

Chia-Lung Hsieh

List of Publications by Year in descending order

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Version: 2024-02-01

67
papers

1,896
citations

304743

22
h-index

315739

38
g-index

70
all docs

70
docs citations

70
times ranked

2211
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonlinear Optical Properties of Core-Shell Nanocavities for Enhanced Second-Harmonic Generation. <i>Physical Review Letters</i> , 2010, 104, 207402.	7.8	224
2	Imaging through turbid layers by scanning the phase conjugated second harmonic radiation from a nanoparticle. <i>Optics Express</i> , 2010, 18, 20723.	3.4	213
3	Digital phase conjugation of second harmonic radiation emitted by nanoparticles in turbid media. <i>Optics Express</i> , 2010, 18, 12283.	3.4	171
4	Three-dimensional harmonic holographic microscopy using nanoparticles as probes for cell imaging. <i>Optics Express</i> , 2009, 17, 2880.	3.4	167
5	Tracking Single Particles on Supported Lipid Membranes: Multimobility Diffusion and Nanoscopic Confinement. <i>Journal of Physical Chemistry B</i> , 2014, 118, 1545-1554.	2.6	99
6	Bioconjugation of barium titanate nanocrystals with immunoglobulin G antibody for second harmonic radiation imaging probes. <i>Biomaterials</i> , 2010, 31, 2272-2277.	11.4	94
7	Nanoscale substructures of raft-mimetic liquid-ordered membrane domains revealed by high-speed single-particle tracking. <i>Scientific Reports</i> , 2016, 6, 20542.	3.3	92
8	Lithium niobate nanowires synthesis, optical properties, and manipulation. <i>Applied Physics Letters</i> , 2009, 95, 143105.	3.3	82
9	Coherent Brightfield Microscopy Provides the Spatiotemporal Resolution To Study Early Stage Viral Infection in Live Cells. <i>ACS Nano</i> , 2017, 11, 2575-2585.	14.6	80
10	Shot-noise limited localization of single 20 nm gold particles with nanometer spatial precision within microseconds. <i>Optics Express</i> , 2014, 22, 9159.	3.4	74
11	Imaging with second-harmonic radiation probes in living tissue. <i>Biomedical Optics Express</i> , 2011, 2, 2532.	2.9	57
12	Specular Scattering Probability of Acoustic Phonons in Atomically Flat Interfaces. <i>Physical Review Letters</i> , 2009, 103, 264301.	7.8	49
13	Second harmonic generation from nanocrystals under linearly and circularly polarized excitations. <i>Optics Express</i> , 2010, 18, 11917.	3.4	49
14	Three-dimensional scanning microscopy through thin turbid media. <i>Optics Express</i> , 2012, 20, 2500.	3.4	44
15	High-speed imaging and tracking of very small single nanoparticles by contrast enhanced microscopy. <i>Nanoscale</i> , 2019, 11, 568-577.	5.6	44
16	Bioorthogonal Fluorescent Nanodiamonds for Continuous Long-Term Imaging and Tracking of Membrane Proteins. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 19774-19781.	8.0	36
17	Background Estimation and Correction for High-Precision Localization Microscopy. <i>ACS Photonics</i> , 2017, 4, 1730-1739.	6.6	35
18	Monovalent and Oriented Labeling of Gold Nanoprobes for the High-Resolution Tracking of a Single-Membrane Molecule. <i>ACS Nano</i> , 2019, 13, 10918-10928.	14.6	31

#	ARTICLE	IF	CITATIONS
19	Label-free, ultrahigh-speed, 3D observation of bidirectional and correlated intracellular cargo transport by coherent brightfield microscopy. <i>Nanoscale</i> , 2017, 9, 6567-6574.	5.6	30
20	A Rhizavidin Monomer with Nearly Multimeric Avidin-Like Binding Stability Against Biotin Conjugates. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 3393-3397.	13.8	25
21	From Dynamics to Membrane Organization: Experimental Breakthroughs Occasion a Modeling Manifesto. <i>Biophysical Journal</i> , 2018, 115, 595-604.	0.5	25
22	Generation of frequency-tunable nanoacoustic waves by optical coherent control. <i>Applied Physics Letters</i> , 2005, 87, 093114.	3.3	23
23	Label-free, ultrasensitive, ultrahigh-speed scattering-based interferometric imaging. <i>Optics Communications</i> , 2018, 422, 69-74.	2.1	23
24	Two-photon microscopy of the mouse cochlea <i>in situ</i> for cellular diagnosis. <i>Journal of Biomedical Optics</i> , 2012, 18, 031104.	2.6	20
25	Glycosaminoglycans-Specific Cell Targeting and Imaging Using Fluorescent Nanodiamonds Coated with Viral Envelope Proteins. <i>Analytical Chemistry</i> , 2017, 89, 6527-6534.	6.5	18
26	Quantitative Imaging of Single Light-Absorbing Nanoparticles by Widefield Interferometric Photothermal Microscopy. <i>ACS Photonics</i> , 2021, 8, 592-602.	6.6	16
27	Reflection property of nano-acoustic wave at the air-GaN interface. <i>Applied Physics Letters</i> , 2004, 85, 4735-4737.	3.3	14
28	Characterization of Single-Protein Dynamics in Polymer-Cushioned Lipid Bilayers Derived from Cell Plasma Membranes. <i>Journal of Physical Chemistry B</i> , 2019, 123, 6492-6504.	2.6	12
29	A Rhizavidin Monomer with Nearly Multimeric Avidin-Like Binding Stability Against Biotin Conjugates. <i>Angewandte Chemie</i> , 2016, 128, 3454-3458.	2.0	8
30	Label-Free Dynamic Imaging of Chromatin in Live Cell Nuclei by High-Speed Scattering-Based Interference Microscopy. <i>ACS Nano</i> , 2022, 16, 2774-2788.	14.6	8
31	Molecularly Specific and Functional Live Cell Imaging by Label-Free Interference Microscopy. <i>ACS Photonics</i> , 2022, 9, 2237-2245.	6.6	8
32	Characterization of the cytotoxicity and imaging properties of second-harmonic nanoparticles. <i>Proceedings of SPIE</i> , 2010, , .	0.8	4
33	Three-dimensional harmonic holographic microcopy using nanoparticles as probes for cell imaging: erratum. <i>Optics Express</i> , 2010, 18, 3456.	3.4	4
34	Heterogeneous nanoscopic lipid diffusion in the live cell membrane and its dependency on cholesterol. <i>Biophysical Journal</i> , 2022, 121, 3146-3161.	0.5	4
35	Nano-ultrasonics: science and technology. , 2004, 5352, 101.		2
36	Harmonic Holography. <i>Advances in Imaging and Electron Physics</i> , 2010, , 75-112.	0.2	2

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37	Second harmonic nanoparticles in imaging applications. Proceedings of SPIE, 2011, , .	0.8	2
38	Dynamic signal of live biological cells under interferometric scattering (iSCAT) microscopy and its impacts on single-particle tracking. Journal Physics D: Applied Physics, 2021, 54, 364001.	2.8	2
39	Barium titanate nanoparticles used as second harmonic radiation imaging probes for cell imaging. , 2009, , .		2
40	Barium titanate nanoparticles used as second harmonic radiation imaging probes for cell imaging. Proceedings of SPIE, 2009, , .	0.8	1
41	Imaging of the Mouse Cochlea with Two-photon Microscopy and Multimode Fiber-based Microendoscopy. , 2014, , .		1
42	Generation, detection, and propagation of nano-acoustic waves in piezoelectric semiconductors (Invited Paper). , 2005, , .		0
43	Ultrasensitive second harmonic generation nanoprobe via plasmonic core-shell structures. , 2009, , .		0
44	Harmonic holographic microscopy with circularly polarized excitation. , 2009, , .		0
45	Optofluidic applications with lithium niobate nanowires. , 2010, , .		0
46	In vivo Imaging Using Second-Harmonic Nanoparticles. , 2011, , .		0
47	Second-harmonic nanoparticles for deep tissue in vivo imaging. , 2011, , .		0
48	Second harmonic nanoparticles in biological imaging. , 2011, , .		0
49	High-Speed Single-Particle Tracking Reveals Lipid Dynamics in Heterogeneous Raft-Containing Membranes. Biophysical Journal, 2015, 108, 79a.	0.5	0
50	Nano-Substructures of raft-Mimetic Liquid-Ordered Membrane Domains Revealed by High-Speed Single-Particle Tracking. Biophysical Journal, 2016, 110, 568a-569a.	0.5	0
51	Single Protein Dynamics in Polymer-Cushioned Lipid Bilayers Derived from Cell Plasma Membranes. Biophysical Journal, 2020, 118, 233a.	0.5	0
52	Monovalent Labeling of Gold Nanoprobes for Ultrafast Tracking of Single-Membrane Molecules in Live Cells. Biophysical Journal, 2020, 118, 233a.	0.5	0
53	Propagation studies of THz nano acoustic waves in GaN. , 2004, , .		0
54	Harmonic holographic microscopy with circularly polarized excitation. , 2009, , .		0

#	ARTICLE	IF	CITATIONS
55	Harmonic Holographic Microscopy Using Nanoparticles as Probes for Three-Dimensional Cell Imaging. , 2009, , .		0
56	Imaging Cells with Second-Harmonic Generation Active Nanocrystals. , 2010, , .		0
57	Optically Generated Electric Fields by Lithium Niobate Nanowires. , 2010, , .		0
58	Enhanced Second Harmonic Generation in Plasmonic Nanocavities. , 2010, , .		0
59	Imaging Through Turbidity by Phase-Conjugate Scanning Microscope Using Second-Harmonic Beacon Nanoparticles. , 2011, , .		0
60	Digital Holography in Nonlinear Imaging. , 2011, , .		0
61	Three-dimensional scanning microscopy through turbid media. , 2012, , .		0
62	High-Speed Single-Particle Tracking: Application to Molecular Diffusion in Biological Membranes. , 2015, , .		0
63	Coherent brightfield (COBRI) microscopy for ultrahigh-speed single particle tracking on lipid bilayer membranes. , 2018, , .		0
64	Label-Free, Ultrahigh-Speed, Direct Imaging and Tracking of Bionanoparticles in Live Cells by Using Coherent Brightfield Microscopy. Biological and Medical Physics Series, 2019, , 67-84.	0.4	0
65	Label-free imaging of cell nucleus dynamics by coherence brightfield (COBRI) microscopy. , 2021, , .		0
66	Quantitative absorption imaging of single nanoparticles by widefield interferometric photothermal microscopy. , 2021, , .		0
67	Label-free interferometric scattering imaging of molecular fluctuation predicts fluorescence nuclear microscope images. , 2021, , .		0