

Mark W Tibbitt

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

8,241
citations

101384

36
h-index

95083

68
g-index

77
all docs

77
docs citations

77
times ranked

12379
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of coagulation factors during long-term ex situ liver perfusion. <i>Artificial Organs</i> , 2022, 46, 273-280.	1.0	7
2	Biopolymer NanoNetwork for Antimicrobial Peptide Protection and Local Delivery. <i>Advanced Healthcare Materials</i> , 2022, 11, e2101426.	3.9	12
3	Dynamic and reconfigurable materials from reversible network interactions. <i>Nature Reviews Materials</i> , 2022, 7, 541-556.	23.3	105
4	Supramolecular Reinforcement of Polymer-Nanoparticle Hydrogels for Modular Materials Design. <i>Advanced Materials</i> , 2022, 34, e2106941.	11.1	28
5	Continuous Production of Acoustically Patterned Cells Within Hydrogel Fibers for Musculoskeletal Tissue Engineering. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	15
6	Transplantation of a human liver following 3 days of ex situ normothermic preservation. <i>Nature Biotechnology</i> , 2022, 40, 1610-1616.	9.4	70
7	Polymer functionalization of inorganic nanoparticles for biomedical applications. <i>Current Opinion in Chemical Engineering</i> , 2022, 37, 100849.	3.8	11
8	Environment Controls Biomolecule Release from Dynamic Covalent Hydrogels. <i>Biomacromolecules</i> , 2021, 22, 146-157.	2.6	40
9	Bile formation in long-term ex situ perfused livers. <i>Surgery</i> , 2021, 169, 894-902.	1.0	11
10	Supramolecular engineering of hydrogels for drug delivery. <i>Advanced Drug Delivery Reviews</i> , 2021, 171, 240-256.	6.6	164
11	Automated Insulin Delivery - Continuous Blood Glucose Control During Ex Situ Liver Perfusion. <i>IEEE Transactions on Biomedical Engineering</i> , 2021, 68, 1399-1408.	2.5	7
12	Engineering Hydrogel Adhesion for Biomedical Applications via Chemical Design of the Junction. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 4048-4076.	2.6	89
13	Sources and prevention of graft infection during long-term ex situ liver perfusion. <i>Transplant Infectious Disease</i> , 2021, 23, e13623.	0.7	11
14	Long-term Normothermic Machine Preservation of Partial Livers: First Experience With 21 Human Hemi-livers. <i>Annals of Surgery</i> , 2021, 274, 836-842.	2.1	25
15	Hierarchical biomaterials via photopatterning-enhanced direct ink writing. <i>Biofabrication</i> , 2021, 13, 044105.	3.7	14
16	Additive manufacturing in drug delivery: Innovative drug product design and opportunities for industrial application. <i>Advanced Drug Delivery Reviews</i> , 2021, 178, 113990.	6.6	28
17	3D Confinement Regulates Cell Life and Death. <i>Advanced Functional Materials</i> , 2021, 31, 2104098.	7.8	28
18	Surface Tension-Assisted Additive Manufacturing of Tubular, Multicomponent Biomaterials. <i>Methods in Molecular Biology</i> , 2021, 2147, 149-160.	0.4	0

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19	Controlled delivery of gold nanoparticle-coupled miRNA therapeutics via an injectable self-healing hydrogel. <i>Nanoscale</i> , 2021, 13, 20451-20461.	2.8	15
20	Additive Manufacturing of Precision Biomaterials. <i>Advanced Materials</i> , 2020, 32, e1901994.	11.1	105
21	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.	2.5	16
22	Screening method to identify hydrogel formulations that facilitate myotube formation from encapsulated primary myoblasts. <i>Bioengineering and Translational Medicine</i> , 2020, 5, e10181.	3.9	9
23	Human Retinal Microvasculature-on-a-Chip for Drug Discovery. <i>Advanced Healthcare Materials</i> , 2020, 9, e2001531.	3.9	27
24	Bioprinting within live animals. <i>Nature Biomedical Engineering</i> , 2020, 4, 851-852.	11.6	7
25	Linking Molecular Behavior to Macroscopic Properties in Ideal Dynamic Covalent Networks. <i>Journal of the American Chemical Society</i> , 2020, 142, 15371-15385.	6.6	99
26	Hyperoxia in portal vein causes enhanced vasoconstriction in arterial vascular bed. <i>Scientific Reports</i> , 2020, 10, 20966.	1.6	9
27	Injectable Polymer-Nanoparticle Hydrogels for Local Immune Cell Recruitment. <i>Biomacromolecules</i> , 2019, 20, 4430-4436.	2.6	58
28	Injectable Biocompatible Hydrogels from Cellulose Nanocrystals for Locally Targeted Sustained Drug Release. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 38578-38585.	4.0	62
29	Polymer-Nanoparticle Hydrogels. <i>Chimia</i> , 2019, 73, 1034.	0.3	2
30	Universal Nanocarrier Ink Platform for Biomaterials Additive Manufacturing. <i>Small</i> , 2019, 15, e1905421.	5.2	34
31	Automated and Continuous Production of Polymeric Nanoparticles. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 423.	2.0	9
32	Matryoshka-Inspired Micro-Origami Capsules to Enhance Loading, Encapsulation, and Transport of Drugs. <i>Soft Robotics</i> , 2019, 6, 150-159.	4.6	25
33	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.	2.5	28
34	Design of moldable hydrogels for biomedical applications using dynamic covalent boronic esters. <i>Materials Today Chemistry</i> , 2019, 12, 16-33.	1.7	134
35	Thermal Stabilization of Biologics with Photoresponsive Hydrogels. <i>Biomacromolecules</i> , 2018, 19, 740-747.	2.6	30
36	Surface tension-assisted additive manufacturing. <i>Nature Communications</i> , 2018, 9, 1184.	5.8	47

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37	Engineering a 3D-Bioprinted Model of Human Heart Valve Disease Using Nanoindentation-Based Biomechanics. <i>Nanomaterials</i> , 2018, 8, 296.	1.9	81
38	<i>In vitro</i> 3D model and miRNA drug delivery to target calcific aortic valve disease. <i>Clinical Science</i> , 2017, 131, 181-195.	1.8	24
39	Ultrasmall Silica-Based Bismuth Gadolinium Nanoparticles for Dual Magnetic Resonance-Computed Tomography Image Guided Radiation Therapy. <i>Nano Letters</i> , 2017, 17, 1733-1740.	4.5	109
40	Correction to "Living Biomaterials". <i>Accounts of Chemical Research</i> , 2017, 50, 1493-1493.	7.6	0
41	Living Biomaterials. <i>Accounts of Chemical Research</i> , 2017, 50, 508-513.	7.6	54
42	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.	11.1	174
43	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.	3.3	78
44	Bioinspired Alkenyl Amino Alcohol Ionizable Lipid Materials for Highly Potent In Vivo mRNA Delivery. <i>Advanced Materials</i> , 2016, 28, 2939-2943.	11.1	172
45	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.	5.6	38
46	Emerging Frontiers in Drug Delivery. <i>Journal of the American Chemical Society</i> , 2016, 138, 704-717.	6.6	776
47	Progress in material design for biomedical applications. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 14444-14451.	3.3	201
48	Self-assembled hydrogels utilizing polymer-nanoparticle interactions. <i>Nature Communications</i> , 2015, 6, 6295.	5.8	425
49	Exploiting Electrostatic Interactions in Polymer-Nanoparticle Hydrogels. <i>ACS Macro Letters</i> , 2015, 4, 848-852.	2.3	95
50	In vitro model alveoli from photodegradable microsphere templates. <i>Biomaterials Science</i> , 2015, 3, 821-832.	2.6	48
51	Mechanical memory and dosing influence stem cell fate. <i>Nature Materials</i> , 2014, 13, 645-652.	13.3	943
52	Mechanical Properties and Degradation of Chain and Step-Polymerized Photodegradable Hydrogels. <i>Macromolecules</i> , 2013, 46, 2785-2792.	2.2	147
53	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.	3.2	43
54	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, 19336-19341.	3.3	140

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55	Modeling controlled photodegradation in optically thick hydrogels. <i>Journal of Polymer Science Part A</i> , 2013, 51, 1899-1911.	2.5	37
56	Dynamic Microenvironments: The Fourth Dimension. <i>Science Translational Medicine</i> , 2012, 4, 160ps24.	5.8	144
57	Responsive culture platform to examine the influence of microenvironmental geometry on cell function in 3D. <i>Integrative Biology (United Kingdom)</i> , 2012, 4, 1540.	0.6	47
58	Photocontrolled Nanoparticles for On-Demand Release of Proteins. <i>Biomacromolecules</i> , 2012, 13, 2219-2224.	2.6	94
59	Light activated cell migration in synthetic extracellular matrices. <i>Biomaterials</i> , 2012, 33, 8040-8046.	5.7	26
60	Tunable Hydrogels for External Manipulation of Cellular Microenvironments through Controlled Photodegradation. <i>Advanced Materials</i> , 2010, 22, 61-66.	11.1	196
61	Synthesis of photodegradable hydrogels as dynamically tunable cell culture platforms. <i>Nature Protocols</i> , 2010, 5, 1867-1887.	5.5	242
62	Controlled two-photon photodegradation of PEG hydrogels to study and manipulate subcellular interactions on soft materials. <i>Soft Matter</i> , 2010, 6, 5100.	1.2	117
63	Hydrogels as extracellular matrix mimics for 3D cell culture. <i>Biotechnology and Bioengineering</i> , 2009, 103, 655-663.	1.7	2,244
64	Human Neutrophil Elastase Responsive Delivery from Poly(ethylene glycol) Hydrogels. <i>Biomacromolecules</i> , 2009, 10, 1484-1489.	2.6	98