Kevin Welsher

List of Publications by Year
in descending order

32 papers	9,736 citations	304743 22 h-index	414414 32 g-index
38 all docs	38 docs citations	38 times ranked	14116 citing authors

#	Article	IF	Citations
1	Nano-graphene oxide for cellular imaging and drug delivery. Nano Research, 2008, 1, 203-212.	10.4	3,043
2	Carbon nanotubes in biology and medicine: In vitro and in vivo detection, imaging and drug delivery. Nano Research, 2009, 2, 85-120.	10.4	1,515
3	A route to brightly fluorescent carbon nanotubes for near-infrared imaging in mice. Nature Nanotechnology, 2009, 4, 773-780.	31.5	1,068
4	Deep-tissue anatomical imaging of mice using carbon nanotube fluorophores in the second near-infrared window. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 8943-8948.	7.1	817
5	PEG Branched Polymer for Functionalization of Nanomaterials with Ultralong Blood Circulation. Journal of the American Chemical Society, 2009, 131, 4783-4787.	13.7	548
6	High performance in vivo near-IR (>1 Î¼m) imaging and photothermal cancer therapy with carbon nanotubes. Nano Research, 2010, 3, 779-793.	10.4	475
7	Selective Probing and Imaging of Cells with Single Walled Carbon Nanotubes as Near-Infrared Fluorescent Molecules. Nano Letters, 2008, 8, 586-590.	9.1	457
8	Noncovalent Functionalization of Carbon Nanotubes by Fluoresceinâ^'Polyethylene Glycol:Â Supramolecular Conjugates with pH-Dependent Absorbance and Fluorescence. Journal of the American Chemical Society, 2007, 129, 2448-2449.	13.7	288
9	Selective Synthesis Combined with Chemical Separation of Single-Walled Carbon Nanotubes for Chirality Selection. Journal of the American Chemical Society, 2007, 129, 15770-15771.	13.7	282
10	Naturally-occurring cholesterol analogues in lipid nanoparticles induce polymorphic shape and enhance intracellular delivery of mRNA. Nature Communications, 2020, 11, 983.	12.8	221
11	Multi-resolution 3D visualization of the early stages of cellular uptake of peptide-coated nanoparticles. Nature Nanotechnology, 2014, 9, 198-203.	31.5	156
12	Optical Properties of Ultrashort Semiconducting Single-Walled Carbon Nanotube Capsules Down to Sub-10 nm. Journal of the American Chemical Society, 2008, 130, 6551-6555.	13.7	142
13	Metal-Enhanced Fluorescence of Carbon Nanotubes. Journal of the American Chemical Society, 2010, 132, 15920-15923.	13.7	105
14	Phospholipidâ^'Dextran with a Single Coupling Point: A Useful Amphiphile for Functionalization of Nanomaterials. Journal of the American Chemical Society, 2009, 131, 289-296.	13.7	83
15	Nearâ€Infraredâ€Fluorescenceâ€Enhanced Molecular Imaging of Live Cells on Gold Substrates. Angewandte Chemie - International Edition, 2011, 50, 4644-4648.	13.8	78
16	Optical Characterizations and Electronic Devices of Nearly Pure (10,5) Single-Walled Carbon Nanotubes. Journal of the American Chemical Society, 2009, 131, 2454-2455.	13.7	63
17	Real-time 3D single molecule tracking. Nature Communications, 2020, 11, 3607.	12.8	63
18	Graphite-Coated Magnetic Nanoparticle Microarray for Few-Cells Enrichment and Detection. ACS Nano, 2012, 6, 1094-1101.	14.6	57

#	Article	IF	Citations
19	Optical Properties of Single-Walled Carbon Nanotubes Separated in a Density Gradient: Length, Bundling, and Aromatic Stacking Effects. Journal of Physical Chemistry C, 2010, 114, 19569-19575.	3.1	49
20	Robust real-time 3D single-particle tracking using a dynamically moving laser spot. Optics Letters, 2017, 42, 2390.	3.3	49
21	Real-Time 3D Single Particle Tracking: Towards Active Feedback Single Molecule Spectroscopy in Live Cells. Molecules, 2019, 24, 2826.	3.8	40
22	Discovery of Protein- and DNA-Imperceptible Nanoparticle Hard Coating Using Gel-Based Reaction Tuning. Journal of the American Chemical Society, 2015, 137, 580-583.	13.7	27
23	An Adaptive Realâ€Time 3D Single Particle Tracking Method for Monitoring Viral First Contacts. Small, 2019, 15, e1903039.	10.0	21
24	Particleâ€byâ€Particle Inâ€…Situ Characterization of the Protein Corona via Realâ€Time 3D Singleâ€Particleâ€Tracking Spectroscopy**. Angewandte Chemie - International Edition, 2021, 60, 22359-22367.	13.8	16
25	Mapping solvation heterogeneity in live cells by hyperspectral stimulated Raman scattering microscopy. Journal of Chemical Physics, 2020, 152, 174201.	3.0	14
26	Imaging the behavior of molecules in biological systems: breaking the 3D speed barrier with 3D multi-resolution microscopy. Faraday Discussions, 2015, 184, 359-379.	3.2	13
27	Information-Efficient, Off-Center Sampling Results in Improved Precision in 3D Single-Particle Tracking Microscopy. Entropy, 2021, 23, 498.	2.2	12
28	Continuous focal translation enhances rate of point-scan volumetric microscopy. Optics Express, 2019, 27, 36241.	3.4	8
29	A Protocol for Real-time 3D Single Particle Tracking. Journal of Visualized Experiments, 2018, , .	0.3	7
30	Particleâ€byâ€Particle Inâ€…Situ Characterization of the Protein Corona via Realâ€Time 3D Singleâ€Particleâ€Tracking Spectroscopy**. Angewandte Chemie, 2021, 133, 22533-22541.	2.0	3
31	Model-free analysis of time-dependent single-molecule spectroscopy: Dynamics of biological macromolecules. , 2012, , .		1
32	InnenrÃ¼cktitelbild: Particleâ€byâ€Particle Inâ€…Situ Characterization of the Protein Corona via Realâ€Time 3D Singleâ€Particleâ€Tracking Spectroscopy (Angew. Chem. 41/2021). Angewandte Chemie, 2021, 133, 22767-22767.	2.0	0