Yinzhou Yan

List of Publications by Year
in descending order

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		687363	454955
44	932	13	30
papers	citations	h-index	g-index

44	44	44	893
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Label-free super-resolution imaging of adenoviruses by submerged microsphere optical nanoscopy. Light: Science and Applications, 2013, 2, e104-e104.	16.6	229
2	Microsphere-Coupled Scanning Laser Confocal Nanoscope for Sub-Diffraction-Limited Imaging at 25 nm Lateral Resolution in the Visible Spectrum. ACS Nano, 2014, 8, 1809-1816.	14.6	179
3	3D printing of hydroxyapatite scaffolds with good mechanical and biocompatible properties by digital light processing. Journal of Materials Science, 2018, 53, 6291-6301.	3.7	142
4	Ten-fold enhancement of ZnO thin film ultraviolet-luminescence by dielectric microsphere arrays. Optics Express, 2014, 22, 23552.	3.4	43
5	Self-assembled dielectric microsphere array enhanced Raman scattering for large-area and ultra-long working distance confocal detection. Optics Express, 2015, 23, 25854.	3.4	33
6	Flexible Microsphere-Embedded Film for Microsphere-Enhanced Raman Spectroscopy. ACS Applied Materials & Interfaces, 2017, 9, 32896-32906.	8.0	33
7	A novel ultra-thin-walled ZnO microtube cavity supporting multiple optical modes for bluish-violet photoluminescence, low-threshold ultraviolet lasing and microfluidic photodegradation. NPG Asia Materials, 2017, 9, e442-e442.	7.9	33
8	Free-Standing Undoped ZnO Microtubes with Rich and Stable Shallow Acceptors. Scientific Reports, 2016, 6, 27341.	3.3	29
9	Experimental and numerical study on growth of high-quality ZnO single-crystal microtubes by optical vapor supersaturated precipitation method. Journal of Crystal Growth, 2017, 468, 638-644.	1.5	19
10	Ultraviolet luminescence enhancement of planar wide bandgap semiconductor film by a hybrid microsphere cavity/dual metallic nanoparticles sandwich structure. Optics Express, 2019, 27, 15399.	3.4	16
11	Sandwich-structure-modulated photoluminescence enhancement of wide bandgap semiconductors capping with dielectric microsphere arrays. Optics Express, 2017, 25, 6000.	3.4	15
12	CO2 laser high-speed crack-free cutting of thick-section alumina based on close-piercing lapping technique. International Journal of Advanced Manufacturing Technology, 2013, 64, 1611-1624.	3.0	14
13	Over 1000â€Fold Enhancement of the Unidirectional Photoluminescence from a Microphereâ€Cavityâ€Arrayâ€Capped QD/PDMS Composite Film for Flexible Lighting and Displays. Advanced Optical Materials, 2019, 7, 1901228.	7.3	14
14	Enhanced properties of hierarchically-nanostructured undoped acceptor-rich ZnO single-crystal microtube irradiated by UV laser. Journal of Alloys and Compounds, 2019, 789, 841-851.	5.5	11
15	Wide-bandgap semiconductor microtubular homojunction photodiode for high-performance UV detection. Journal of Alloys and Compounds, 2021, 887, 161429.	5.5	11
16	In situ SERS monitoring of plasmon-driven catalytic reaction on gap-controlled Ag nanoparticle arrays under 785Ânm irradiation. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 270, 120803.	3.9	10
17	Cascaded microsphere-coupled surface-enhanced Raman spectroscopy (CMS-SERS) for ultrasensitive trace-detection. Nanophotonics, 2022, 11, 559-570.	6.0	9
18	Controllable plasmon-induced catalytic reaction by surface-enhanced and tip-enhanced Raman spectroscopy. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 219, 539-546.	3.9	8

#	Article	IF	Citations
19	Parametric study on photoluminescence enhancement of high-quality zinc oxide single-crystal capping with dielectric microsphere array. Applied Optics, 2018, 57, 7740.	1.8	7
20	Porous silicon with double band photoluminescence fabricated by chemical-assisted picosecond laser irradiation. Journal of Laser Applications, 2016, 28, .	1.7	6
21	Current-Induced Thermal Tunneling Electroluminescence in a Single Highly Compensated Semiconductor Microrod. IScience, 2020, 23, 101210.	4.1	6
22	Spontaneous Radiation Amplification in a Microsphereâ€Coupled CsPbBr₃ Perovskite Vertical Structure. Advanced Optical Materials, 2021, 9, 2001932.	7.3	6
23	Thermal-Assisted UV-Photon Irradiation to Improve Crystallization and Luminescence Efficiency of ZnO. IEEE Transactions on Electron Devices, 2021, 68, 3283-3289.	3.0	6
24	Synthesis of highly conductive thin-walled Al-doped ZnO single-crystal microtubes by a solid state method. Journal of Crystal Growth, 2018, 491, 97-102.	1.5	5
25	Optimized optical vapor supersaturated precipitation for time-saving growth of ultrathin-walled ZnO single-crystal microtubes. Journal of Crystal Growth, 2018, 498, 25-34.	1.5	5
26	Tubular acceptor-rich ZnO hierarchical heterostructure as an efficient photocatalyst for organic degradation. Applied Surface Science, 2020, 506, 145008.	6.1	5
27	Current-induced thermal tunneling electroluminescence via multiple donorâ€“acceptor-pair recombination. Journal of Materials Chemistry C, 2021, 9, 1174-1182.	5.5	5
28	Efficient defect control of zinc vacancy in undoped ZnO microtubes for optoelectronic applications. Journal of Applied Physics, 2022, 131, .	2.5	5
29	Flexible microsphereâ€coupled surfaceâ€enhanced Raman spectroscopy (McSERS) by dielectric microsphere cavity array with random plasmonic nanoparticles. Journal of Raman Spectroscopy, 2022, 53, 1238-1248.	2.5	5
30	Ultrathin alumina membranes for the fabrication of blackberry-like gold nanostructure arrays. Journal of Materials Science, 2018, 53, 16122-16131.	3.7	4
31	Angle-dependent excitonic luminescence in semiconductor microtube cavity: The self-absorption effect. Journal of Luminescence, 2019, 208, 238-244.	3.1	4
32	Picosecond laser surface micropatterning of ceramics by optical fiber induction. Applied Physics A: Materials Science and Processing, 2015, 119, 1061-1067.	2.3	3
33	Microsphere Photonic Superlens for a Highly Emissive Flexible Upconversion-Nanoparticle-Embedded Film. ACS Applied Materials & Interfaces, 2022, , .	8.0	3
34	Laser crack-free cutting technique for thick and dense ceramics. , 2009, , .		2
35	Free-standing In2O3(ZnO)m superlattice microplates grown by optical vapor supersaturated precipitation. Journal of Materials Science, 2021, 56, 13723-13735.	3.7	2
36	High-Performance Flexible Transparent Electrodes Fabricated via Laser Nano-Welding of Silver Nanowires. Crystals, 2021, 11, 996.	2.2	2

#	Article	IF	Citations
37	Facile and efficient preparation of high-quality black phosphorus quantum dot films for sensing applications. RSC Advances, 2020, 10, 13379-13385.	3.6	2
38	Parallel-axis positioning device for laser processing: Design and applications. , 2009, , .		1
39	A statistical model for research on the focal position effect on the taper of laser drilling. , 2008, , .		0
40	Study on the machining process of a new laser crack-free cutting technique for ceramics. , 2008, , .		0
41	Free-standing undoped acceptor-rich ZnO microtubes and their unique optical properties as ultrathin-walled microcavites. , 2017, , .		0
42	Photoluminescence Enhancement: Over 1000â€Fold Enhancement of the Unidirectional Photoluminescence from a Microsphereâ€Cavityâ€Arrayâ€Capped QD/PDMS Composite Film for Flexible Lighting and Displays (Advanced Optical Materials 24/2019). Advanced Optical Materials, 2019, 7, 1970094.	7.3	0
43	Spontaneous Radiation Amplification in a Microsphereâ€Coupled CsPbBr₃ Perovskite Vertical Structure (Advanced Optical Materials 6/2021). Advanced Optical Materials, 2021, 9, 2170023.	7.3	0
44	Flexible Dielectric Microsphere-Embedded Film for Enhanced-Raman Spectroscopy. , 2018, , .		0