Alan L Huston

List of Publications by Citations

50 papers	2,325 citations	27 h-index	48 g-index
60 ext. papers	2,608 ext. citations	8.2 avg, IF	4.43 L-index

#	Paper	IF	Citations
50	Cellular uptake and fate of PEGylated gold nanoparticles is dependent on both cell-penetration peptides and particle size. *ACS Nano*, **2011**, 5, 6434-48	16.7	334
49	Quantum dots as simultaneous acceptors and donors in time-gated Förster resonance energy transfer relays: characterization and biosensing. *Journal of the American Chemical Society*, **2012**, 134, 1876-91	16.4	207
48	Multiple UV wavelength excitation and fluorescence of bioaerosols. *Optics Express*, **2004**, 12, 4457-66	3.3	124
47	Self-assembled quantum dot-sensitized multivalent DNA photonic wires. *Journal of the American Chemical Society*, **2010**, 132, 18177-90	16.4	113
46	Selecting improved peptidyl motifs for cytosolic delivery of disparate protein and nanoparticle materials. *ACS Nano*, **2013**, 7, 3778-96	16.7	111
45	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	3.1	95
44	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	9.6	78
43	Gated fiber-optic-coupled detector for in vivo real-time radiation dosimetry. *Applied Optics*, **2004**, 43, 1663-8	1.7	68
42	Evaluating the potential of using quantum dots for monitoring electrical signals in neurons. *Nature Nanotechnology*, **2018**, 13, 278-288	28.7	63
41	Electric Field Modulation of Semiconductor Quantum Dot Photoluminescence: Insights Into the Design of Robust Voltage-Sensitive Cellular Imaging Probes. *Nano Letters*, **2015**, 15, 6848-54	11.5	62
40	Quantum dot-based multiphoton fluorescent pipettes for targeted neuronal electrophysiology. *Nature Methods*, **2014**, 11, 1237-1241	21.6	61
39	Spectral characterization of biological aerosol particles using two-wavelength excited laser-induced fluorescence and elastic scattering measurements. *Optics Express*, **2011**, 19, 6191-208	3.3	58
38	Purple-, Blue-, and Green-Emitting Multishell Alloyed Quantum Dots: Synthesis, Characterization, and Application for Ratiometric Extracellular pH Sensing. *Chemistry of Materials*, **2017**, 29, 7330-7344	9.6	55
37	Delivery and tracking of quantum dot peptide bioconjugates in an intact developing avian brain. *ACS Chemical Neuroscience*, **2015**, 6, 494-504	5.7	55
36	Achieving effective terminal exciton delivery in quantum dot antenna-sensitized multistep DNA photonic wires. *ACS Nano*, **2013**, 7, 7101-18	16.7	54
35	Quantum Dot-Peptide-Fullerene Bioconjugates for Visualization of in Vitro and in Vivo Cellular Membrane Potential. *ACS Nano*, **2017**, 11, 5598-5613	16.7	53
34	Energy Transfer Sensitization of Luminescent Gold Nanoclusters: More than Just the Classical Förster Mechanism. *Scientific Reports*, **2016**, 6, 35538	4.9	53

33	Colloidal Stability of Gold Nanoparticles Coated with Multithiol-Poly(ethylene glycol) Ligands: Importance of Structural Constraints of the Sulfur Anchoring Groups. *Journal of Physical Chemistry C*, **2013**, 117, 18947-18956	3.8	53
32	Concurrent Modulation of Quantum Dot Photoluminescence Using a Combination of Charge Transfer and Förster Resonance Energy Transfer: Competitive Quenching and Multiplexed Biosensing Modality. *Journal of the American Chemical Society*, **2017**, 139, 363-372	16.4	52
31	Competition between Förster resonance energy transfer and electron transfer in stoichiometrically assembled semiconductor quantum dot-fullerene conjugates. *ACS Nano*, **2013**, 7, 9489-505	16.7	52
30	Nanoparticle targeting to neurons in a rat hippocampal slice culture model. *ASN Neuro*, **2012**, 4, 383-92	5.3	52
29	Complex Förster energy transfer interactions between semiconductor quantum dots and a redox-active osmium assembly. *ACS Nano*, **2012**, 6, 5330-47	16.7	51
28	Synthesis and Characterization of PEGylated Luminescent Gold Nanoclusters Doped with Silver and Other Metals. *Chemistry of Materials*, **2016**, 28, 8676-8688	9.6	42
27	Optimizing protein coordination to quantum dots with designer peptidyl linkers. *Bioconjugate Chemistry*, **2013**, 24, 269-81	6.3	39
26	Characterization of a fiber-optic-coupled radioluminescent detector for application in the mammography energy range. *Medical Physics*, **2007**, 34, 2220-7	4.4	35
25	The Role of Negative Charge in the Delivery of Quantum Dots to Neurons. *ASN Neuro*, **2015**, 7,	5.3	33
24	Intracellularly Actuated Quantum Dot-Peptide-Doxorubicin Nanobioconjugates for Controlled Drug Delivery via the Endocytic Pathway. *Bioconjugate Chemistry*, **2018**, 29, 136-148	6.3	28
23	Classification and selective collection of individual aerosol particles using laser-induced fluorescence. *Applied Optics*, **2009**, 48, B126-36	0.2	26
22	Laser-heated radiation dosimetry using transparent thermoluminescent glass. *Applied Physics Letters*, **1996**, 68, 1-3	3.4	25
21	Bridging Lanthanide to Quantum Dot Energy Transfer with a Short-Lifetime Organic Dye. *Journal of Physical Chemistry Letters*, **2017**, 8, 2182-2188	6.4	22
20	Nanoparticle-Mediated Visualization and Control of Cellular Membrane Potential: Strategies, Progress, and Remaining Issues. *ACS Nano*, **2020**, 14, 2659-2677	16.7	20
19	Fiber-optic-coupled, laser heated thermoluminescence dosimeter for remote radiation sensing. *Applied Physics Letters*, **1996**, 68, 3377-3379	3.4	19
18	Cholesterol Functionalization of Gold Nanoparticles Enhances Photoactivation of Neural Activity. *ACS Chemical Neuroscience*, **2019**, 10, 1478-1487	5.7	18
17	One-pot aqueous phase growth of biocompatible 15-130 nm gold nanoparticles stabilized with bidentate PEG. *Journal of Colloid and Interface Science*, **2012**, 376, 107-11	9.3	14
16	Performance characteristics of a gated fiber-optic-coupled dosimeter in high-energy pulsed photon radiation dosimetry. *Applied Radiation and Isotopes*, **2010**, 68, 364-9	1.7	14

15	Nanoparticle-Peptide-Drug Bioconjugates for Unassisted Defeat of Multidrug Resistance in a Model Cancer Cell Line. *Bioconjugate Chemistry*, **2019**, 30, 525-530	6.3	13
14	Ultraviolet dosimetry using thermoluminescence of semiconductor-doped Vycor glass. *Applied Physics Letters*, **1995**, 67, 1179-1181	3.4	13
13	Probing the Quenching of Quantum Dot Photoluminescence by Peptide-Labeled Ruthenium(II) Complexes. *Journal of Physical Chemistry C*, **2014**, 118, 9239-9250	3.8	12
12	Radiation dosimetry using thermoluminescence of semiconductor-doped Vycor glass. *Nuclear Instruments & Methods in Physics Research B*, **1995**, 95, 533-536	1.2	11
11	BIO-AEROSOL FLUORESCENCE **2007**, 63-164		9
10	Elimination of Cerenkov interference in a fibre-optic-coupled radiation dosemeter. *Radiation Protection Dosimetry*, **2006**, 120, 20-3	0.9	7
9	Optical classification of bioaerosols using UV fluorescence and IR absorption spectroscopy **2004**,		4
8	Quantum dots as a FRET donor and nanoscaffold for multivalent DNA photonic wires **2011**,		3
7	Characterization of a gated fiber-optic-coupled detector for application in clinical electron beam dosimetry. *Medical Physics*, **2011**, 38, 961-7	4.4	3
6	Multiple UV wavelength excitation and fluorescence of bioaerosols **2004**,		3
5	Gold-Nanoparticle-Mediated Depolarization of Membrane Potential Is Dependent on Concentration and Tethering Distance from the Plasma Membrane. *Bioconjugate Chemistry*, **2020**, 31, 567-576	6.3	3
4	Dose mapping of porcine coronary arteries using an optical fiber dosimeter. *Cardiovascular Revascularization Medicine*, **2005**, 6, 163-9	1.6	2
3	Imaging cellular membrane potential through ionization of quantum dots **2016**,		1
2	Recent development of dihydrolipoic acid appended ligands for robust and biocompatible quantum dots **2013**,		1
1	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	3.4	