

Theobald Lohmüller

List of Publications by Year in descending order

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56
papers

2,486
citations

218381

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59
docs citations

59
times ranked

3961
citing authors

#	ARTICLE	IF	CITATIONS
1	Induction of Cell Polarization and Migration by a Gradient of Nanoscale Variations in Adhesive Ligand Spacing. <i>Nano Letters</i> , 2008, 8, 2063-2069.	4.5	292
2	Plasmonic DNA-Origami Nanoantennas for Surface-Enhanced Raman Spectroscopy. <i>Nano Letters</i> , 2014, 14, 2914-2919.	4.5	187
3	Biomimetic Interfaces for High-Performance Optics in the Deep-UV Light Range. <i>Nano Letters</i> , 2008, 8, 1429-1433.	4.5	146
4	Quantitative Single-Molecule Surface-Enhanced Raman Scattering by Optothermal Tuning of DNA Origami-Assembled Plasmonic Nanoantennas. <i>ACS Nano</i> , 2016, 10, 9809-9815.	7.3	127
5	Optical trapping and manipulation of plasmonic nanoparticles: fundamentals, applications, and perspectives. <i>Nanoscale</i> , 2014, 6, 4458.	2.8	122
6	Synthesis of Quasi-Hexagonal Ordered Arrays of Metallic Nanoparticles with Tuneable Particle Size. <i>Advanced Materials</i> , 2008, 20, 2297-2302.	11.1	118
7	Nanopatterning by block copolymer micelle nanolithography and bioinspired applications. <i>Biointerphases</i> , 2011, 6, MR1-MR12.	0.6	118
8	Nanolithography by Plasmonic Heating and Optical Manipulation of Gold Nanoparticles. <i>ACS Nano</i> , 2013, 7, 7648-7653.	7.3	95
9	Optical Injection of Gold Nanoparticles into Living Cells. <i>Nano Letters</i> , 2015, 15, 770-775.	4.5	85
10	Polymeric Substrates with Tunable Elasticity and Nanoscopically Controlled Biomolecule Presentation. <i>Langmuir</i> , 2010, 26, 15472-15480.	1.6	75
11	Light-Controlled Membrane Mechanics and Shape Transitions of Photoswitchable Lipid Vesicles. <i>Langmuir</i> , 2017, 33, 4083-4089.	1.6	74
12	Single Molecule Tracking on Supported Membranes with Arrays of Optical Nanoantennas. <i>Nano Letters</i> , 2012, 12, 1717-1721.	4.5	65
13	An Optically Controlled Microscale Elevator Using Plasmonic Janus Particles. <i>ACS Photonics</i> , 2015, 2, 491-496.	3.2	62
14	Synthesis of Gold Nanostar Arrays as Reliable, Large-Scale, Homogeneous Substrates for Surface-Enhanced Raman Scattering Imaging and Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2013, 117, 22198-22202.	1.5	61
15	Polymer Nanoreactors Shield Perovskite Nanocrystals from Degradation. <i>Nano Letters</i> , 2019, 19, 4928-4933.	4.5	57
16	Optical and Thermophoretic Control of Janus Nanoparticle Injection into Living Cells. <i>Nano Letters</i> , 2018, 18, 7935-7941.	4.5	54
17	Light-Controlled Lipid Interaction and Membrane Organization in Photolipid Bilayer Vesicles. <i>Langmuir</i> , 2018, 34, 13368-13374.	1.6	53
18	Supported Membranes Embedded with Fixed Arrays of Gold Nanoparticles. <i>Nano Letters</i> , 2011, 11, 4912-4918.	4.5	51

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19	Bending Gold Nanorods with Light. <i>Nano Letters</i> , 2016, 16, 6485-6490.	4.5	48
20	Targeting de novo lipogenesis as a novel approach in anti-cancer therapy. <i>British Journal of Cancer</i> , 2018, 118, 43-51.	2.9	47
21	Reversible control of current across lipid membranes by local heating. <i>Scientific Reports</i> , 2016, 6, 22686.	1.6	44
22	A Robust, GFP-Orthogonal Photoswitchable Inhibitor Scaffold Extends Optical Control over the Microtubule Cytoskeleton. <i>Cell Chemical Biology</i> , 2021, 28, 228-241.e6.	2.5	43
23	Optofluidic transport and manipulation of plasmonic nanoparticles by thermocapillary convection. <i>Soft Matter</i> , 2018, 14, 628-634.	1.2	38
24	A Lipid Photoswitch Controls Fluidity in Supported Bilayer Membranes. <i>Langmuir</i> , 2020, 36, 2629-2634.	1.6	38
25	Characterization of Nanopore Electrode Structures as Basis for Amplified Electrochemical Assays. <i>Electroanalysis</i> , 2006, 18, 1929-1936.	1.5	35
26	Nano-porous electrode systems by colloidal lithography for sensitive electrochemical detection: fabrication technology and properties. <i>Journal of Micromechanics and Microengineering</i> , 2008, 18, 115011.	1.5	35
27	Nanoscale Obstacle Arrays Frustrate Transport of EphA2/Ephrin-A1 Clusters in Cancer Cell Lines. <i>Nano Letters</i> , 2013, 13, 3059-3064.	4.5	28
28	Photolipid Bilayer Permeability is Controlled by Transient Pore Formation. <i>Langmuir</i> , 2020, 36, 13509-13515.	1.6	27
29	Pushing nanoparticles with light – A femtonewton resolved measurement of optical scattering forces. <i>APL Photonics</i> , 2016, 1, .	3.0	24
30	Plasmonic Nanoantenna Arrays for Surface-Enhanced Raman Spectroscopy of Lipid Molecules Embedded in a Bilayer Membrane. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 8947-8952.	4.0	23
31	Fractional revivals in the rovibrational motion of I ₂ . <i>Journal of Chemical Physics</i> , 2004, 120, 10442-10449.	1.2	22
32	Size-Based Chromatography of Signaling Clusters in a Living Cell Membrane. <i>Nano Letters</i> , 2014, 14, 2293-2298.	4.5	21
33	Optical Membrane Control with Red Light Enabled by Red-Shifted Photolipids. <i>Langmuir</i> , 2022, 38, 385-393.	1.6	21
34	Shrink-to-fit Plasmonic Nanostructures. <i>Advanced Optical Materials</i> , 2013, 1, 123-127.	3.6	19
35	Growth mechanisms of phthalocyanine nanowires induced by Au nanoparticle templates. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 5940.	1.3	18
36	Trans-membrane Fluorescence Enhancement by Carbon Dots: Ionic Interactions and Energy Transfer. <i>Nano Letters</i> , 2019, 19, 3886-3891.	4.5	18

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37	One-Dimensional Phthalocyanine Nanostructures Directed by Gold Templates. <i>Chemistry of Materials</i> , 2009, 21, 5010-5015.	3.2	15
38	Direct optical monitoring of flow generated by bacterial flagellar rotation. <i>Applied Physics Letters</i> , 2014, 104, 093701.	1.5	14
39	Self-Assembly of Phthalocyanine Nanotubes by Vapor-Phase Transport. <i>ChemPhysChem</i> , 2008, 9, 1114-1116.	1.0	11
40	Plasmonic Nanoagents in Biophysics and Biomedicine. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	7
41	Product piracy from nature: biomimetic microstructures and interfaces for high-performance optics. <i>Proceedings of SPIE</i> , 2008, , .	0.8	6
42	(INVITED) Infrared-to-ultraviolet upconverting nanoparticles for COVID-19-related disinfection applications. <i>Optical Materials: X</i> , 2021, 12, 100099.	0.3	6
43	Chirped pulse ionization: bondlength dynamics and interference effects. <i>Chemical Physics Letters</i> , 2003, 373, 319-327.	1.2	5
44	Contactless and spatially structured cooling by directing thermal radiation. <i>Scientific Reports</i> , 2021, 11, 16209.	1.6	5
45	Determination of transition dipole moments from time-resolved photoelectron spectroscopy. <i>European Physical Journal D</i> , 2003, 25, 95-99.	0.6	4
46	Detecting Swelling States of Red Blood Cells by "Cell-Fluid Coupling Spectroscopy". <i>Advanced Science</i> , 2017, 4, 1600238.	5.6	4
47	Analyzing the Movement of the Nauplius & Artemia salina; by Optical Tracking of Plasmonic Nanoparticles. <i>Journal of Visualized Experiments</i> , 2014, , .	0.2	3
48	Improved Properties of Optical Surfaces by Following the Example of the "Moth Eye", 0, , .		3
49	Controlling Non-Equilibrium Structure Formation on the Nanoscale. <i>ChemPhysChem</i> , 2017, 18, 3437-3442.	1.0	1
50	Entspiegelung nach dem Vorbild von Mottenaugen. <i>Physik in Unserer Zeit</i> , 2008, 39, 266-267.	0.0	0
51	ELECTRONIC STRUCTURES OF NAKED AND MOLECULAR ENCAPSULATED Au NANOPARTICLES. <i>International Journal of Nanoscience</i> , 2009, 08, 181-184.	0.4	0
52	Investigating the Dynamic Behavior of TCR Microclusters by a Gold Nanoparticle Array. <i>Biophysical Journal</i> , 2013, 104, 119a.	0.2	0
53	Investigation of Diffusion in Structured Samples using Fluorescence Pair Cross Correlation. <i>Biophysical Journal</i> , 2014, 106, 197a.	0.2	0
54	"Optical Shaking" of Red Blood Cells: A Strategy to Measure Cell-Fluid Coupling with Optical Tweezers. <i>Biophysical Journal</i> , 2016, 110, 134a.	0.2	0

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55	Strategies for Nanofabrication based on Optothermal Manipulation of Plasmonic Nanoparticles. , 2015, , .		0
56	Photonics and Optoelectronics of Nanosystems. Advanced Optical Materials, 2022, 10, .	3.6	0