Robert C Deller

List of Publications by Year
in descending order

16 papers	677 citations	759233 12 h-index	940533 16 g-index
16 all docs	16 docs citations	16 times ranked	1020 citing authors

#	Article	IF	Citations
1	Synthetic polymers enable non-vitreous cellular cryopreservation by reducing ice crystal growth during thawing. Nature Communications, 2014, 5, 3244.	12.8	242
2	Glycerol-Free Cryopreservation of Red Blood Cells Enabled by Ice-Recrystallization-Inhibiting Polymers. ACS Biomaterials Science and Engineering, 2015, 1, 789-794.	5.2	74
3	Ice recrystallisation inhibition by polyols: comparison of molecular and macromolecular inhibitors and role of hydrophobic units. Biomaterials Science, 2013, 1, 478.	5.4	56
4	Ice-recrystallization inhibiting polymers protect proteins against freeze-stress and enable glycerol-free cryostorage. Materials Horizons, 2019, 6, 364-368.	12.2	54
5	Enhanced non-vitreous cryopreservation of immortalized and primary cells by ice-growth inhibiting polymers. Biomaterials Science, 2016, 4, 1079-1084.	5.4	41
6	Uptake of poly(2-hydroxypropylmethacrylamide)-coated gold nanoparticles in microvascular endothelial cells and transport across the bloodâ€“brain barrier. Biomaterials Science, 2013, 1, 824.	5.4	30
7	Antimicrobial Nitric Oxide Releasing Contact Lens Gels for the Treatment of Microbial Keratitis. ACS Applied Materials & Interfaces, 2019, 11, 37491-37501.	8.0	30
8	Artificial cell membrane binding thrombin constructs drive in situ fibrin hydrogel formation. Nature Communications, 2019, 10, 1887.	12.8	30
9	Using molecular rotors to probe gelation. Soft Matter, 2015, 11, 3706-3713.	2.7	27
10	Synthesis and characterisation of glucose-functional glycopolymers and gold nanoparticles: study of their potential interactions with ovine red blood cells. Carbohydrate Research, 2015, 405, 47-54.	2.3	24
11	Gold nanoparticle interactions with endothelial cells cultured under physiological conditions. Biomaterials Science, 2017, 5, 707-717.	5.4	19
12	Exploiting Thermoresponsive Polymers to Modulate Lipophilicity: Interactions With Model Membranes. Macromolecular Rapid Communications, 2012, 33, 779-784.	3.9	13
13	Regulation of Scaffold Cell Adhesion Using Artificial Membrane Binding Proteins. Macromolecular Bioscience, 2017, 17, 1600523.	4.1	12
14	Functionalized Triblock Copolymer Vectors for the Treatment of Acute Lymphoblastic Leukemia. Molecular Pharmaceutics, 2017, 14, 722-732.	4.6	9
15	The effect of surface charge on the thermal stability and ice recrystallization inhibition activity of antifreeze protein III (AFP III). Biochemical and Biophysical Research Communications, 2018, 495, 1055-1060.	2.1	8
16	Antimicrobial Nitric Oxide-Releasing Electrospun Dressings for Wound Healing Applications. ACS Materials Au, 2022, 2, 190-203.	6.0	8