Chenglong Zhao

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8536604/publications.pdf

Version: 2024-02-01

50 papers	1,431 citations	331259 21 h-index	329751 37 g-index
52 all docs	52 docs citations	52 times ranked	1997 citing authors

#	Article	IF	Citations
1	Theory and experiment on particle trapping and manipulation via optothermally generated bubbles. Lab on A Chip, 2014, 14, 384-391.	3.1	136
2	A reconfigurable plasmofluidic lens. Nature Communications, 2013, 4, 2305.	5.8	127
3	In Situ Fabrication of 3D Ag@ZnO Nanostructures for Microfluidic Surface-Enhanced Raman Scattering Systems. ACS Nano, 2014, 8, 12175-12184.	7.3	106
4	An experimental study of the plasmonic Talbot effect. Optics Express, 2009, 17, 19757.	1.7	72
5	An optothermally generated surface bubble and its applications. Nanoscale, 2017, 9, 6622-6631.	2.8	70
6	Refractive index sensor based on surface-plasmon interference. Optics Letters, 2009, 34, 392.	1.7	68
7	Optimization and Structural Stability of Gold Nanoparticleâ€“Antibody Bioconjugates. ACS Omega, 2019, 4, 15269-15279.	1.6	68
8	Largeâ€Scale Fabrication of Threeâ€Dimensional Surface Patterns Using Templateâ€Defined Electrochemical Deposition. Advanced Functional Materials, 2013, 23, 720-730.	7.8	67
9	Optoacoustic tweezers: a programmable, localized cell concentrator based on opto-thermally generated, acoustically activated, surface bubbles. Lab on A Chip, 2013, 13, 1772.	3.1	63
10	Plasmonic Demultiplexer and Guiding. ACS Nano, 2010, 4, 6433-6438.	7.3	61
11	Plasmofluidics: Merging Light and Fluids at the Micro-/Nanoscale. Small, 2015, 11, 4423-4444.	5.2	61
12	Colour compound lenses for a portable fluorescence microscope. Light: Science and Applications, 2019, 8, 75.	7.7	61
13	Probing Cell Deformability via Acoustically Actuated Bubbles. Small, 2016, 12, 902-910.	5.2	60
14	Biomimetic apposition compound eye fabricated using microfluidic-assisted 3D printing. Nature Communications, 2021, 12, 6458.	5.8	51
15	Single-molecule detection and radiation control in solutions at high concentrations via a heterogeneous optical slot antenna. Nanoscale, 2014, 6, 9103-9109.	2.8	33
16	Binary plasmonics: launching surface plasmon polaritons to a desired pattern. Optics Letters, 2009, 34, 2417.	1.7	30
17	Dark-Field Illumination on Zero-Mode Waveguide/Microfluidic Hybrid Chip Reveals T4 Replisomal Protein Interactions. Nano Letters, 2014, 14, 1952-1960.	4.5	28
18	Optothermal microbubble assisted manufacturing of nanogap-rich structures for active chemical sensing. Nanoscale, 2019, 11, 20589-20597.	2.8	24

#	Article	IF	Citations
19	Single-molecule detection at high concentrations with optical aperture nanoantennas. Nanoscale, 2016, 8, 9480-9487.	2.8	23
20	Additive Opto-Thermomechanical Nanoprinting and Nanorepairing under Ambient Conditions. Nano Letters, 2020, 20, 5057-5064.	4.5	22
21	Focusing surface plasmons to multiple focal spots with a launching diffraction grating. Applied Physics Letters, 2009, 94, 111105.	1.5	21
22	Does the leakage radiation profile mirror the intensity profile of surface plasmon polaritons?. Optics Letters, 2010, 35, 1944.	1.7	19
23	Light manipulation with encoded plasmonic nanostructures. EPJ Applied Metamaterials, 2014, 1, 6.	0.8	16
24	Practical guide to the realization of a convertible optical trapping system. Optics Express, 2017, 25, 2496.	1.7	16
25	Laser additive nano-manufacturing under ambient conditions. Nanoscale, 2019, 11, 16187-16199.	2.8	16
26	Acoustofluidic Scanning Nanoscope with High Resolution and Large Field of View. ACS Nano, 2020, 14, 8624-8633.	7.3	16
27	Fabricated nanogap-rich plasmonic nanostructures through an optothermal surface bubble in a droplet. Optics Letters, 2018, 43, 334.	1.7	16
28	Nondestructive Approach for Additive Nanomanufacturing of Metallic Nanostructures in the Air. ACS Omega, 2018, 3, 1213-1219.	1.6	15
29	Flexible wavefront manipulation of surface plasmon polaritons without mechanical motion components. Applied Physics Letters, 2011, 98, .	1.5	14
30	Print metallic nanoparticles on a fiber probe for 1064-nm surface-enhanced Raman scattering. Optics Letters, 2019, 44, 4997.	1.7	14
31	Review of optical detection of single molecules beyond the diffraction and diffusion limit using plasmonic nanostructures. Journal of Nanophotonics, 2017, 12, 012504.	0.4	10
32	Intelligent nanoscope for rapid nanomaterial identification and classification. Lab on A Chip, 0, , .	3.1	6
33	Detection and Aggregation of Listeria Monocytogenes Using Polyclonal Antibody Gold-Coated Magnetic Nanoshells Surface-Enhanced Raman Spectroscopy Substrates. Frontiers in Nanotechnology, 2021, 3, .	2.4	5
34	Plasmonic Polycrystals within Microbowl Arrays. Advanced Optical Materials, 2022, 10, .	3.6	4
35	Coupling between surface plasmon polaritons and transverse electric polarized light via L-shaped nano-apertures. Optics Letters, 2015, 40, 978.	1.7	3
36	Estimation of thermocapillary force during laser trapping of confined microbubbles in a liquid. Optical Engineering, 2018, 57, 1.	0.5	3

#	Article	IF	Citations
37	Reconfigurable Plasmofluidic Lenses. , 2014, , .		2
38	Plasmofluidics: Plasmofluidics: Merging Light and Fluids at the Micro-/Nanoscale (Small 35/2015). Small, 2015, 11, 4422-4422.	5.2	1
39	Optical trapping of metallic nanoparticles using microbubbles. , 2017, , .		1
40	Generation of a ring-shaped focusing spot with precisely controllable position and diameter. Journal of the Optical Society of America B: Optical Physics, 2018, 35, 987.	0.9	1
41	Dynamics of thermally generated microbubbles. , 2018, , .		1
42	Does the leakage radiation profile mirror the intensity profile of surface plasmon polaritons?: reply to comment. Optics Letters, 2011, 36, 2517.	1.7	0
43	Optical trapping of nanoparticles with significantly reduced laser powers by using counter-propagating beams (Presentation Recording). , 2015, , .		0
44	Light and Particle Manipulation Based on Optothermal Surface Bubbles. , 2017, , .		0
45	Optical manipulation with an optothermal surface bubble for ultrasensitive sensing. , 2019, , .		0
46	Laser Additive Manufacturing through Opto-thermo- mechanical Printing under Ambient Conditions. , 2020, , .		0
47	Laser additive manufacturing at the nanoscales under ambient conditions. , 2020, , .		0
48	Active and Ultrasensitive Chemical and Biosensing through Optothermally Generated Microbubble. , 2020, , .		0
49	Opto-Thermomechanical Nanoprinting and Nanorepairing. , 2020, , .		0
50	Opto-Thermomechanical Nanoprinting under ambient conditions. , 2021, , .		0