Theobald LohmÃ¼ller

List of Publications by Year
in descending order

56	2,486	218381	205818
papers	citations	26 h-index	48 g-index

59	59	59	3961
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Optical Membrane Control with Red Light Enabled by Red-Shifted Photolipids. Langmuir, 2022, 38, 385-393.	1.6	21
2	Plasmonic Nanoagents in Biophysics and Biomedicine. Advanced Optical Materials, 2022, 10, .	3.6	7
3	Photonics and Optoelectronics of Nanosystems. Advanced Optical Materials, 2022, 10, .	3.6	0
4	A Robust, GFP-Orthogonal Photoswitchable Inhibitor Scaffold Extends Optical Control over the Microtubule Cytoskeleton. Cell Chemical Biology, 2021, 28, 228-241.e6.	2.5	43
5	Contactless and spatially structured cooling by directing thermal radiation. Scientific Reports, 2021, 11, 16209.	1.6	5
6	(INVITED) Infrared-to-ultraviolet upconverting nanoparticles for COVID-19-related disinfection applications. Optical Materials: X, 2021, 12, 100099.	0.3	6
7	Photolipid Bilayer Permeability is Controlled by Transient Pore Formation. Langmuir, 2020, 36, 13509-13515.	1.6	27
8	A Lipid Photoswitch Controls Fluidity in Supported Bilayer Membranes. Langmuir, 2020, 36, 2629-2634.	1.6	38
9	Polymer Nanoreactors Shield Perovskite Nanocrystals from Degradation. Nano Letters, 2019, 19, 4928-4933.	4.5	57
10	Trans-membrane Fluorescence Enhancement by Carbon Dots: Ionic Interactions and Energy Transfer. Nano Letters, 2019, 19, 3886-3891.	4.5	18
11	Optofluidic transport and manipulation of plasmonic nanoparticles by thermocapillary convection. Soft Matter, 2018, 14, 628-634.	1.2	38
12	Targeting de novo lipogenesis as a novel approach in anti-cancer therapy. British Journal of Cancer, 2018, 118, 43-51.	2.9	47
13	Optical and Thermophoretic Control of Janus Nanopen Injection into Living Cells. Nano Letters, 2018, 18, 7935-7941.	4.5	54
14	Light-Controlled Lipid Interaction and Membrane Organization in Photolipid Bilayer Vesicles. Langmuir, 2018, 34, 13368-13374.	1.6	53
15	Light-Controlled Membrane Mechanics and Shape Transitions of Photoswitchable Lipid Vesicles. Langmuir, 2017, 33, 4083-4089.	1.6	74
16	Controlling Nonâ€Equilibrium Structure Formation on the Nanoscale. ChemPhysChem, 2017, 18, 3437-3442.	1.0	1
17	Detecting Swelling States of Red Blood Cells by â€œCellâ€“Fluid Coupling Spectroscopyâ€• Advanced Science, 2017, 4, 1600238.	5.6	4
18	Pushing nanoparticles with light â€” A femtonewton resolved measurement of optical scattering forces. APL Photonics, 2016, 1, .	3.0	24

#	Article	IF	Citations
19	Bending Gold Nanorods with Light. Nano Letters, 2016, 16, 6485-6490.	4.5	48
20	Quantitative Single-Molecule Surface-Enhanced Raman Scattering by Optothermal Tuning of DNA Origami-Assembled Plasmonic Nanoantennas. ACS Nano, 2016, 10, 9809-9815.	7.3	127
21	Reversible control of current across lipid membranes by local heating. Scientific Reports, 2016, 6, 22686.	1.6	44
22	â€˜Optical Shakingâ€™ of Red Blood Cells: A Strategy to Measure Cell-Fluid Coupling with Optical Tweezers. Biophysical Journal, 2016, 110, 134a.	0.2	0
23	Optical Injection of Gold Nanoparticles into Living Cells. Nano Letters, 2015, 15, 770-775.	4.5	85
24	An Optically Controlled Microscale Elevator Using Plasmonic Janus Particles. ACS Photonics, 2015, 2, 491-496.	3.2	62
25	Strategies for Nanofabrication based on Optothermal Manipulation of Plasmonic Nanoparticles. , 2015, , .		0
26	Direct optical monitoring of flow generated by bacterial flagellar rotation. Applied Physics Letters, 2014, 104, 093701.	1.5	14
27	Optical trapping and manipulation of plasmonic nanoparticles: fundamentals, applications, and perspectives. Nanoscale, 2014, 6, 4458.	2.8	122
28	Size-Based Chromatography of Signaling Clusters in a Living Cell Membrane. Nano Letters, 2014, 14, 2293-2298.	4.5	21
29	Plasmonic DNA-Origami Nanoantennas for Surface-Enhanced Raman Spectroscopy. Nano Letters, 2014, 14, 2914-2919.	4.5	187
30	Plasmonic Nanoantenna Arrays for Surface-Enhanced Raman Spectroscopy of Lipid Molecules Embedded in a Bilayer Membrane. ACS Applied Materials & Interfaces, 2014, 6, 8947-8952.	4.0	23
31	Investigation of Diffusion in Structured Samples using Fluorescence Pair Cross Correlation. Biophysical Journal, 2014, 106, 197a.	0.2	0
32	Analyzing the Movement of the Nauplius ‘Artemia salina’ by Optical Tracking of Plasmonic Nanoparticles. Journal of Visualized Experiments, 2014, , .	0.2	3
33	Nanolithography by Plasmonic Heating and Optical Manipulation of Gold Nanoparticles. ACS Nano, 2013, 7, 7648-7653.	7.3	95
34	Investigating the Dynamic Behavior of TCR Microclusters by a Gold Nanoparticle Array. Biophysical Journal, 2013, 104, 119a.	0.2	0
35	Shrinkâ€toâ€fit Plasmonic Nanostructures. Advanced Optical Materials, 2013, 1, 123-127.	3.6	19
36	Synthesis of Gold Nanostar Arrays as Reliable, Large-Scale, Homogeneous Substrates for Surface-Enhanced Raman Scattering Imaging and Spectroscopy. Journal of Physical Chemistry C, 2013, 117, 22198-22202.	1.5	61

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37	Nanoscale Obstacle Arrays Frustrate Transport of EphA2â€“Ephrin-A1 Clusters in Cancer Cell Lines. Nano Letters, 2013, 13, 3059-3064.	4.5	28
38	Single Molecule Tracking on Supported Membranes with Arrays of Optical Nanoantennas. Nano Letters, 2012, 12, 1717-1721.	4.5	65
39	Growth mechanisms of phthalocyanine nanowires induced by Au nanoparticle templates. Physical Chemistry Chemical Physics, 2011, 13, 5940.	1.3	18
40	Supported Membranes Embedded with Fixed Arrays of Gold Nanoparticles. Nano Letters, 2011, 11, 4912-4918.	4.5	51
41	Nanopatterning by block copolymer micelle nanolithography and bioinspired applications. Biointerphases, 2011, 6, MR1-MR12.	0.6	118
42	Polymeric Substrates with Tunable Elasticity and Nanoscopically Controlled Biomolecule Presentation. Langmuir, 2010, 26, 15472-15480.	1.6	75
43	ELECTRONIC STRUCTURES OF NAKED AND MOLECULAR ENCAPSULATED Au NANOPARTICLES. International Journal of Nanoscience, 2009, 08, 181-184.	0.4	0
44	One-Dimensional Phthalocyanine Nanostructures Directed by Gold Templates. Chemistry of Materials, 2009, 21, 5010-5015.	3.2	15
45	Entspiegelung nach dem Vorbild von Mottenaugen. Physik in Unserer Zeit, 2008, 39, 266-267.	0.0	0
46	Selfâ€Assembly of Phthalocyanine Nanotubes by Vaporâ€Phase Transport. ChemPhysChem, 2008, 9, 1114-1116.	1.0	11
47	Synthesis of Quasiâ€Hexagonal Ordered Arrays of Metallic Nanoparticles with Tuneable Particle Size. Advanced Materials, 2008, 20, 2297-2302.	11.1	118
48	Biomimetic Interfaces for High-Performance Optics in the Deep-UV Light Range. Nano Letters, 2008, 8, 1429-1433.	4.5	146
49	Induction of Cell Polarization and Migration by a Gradient of Nanoscale Variations in Adhesive Ligand Spacing. Nano Letters, 2008, 8, 2063-2069.	4.5	292
50	Nano-porous electrode systems by colloidal lithography for sensitive electrochemical detection: fabrication technology and properties. Journal of Micromechanics and Microengineering, 2008, 18, 115011.	1.5	35
51	Product piracy from nature: biomimetic microstructures and interfaces for high-performance optics. Proceedings of SPIE, 2008, , .	0.8	6
52	Characterization of Nanopore Electrode Structures as Basis for Amplified Electrochemical Assays. Electroanalysis, 2006, 18, 1929-1936.	1.5	35
53	Fractional revivals in the rovibrational motion of I2. Journal of Chemical Physics, 2004, 120, 10442-10449.	1.2	22
54	Determination of transition dipole moments from time-resolved photoelectron spectroscopy. European Physical Journal D, 2003, 25, 95-99.	0.6	4

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55	Chirped pulse ionization: bondlength dynamics and interference effects. Chemical Physics Letters, 2003, 373, 319-327.	1.2	5
56	Improved Properties of Optical Surfaces by Following the Example of the â€œMoth Eyeâ€• , 0, , .		3