolymer Nano-network for Antimicrobial Peptide Protection and Local Delivery.. <i>Advanced Healthcare Materials</i> , 2021 , e2101426	10.1	1
59	Supramolecular Reinforcement of Polymer-Nanoparticle Hydrogels for Modular Materials Design.. <i>Advanced Materials</i> , 2021 , e2106941	24	4
58	Surface Tension-Assisted Additive Manufacturing of Tubular, Multicomponent Biomaterials. <i>Methods in Molecular Biology</i> , 2021 , 2147, 149-160	1.4	
57	Bile formation in long-term ex situ perfused livers. <i>Surgery</i> , 2021 , 169, 894-902	3.6	5
56	Supramolecular engineering of hydrogels for drug delivery. <i>Advanced Drug Delivery Reviews</i> , 2021 , 171, 240-256	18.5	32
55	Automated Insulin Delivery - Continuous Blood Glucose Control During Ex Situ Liver Perfusion. <i>IEEE Transactions on Biomedical Engineering</i> , 2021 , 68, 1399-1408	5	3
54	Engineering Hydrogel Adhesion for Biomedical Applications via Chemical Design of the Junction. <i>ACS Biomaterials Science and Engineering</i> , 2021 , 7, 4048-4076	5.5	19
53	Sources and prevention of graft infection during long-term ex situ liver perfusion. <i>Transplant Infectious Disease</i> , 2021 , 23, e13623	2.7	0
52	Environment Controls Biomolecule Release from Dynamic Covalent Hydrogels. <i>Biomacromolecules</i> , 2021 , 22, 146-157	6.9	15
51	Long-term Normothermic Machine Preservation of Partial Livers: First Experience With 21 Human Hemi-livers. <i>Annals of Surgery</i> , 2021 , 274, 836-842	7.8	3
50	Hierarchical biomaterials via photopatterning-enhanced direct ink writing. <i>Biofabrication</i> , 2021 , 13,	10.5	4
49	Additive manufacturing in drug delivery: Innovative drug product design and opportunities for industrial application. <i>Advanced Drug Delivery Reviews</i> , 2021 , 178, 113990	18.5	4
48	Hyperoxia in portal vein causes enhanced vasoconstriction in arterial vascular bed. <i>Scientific Reports</i> , 2020 , 10, 20966	4.9	2
47	Screening method to identify hydrogel formulations that facilitate myotube formation from encapsulated primary myoblasts. <i>Bioengineering and Translational Medicine</i> , 2020 , 5, e10181	14.8	4
46	Human Retinal Microvasculature-on-a-Chip for Drug Discovery. <i>Advanced Healthcare Materials</i> , 2020 , 9, e2001531	10.1	10
45	Bioprinting within live animals. <i>Nature Biomedical Engineering</i> , 2020 , 4, 851-852	19	4
44	Linking Molecular Behavior to Macroscopic Properties in Ideal Dynamic Covalent Networks. <i>Journal of the American Chemical Society</i> , 2020 , 142, 15371-15385	16.4	43

43	Additive Manufacturing of Precision Biomaterials. <i>Advanced Materials</i> , 2020 , 32, e1901994	24	62
42	Model Assisted Analysis of the Hepatic Arterial Buffer Response During Ex Vivo Porcine Liver Perfusion. <i>IEEE Transactions on Biomedical Engineering</i> , 2020 , 67, 667-678	5	9
41	Injectable Biocompatible Hydrogels from Cellulose Nanocrystals for Locally Targeted Sustained Drug Release. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 38578-38585	9.5	33
40	Injectable Polymer-Nanoparticle Hydrogels for Local Immune Cell Recruitment. <i>Biomacromolecules</i> , 2019 , 20, 4430-4436	6.9	33
39	Polymer-Nanoparticle Hydrogels. <i>Chimia</i> , 2019 , 73, 1034	1.3	2
38	Universal Nanocarrier Ink Platform for Biomaterials Additive Manufacturing. <i>Small</i> , 2019 , 15, e1905421	11	22
37	Automated and Continuous Production of Polymeric Nanoparticles. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019 , 7, 423	5.8	4
36	Matryoshka-Inspired Micro-Origami Capsules to Enhance Loading, Encapsulation, and Transport of Drugs. <i>Soft Robotics</i> , 2019 , 6, 150-159	9.2	17
35	Immunofunctional photodegradable poly(ethylene glycol) hydrogel surfaces for the capture and release of rare cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019 , 174, 483-492	6	22
34	Design of moldable hydrogels for biomedical applications using dynamic covalent boronic esters. <i>Materials Today Chemistry</i> , 2019 , 12, 16-33	6.2	70
33	Thermal Stabilization of Biologics with Photoresponsive Hydrogels. <i>Biomacromolecules</i> , 2018 , 19, 740-747	6.9	22
32	Surface tension-assisted additive manufacturing. <i>Nature Communications</i> , 2018 , 9, 1184	17.4	41
31	Engineering a 3D-Bioprinted Model of Human Heart Valve Disease Using Nanoindentation-Based Biomechanics. <i>Nanomaterials</i> , 2018 , 8,	5.4	59
30	In vitro 3D model and miRNA drug delivery to target calcific aortic valve disease. <i>Clinical Science</i> , 2017 , 131, 181-195	6.5	21
29	Ultrasmall Silica-Based Bismuth Gadolinium Nanoparticles for Dual Magnetic Resonance-Computed Tomography Image Guided Radiation Therapy. <i>Nano Letters</i> , 2017 , 17, 1733-1740	11.5	88
28	Living Biomaterials. <i>Accounts of Chemical Research</i> , 2017 , 50, 508-513	24.3	40
27	Synthesis and Biological Evaluation of Ionizable Lipid Materials for the In Vivo Delivery of Messenger RNA to B Lymphocytes. <i>Advanced Materials</i> , 2017 , 29, 1606944	24	105
26	Bioinspired Alkenyl Amino Alcohol Ionizable Lipid Materials for Highly Potent In Vivo mRNA Delivery. <i>Advanced Materials</i> , 2016 , 28, 2939-43	24	125

25	High throughput screening for discovery of materials that control stem cell fate. <i>Current Opinion in Solid State and Materials Science</i> , 2016 , 20, 202-211	12	34
24	Emerging Frontiers in Drug Delivery. <i>Journal of the American Chemical Society</i> , 2016 , 138, 704-17	16.4	625
23	Scalable manufacturing of biomimetic moldable hydrogels for industrial applications. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 14255-14260	11.5	58
22	Photopolymers for Multiphoton Lithography in Biomaterials and Hydrogels 2016 , 183-220		4
21	Exploiting Electrostatic Interactions in Polymer-Nanoparticle Hydrogels. <i>ACS Macro Letters</i> , 2015 , 4, 848-852	6.6	68
20	In vitro model alveoli from photodegradable microsphere templates. <i>Biomaterials Science</i> , 2015 , 3, 821-324	3.4	33
19	Progress in material design for biomedical applications. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 14444-51	11.5	174
18	Self-assembled hydrogels utilizing polymer-nanoparticle interactions. <i>Nature Communications</i> , 2015 , 6, 6295	17.4	341
17	Mechanical memory and dosing influence stem cell fate. <i>Nature Materials</i> , 2014 , 13, 645-52	27	727
16	Mechanical Properties and Degradation of Chain and Step Polymerized Photodegradable Hydrogels. <i>Macromolecules</i> , 2013 , 46,	5.5	116
15	Formation of Core-Shell Particles by Interfacial Radical Polymerization Initiated by a Glucose Oxidase-Mediated Redox System. <i>Chemistry of Materials</i> , 2013 , 25, 761-767	9.6	38
14	Hydrogels preserve native phenotypes of valvular fibroblasts through an elasticity-regulated PI3K/AKT pathway. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 19336-41	11.5	117
13	Modeling Controlled Photodegradation in Optically Thick Hydrogels. <i>Journal of Polymer Science Part A</i> , 2013 , 51, 1899-1911	2.5	27
12	Dynamic microenvironments: the fourth dimension. <i>Science Translational Medicine</i> , 2012 , 4, 160ps24	17.5	126
11	Responsive culture platform to examine the influence of microenvironmental geometry on cell function in 3D. <i>Integrative Biology (United Kingdom)</i> , 2012 , 4, 1540-9	3.7	42
10	Photocontrolled nanoparticles for on-demand release of proteins. <i>Biomacromolecules</i> , 2012 , 13, 2219-246.9	6.9	81
9	Light activated cell migration in synthetic extracellular matrices. <i>Biomaterials</i> , 2012 , 33, 8040-6	15.6	23
8	Synthesis of photodegradable hydrogels as dynamically tunable cell culture platforms. <i>Nature Protocols</i> , 2010 , 5, 1867-87	18.8	216

7	Controlled two-photon photodegradation of PEG hydrogels to study and manipulate subcellular interactions on soft materials. <i>Soft Matter</i> , 2010 , 6, 5100-5108	3.6	102
6	Tunable hydrogels for external manipulation of cellular microenvironments through controlled photodegradation. <i>Advanced Materials</i> , 2010 , 22, 61-6	24	180
5	Hydrogels as extracellular matrix mimics for 3D cell culture. <i>Biotechnology and Bioengineering</i> , 2009 , 103, 655-63	4.9	1816
4	Human neutrophil elastase responsive delivery from poly(ethylene glycol) hydrogels. <i>Biomacromolecules</i> , 2009 , 10, 1484-9	6.9	87
3	Dynamic and reconfigurable materials from reversible network interactions. <i>Nature Reviews Materials</i> ,	73.3	10
2	3D Confinement Regulates Cell Life and Death. <i>Advanced Functional Materials</i> , 2104098	15.6	1
1	Continuous Production of Acoustically Patterned Cells Within Hydrogel Fibers for Musculoskeletal Tissue Engineering. <i>Advanced Functional Materials</i> , 2113038	15.6	2