

Gerhard A Blab

List of Publications by Year in descending order

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44
papers

2,177
citations

361413

20
h-index

302126

39
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45
all docs

45
docs citations

45
times ranked

2499
citing authors

#	ARTICLE	IF	CITATIONS
1	Photothermal Heterodyne Imaging of Individual Nonfluorescent Nanoclusters and Nanocrystals. <i>Physical Review Letters</i> , 2004, 93, 257402.	7.8	302
2	Single Nanoparticle Photothermal Tracking (SNaPT) of 5-nm Gold Beads in Live Cells. <i>Biophysical Journal</i> , 2006, 91, 4598-4604.	0.5	223
3	Autofluorescent Proteins in Single-Molecule Research: Applications to Live Cell Imaging Microscopy. <i>Biophysical Journal</i> , 2001, 80, 2396-2408.	0.5	219
4	Photothermal heterodyne imaging of individual metallic nanoparticles: Theory versus experiment. <i>Physical Review B</i> , 2006, 73, .	3.2	207
5	Single-Molecule Imaging of L-Type Ca ²⁺ Channels in Live Cells. <i>Biophysical Journal</i> , 2001, 81, 2639-2646.	0.5	179
6	Single-Molecule Imaging of the H-Ras Membrane-Anchor Reveals Domains in the Cytoplasmic Leaflet of the Cell Membrane. <i>Biophysical Journal</i> , 2004, 86, 609-616.	0.5	140
7	Two-photon excitation action cross-sections of the autofluorescent proteins. <i>Chemical Physics Letters</i> , 2001, 350, 71-77.	2.6	122
8	Simultaneous dual-color and dual-polarization imaging of single molecules. <i>Applied Physics Letters</i> , 2000, 77, 4052-4054.	3.3	76
9	Label-free optical imaging of mitochondria in live cells. <i>Optics Express</i> , 2007, 15, 14184.	3.4	69
10	Homogeneous Detection of Single Rolling Circle Replication Products. <i>Analytical Chemistry</i> , 2004, 76, 495-498.	6.5	63
11	A modified phasor approach for analyzing time-gated fluorescence lifetime images. <i>Journal of Microscopy</i> , 2011, 244, 248-258.	1.8	54
12	Optical Readout of Gold Nanoparticle-Based DNA Microarrays without Silver Enhancement. <i>Biophysical Journal</i> , 2006, 90, L13-L15.	0.5	53
13	Probing the Influence of Disorder on Lanthanide Luminescence Using Eu-Doped LaPO ₄ Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2017, 121, 19373-19382.	3.1	51
14	Stretching Submicron Biomolecules with Constant-Force Axial Optical Tweezers. <i>Biophysical Journal</i> , 2009, 96, 4701-4708.	0.5	47
15	The Tumbleweed: Towards a synthetic protein motor. <i>HFSP Journal</i> , 2009, 3, 204-212.	2.5	35
16	Stretching single DNA molecules to demonstrate high-force capabilities of holographic optical tweezers. <i>Journal of Biophotonics</i> , 2010, 3, 224-233.	2.3	35
17	Fluorescently Labelled Silica Coated Gold Nanoparticles as Fiducial Markers for Correlative Light and Electron Microscopy. <i>Scientific Reports</i> , 2018, 8, 13625.	3.3	35
18	Time-dependent motor properties of multipedal molecular spiders. <i>Physical Review E</i> , 2011, 84, 031111.	2.1	29

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19	3D-printed external light trap for solar cells. <i>Progress in Photovoltaics: Research and Applications</i> , 2016, 24, 623-633.	8.1	26
20	Label-free fluorescence microscopy in fungi. <i>Fungal Biology Reviews</i> , 2013, 27, 60-66.	4.7	24
21	High accuracy, fiducial marker-based image registration of correlative microscopy images. <i>Scientific Reports</i> , 2019, 9, 3211.	3.3	24
22	The Role of a Phonon Bottleneck in Relaxation Processes for Ln-Doped NaYF ₄ Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2018, 122, 3985-3993.	3.1	19
23	Positional stability of holographic optical traps. <i>Optics Express</i> , 2011, 19, 21370.	3.4	16
24	Phasor based analysis of FRET images recorded using spectrally resolved lifetime imaging. <i>Methods and Applications in Fluorescence</i> , 2014, 2, 035001.	2.3	16
25	Optical Tweezers Approaches for Probing Multiscale Protein Mechanics and Assembly. <i>Frontiers in Molecular Biosciences</i> , 2020, 7, 577314.	3.5	15
26	Blind unmixing of spectrally resolved lifetime images. <i>Journal of Biomedical Optics</i> , 2013, 18, 086006.	2.6	13
27	Simultaneous wide-field imaging and spectroscopy of localized fluorophores. <i>Optics Letters</i> , 2004, 29, 727.	3.3	11
28	A classical Master equation approach to modeling an artificial protein motor. <i>Chemical Physics</i> , 2010, 375, 479-485.	1.9	10
29	Integrated super resolution fluorescence microscopy and transmission electron microscopy. <i>Ultramicroscopy</i> , 2020, 215, 113007.	1.9	10
30	Monitoring the Metabolic State of Fungal Hyphae and the Presence of Melanin by Nonlinear Spectral Imaging. <i>Applied and Environmental Microbiology</i> , 2013, 79, 6345-6350.	3.1	8
31	Motor properties from persistence: a linear molecular walker lacking spatial and temporal asymmetry. <i>New Journal of Physics</i> , 2015, 17, 055017.	2.9	8
32	Design and Construction of a One-Dimensional DNA Track for an Artificial Molecular Motor. <i>Journal of Nanomaterials</i> , 2012, 2012, 1-10.	2.7	7
33	Jammed elastic shells – a 3D experimental soft frictionless granular system. <i>Soft Matter</i> , 2015, 11, 1800-1813.	2.7	7
34	Challenges of implementing nano-specific safety and safe-by-design principles in academia. <i>NanoImpact</i> , 2020, 19, 100243.	4.5	6
35	Correlative Organelle Microscopy: Fluorescence Guided Volume Electron Microscopy of Intracellular Processes. <i>Frontiers in Cell and Developmental Biology</i> , 2022, 10, 829545.	3.7	6
36	Tethered Particle Motion Reveals that LacI-DNA Loops Coexist with a Competitor-Resistant but Apparently Unlooped Conformation. <i>Biophysical Journal</i> , 2014, 106, 705-715.	0.5	4

#	ARTICLE	IF	CITATIONS
37	Incorporation of Ln-Doped LaPO ₄ Nanocrystals as Luminescent Markers in Silica Nanoparticles. <i>Nanoscale Research Letters</i> , 2016, 11, 261.	5.7	4
38	Fluorescently Labeled Silica Coated Metal Nanoparticles as Fiducial Markers for Correlative Light and Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2016, 22, 66-67.	0.4	1
39	Correlated 3D Light Microscopy and 3D Electron Microscopy: Applications of an Integrated Setup of a CLSM and a FIB/SEM. <i>Microscopy and Microanalysis</i> , 2019, 25, 57-58.	0.4	1
40	Absorption spectroscopy of individual nano-objects and improved readout of DNA microarrays using photothermal detection., 2006, 6092, 57.		0
41	Conceptual Models for Synthetic Bipedal Motors. <i>Biophysical Journal</i> , 2011, 100, 441a.	0.5	0
42	3D-printed external light traps for solar cells. , 2015, , .		0
43	Time-resolved spectral imaging: better photon economy, higher accuracy. , 2015, , .		0
44	Feasibility of Immuno-TRITC Labeling in Integrated 3D CLEM. <i>Microscopy and Microanalysis</i> , 2016, 22, 64-65.	0.4	0