

Ryan G Wylie

List of Publications by Year in descending order

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Version: 2024-02-01

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	Spatially controlled simultaneous patterning of multiple growth factors in three-dimensional hydrogels. <i>Nature Materials</i> , 2011, 10, 799-806.	27.5	449
2	Enhanced Photothermal Effect of Plasmonic Nanoparticles Coated with Reduced Graphene Oxide. <i>Nano Letters</i> , 2013, 13, 4075-4079.	9.1	273
3	Differentiation of neural stem cells in three-dimensional growth factor-immobilized chitosan hydrogel scaffolds. <i>Biomaterials</i> , 2011, 32, 57-64.	11.4	181
4	The Rational Development of CD133-Targeting Immunotherapies for Glioblastoma. <i>Cell Stem Cell</i> , 2020, 26, 832-844.e6.	11.1	114
5	Efficient Triplet-Triplet Annihilation-Based Upconversion for Nanoparticle Phototargeting. <i>Nano Letters</i> , 2015, 15, 6332-6338.	9.1	101
6	Endothelial Cell Guidance in 3D Patterned Scaffolds. <i>Advanced Materials</i> , 2010, 22, 4831-4835.	21.0	93
7	Synthesis, Polymerization, and Unusual Properties of New Star-Shaped Thiophene Oligomers. <i>Organic Letters</i> , 2009, 11, 3230-3233.	4.6	85
8	Two-photon micropatterning of amines within an agarose hydrogel. <i>Journal of Materials Chemistry</i> , 2008, 18, 2716.	6.7	68
9	The use of vascular endothelial growth factor functionalized agarose to guide pluripotent stem cell aggregates toward blood progenitor cells. <i>Biomaterials</i> , 2010, 31, 8262-8270.	11.4	65
10	Three-Dimensional Spatial Patterning of Proteins in Hydrogels. <i>Biomacromolecules</i> , 2011, 12, 3789-3796.	5.4	64
11	Atomic resolution map of the soluble amyloid beta assembly toxic surfaces. <i>Chemical Science</i> , 2019, 10, 6072-6082.	7.4	48
12	Selective binding of C-6 OH sulfated hyaluronic acid to the angiogenic isoform of VEGF165. <i>Biomaterials</i> , 2016, 77, 130-138.	11.4	44
13	Competitive Affinity Release for Long-Term Delivery of Antibodies from Hydrogels. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 3406-3410.	13.8	32
14	Transport of epidermal growth factor in the stroke-injured brain. <i>Journal of Controlled Release</i> , 2011, 149, 225-235.	9.9	22
15	Influence of Hydrophobic Cross-Linkers on Carboxybetaine Copolymer Stimuli Response and Hydrogel Biological Properties. <i>Langmuir</i> , 2019, 35, 1631-1641.	3.5	17
16	Molecular Mechanism for the Suppression of Alpha Synuclein Membrane Toxicity by an Unconventional Extracellular Chaperone. <i>Journal of the American Chemical Society</i> , 2020, 142, 9686-9699.	13.7	15
17	Improved Efficacy of Antibody Cancer Immunotherapeutics through Local and Sustained Delivery. <i>ChemBioChem</i> , 2019, 20, 747-753.	2.6	12
18	Displacement Affinity Release of Antibodies from Injectable Hydrogels. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 30648-30660.	8.0	11

#	ARTICLE	IF	CITATIONS
19	Hydrogels with reversible chemical environments for <i>in vitro</i> cell culture. Biomedical Materials (Bristol), 2018, 13, 045002.	3.3	9
20	Controlling Experimental Parameters to Improve Characterization of Biomaterial Fouling. Frontiers in Chemistry, 2020, 8, 604236.	3.6	9
21	Competitive Affinity Release for Long-Term Delivery of Antibodies from Hydrogels. Angewandte Chemie, 2018, 130, 3464-3468.	2.0	8
22	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
23	Modulating the Thermoresponse of Polymer-Protein Conjugates with Hydrogels for Controlled Release. Polymers, 2021, 13, 2772.	4.5	5
24	Antibody-modified conduits for highly selective cytokine elimination from blood. JCI Insight, 2018, 3, .	5.0	4
25	Controlled degradation of low-fouling poly(oligo(ethylene glycol)methyl ether methacrylate) hydrogels. RSC Advances, 2019, 9, 18978-18988.	3.6	4
26	Tunable degradation of low-fouling carboxybetaine-hyaluronic acid hydrogels for applications in cell encapsulation. Biomedical Materials (Bristol), 2019, 14, 055003.	3.3	3
27	Fabrication of low-fouling, high-loading polymeric surfaces through pH-controlled RAFT. RSC Advances, 2020, 10, 20302-20312.	3.6	3
28	Photolithographically assembled polyelectrolyte complexes as shape-directing templates for thermoreversible gels. Journal of Materials Chemistry B, 2018, 6, 7594-7604.	5.8	2
29	Advancements in Canadian Biomaterials Research in Neurotraumatic Diagnosis and Therapies. Processes, 2019, 7, 336.	2.8	2
30	Three Dimensional Hydrogel Scaffolds and Applications in the CNS. FASEB Journal, 2015, 29, 13.2.	0.5	2
31	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