Adrianne M Rosales

List of Publications by Year
in descending order

28 papers	2,094 citations	430874 18 h-index	501196 28 g-index
33 all docs	33 docs citations	33 times ranked	3383 citing authors

#	Article	IF	Citations
1	The design of reversible hydrogels to capture extracellular matrix dynamics. Nature Reviews Materials, 2016, 1, .	48.7	554
2	Hydrogels with Reversible Mechanics to Probe Dynamic Cell Microenvironments. Angewandte Chemie - International Edition, 2017, 56, 12132-12136.	13.8	220
3	Photoresponsive Elastic Properties of Azobenzene-Containing Poly(ethylene-glycol)-Based Hydrogels. Biomacromolecules, 2015, 16, 798-806.	5.4	165
4	Engineering precision biomaterials for personalized medicine. Science Translational Medicine, 2018, 10, .	12.4	145
5	Hierarchical Self-Assembly of a Biomimetic Diblock Copolypeptoid into Homochiral Superhelices. Journal of the American Chemical Society, 2010, 132, 16112-16119.	13.7	142
6	Reversible Control of Network Properties in Azobenzene-Containing Hyaluronic Acid-Based Hydrogels. Bioconjugate Chemistry, 2018, 29, 905-913.	3.6	132
7	Polypeptoids: a model system to study the effect of monomer sequence on polymer properties and self-assembly. Soft Matter, 2013, 9, 8400.	2.7	126
8	Control of Crystallization and Melting Behavior in Sequence Specific Polypeptoids. Macromolecules, 2010, 43, 5627-5636.	4.8	97
9	Determination of the persistence length of helical and non-helical polypeptoids in solution. Soft Matter, 2012, 8, 3673.	2.7	83
10	Tunable biomaterials from synthetic, sequence-controlled polymers. Biomaterials Science, 2019, 7, 490-505.	5.4	54
11	Persistence length of polyelectrolytes with precisely located charges. Soft Matter, 2013, 9, 90-98.	2.7	50
12	Tunable Phase Behavior of Polystyreneâ€“Polypeptoid Block Copolymers. Macromolecules, 2012, 45, 6027-6035.	4.8	48
13	Impact of Helical Chain Shape in Sequence-Defined Polymers on Polypeptoid Block Copolymer Self-Assembly. Macromolecules, 2018, 51, 2089-2098.	4.8	42
14	Enhanced user-control of small molecule drug release from a poly(ethylene glycol) hydrogel via azobenzene/cyclodextrin complex tethers. Journal of Materials Chemistry B, 2016, 4, 1035-1039.	5.8	41
15	Dynamics of poly(ethylene glycol)-tethered, pH responsive networks. Polymer, 2007, 48, 5042-5048.	3.8	32
16	Preferential Control of Forward Reaction Kinetics in Hydrogels Crosslinked with Reversible Conjugate Additions. Macromolecules, 2020, 53, 3738-3746.	4.8	28
17	Effect of pH on the Properties of Hydrogels Cross-Linked via Dynamic Thia-Michael Addition Bonds. ACS Polymers Au, 2022, 2, 129-136.	4.1	22
18	Hydrogels with Reversible Mechanics to Probe Dynamic Cell Microenvironments. Angewandte Chemie, 2017, 129, 12300-12304.	2.0	19

#	Article	IF	Citations
19	Mechanism of Polymer-Mediated Cryopreservation Using Poly(methyl glycidyl sulfoxide). Biomacromolecules, 2020, 21, 3047-3055.	5.4	17
20	Genetic Control of Radical Cross-linking in a Semisynthetic Hydrogel. ACS Biomaterials Science and Engineering, 2020, 6, 1375-1386.	5.2	13
21	Phototunable interpenetrating polymer network hydrogels to stimulate the vasculogenesis of stem cell-derived endothelial progenitors. Acta Biomaterialia, 2021, 122, 133-144.	8.3	12
22	Synthetic hydrogels as blood clot mimicking wound healing materials. Progress in Biomedical Engineering, 2021, 3, 042006.	4.9	11
23	Assessing the range of enzymatic and oxidative tunability for biosensor design. Journal of Materials Chemistry B, 2020, 8, 3460-3487.	5.8	8
24	Tuning hydrogel properties with sequence-defined, non-natural peptoid crosslinkers. Journal of Materials Chemistry B, 2020, 8, 6925-6933.	5.8	7
25	Immunomodulatory functions of human mesenchymal stromal cells are enhanced when cultured on HEP/COL multilayers supplemented with interferon-gamma. Materials Today Bio, 2022, 13, 100194.	5.5	7
26	Poly-<scp>d</scp>-lysine coated nanoparticles to identify pro-inflammatory macrophages. Nanoscale Advances, 2020, 2, 3849-3857.	4.6	5
27	Snapshots of Lifeâ€"Early Career Materials Scientists Managing in the Midst of a Pandemic. Chemistry of Materials, 2020, 32, 3673-3677.	6.7	5
28	A deep learning approach to identify and segment alpha-smooth muscle actin stress fiber positive cells. Scientific Reports, 2021, 11, 21855.	3.3	5