

James B Delehanty

List of Publications by Year in descending order

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96
papers

6,919
citations

71102

41
h-index

58581

82
g-index

99
all docs

99
docs citations

99
times ranked

8840
citing authors

#	ARTICLE	IF	CITATIONS
1	Liquid Crystal Nanoparticle Conjugates for Scavenging Reactive Oxygen Species in Live Cells. <i>Pharmaceutics</i> , 2022, 15, 604.	3.8	4
2	Determining the Cytosolic Stability of Small DNA Nanostructures <i>In Cellula</i> . <i>Nano Letters</i> , 2022, 22, 5037-5045.	9.1	14
3	Sensing Nitric Oxide in Cells: Historical Technologies and Future Outlook. <i>ACS Sensors</i> , 2021, 6, 1695-1703.	7.8	18
4	Hydrodynamic Focusing-Enabled Blood Vessel Fabrication for in Vitro Modeling of Neural Surrogates. <i>Journal of Medical and Biological Engineering</i> , 2021, 41, 456-469.	1.8	1
5	In Situ Self-Assembly of Quantum Dots at the Plasma Membrane Mediates Energy Transfer-Based Activation of Channelrhodopsin. <i>Particle and Particle Systems Characterization</i> , 2021, 38, 2100053.	2.3	0
6	Quantum dot-enabled membrane-tethering and enhanced photoactivation of chlorin-e6. <i>Journal of Nanoparticle Research</i> , 2021, 23, 1.	1.9	1
7	Gold-Nanoparticle-Mediated Depolarization of Membrane Potential Is Dependent on Concentration and Tethering Distance from the Plasma Membrane. <i>Bioconjugate Chemistry</i> , 2020, 31, 567-576.	3.6	8
8	Recent Progress in Bioconjugation Strategies for Liposome-Mediated Drug Delivery. <i>Molecules</i> , 2020, 25, 5672.	3.8	124
9	Anionic Conjugated Polyelectrolytes for FRET-Based Imaging of Cellular Membrane Potential. <i>Photochemistry and Photobiology</i> , 2020, 96, 834-844.	2.5	5
10	Nanoparticle-Mediated Visualization and Control of Cellular Membrane Potential: Strategies, Progress, and Remaining Issues. <i>ACS Nano</i> , 2020, 14, 2659-2677.	14.6	35
11	Semiconductor Quantum Dots for Visualization and Sensing in Neuronal Cell Systems. <i>NeuroMethods</i> , 2020, , 1-18.	0.3	5
12	Active Cellular and Subcellular Targeting of Nanoparticles for Drug Delivery. <i>Pharmaceutics</i> , 2019, 11, 543.	4.5	72
13	Mechanisms of Actively Triggered Drug Delivery from Hard Nanoparticle Carriers. <i>ACS Symposium Series</i> , 2019, , 157-185.	0.5	0
14	Display of Potassium Channel-Blocking Tertiapin-Q Peptides on Gold Nanoparticles Enhances Depolarization of Cellular Membrane Potential. <i>Particle and Particle Systems Characterization</i> , 2019, 36, 1800493.	2.3	6
15	Nanoparticle-Peptide-Drug Bioconjugates for Unassisted Defeat of Multidrug Resistance in a Model Cancer Cell Line. <i>Bioconjugate Chemistry</i> , 2019, 30, 525-530.	3.6	23
16	Cholesterol Functionalization of Gold Nanoparticles Enhances Photoactivation of Neural Activity. <i>ACS Chemical Neuroscience</i> , 2019, 10, 1478-1487.	3.5	33
17	Evaluating the potential of using quantum dots for monitoring electrical signals in neurons. <i>Nature Nanotechnology</i> , 2018, 13, 278-288.	31.5	96
18	Utility of PEGylated dithiolane ligands for direct synthesis of water-soluble Au, Ag, Pt, Pd, Cu and AuPt nanoparticles. <i>Chemical Communications</i> , 2018, 54, 1956-1959.	4.1	12

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19	Cellular delivery of doxorubicin mediated by disulfide reduction of a peptide-dendrimer bioconjugate. <i>International Journal of Pharmaceutics</i> , 2018, 545, 64-73.	5.2	14
20	Intracellularly Actuated Quantum Dot-“Peptide”-Doxorubicin Nanobioconjugates for Controlled Drug Delivery via the Endocytic Pathway. <i>Bioconjugate Chemistry</i> , 2018, 29, 136-148.	3.6	44
21	Synthesis of a Reactive Oxygen Species-Responsive Doxorubicin Derivative. <i>Molecules</i> , 2018, 23, 1809.	3.8	5
22	A Quantum Dot-Protein Bioconjugate That Provides for Extracellular Control of Intracellular Drug Release. <i>Bioconjugate Chemistry</i> , 2018, 29, 2455-2467.	3.6	23
23	The role of nanoparticles in the improvement of systemic anticancer drug delivery. <i>Therapeutic Delivery</i> , 2018, 9, 527-545.	2.2	8
24	Hybrid Liquid Crystal Nanocarriers for Enhanced Zinc Phthalocyanine-Mediated Photodynamic Therapy. <i>Bioconjugate Chemistry</i> , 2018, 29, 2701-2714.	3.6	14
25	Nanoparticle bioconjugate for controlled cellular delivery of doxorubicin. , 2018, , .		0
26	Energy Transfer with Semiconductor Quantum Dot Bioconjugates: A Versatile Platform for Biosensing, Energy Harvesting, and Other Developing Applications. <i>Chemical Reviews</i> , 2017, 117, 536-711.	47.7	575
27	Semiconductor quantum dots as Förster resonance energy transfer donors for intracellularly-based biosensors. , 2017, , .		1
28	Cellular Applications of Semiconductor Quantum Dots at the U.S. Naval Research Laboratory: 2006-2016. <i>Reviews in Fluorescence</i> , 2017, , 203-242.	0.5	0
29	Quantum Dot-“Peptide”-Fullerene Bioconjugates for Visualization of <i>in Vitro</i> and <i>in Vivo</i> Cellular Membrane Potential. <i>ACS Nano</i> , 2017, 11, 5598-5613.	14.6	68
30	Multifunctional nanoparticle composites: progress in the use of soft and hard nanoparticles for drug delivery and imaging. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2017, 9, e1466.	6.1	57
31	Targeting therapeutics to the plasma membrane: opportunities for nanoparticle-mediated delivery abound. <i>Therapeutic Delivery</i> , 2017, 8, 235-237.	2.2	3
32	Purple-, Blue-, and Green-Emitting Multishell Alloyed Quantum Dots: Synthesis, Characterization, and Application for Ratiometric Extracellular pH Sensing. <i>Chemistry of Materials</i> , 2017, 29, 7330-7344.	6.7	74
33	Targeted Plasma Membrane Delivery of a Hydrophobic Cargo Encapsulated in a Liquid Crystal Nanoparticle Carrier. <i>Journal of Visualized Experiments</i> , 2017, , .	0.3	2
34	Nanoparticle cellular uptake by dendritic wedge peptides: achieving single peptide facilitated delivery. <i>Nanoscale</i> , 2017, 9, 10447-10464.	5.6	28
35	Cover Image, Volume 9, Issue 6. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2017, 9, e1501.	6.1	1
36	Emerging Physicochemical Phenomena along with New Opportunities at the Biomolecular-“Nanoparticle Interface. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 2139-2150.	4.6	41

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37	Nanomaterial-based sensors for the detection of biological threat agents. <i>Materials Today</i> , 2016, 19, 464-477.	14.2	67
38	Controlled actuation of therapeutic nanoparticles: an update on recent progress. <i>Therapeutic Delivery</i> , 2016, 7, 335-352.	2.2	15
39	Quantum dot-mediated delivery of siRNA to inhibit sphingomyelinase activities in brain-derived cells. <i>Journal of Neurochemistry</i> , 2016, 139, 872-885.	3.9	19
40	Lipid Raft-Mediated Membrane Tethering and Delivery of Hydrophobic Cargos from Liquid Crystal-Based Nanocarriers. <i>Bioconjugate Chemistry</i> , 2016, 27, 982-993.	3.6	14
41	The influence of cell penetrating peptide branching on cellular uptake of QDs. , 2016, , .		1
42	A Label-free Technique for the Spatio-temporal Imaging of Single Cell Secretions. <i>Journal of Visualized Experiments</i> , 2015, , .	0.3	3
43	Modulation of Intracellular Quantum Dot to Fluorescent Protein Förster Resonance Energy Transfer via Customized Ligands and Spatial Control of Donor-Acceptor Assembly. <i>Sensors</i> , 2015, 15, 30457-30468.	3.8	12
44	Intracellular FRET-based probes: a review. <i>Methods and Applications in Fluorescence</i> , 2015, 3, 042006.	2.3	80
45	Delivery and Tracking of Quantum Dot Peptide Bioconjugates in an Intact Developing Avian Brain. <i>ACS Chemical Neuroscience</i> , 2015, 6, 494-504.	3.5	67
46	Optimizing Nanoplasmonic Biosensor Sensitivity with Orientated Single Domain Antibodies. <i>Plasmonics</i> , 2015, 10, 1649-1655.	3.4	15
47	Membrane-targeting peptides for nanoparticle-facilitated cellular imaging and analysis. <i>Proceedings of SPIE</i> , 2015, , .	0.8	1
48	Peptides for Specifically Targeting Nanoparticles to Cellular Organelles: <i>Quo Vadis</i>?. <i>Accounts of Chemical Research</i> , 2015, 48, 1380-1390.	15.6	118
49	Electric Field Modulation of Semiconductor Quantum Dot Photoluminescence: Insights Into the Design of Robust Voltage-Sensitive Cellular Imaging Probes. <i>Nano Letters</i> , 2015, 15, 6848-6854.	9.1	85
50	Examining the Polyproline Nanoscopic Ruler in the Context of Quantum Dots. <i>Chemistry of Materials</i> , 2015, 27, 6222-6237.	6.7	30
51	The Role of Negative Charge in the Delivery of Quantum Dots to Neurons. <i>ASN Neuro</i> , 2015, 7, 175909141559238.	2.7	39
52	Continuing progress toward controlled intracellular delivery of semiconductor quantum dots. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2015, 7, 131-151.	6.1	36
53	In vitro interaction of colloidal nanoparticles with mammalian cells: What have we learned thus far?. <i>Beilstein Journal of Nanotechnology</i> , 2014, 5, 1477-1490.	2.8	130
54	Controlling the intracellular fate of nano-bioconjugates: pathways for realizing nanoparticle-mediated theranostics. <i>Proceedings of SPIE</i> , 2014, , .	0.8	0

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55	Peptide-Functionalized Quantum Dot Biosensors. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 115-126.	2.9	11
56	Quantum dot-based multiphoton fluorescent pipettes for targeted neuronal electrophysiology. Nature Methods, 2014, 11, 1237-1241.	19.0	70
57	A New Family of Pyridine-Appended Multidentate Polymers As Hydrophilic Surface Ligands for Preparing Stable Biocompatible Quantum Dots. Chemistry of Materials, 2014, 26, 5327-5344.	6.7	94
58	Multifunctional Liquid Crystal Nanoparticles for Intracellular Fluorescent Imaging and Drug Delivery. ACS Nano, 2014, 8, 6986-6997.	14.6	57
59	Evaluation of diverse peptidyl motifs for cellular delivery of semiconductor quantum dots. Analytical and Bioanalytical Chemistry, 2013, 405, 6145-6154.	3.7	26
60	Controlled actuation of therapeutic nanoparticles: moving beyond passive delivery modalities. Therapeutic Delivery, 2013, 4, 127-129.	2.2	7
61	Cytotoxicity of Quantum Dots Used for <i>In Vitro</i> Cellular Labeling: Role of QD Surface Ligand, Delivery Modality, Cell Type, and Direct Comparison to Organic Fluorophores. Bioconjugate Chemistry, 2013, 24, 1570-1583.	3.6	113
62	Recent development of dihydrolipoic acid appended ligands for robust and biocompatible quantum dots. Proceedings of SPIE, 2013, , .	0.8	1
63	PEGylated Luminescent Gold Nanoclusters: Synthesis, Characterization, Bioconjugation, and Application to One- and Two-Photon Cellular Imaging. Particle and Particle Systems Characterization, 2013, 30, 453-466.	2.3	108
64	Site-specific cellular delivery of quantum dots with chemoselectively-assembled modular peptides. Chemical Communications, 2013, 49, 7878.	4.1	37
65	Selecting Improved Peptidyl Motifs for Cytosolic Delivery of Disparate Protein and Nanoparticle Materials. ACS Nano, 2013, 7, 3778-3796.	14.6	124
66	Optimizing Protein Coordination to Quantum Dots with Designer Peptidyl Linkers. Bioconjugate Chemistry, 2013, 24, 269-281.	3.6	45
67	Fluorescent nanocolloids for differential labeling of the endocytic pathway and drug delivery applications. Proceedings of SPIE, 2013, , .	0.8	0
68	Controlling the actuation of therapeutic nanomaterials: enabling nanoparticle-mediated drug delivery. Therapeutic Delivery, 2013, 4, 1411-1429.	2.2	19
69	Nanoparticle Targeting to Neurons in a Rat Hippocampal Slice Culture Model. ASN Neuro, 2012, 4, AN20120042.	2.7	61
70	Active cellular sensing with quantum dots: Transitioning from research tool to reality; a review. Analytica Chimica Acta, 2012, 750, 63-81.	5.4	71
71	Quantum Dots and Fluorescent Protein FRET-Based Biosensors. Advances in Experimental Medicine and Biology, 2012, 733, 63-74.	1.6	25
72	Elaborate Nanoparticle-Based Traps for Catching Cytosolic Players in the Act. ChemBioChem, 2012, 13, 30-33.	2.6	4

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73	Multifunctional Compact Zwitterionic Ligands for Preparing Robust Biocompatible Semiconductor Quantum Dots and Gold Nanoparticles. <i>Journal of the American Chemical Society</i> , 2011, 133, 9480-9496.	13.7	276
74	Cellular Uptake and Fate of PEGylated Gold Nanoparticles Is Dependent on Both Cell-Penetration Peptides and Particle Size. <i>ACS Nano</i> , 2011, 5, 6434-6448.	14.6	381
75	Semiconductor Quantum Dots in Bioanalysis: Crossing the Valley of Death. <i>Analytical Chemistry</i> , 2011, 83, 8826-8837.	6.5	318
76	Spatiotemporal Multicolor Labeling of Individual Cells Using Peptide-Functionalized Quantum Dots and Mixed Delivery Techniques. <i>Journal of the American Chemical Society</i> , 2011, 133, 10482-10489.	13.7	115
77	Reactive Semiconductor Nanocrystals for Chemoselective Biolabeling and Multiplexed Analysis. <i>ACS Nano</i> , 2011, 5, 5579-5593.	14.6	80
78	Multidentate Poly(ethylene glycol) Ligands Provide Colloidal Stability to Semiconductor and Metallic Nanocrystals in Extreme Conditions. <i>Journal of the American Chemical Society</i> , 2010, 132, 9804-9813.	13.7	187
79	Quantum-dot/dopamine bioconjugates function as redox coupled assemblies for in vitro and intracellular pH sensing. <i>Nature Materials</i> , 2010, 9, 676-684.	27.5	433
80	Peptides for specific intracellular delivery and targeting of nanoparticles: implications for developing nanoparticle-mediated drug delivery. <i>Therapeutic Delivery</i> , 2010, 1, 411-433.	2.2	87
81	Combining Chemoselective Ligation with Polyhistidine-Driven Self-Assembly for the Modular Display of Biomolecules on Quantum Dots. <i>ACS Nano</i> , 2010, 4, 267-278.	14.6	91
82	Delivering quantum dot-peptide bioconjugates to the cellular cytosol: escaping from the endolysosomal system. <i>Integrative Biology (United Kingdom)</i> , 2010, 2, 265.	1.3	124
83	Modification of Poly(ethylene glycol)-Capped Quantum Dots with Nickel Nitriilotriacetic Acid and Self-Assembly with Histidine-Tagged Proteins. <i>Journal of Physical Chemistry C</i> , 2010, 114, 13526-13531.	3.1	43
84	Intracellular Bioconjugation of Targeted Proteins with Semiconductor Quantum Dots. <i>Journal of the American Chemical Society</i> , 2010, 132, 5975-5977.	13.7	92
85	Quantum dots: a powerful tool for understanding the intricacies of nanoparticle-mediated drug delivery. <i>Expert Opinion on Drug Delivery</i> , 2009, 6, 1091-1112.	5.0	94
86	Delivering quantum dots into cells: strategies, progress and remaining issues. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 393, 1091-1105.	3.7	312
87	Immobilized Proanthocyanidins for the Capture of Bacterial Lipopolysaccharides. <i>Analytical Chemistry</i> , 2008, 80, 2113-2117.	6.5	28
88	Modular poly(ethylene glycol) ligands for biocompatible semiconductor and gold nanocrystals with extended pH and ionic stability. <i>Journal of Materials Chemistry</i> , 2008, 18, 4949.	6.7	205
89	Intracellular Delivery of Quantum Dot~Protein Cargos Mediated by Cell Penetrating Peptides. <i>Bioconjugate Chemistry</i> , 2008, 19, 1785-1795.	3.6	155
90	New Biological Activities of Plant Proanthocyanidins. <i>ACS Symposium Series</i> , 2008, , 101-114.	0.5	0

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91	Enhancing the Stability and Biological Functionalities of Quantum Dots via Compact Multifunctional Ligands. <i>Journal of the American Chemical Society</i> , 2007, 129, 13987-13996.	13.7	486
92	Binding and Neutralization of Lipopolysaccharides by Plant Proanthocyanidins. <i>Journal of Natural Products</i> , 2007, 70, 1718-1724.	3.0	58
93	Self-Assembled Quantum Dot~Peptide Bioconjugates for Selective Intracellular Delivery. <i>Bioconjugate Chemistry</i> , 2006, 17, 920-927.	3.6	246
94	RNA hydrolysis and inhibition of translation by a Co(III)-cyclen complex. <i>Rna</i> , 2005, 11, 831-836.	3.5	21
95	Printing Functional Protein Microarrays Using Piezoelectric Capillaries. , 2004, 264, 135-144.		18
96	Transfected Cell Microarrays for the Expression of Membrane-Displayed Single-Chain Antibodies. <i>Analytical Chemistry</i> , 2004, 76, 7323-7328.	6.5	45