Christopher B Highley

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/1989881/publications.pdf

Version: 2024-02-01

34 papers	5,292 citations	236612 25 h-index	414034 32 g-index
38 all docs	38 docs citations	38 times ranked	7105 citing authors

#	Article	IF	Citations
1	Direct 3D Printing of Shearâ€Thinning Hydrogels into Selfâ€Healing Hydrogels. Advanced Materials, 2015, 27, 5075-5079.	11.1	831
2	Biofabrication strategies for 3D in vitro models and regenerative medicine. Nature Reviews Materials, 2018, 3, 21-37.	23.3	502
3	3D Printing of Shear-Thinning Hyaluronic Acid Hydrogels with Secondary Cross-Linking. ACS Biomaterials Science and Engineering, 2016, 2, 1743-1751.	2.6	473
4	Recent advances in hyaluronic acid hydrogels for biomedical applications. Current Opinion in Biotechnology, 2016, 40, 35-40.	3.3	441
5	A Generalizable Strategy for the 3D Bioprinting of Hydrogels from Nonviscous Photoâ€crosslinkable Inks. Advanced Materials, 2017, 29, 1604983.	11.1	414
6	Jammed Microgel Inks for 3D Printing Applications. Advanced Science, 2019, 6, 1801076.	5.6	270
7	The prevention of peritoneal adhesions by in situ cross-linking hydrogels of hyaluronic acid and cellulose derivatives. Biomaterials, 2007, 28, 975-983.	5.7	239
8	Injectable and Cytocompatible Tough Doubleâ€Network Hydrogels through Tandem Supramolecular and Covalent Crosslinking. Advanced Materials, 2016, 28, 8419-8424.	11.1	233
9	Threeâ€dimensional extrusion bioprinting of singleâ€and doubleâ€network hydrogels containing dynamic covalent crosslinks. Journal of Biomedical Materials Research - Part A, 2018, 106, 865-875.	2.1	218
10	Intracellular Drug Delivery by Poly(lactic-co-glycolic acid) Nanoparticles, Revisited. Molecular Pharmaceutics, 2009, 6, 190-201.	2.3	210
11	In situ cross-linkable hyaluronic acid hydrogels prevent post-operative abdominal adhesions in a rabbit model. Biomaterials, 2006, 27, 4698-4705.	5.7	205
12	3D Printing in Suspension Baths: Keeping the Promises of Bioprinting Afloat. Trends in Biotechnology, 2020, 38, 584-593.	4.9	183
13	Complex 3Dâ€Printed Microchannels within Cellâ€Degradable Hydrogels. Advanced Functional Materials, 2018, 28, 1801331.	7.8	171
14	Dextran-based in situ cross-linked injectable hydrogels to prevent peritoneal adhesions. Biomaterials, 2007, 28, 3418-3426.	5.7	126
15	Anti-inflammatory function of an in situ cross-linkable conjugate hydrogel of hyaluronic acid and dexamethasone. Biomaterials, 2007, 28, 1778-1786.	5.7	115
16	In Situ Cross-linkable Hyaluronan Hydrogels Containing Polymeric Nanoparticles for Preventing Postsurgical Adhesions. Annals of Surgery, 2007, 245, 819-824.	2.1	95
17	One-Step Generation of Multifunctional Polyelectrolyte Microcapsules via Nanoscale Interfacial Complexation in Emulsion (NICE). ACS Nano, 2015, 9, 8269-8278.	7.3	70
18	3D printing of photocurable poly(glycerol sebacate) elastomers. Biofabrication, 2016, 8, 045004.	3.7	67

#	Article	IF	Citations
19	Peritoneal application of chitosan and UVâ€crossâ€linkable chitosan. Journal of Biomedical Materials Research - Part A, 2006, 78A, 668-675.	2.1	60
20	Enhanced cellular uptake and long-term retention of chitosan-modified iron-oxide nanoparticles for MRI-based cell tracking. International Journal of Nanomedicine, 2012, 7, 4613.	3.3	53
21	Peritoneal adhesion prevention with an in situ cross-linkable hyaluronan gel containing tissue-type plasminogen activator in a rabbit repeated-injury model. Biomaterials, 2007, 28, 3704-3713.	5.7	47
22	Norbornene-modified poly(glycerol sebacate) as a photocurable and biodegradable elastomer. Polymer Chemistry, 2017, 8, 5091-5099.	1.9	46
23	Rutheniumâ€Crosslinked Hydrogels with Rapid, Visibleâ€Light Degradation. Chemistry - A European Journal, 2018, 24, 2328-2333.	1.7	36
24	Microfluidic system with integrated microinjector for automated Drosophila embryo injection. Lab on A Chip, 2012, 12, 4911.	3.1	30
25	Guestâ€“Host Supramolecular Assembly of Injectable Hydrogel Nanofibers for Cell Encapsulation. ACS Biomaterials Science and Engineering, 2021, 7, 4164-4174.	2.6	28
26	Direct and cell signaling-based, geometry-induced neuronal differentiation of neural stem cells. Integrative Biology (United Kingdom), 2011, 3, 1207.	0.6	27
27	Ordered, adherent layers of nanofibers enabled by supramolecular interactions. Journal of Materials Chemistry B, 2014, 2, 8110-8115.	2.9	22
28	Evolution of hierarchical porous structures in supramolecular guestâ€“host hydrogels. Soft Matter, 2016, 12, 7839-7847.	1.2	21
29	Near-infrared light triggered release of molecules from supramolecular hydrogel-nanorod composites. Nanomedicine, 2016, 11, 1579-1590.	1.7	20
30	Electrospun hydrogels for dynamic culture systems: advantages, progress, and opportunities. Biomaterials Science, 2021, 9, 4228-4245.	2.6	15
31	Selective and Improved Photoannealing of Microporous Annealed Particle (MAP) Scaffolds. ACS Biomaterials Science and Engineering, 2021, 7, 422-427.	2.6	14
32	User-defined, temporal presentation of bioactive molecules on hydrogel substrates using supramolecular coiled coil complexes. Biomaterials Science, 2021, 9, 4374-4387.	2.6	7
33	3D Bioprinting Technologies. , 2019, , 1-66.		1
34	Frontispiece: Rutheniumâ€Crosslinked Hydrogels with Rapid, Visibleâ€Light Degradation. Chemistry - A European Journal, 2018, 24, .	1.7	0