Jessica O Winter

List of Publications by Year
in descending order

68 papers	2,540 citations	236833 25 h-index	197736 49 g-index
83 all docs	83 docs citations	83 times ranked	4324 citing authors

#	Article	IF	Citations
1	Nanoparticles caged with DNA nanostructures. Current Opinion in Biotechnology, 2022, 74, 278-284.	3.3	10
2	Synthesis of polymer nanoparticles via electrohydrodynamic emulsification-mediated self-assembly. Journal of Colloid and Interface Science, 2021, 586, 445-456.	5.0	7
3	Effect of Micelle Encapsulation on Toxicity of CdSe/ZnS and Mn-Doped ZnSe Quantum Dots. Coatings, 2021, 11, 895.	1.2	5
4	Polymer Concentration Maximizes Encapsulation Efficiency in Electrohydrodynamic Mixing Nanoprecipitation. Frontiers in Nanotechnology, 2021, 3, .	2.4	9
5	Biomolecular detection, tracking, and manipulation using a magnetic nanoparticle-quantum dot platform. Journal of Materials Chemistry B, 2020, 8, 3534-3541.	2.9	11
6	Hyaluronic acid induces ROCK-dependent amoeboid migration in glioblastoma cells. Biomaterials Science, 2020, 8, 4821-4831.	2.6	12
7	Comparative Encapsulation Efficiency of Lutein in Micelles Synthesized via Batch and High Throughput Methods . International Journal of Nanomedicine, 2020, Volume 15, 8217-8230.	3.3	8
8	Self-assembly and sedimentation of 5Ânm SPIONs using horizontal, high magnetic fields and gradients. Separation and Purification Technology, 2020, 248, 117012.	3.9	12
9	Hybrid nanoparticle composites. Journal of Materials Chemistry B, 2020, 8, 4713-4714.	2.9	4
10	MicroRNA-mRNA Interactions at Low Levels of Compressive Solid Stress Implicate mir-548 in Increased Glioblastoma Cell Motility. Scientific Reports, 2020, 10, 311.	1.6	12
11	Reciprocal Control of Hierarchical DNA Origami-Nanoparticle Assemblies. Nano Letters, 2019, 19, 8469-8475.	4.5	30
12	Compact quantum dot surface modification to enable emergent behaviors in quantum dot-DNA composites. Journal of Chemical Physics, 2019, 151, 144706.	1.2	7
13	The path towards functional nanoparticle-DNA origami composites. Materials Science and Engineering Reports, 2019, 138, 153-209.	14.8	15
14	Effect of Electrospun Fiber Mat Thickness and Support Method on Cell Morphology. Nanomaterials, 2019, 9, 644.	1.9	12
15	Beyond Linear Elastic Modulus: Viscoelastic Models for Brain and Brain Mimetic Hydrogels. ACS Biomaterials Science and Engineering, 2019, 5, 3964-3973.	2.6	19
16	Fluorescence loss of commercial aqueous quantum dots during preparation for bioimaging. MRS Communications, 2019, 9, 702-709.	0.8	5
17	Electrohydrodynamic Mixing-Mediated Nanoprecipitation for Polymer Nanoparticle Synthesis. ACS Applied Polymer Materials, 2019, 1, 691-700.	2.0	17
18	Nanoparticle packing within block copolymer micelles prepared by the interfacial instability method. Soft Matter, 2018, 14, 3324-3335.	1.2	15

#	Article	IF	Citations
19	Magnetic Quantum Dots Steer and Detach Microtubules From Kinesinâ€Coated Surfaces. Biotechnology Journal, 2018, 13, 1700402.	1.8	2
20	Morphology of block copolymer micelles formed via electrospray enabled interfacial instability. Journal of Colloid and Interface Science, 2018, 512, 411-418.	5.0	9
21	Micelle-templated, poly(lactic-co-glycolic acid) nanoparticles for hydrophobic drug delivery. International Journal of Nanomedicine, 2018, Volume 13, 351-366.	3.3	16
22	Imaging Cellâ€“Matrix Interactions in 3D Collagen Hydrogel Culture Systems. Macromolecular Bioscience, 2017, 17, 1600478.	2.1	18
23	Mechanotransduction Effects on Endothelial Cell Proliferation via CD31 and VEGFR2: Implications for Immunomagnetic Separation. Biotechnology Journal, 2017, 12, 1600750.	1.8	14
24	Automated fluorescent miscroscopic image analysis of PTBP1 expression in glioma. PLoS ONE, 2017, 12, e0170991.	1.1	28
25	Steering microtubule shuttle transport with dynamically controlled magnetic fields. Nanoscale, 2016, 8, 8641-8649.	2.8	11
26	Surface topography during neural stem cell differentiation regulates cell migration and cell morphology. Journal of Comparative Neurology, 2016, 524, 3485-3502.	0.9	37
27	Surface topography during neural stem cell differentiation regulates cell migration and cell morphology. Journal of Comparative Neurology, 2016, 524, Spc1-Spc1.	0.9	1
28	Glioma-astrocyte interactions on white matter tract-mimetic aligned electrospun nanofibers. Biotechnology Progress, 2015, 31, 1406-1415.	1.3	24
29	Hydrogels that allow and facilitate bone repair, remodeling, and regeneration. Journal of Materials Chemistry B, 2015, 3, 7818-7830.	2.9	69
30	Towards Single Cell Pathway Component Analysis in Diagnostic Pathology: Digitized Image Analysis. FASEB Journal, 2015, 29, 762.3.	0.2	0
31	Micelle-templated composite quantum dots for super-resolution imaging. Nanotechnology, 2014, 25, 195601.	1.3	10
32	Cell penetrating peptide mediated quantum dot delivery and release in live mammalian cells. , 2014, 2014, 4260-3.		2
33	Toward 3D Biomimetic Models to Understand the Behavior of Glioblastoma Multiforme Cells. Tissue Engineering - Part B: Reviews, 2014, 20, 314-327.	2.5	49
34	Preferential, enhanced breast cancer cell migration on biomimetic electrospun nanofiber â€˜cell highwaysâ€™. BMC Cancer, 2014, 14, 825.	1.1	61
35	Photo-switchable quantum dots based on reversible FRET. Proceedings of SPIE, 2014, , .	0.8	3
36	Deterministic and Stochastic Trajectories of Magnetic Particles: Mapping Energy Landscapes for Technology And Biology. IEEE Transactions on Magnetics, 2014, 50, 1-7.	1.2	3

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37	Scalable, Semicontinuous Production of Micelles Encapsulating Nanoparticles via Electrospray. Langmuir, 2014, 30, 3939-3948.	1.6	45
38	Effects of hydrophobicity and mat thickness on release from hydrogel-electrospun fiber mat composites. Journal of Biomaterials Science, Polymer Edition, 2013, 24, 2018-2030.	1.9	14
39	Glioblastoma Behaviors in Three-Dimensional Collagen-Hyaluronan Composite Hydrogels. ACS Applied Materials & Interfaces, 2013, 5, 9276-9284.	4.0	129
40	Magnetic quantum dots in biotechnology â€“ synthesis and applications. Biotechnology Journal, 2013, 8, 1424-1434.	1.8	29
41	Microparticles and Nanoparticles. , 2013, , 360-388.		14
42	Mimicking white matter tract topography using coreâ€“shell electrospun nanofibers to examine migration of malignant brain tumors. Biomaterials, 2013, 34, 5181-5190.	5.7	102
43	CHARACTERIZATION AND TOXICITY OF CARBON DOT-POLY(LACTIC-CO-GLYCOLIC ACID) NANOCOMPOSITES FOR BIOMEDICAL IMAGING. Nano LIFE, 2013, 03, 1340002.	0.6	16
44	Simultaneous, single particle, magnetization and size measurements of micron sized, magnetic particles. Journal of Magnetism and Magnetic Materials, 2012, 324, 4189-4199.	1.0	26
45	Ceramic nanopatterned surfaces to explore the effects of nanotopography on cell attachment. Materials Science and Engineering C, 2012, 32, 2469-2475.	3.8	16
46	Inherent Interfacial Mechanical Gradients in 3D Hydrogels Influence Tumor Cell Behaviors. PLoS ONE, 2012, 7, e35852.	1.1	56
47	Cell Attachment to Hydrogel-Electrospun Fiber Mat Composite Materials. Journal of Functional Biomaterials, 2012, 3, 497-513.	1.8	31
48	Hydrogelâ€“electrospun fiber composite materials for hydrophilic protein release. Journal of Controlled Release, 2012, 158, 165-170.	4.8	75
49	A MagDot-Nanoconveyor Assay Detects and Isolates Molecular Biomarkers. Chemical Engineering Progress, 2012, 108, 41-46.	0.0	4
50	Polylysine-Modified PEG-Based Hydrogels to Enhance the Neuroâ€“Electrode Interface. Journal of Biomaterials Science, Polymer Edition, 2011, 22, 611-625.	1.9	44
51	Alternating-Color Quantum Dot Nanocomposites for Particle Tracking. Nano Letters, 2011, 11, 941-945.	4.5	35
52	Hydrogelâ€“Electrospun Fiber Mat Composite Coatings for Neural Prostheses. Frontiers in Neuroengineering, 2011, 4, 2.	4.8	29
53	Synthesis and manipulation of multifunctional, fluorescent-magnetic nanoparticles for single molecule tracking. Proceedings of SPIE, 2010, , .	0.8	2
54	Interactions in fluorescent-magnetic heterodimer nanocomposites. Nanotechnology, 2010, 21, 145605.	1.3	17

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55	Simultaneous Magnetic Manipulation and Fluorescent Tracking of Multiple Individual Hybrid Nanostructures. Nano Letters, 2010, 10, 2220-2224.	4.5	97
56	pH sensitive CdSâ€“iron oxide fluorescentâ€“magnetic nanocomposites. Nanotechnology, 2009, 20, 485601.	1.3	16
57	Adhesion molecules promote chronic neural interfaces following neurotrophin withdrawal. , 2009, 2009, 7151-4.		2
58	Nanomaterials for Neural Interfaces. Advanced Materials, 2009, 21, 3970-4004.	11.1	460
59	Fluorescentâ€“magnetic nanoparticles for imaging and cell manipulation. Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanoengineering and Nanosystems, 2009, 223, 81-86.	0.1	2
60	Adhesion molecule-modified biomaterials for neural tissue engineering. Frontiers in Neuroengineering, 2009, 2, 6.	4.8	88
61	Tissue engineering applied to the retinal prosthesis: Neurotrophin-eluting polymeric hydrogel coatings. Materials Science and Engineering C, 2008, 28, 448-453.	3.8	25
62	Retinal prostheses: current challenges and future outlook. Journal of Biomaterials Science, Polymer Edition, 2007, 18, 1031-1055.	1.9	93
63	Neurotrophin-eluting hydrogel coatings for neural stimulating electrodes. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2007, 81B, 551-563.	1.6	88
64	Variation of cadmium sulfide nanoparticle size and photoluminescence intensity with altered aqueous synthesis conditions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2005, 254, 147-157.	2.3	118
65	Quantum dots for electrical stimulation of neural cells. , 2005, , .		16
66	Challenges in quantum dot-neuron active interfacing. Talanta, 2005, 67, 462-471.	2.9	59
67	Optimization of Quantum Dot â€“ Nerve Cell Interfaces. Materials Research Society Symposia Proceedings, 2003, 789, 318.	0.1	1
68	Recognition Molecule Directed Interfacing Between Semiconductor Quantum Dots and Nerve Cells. Advanced Materials, 2001, 13, 1673-1677.	11.1	199