

Chia-Lung Hsieh

List of Publications by Year in descending order

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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	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
2	Molecularly Specific and Functional Live Cell Imaging by Label-Free Interference Microscopy. <i>ACS Photonics</i> , 2022, 9, 2237-2245.	6.6	8
3	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
4	Quantitative Imaging of Single Light-Absorbing Nanoparticles by Widefield Interferometric Photothermal Microscopy. <i>ACS Photonics</i> , 2021, 8, 592-602.	6.6	16
5	Dynamic signal of live biological cells under interferometric scattering (iSCAT) microscopy and its impacts on single-particle tracking. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 364001.	2.8	2
6	Label-free imaging of cell nucleus dynamics by coherence brightfield (COBRI) microscopy. , 2021, , .		0
7	Quantitative absorption imaging of single nanoparticles by widefield interferometric photothermal microscopy. , 2021, , .		0
8	Label-free interferometric scattering imaging of molecular fluctuation predicts fluorescence nuclear microscope images. , 2021, , .		0
9	Single Protein Dynamics in Polymer-Cushioned Lipid Bilayers Derived from Cell Plasma Membranes. <i>Biophysical Journal</i> , 2020, 118, 233a.	0.5	0
10	Monovalent Labeling of Gold Nanoprobes for Ultrafast Tracking of Single-Membrane Molecules in Live Cells. <i>Biophysical Journal</i> , 2020, 118, 233a.	0.5	0
11	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
12	High-speed imaging and tracking of very small single nanoparticles by contrast enhanced microscopy. <i>Nanoscale</i> , 2019, 11, 568-577.	5.6	44
13	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
14	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
15	Label-Free, Ultrahigh-Speed, Direct Imaging and Tracking of Bionanoparticles in Live Cells by Using Coherent Brightfield Microscopy. <i>Biological and Medical Physics Series</i> , 2019, , 67-84.	0.4	0
16	Label-free, ultrasensitive, ultrahigh-speed scattering-based interferometric imaging. <i>Optics Communications</i> , 2018, 422, 69-74.	2.1	23
17	From Dynamics to Membrane Organization: Experimental Breakthroughs Occasion a "Modeling Manifesto". <i>Biophysical Journal</i> , 2018, 115, 595-604.	0.5	25
18	Coherent brightfield (COBRI) microscopy for ultrahigh-speed single particle tracking on lipid bilayer membranes. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
19	Coherent Brightfield Microscopy Provides the Spatiotemporal Resolution To Study Early Stage Viral Infection in Live Cells. ACS Nano, 2017, 11, 2575-2585.	14.6	80
20	Label-free, ultrahigh-speed, 3D observation of bidirectional and correlated intracellular cargo transport by coherent brightfield microscopy. Nanoscale, 2017, 9, 6567-6574.	5.6	30
21	Glycosaminoglycans-Specific Cell Targeting and Imaging Using Fluorescent Nanodiamonds Coated with Viral Envelope Proteins. Analytical Chemistry, 2017, 89, 6527-6534.	6.5	18
22	Background Estimation and Correction for High-Precision Localization Microscopy. ACS Photonics, 2017, 4, 1730-1739.	6.6	35
23	A Rhizavidin Monomer with Nearly Multimeric Avidin-Like Binding Stability Against Biotin Conjugates. Angewandte Chemie, 2016, 128, 3454-3458.	2.0	8
24	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
25	Nanoscope substructures of raft-mimetic liquid-ordered membrane domains revealed by high-speed single-particle tracking. Scientific Reports, 2016, 6, 20542.	3.3	92
26	A Rhizavidin Monomer with Nearly Multimeric Avidin-Like Binding Stability Against Biotin Conjugates. Angewandte Chemie - International Edition, 2016, 55, 3393-3397.	13.8	25
27	High-Speed Single-Particle Tracking Reveals Lipid Dynamics in Heterogeneous Raft-Containing Membranes. Biophysical Journal, 2015, 108, 79a.	0.5	0
28	High-Speed Single-Particle Tracking: Application to Molecular Diffusion in Biological Membranes. , 2015, , .		0
29	Imaging of the Mouse Cochlea with Two-photon Microscopy and Multimode Fiber-based Microendoscopy. , 2014, , .		1
30	Shot-noise limited localization of single 20 nm gold particles with nanometer spatial precision within microseconds. Optics Express, 2014, 22, 9159.	3.4	74
31	Tracking Single Particles on Supported Lipid Membranes: Multimobility Diffusion and Nanoscopic Confinement. Journal of Physical Chemistry B, 2014, 118, 1545-1554.	2.6	99
32	Three-dimensional scanning microscopy through thin turbid media. Optics Express, 2012, 20, 2500.	3.4	44
33	Two-photon microscopy of the mouse cochlea <i>in situ</i> for cellular diagnosis. Journal of Biomedical Optics, 2012, 18, 031104.	2.6	20
34	Three-dimensional scanning microscopy through turbid media. , 2012, , .		0
35	Imaging with second-harmonic radiation probes in living tissue. Biomedical Optics Express, 2011, 2, 2532.	2.9	57
36	In vivo Imaging Using Second-Harmonic Nanoparticles. , 2011, , .		0

#	ARTICLE	IF	CITATIONS
37	Second-harmonic nanoparticles for deep tissue in vivo imaging. , 2011, , .		0
38	Second harmonic nanoparticles in biological imaging. , 2011, , .		0
39	Second harmonic nanoparticles in imaging applications. Proceedings of SPIE, 2011, , .	0.8	2
40	Imaging Through Turbidity by Phase-Conjugate Scanning Microscope Using Second-Harmonic Beacon Nanoparticles. , 2011, , .		0
41	Digital Holography in Nonlinear Imaging. , 2011, , .		0
42	Characterization of the cytotoxicity and imaging properties of second-harmonic nanoparticles. Proceedings of SPIE, 2010, , .	0.8	4
43	Harmonic Holography. Advances in Imaging and Electron Physics, 2010, , 75-112.	0.2	2
44	Bioconjugation of barium titanate nanocrystals with immunoglobulin G antibody for second harmonic radiation imaging probes. Biomaterials, 2010, 31, 2272-2277.	11.4	94
45	Optofluidic applications with lithium niobate nanowires. , 2010, , .		0
46	Nonlinear Optical Properties of Core-Shell Nanocavities for Enhanced Second-Harmonic Generation. Physical Review Letters, 2010, 104, 207402.	7.8	224
47	Three-dimensional harmonic holographic microcopy using nanoparticles as probes for cell imaging: erratum. Optics Express, 2010, 18, 3456.	3.4	4
48	Second harmonic generation from nanocrystals under linearly and circularly polarized excitations. Optics Express, 2010, 18, 11917.	3.4	49
49	Digital phase conjugation of second harmonic radiation emitted by nanoparticles in turbid media. Optics Express, 2010, 18, 12283.	3.4	171
50	Imaging through turbid layers by scanning the phase conjugated second harmonic radiation from a nanoparticle. Optics Express, 2010, 18, 20723.	3.4	213
51	Imaging Cells with Second-Harmonic Generation Active Nanocrystals. , 2010, , .		0
52	Optically Generated Electric Fields by Lithium Niobate Nanowires. , 2010, , .		0
53	Enhanced Second Harmonic Generation in Plasmonic Nanocavities. , 2010, , .		0
54	Ultrasensitive second harmonic generation nanoprob es via plasmonic coreshell structures. , 2009, , .		0

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55	Lithium niobate nanowires synthesis, optical properties, and manipulation. Applied Physics Letters, 2009, 95, 143105.	3.3	82
56	Barium titanate nanoparticles used as second harmonic radiation imaging probes for cell imaging. Proceedings of SPIE, 2009, , .	0.8	1
57	Three-dimensional harmonic holographic microcopy using nanoparticles as probes for cell imaging. Optics Express, 2009, 17, 2880.	3.4	167
58	Specular Scattering Probability of Acoustic Phonons in Atomically Flat Interfaces. Physical Review Letters, 2009, 103, 264301.	7.8	49
59	Harmonic holographic microscopy with circularly polarized excitation. , 2009, , .		0
60	Barium titanate nanoparticles used as second harmonic radiation imaging probes for cell imaging. , 2009, , .		2
61	Harmonic holographic microscopy with circularly polarized excitation. , 2009, , .		0
62	Harmonic Holographic Microscopy Using Nanoparticles as Probes for Three-Dimensional Cell Imaging. , 2009, , .		0
63	Generation, detection, and propagation of nano-acoustic waves in piezoelectric semiconductors (Invited Paper). , 2005, , .		0
64	Generation of frequency-tunable nanoacoustic waves by optical coherent control. Applied Physics Letters, 2005, 87, 093114.	3.3	23
65	Reflection property of nano-acoustic wave at the airâ•GaN interface. Applied Physics Letters, 2004, 85, 4735-4737.	3.3	14
66	Nano-ultrasonics: science and technology. , 2004, 5352, 101.		2
67	Propagation studies of THz nano acoustic waves in GaN. , 2004, , .		0