

# Alan L Huston

## List of Publications by Year in descending order

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60  
papers

2,817  
citations

159358

30  
h-index

214527

47  
g-index

60  
all docs

60  
docs citations

60  
times ranked

3992  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	7.3	381
2	Quantum Dots as Simultaneous Acceptors and Donors in Time-Gated Förster Resonance Energy Transfer Relays: Characterization and Biosensing. <i>Journal of the American Chemical Society</i> , 2012, 134, 1876-1891.	6.6	234
3	Multiple UV wavelength excitation and fluorescence of bioaerosols. <i>Optics Express</i> , 2004, 12, 4457.	1.7	153
4	Self-Assembled Quantum Dot-Sensitized Multivalent DNA Photonic Wires. <i>Journal of the American Chemical Society</i> , 2010, 132, 18177-18190.	6.6	128
5	Selecting Improved Peptidyl Motifs for Cytosolic Delivery of Disparate Protein and Nanoparticle Materials. <i>ACS Nano</i> , 2013, 7, 3778-3796.	7.3	124
6	PEGylated Luminescent Gold Nanoclusters: Synthesis, Characterization, Bioconjugation, and Application to One- and Two-Photon Cellular Imaging. <i>Particle and Particle Systems Characterization</i> , 2013, 30, 453-466.	1.2	108
7	Evaluating the potential of using quantum dots for monitoring electrical signals in neurons. <i>Nature Nanotechnology</i> , 2018, 13, 278-288.	15.6	96
8	A New Family of Pyridine-Appended Multidentate Polymers As Hydrophilic Surface Ligands for Preparing Stable Biocompatible Quantum Dots. <i>Chemistry of Materials</i> , 2014, 26, 5327-5344.	3.2	94
9	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.	4.5	85
10	Gated fiber-optic-coupled detector for in vivo real-time radiation dosimetry. <i>Applied Optics</i> , 2004, 43, 1663.	2.1	74
11	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.	3.2	74
12	Quantum dot-based multiphoton fluorescent pipettes for targeted neuronal electrophysiology. <i>Nature Methods</i> , 2014, 11, 1237-1241.	9.0	70
13	Spectral characterization of biological aerosol particles using two-wavelength excited laser-induced fluorescence and elastic scattering measurements. <i>Optics Express</i> , 2011, 19, 6191.	1.7	68
14	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.	7.3	68
15	Delivery and Tracking of Quantum Dot Peptide Bioconjugates in an Intact Developing Avian Brain. <i>ACS Chemical Neuroscience</i> , 2015, 6, 494-504.	1.7	67
16	Energy Transfer Sensitization of Luminescent Gold Nanoclusters: More than Just the Classical Förster Mechanism. <i>Scientific Reports</i> , 2016, 6, 35538.	1.6	66
17	Concurrent Modulation of Quantum Dot Photoluminescence Using a Combination of Charge Transfer and Förster Resonance Energy Transfer: Competitive Quenching and Multiplexed Biosensing Modality. <i>Journal of the American Chemical Society</i> , 2017, 139, 363-372.	6.6	64
18	Competition between Förster Resonance Energy Transfer and Electron Transfer in Stoichiometrically Assembled Semiconductor Quantum Dot-Fullerene Conjugates. <i>ACS Nano</i> , 2013, 7, 9489-9505.	7.3	62

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19	Nanoparticle Targeting to Neurons in a Rat Hippocampal Slice Culture Model. <i>ASN Neuro</i> , 2012, 4, AN20120042.	1.5	61
20	Achieving Effective Terminal Exciton Delivery in Quantum Dot Antenna-Sensitized Multistep DNA Photonic Wires. <i>ACS Nano</i> , 2013, 7, 7101-7118.	7.3	61
21	Colloidal Stability of Gold Nanoparticles Coated with Multithiol-Poly(ethylene glycol) Ligands: Importance of Structural Constraints of the Sulfur Anchoring Groups. <i>Journal of Physical Chemistry C</i> , 2013, 117, 18947-18956.	1.5	59
22	Complex Förster Energy Transfer Interactions between Semiconductor Quantum Dots and a Redox-Active Osmium Assembly. <i>ACS Nano</i> , 2012, 6, 5330-5347.	7.3	55
23	Synthesis and Characterization of PEGylated Luminescent Gold Nanoclusters Doped with Silver and Other Metals. <i>Chemistry of Materials</i> , 2016, 28, 8676-8688.	3.2	54
24	Laser-Heated radiation dosimetry using transparent thermoluminescent glass. <i>Applied Physics Letters</i> , 1996, 68, 1-3.	1.5	47
25	Optimizing Protein Coordination to Quantum Dots with Designer Peptidyl Linkers. <i>Bioconjugate Chemistry</i> , 2013, 24, 269-281.	1.8	45
26	Intracellularly Actuated Quantum Dot-Peptide-Doxorubicin Nanobioconjugates for Controlled Drug Delivery via the Endocytic Pathway. <i>Bioconjugate Chemistry</i> , 2018, 29, 136-148.	1.8	44
27	Characterization of a fiber-optic-coupled radioluminescent detector for application in the mammography energy range. <i>Medical Physics</i> , 2007, 34, 2220-2227.	1.6	39
28	The Role of Negative Charge in the Delivery of Quantum Dots to Neurons. <i>ASN Neuro</i> , 2015, 7, 175909141559238.	1.5	39
29	Nanoparticle-Mediated Visualization and Control of Cellular Membrane Potential: Strategies, Progress, and Remaining Issues. <i>ACS Nano</i> , 2020, 14, 2659-2677.	7.3	35
30	Bridging Lanthanide to Quantum Dot Energy Transfer with a Short-Lifetime Organic Dye. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 2182-2188.	2.1	34
31	Cholesterol Functionalization of Gold Nanoparticles Enhances Photoactivation of Neural Activity. <i>ACS Chemical Neuroscience</i> , 2019, 10, 1478-1487.	1.7	33
32	Classification and selective collection of individual aerosol particles using laser-induced fluorescence. <i>Applied Optics</i> , 2009, 48, B126.	2.1	27
33	Nanoparticle-Peptide-Drug Bioconjugates for Unassisted Defeat of Multidrug Resistance in a Model Cancer Cell Line. <i>Bioconjugate Chemistry</i> , 2019, 30, 525-530.	1.8	23
34	Fiber-optic-coupled, laser heated thermoluminescence dosimeter for remote radiation sensing. <i>Applied Physics Letters</i> , 1996, 68, 3377-3379.	1.5	22
35	One-pot aqueous phase growth of biocompatible 15-130nm gold nanoparticles stabilized with bidentate PEG. <i>Journal of Colloid and Interface Science</i> , 2012, 376, 107-111.	5.0	16
36	Ultraviolet dosimetry using thermoluminescence of semiconductor-doped Vycor glass. <i>Applied Physics Letters</i> , 1995, 67, 1179-1181.	1.5	15

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37	Performance characteristics of a gated fiber-optic-coupled dosimeter in high-energy pulsed photon radiation dosimetry. Applied Radiation and Isotopes, 2010, 68, 364-369.	0.7	15
38	Probing the Quenching of Quantum Dot Photoluminescence by Peptide-Labeled Ruthenium(II) Complexes. Journal of Physical Chemistry C, 2014, 118, 9239-9250.	1.5	14
39	Radiation dosimetry using thermoluminescence of semiconductor-doped Vycor glass. Nuclear Instruments & Methods in Physics Research B, 1995, 95, 533-536.	0.6	11
40	Elimination of Cerenkov interference in a fibre-optic-coupled radiation dosemeter. Radiation Protection Dosimetry, 2006, 120, 20-23.	0.4	10
41	BIO-AEROSOL FLUORESCENCE. , 2007, , 63-164.		10
42	Gold-Nanoparticle-Mediated Depolarization of Membrane Potential Is Dependent on Concentration and Tethering Distance from the Plasma Membrane. Bioconjugate Chemistry, 2020, 31, 567-576.	1.8	8
43	Optical classification of bioaerosols using UV fluorescence and IR absorption spectroscopy. , 2004, , .		5
44	Multiple UV wavelength excitation and fluorescence of bioaerosols. , 2004, , .		5
45	Quantum dots as a FRET donor and nanoscaffold for multivalent DNA photonic wires. Proceedings of SPIE, 2011, , .	0.8	4
46	Characterization of a gated fiber-optic-coupled detector for application in clinical electron beam dosimetry. Medical Physics, 2011, 38, 961-967.	1.6	4
47	Dose mapping of porcine coronary arteries using an optical fiber dosimeter. Cardiovascular Revascularization Medicine, 2005, 6, 163-169.	0.3	2
48	Recent development of dihydrolipoic acid appended ligands for robust and biocompatible quantum dots. Proceedings of SPIE, 2013, , .	0.8	1
49	A Novel Polarized Elastic Scatter Detection Method of Aerosol Particle Velocimetry with Reduced Errors Due to Coincidence and Phantom Particles. Aerosol Science and Technology, 2013, 47, 249-257.	1.5	1
50	Membrane-targeting peptides for nanoparticle-facilitated cellular imaging and analysis. Proceedings of SPIE, 2015, , .	0.8	1
51	Imaging cellular membrane potential through ionization of quantum dots. , 2016, , .		1
52	Rapid identification of biological particles using on-the-fly fluorescent marking. , 2004, , .		0
53	Experimental performance of a novel aerosol sorting and deposition system for bio-threat sensing applications. , 2006, 6398, 44.		0
54	Recent advances in the development of a novel aerosol sorting and deposition system for bio-threat sensing applications. Proceedings of SPIE, 2007, , .	0.8	0

#	ARTICLE	IF	CITATIONS
55	Quantum dots in life sciences: applications, benefits, and safety issues. Proceedings of SPIE, 2010, , .	0.8	0
56	Further progress in cytosolic cellular delivery of quantum dots. , 2012, , .		0
57	Peptide-mediated cellular delivery of semiconductor quantum dots. , 2013, , .		0
58	Improving energy transfer in QD-DNA photonic networks. , 2013, , .		0
59	Visualization and neuronal cell targeting during electrophysiological recordings facilitated by quantum dots. Proceedings of SPIE, 2015, , .	0.8	0
60	Nanoparticle bioconjugate for controlled cellular delivery of doxorubicin. , 2018, , .		0