

Kevin Welsher

List of Publications by Year in descending order

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Version: 2024-02-01

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	Information-Efficient, Off-Center Sampling Results in Improved Precision in 3D Single-Particle Tracking Microscopy. <i>Entropy</i> , 2021, 23, 498.	2.2	12
2	InnenrÄ¼cktitelbild: ParticleÄbyÄParticle InÄ...Situ Characterization of the Protein Corona via RealÄTime 3D SingleÄParticleÄTracking Spectroscopy (<i>Angew. Chem.</i> 41/2021). <i>Angewandte Chemie</i> , 2021, 133, 22767-22767.	2.0	0
3	ParticleÄbyÄParticle InÄ...Situ Characterization of the Protein Corona via RealÄTime 3D SingleÄParticleÄTracking Spectroscopy**. <i>Angewandte Chemie</i> , 2021, 133, 22533-22541.	2.0	3
4	ParticleÄbyÄParticle InÄ...Situ Characterization of the Protein Corona via RealÄTime 3D SingleÄParticleÄTracking Spectroscopy**. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 22359-22367.	13.8	16
5	Real-time 3D single molecule tracking. <i>Nature Communications</i> , 2020, 11, 3607.	12.8	63
6	Mapping solvation heterogeneity in live cells by hyperspectral stimulated Raman scattering microscopy. <i>Journal of Chemical Physics</i> , 2020, 152, 174201.	3.0	14
7	Naturally-occurring cholesterol analogues in lipid nanoparticles induce polymorphic shape and enhance intracellular delivery of mRNA. <i>Nature Communications</i> , 2020, 11, 983.	12.8	221
8	An Adaptive RealÄTime 3D Single Particle Tracking Method for Monitoring Viral First Contacts. <i>Small</i> , 2019, 15, e1903039.	10.0	21
9	Real-Time 3D Single Particle Tracking: Towards Active Feedback Single Molecule Spectroscopy in Live Cells. <i>Molecules</i> , 2019, 24, 2826.	3.8	40
10	Continuous focal translation enhances rate of point-scan volumetric microscopy. <i>Optics Express</i> , 2019, 27, 36241.	3.4	8
11	A Protocol for Real-time 3D Single Particle Tracking. <i>Journal of Visualized Experiments</i> , 2018, , .	0.3	7
12	Robust real-time 3D single-particle tracking using a dynamically moving laser spot. <i>Optics Letters</i> , 2017, 42, 2390.	3.3	49
13	Discovery of Protein- and DNA-Imperceptible Nanoparticle Hard Coating Using Gel-Based Reaction Tuning. <i>Journal of the American Chemical Society</i> , 2015, 137, 580-583.	13.7	27
14	Imaging the behavior of molecules in biological systems: breaking the 3D speed barrier with 3D multi-resolution microscopy. <i>Faraday Discussions</i> , 2015, 184, 359-379.	3.2	13
15	Multi-resolution 3D visualization of the early stages of cellular uptake of peptide-coated nanoparticles. <i>Nature Nanotechnology</i> , 2014, 9, 198-203.	31.5	156
16	Model-free analysis of time-dependent single-molecule spectroscopy: Dynamics of biological macromolecules. , 2012, , .		1
17	Graphite-Coated Magnetic Nanoparticle Microarray for Few-Cells Enrichment and Detection. <i>ACS Nano</i> , 2012, 6, 1094-1101.	14.6	57
18	NearÄInfraredÄFluorescenceÄEnhanced Molecular Imaging of Live Cells on Gold Substrates. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 4644-4648.	13.8	78

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19	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
20	High performance in vivo near-IR (>1 μ m) imaging and photothermal cancer therapy with carbon nanotubes. Nano Research, 2010, 3, 779-793.	10.4	475
21	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
22	Metal-Enhanced Fluorescence of Carbon Nanotubes. Journal of the American Chemical Society, 2010, 132, 15920-15923.	13.7	105
23	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
24	A route to brightly fluorescent carbon nanotubes for near-infrared imaging in mice. Nature Nanotechnology, 2009, 4, 773-780.	31.5	1,068
25	Phospholipid-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
26	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
27	PEG Branched Polymer for Functionalization of Nanomaterials with Ultralong Blood Circulation. Journal of the American Chemical Society, 2009, 131, 4783-4787.	13.7	548
28	Nano-graphene oxide for cellular imaging and drug delivery. Nano Research, 2008, 1, 203-212.	10.4	3,043
29	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
30	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
31	Noncovalent Functionalization of Carbon Nanotubes by Fluorescein-Polyethylene Glycol: Supramolecular Conjugates with pH-Dependent Absorbance and Fluorescence. Journal of the American Chemical Society, 2007, 129, 2448-2449.	13.7	288
32	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