Chien-Chi Lin

List of Publications by Year
in descending order

77 papers	6,319 citations	109137 35 h-index	76769 74 g-index
80 all docs	80 docs citations	80 times ranked	7526 citing authors

#	Article	IF	Citations
1	Hydrogels in controlled release formulations: Network design and mathematical modeling. Advanced Drug Delivery Reviews, 2006, 58, 1379-1408.	6.6	1,429
2	PEG Hydrogels for the Controlled Release of Biomolecules in Regenerative Medicine. Pharmaceutical Research, 2009, 26, 631-643.	1.7	846
3	The performance of human mesenchymal stem cells encapsulated in cell-degradable polymer-peptide hydrogels. Biomaterials, 2011, 32, 3564-3574.	5.7	323
4	PEG hydrogels formed by thiol-ene photo-click chemistry and their effect on the formation and recovery of insulin-secreting cell spheroids. Biomaterials, 2011, 32, 9685-9695.	5.7	234
5	Cross-Linking and Degradation of Step-Growth Hydrogels Formed by Thiolâ€“Ene Photoclick Chemistry. Biomacromolecules, 2012, 13, 2003-2012.	2.6	224
6	Gelatin hydrogels formed by orthogonal thiolâ€“norbornene photochemistry for cell encapsulation. Biomaterials Science, 2014, 2, 1063-1072.	2.6	193
7	Visibleâ€Lightâ€Mediated Thiolâ€Ene Hydrogelation Using Eosinâ€Y as the Only Photoinitiator. Macromolecular Rapid Communications, 2013, 34, 269-273.	2.0	170
8	Cellâ€“cell communication mimicry with poly(ethylene glycol) hydrogels for enhancing Î²-cell function. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 6380-6385.	3.3	161
9	Thiolâ€“norbornene photoclick hydrogels for tissue engineering applications. Journal of Applied Polymer Science, 2015, 132, .	1.3	160
10	Functional PEGâ€“peptide hydrogels to modulate local inflammation inducedby the pro-inflammatory cytokine TNFÎ±. Biomaterials, 2009, 30, 4907-4914.	5.7	140
11	Controlling Affinity Binding with Peptideâ€Functionalized Poly(ethylene glycol) Hydrogels. Advanced Functional Materials, 2009, 19, 2325-2331.	7.8	125
12	A Microwell Cell Culture Platform for the Aggregation of Pancreatic Î²-Cells. Tissue Engineering - Part C: Methods, 2012, 18, 583-592.	1.1	113
13	Biomimetic and enzyme-responsive dynamic hydrogels for studying cell-matrix interactions in pancreatic ductal adenocarcinoma. Biomaterials, 2018, 160, 24-36.	5.7	97
14	Glucagon-Like Peptide-1 Functionalized PEG Hydrogels Promote Survival and Function of Encapsulated Pancreatic Î²-Cells. Biomacromolecules, 2009, 10, 2460-2467.	2.6	95
15	Visible light cured thiol-vinyl hydrogels with tunable degradation for 3D cell culture. Acta Biomaterialia, 2014, 10, 104-114.	4.1	93
16	On-resin peptide macrocyclization using thiolâ€“ene click chemistry. Chemical Communications, 2010, 46, 4061.	2.2	87
17	Recent advances in crosslinking chemistry of biomimetic poly(ethylene glycol) hydrogels. RSC Advances, 2015, 5, 39844-39853.	1.7	82
18	The influence of matrix properties on growth and morphogenesis ofÂhuman pancreatic ductal epithelial cells in 3D. Biomaterials, 2013, 34, 5117-5127.	5.7	77

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19	Recent advances in bio-orthogonal and dynamic crosslinking of biomimetic hydrogels. Journal of Materials Chemistry B, 2020, 8, 7835-7855.	2.9	66
20	Micropatterning proteins and cells on polylactic acid and poly(lactide-co-glycolide). Biomaterials, 2005, 26, 3655-3662.	5.7	65
21	Thiol-ene hydrogels as desmoplasia-mimetic matrices for modeling pancreatic cancer cell growth, invasion, and drug resistance. Biomaterials, 2014, 35, 9668-9677.	5.7	65
22	Enzyme-mediated stiffening hydrogels for probing activation of pancreatic stellate cells. Acta Biomaterialia, 2017, 48, 258-269.	4.1	64
23	Regulating MCP-1 diffusion in affinity hydrogels for enhancing immuno-isolation. Journal of Controlled Release, 2010, 142, 384-391.	4.8	60
24	Photoclick Hydrogels Prepared from Functionalized Cyclodextrin and Poly(ethylene glycol) for Drug Delivery and in Situ Cell Encapsulation. Biomacromolecules, 2015, 16, 1915-1923.	2.6	60
25	Interfacial Thiol-ene Photoclick Reactions for Forming Multilayer Hydrogels. ACS Applied Materials & Interfaces, 2013, 5, 1673-1680.	4.0	58
26	Dynamic control of hydrogel crosslinking via sortase-mediated reversible transpeptidation. Acta Biomaterialia, 2019, 83, 83-95.	4.1	57
27	Free-Radical-Mediated Protein Inactivation and Recovery during Protein Photoencapsulation. Biomacromolecules, 2008, 9, 75-83.	2.6	56
28	Modular Cross-Linking of Gelatin-Based Thiolâ€"Norbornene Hydrogels for <i>in Vitro</i> 3D Culture of Hepatocellular Carcinoma Cells. ACS Biomaterials Science and Engineering, 2015, 1, 1314-1323.	2.6	56
29	Modular and Adaptable Tumor Niche Prepared from Visible Light Initiated Thiol-Norbornene Photopolymerization. Biomacromolecules, 2016, 17, 3872-3882.	2.6	50
30	Metal-chelating affinity hydrogels for sustained protein release. Journal of Biomedical Materials Research - Part A, 2007, 83A, 954-964.	2.1	49
31	Enhanced Protein Delivery from Photopolymerized Hydrogels Using a Pseudospecific Metal Chelating Ligand. Pharmaceutical Research, 2006, 23, 614-622.	1.7	47
32	Tuning stiffness of cell-laden hydrogel via hostâ€"guest interactions. Journal of Materials Chemistry B, 2016, 4, 4969-4974.	2.9	46
33	Bifunctional Monolithic Affinity Hydrogels for Dual-Protein Delivery. Biomacromolecules, 2008, 9, 789-795.	2.6	40
34	The Influence of Matrix Degradation and Functionality on Cell Survival and Morphogenesis in <scp>PEG</scp>â€<scp>B</scp>ased Hydrogels. Macromolecular Bioscience, 2013, 13, 1048-1058.	2.1	40
35	Degradable thiol-acrylate hydrogels as tunable matrices for three-dimensional hepatic culture. Journal of Biomedical Materials Research - Part A, 2014, 102, 3813-3827.	2.1	40
36	Comparative study of visible light polymerized gelatin hydrogels for 3D culture of hepatic progenitor cells. Journal of Applied Polymer Science, 2017, 134, .	1.3	38

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37	Affinity Peptides Protect Transforming Growth Factor Beta During Encapsulation in Poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock	2.6	36
38	Dual mode gelation behavior of silk fibroin microgel embedded poly(ethylene glycol) hydrogels. Journal of Materials Chemistry B, 2016, 4, 4574-4584.	2.9	36
39	Effect of 3D Matrix Compositions on the Efficacy of EGFR Inhibition in Pancreatic Ductal Adenocarcinoma Cells. Biomacromolecules, 2013, 14, 3017-3026.	2.6	35
40	Salubrinal reduces expression and activity of MMP13 in chondrocytes. Osteoarthritis and Cartilage, 2013, 21, 764-772.	0.6	35
41	Manipulating hepatocellular carcinoma cell fate in orthogonally cross-linked hydrogels. Biomaterials, 2014, 35, 6898-6906.	5.7	34
42	Knee loading reduces MMP13 activity in the mouse cartilage. BMC Musculoskeletal Disorders, 2013, 14, 312.	0.8	33
43	Orthogonal enzymatic reactions for rapid crosslinking and dynamic tuning of PEGâ€"peptide hydrogels. Biomaterials Science, 2017, 5, 2231-2240.	2.6	33
44	Facile preparation of photodegradable hydrogels by photopolymerization. Polymer, 2013, 54, 2115-2122.	1.8	32
45	Preventing tumor progression to the bone by induced tumor-suppressing MSCs. Theranostics, 2021, 11, 5143-5159.	4.6	30
46	PEGâ€Based Microgels Formed by Visibleâ€Lightâ€Mediated Thiolâ€Ene Photoâ€Click Reactions. Macromolecular Chemistry and Physics, 2014, 215, 507-515.	1.1	27
47	Improving gelation efficiency and cytocompatibility of visible light polymerized thiol-norbornene hydrogels via addition of soluble tyrosine. Biomaterials Science, 2017, 5, 589-599.	2.6	27
48	Enzyme-immobilized hydrogels to create hypoxia for in vitro cancer cell culture. Journal of Biotechnology, 2017, 248, 25-34.	1.9	26
49	Visible light-initiated interfacial thiol-norbornene photopolymerization for forming an islet surface conformal coating. Journal of Materials Chemistry B, 2015, 3, 170-175.	2.9	24
50	Enzymatic Cross-Linking of Dynamic Thiol-Norbornene Click Hydrogels. ACS Biomaterials Science and Engineering, 2019, 5, 1247-1256.	2.6	24
51	Designer hydrogels: Shedding light on the physical chemistry of the pancreatic cancer microenvironment. Cancer Letters, 2018, 436, 22-27.	3.2	22
52	Dynamic PEGâ€"Peptide Hydrogels via Visible Light and FMNâ€Induced Tyrosine Dimerization. Advanced Healthcare Materials, 2018, 7, e1800954.	3.9	20
53	Designing Visible Lightâ€Cured Thiolâ€Acrylate Hydrogels for Studying the HIPPO Pathway Activation in Hepatocellular Carcinoma Cells. Macromolecular Bioscience, 2016, 16, 496-507.	2.1	19
54	Dual Functionalization of Gelatin for Orthogonal and Dynamic Hydrogel Cross-Linking. ACS Biomaterials Science and Engineering, 2021, 7, 4196-4208.	2.6	19

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55	Facile Synthesis of Rapidly Degrading PEG-Based Thiol-Norbornene Hydrogels. ACS Macro Letters, 2021, 10, 341-345.	2.3	18
56	Dynamic Click Hydrogels for Xenoâ€Free Culture of Induced Pluripotent Stem Cells. Advanced Biology, 2020, 4, e2000129.	3.0	17
57	In situ formation of silk-gelatin hybrid hydrogels for affinity-based growth factor sequestration and release. RSC Advances, 2016, 6, 114353-114360.	1.7	15
58	Biomimetic stiffening of cell-laden hydrogels via sequential thiol-ene and hydrazone click reactions. Acta Biomaterialia, 2021, 130, 161-171.	4.1	13
59	Norbornene-functionalized methylcellulose as a thermo- and photo-responsive bioink. Biofabrication, 2021, 13, 045023.	3.7	13
60	Dissolvable microgel-templated macroporous hydrogels for controlled cell assembly. Materials Science and Engineering C, 2022, 134, 112712.	3.8	13
61	The Biodegradation of Biodegradable Polymeric Biomaterials. , 2013, , 716-728.		12
62	Probing Osteocyte Functions in Gelatin Hydrogels with Tunable Viscoelasticity. Biomacromolecules, 2021, 22, 1115-1126.	2.6	12
63	Hydrogel Models with Stiffness Gradients for Interrogating Pancreatic Cancer Cell Fate. Bioengineering, 2021, 8, 37.	1.6	11
64	Modulating properties of chemically crosslinked PEG hydrogels via physical entrapment of silk fibroin. Journal of Applied Polymer Science, 2016, 133, .	1.3	10
65	A Diffusion-Reaction Model for Predicting Enzyme-Mediated Dynamic Hydrogel Stiffening. Gels, 2019, 5, 17.	2.1	10
66	Clickable modular polysaccharide nanoparticles for selective cell-targeting. Carbohydrate Polymers, 2020, 234, 115901.	5.1	10
67	Stabilization of enzyme-immobilized hydrogels for extended hypoxic cell culture. Emergent Materials, 2019, 2, 263-272.	3.2	9
68	Engineering Tools for Regulating Hypoxia in Tumour Models. Journal of Cellular and Molecular Medicine, 2021, 25, 7581-7592.	1.6	9
69	Injectable Acylhydrazoneâ€Linked RAFT Polymer Hydrogels for Sustained Protein Release and Cell Encapsulation. Advanced Healthcare Materials, 2022, 11, e2101284.	3.9	6
70	Assessing monocyte phenotype in poly(Î³-glutamic acid) hydrogels formed by orthogonal thiolâ€"norbornene chemistry. Biomedical Materials (Bristol), 2021, 16, 045027.	1.7	5
71	Biodegradable Hydrogels. , 2007, , 5-1-5-44.		4
72	Tumor Cell Secretomes in Response to Anti- and Pro-Tumorigenic Agents. Onco, 2021, 1, 101-113.	0.2	4

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73	Generation of the Chondroprotective Proteomes by Activating PI3K and TNFÎ± Signaling. Cancers, 2022, 14, 3039.	1.7	4
74	Generation and Recovery of β-cell Spheroids From Step-growth PEG-peptide Hydrogels. Journal of Visualized Experiments, 2012, , e50081.	0.2	3
75	Functionalized poly(ethylene glycol) hydrogels for controlling stem cell fate. , 0, , 263-278.		0
76	Macromol. Biosci. 4/2016. Macromolecular Bioscience, 2016, 16, 628-628.	2.1	0
77	Modeling Drug Release from Synthetic Hydrogels. , 2016, , 1-33.		0