Ryan G Wylie

List of Publications by Year
in descending order

31 papers	1,754 citations	567281 15 h-index	434195 31 g-index
31 all docs	31 docs citations	31 times ranked	3182 citing authors

#	Article	IF	Citations
1	Real-time evaluation of a hydrogel delivery vehicle for cancer immunotherapeutics within embedded spheroid cultures. Journal of Controlled Release, 2022, 348, 386-396.	9.9	2
2	Modulating the Thermoresponse of Polymer-Protein Conjugates with Hydrogels for Controlled Release. Polymers, 2021, 13, 2772.	4.5	5
3	Graft-Then-Shrink: Simultaneous Generation of Antifouling Polymeric Interfaces and Localized Surface Plasmon Resonance Biosensors. ACS Applied Materials & Interfaces, 2021, 13, 52362-52373.	8.0	7
4	Controlling Experimental Parameters to Improve Characterization of Biomaterial Fouling. Frontiers in Chemistry, 2020, 8, 604236.	3.6	9
5	Molecular Mechanism for the Suppression of Alpha Synuclein Membrane Toxicity by an Unconventional Extracellular Chaperone. Journal of the American Chemical Society, 2020, 142, 9686-9699.	13.7	15
6	The Rational Development of CD133-Targeting Immunotherapies for Glioblastoma. Cell Stem Cell, 2020, 26, 832-844.e6.	11.1	114
7	Fabrication of low-fouling, high-loading polymeric surfaces through pH-controlled RAFT. RSC Advances, 2020, 10, 20302-20312.	3.6	3
8	Displacement Affinity Release of Antibodies from Injectable Hydrogels. ACS Applied Materials & Interfaces, 2019, 11, 30648-30660.	8.0	11
9	Tunable degradation of low-fouling carboxybetaine-hyaluronic acid hydrogels for applications in cell encapsulation. Biomedical Materials (Bristol), 2019, 14, 055003.	3.3	3
10	Controlled degradation of low-fouling poly(oligo(ethylene glycol)methyl ether methacrylate) hydrogels. RSC Advances, 2019, 9, 18978-18988.	3.6	4
11	Advancements in Canadian Biomaterials Research in Neurotraumatic Diagnosis and Therapies. Processes, 2019, 7, 336.	2.8	2
12	Atomic resolution map of the soluble amyloid beta assembly toxic surfaces. Chemical Science, 2019, 10, 6072-6082.	7.4	48
13	Influence of Hydrophobic Cross-Linkers on Carboxybetaine Copolymer Stimuli Response and Hydrogel Biological Properties. Langmuir, 2019, 35, 1631-1641.	3.5	17
14	Improved Efficacy of Antibody Cancer Immunotherapeutics through Local and Sustained Delivery. ChemBioChem, 2019, 20, 747-753.	2.6	12
15	Hydrogels with reversible chemical environments for in vitro cell culture. Biomedical Materials (Bristol), 2018, 13, 045002.	3.3	9
16	Competitive Affinity Release for Longâ€Term Delivery of Antibodies from Hydrogels. Angewandte Chemie - International Edition, 2018, 57, 3406-3410.	13.8	32
17	Competitive Affinity Release for Longâ€Term Delivery of Antibodies from Hydrogels. Angewandte Chemie, 2018, 130, 3464-3468.	2.0	8
18	Photolithographically assembled polyelectrolyte complexes as shape-directing templates for thermoreversible gels. Journal of Materials Chemistry B, 2018, 6, 7594-7604.	5.8	2

#	Article	IF	Citations
19	Antibody-modified conduits for highly selective cytokine elimination from blood. JCI Insight, 2018, 3, .	5.0	4
20	Selective binding of C-6 OH sulfated hyaluronic acid to the angiogenic isoform of VEGF165. Biomaterials, 2016, 77, 130-138.	11.4	44
21	Efficient Tripletâ€“Triplet Annihilation-Based Upconversion for Nanoparticle Phototargeting. Nano Letters, 2015, 15, 6332-6338.	9.1	101
22	Three Dimensional Hydrogel Scaffolds and Applications in the CNS. FASEB Journal, 2015, 29, 13.2.	0.5	2
23	Enhanced Photothermal Effect of Plasmonic Nanoparticles Coated with Reduced Graphene Oxide. Nano Letters, 2013, 13, 4075-4079.	9.1	273
24	Three-Dimensional Spatial Patterning of Proteins in Hydrogels. Biomacromolecules, 2011, 12, 3789-3796.	5.4	64
25	Spatially controlled simultaneous patterning of multiple growth factors in three-dimensional hydrogels. Nature Materials, 2011, 10, 799-806.	27.5	449
26	Transport of epidermal growth factor in the stroke-injured brain. Journal of Controlled Release, 2011, 149, 225-235.	9.9	22
27	Differentiation of neural stem cells in three-dimensional growth factor-immobilized chitosan hydrogel scaffolds. Biomaterials, 2011, 32, 57-64.	11.4	181
28	The use of vascular endothelial growth factor functionalized agarose to guide pluripotent stem cell aggregates toward blood progenitor cells. Biomaterials, 2010, 31, 8262-8270.	11.4	65
29	Endothelial Cell Guidance in 3D Patterned Scaffolds. Advanced Materials, 2010, 22, 4831-4835.	21.0	93
30	Synthesis, Polymerization, and Unusual Properties of New Star-Shaped Thiophene Oligomers. Organic Letters, 2009, 11, 3230-3233.	4.6	85
31	Two-photon micropatterning of amines within an agarose hydrogel. Journal of Materials Chemistry, 2008, 18, 2716.	6.7	68