

Zijie Yan

List of Publications by Year in descending order

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72
papers

2,570
citations

159585

30
h-index

189892

50
g-index

72
all docs

72
docs citations

72
times ranked

3251
citing authors

#	ARTICLE	IF	CITATIONS
1	Anatase TiO ₂ single crystals with exposed {001} and {110} facets: facile synthesis and enhanced photocatalysis. <i>Chemical Communications</i> , 2010, 46, 1664.	4.1	329
2	Pulsed laser ablation in liquid for micro-/nanosstructure generation. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2012, 13, 204-223.	11.6	280
3	Three-Dimensional Optical Trapping and Manipulation of Single Silver Nanowires. <i>Nano Letters</i> , 2012, 12, 5155-5161.	9.1	101
4	Guiding Spatial Arrangements of Silver Nanoparticles by Optical Binding Interactions in Shaped Light Fields. <i>ACS Nano</i> , 2013, 7, 1790-1802.	14.6	96
5	Potential energy surfaces and reaction pathways for light-mediated self-organization of metal nanoparticle clusters. <i>Nature Communications</i> , 2014, 5, 3751.	12.8	80
6	Impact of annealing on morphology and ferromagnetism of ZnO nanorods. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	79
7	Fabrication of a Material Assembly of Silver Nanoparticles Using the Phase Gradients of Optical Tweezers. <i>Physical Review Letters</i> , 2015, 114, 143901.	7.8	76
8	Single-atom-sized Ni ⁴⁺ sites anchored in three-dimensional hierarchical carbon nanostructures for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2020, 8, 15012-15022.	10.3	75
9	Optical Vortex Induced Rotation of Silver Nanowires. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 2937-2942.	4.6	72
10	Hollow Particles Formed on Laser-Induced Bubbles by Excimer Laser Ablation of Al in Liquid. <i>Journal of Physical Chemistry C</i> , 2010, 114, 11370-11374.	3.1	67
11	Hierarchical TiO ₂ Nanospheres with Dominant {001} Facets: Facile Synthesis, Growth Mechanism, and Photocatalytic Activity. <i>Chemistry - A European Journal</i> , 2012, 18, 7525-7532.	3.3	63
12	Crossover from positive to negative optical torque in mesoscale optical matter. <i>Nature Communications</i> , 2018, 9, 4897.	12.8	50
13	Why Single-Beam Optical Tweezers Trap Gold Nanowires in Three Dimensions. <i>ACS Nano</i> , 2013, 7, 8794-8800.	14.6	49
14	Excimer laser ablation of a Pt target in water: the observation of hollow particles. <i>Nanotechnology</i> , 2010, 21, 145609.	2.6	47
15	Driven optical matter: Dynamics of electrodynamically coupled nanoparticles in an optical ring vortex. <i>Physical Review E</i> , 2017, 95, 022604.	2.1	47
16	Controlling the Position and Orientation of Single Silver Nanowires on a Surface Using Structured Optical Fields. <i>ACS Nano</i> , 2012, 6, 8144-8155.	14.6	46
17	Generation of AgCl Cubes by Excimer Laser Ablation of Bulk Ag in Aqueous NaCl Solutions. <i>Journal of Physical Chemistry C</i> , 2011, 115, 5058-5062.	3.1	42
18	Optical Printing of Electrodynamically Coupled Metallic Nanoparticle Arrays. <i>Journal of Physical Chemistry C</i> , 2014, 118, 19315-19321.	3.1	40

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19	Excimer Laser Production, Assembly, Sintering, and Fragmentation of Novel Fullerene-like Permalloy Particles in Liquid. <i>Journal of Physical Chemistry C</i> , 2010, 114, 3869-3873.	3.1	39
20	Generation of Ag ₂ O Micro-/Nanostructures by Pulsed Excimer Laser Ablation of Ag in Aqueous Solutions of Polysorbate 80. <i>Langmuir</i> , 2011, 27, 851-855.	3.5	39
21	Extraordinary room-temperature hydrogen sensing capabilities of porous bulk Pt@TiO ₂ nanocomposite ceramics. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 3307-3312.	7.1	39
22	Dissipative Self-Assembly of Anisotropic Nanoparticle Chains with Combined Electrodynamic and Electrostatic Interactions. <i>Advanced Materials</i> , 2018, 30, e1803238.	21.0	38
23	Sorting Metal Nanoparticles with Dynamic and Tunable Optical Driven Forces. <i>Nano Letters</i> , 2018, 18, 4500-4505.	9.1	38
24	Enhancing the Plasmon Resonance Absorption of Multibranched Gold Nanoparticles in the Near-Infrared Region for Photothermal Cancer Therapy: Theoretical Predictions and Experimental Verification. <i>Chemistry of Materials</i> , 2019, 31, 471-482.	6.7	36
25	Mechanism study on extraordinary room-temperature CO sensing capabilities of Pd-SnO ₂ composite nanoceramics. <i>Sensors and Actuators B: Chemical</i> , 2019, 285, 49-55.	7.8	36
26	Hollow nanoparticle generation on laser-induced cavitation bubbles via bubble interface pinning. <i>Applied Physics Letters</i> , 2010, 97, .	3.3	34
27	Antibacterial and surface-enhanced Raman scattering (SERS) activities of AgCl cubes synthesized by pulsed laser ablation in liquid. <i>Applied Surface Science</i> , 2012, 258, 9218-9222.	6.1	34
28	Enhancing Nanoparticle Electrostatics with Gold Nanoplate Mirrors. <i>Nano Letters</i> , 2014, 14, 2436-2442.	9.1	32
29	Highly mobile and reactive state of hydrogen in metal oxide semiconductors at room temperature. <i>Scientific Reports</i> , 2013, 3, 3149.	3.3	31
30	Creating Multifunctional Optofluidic Potential Wells for Nanoparticle Manipulation. <i>Nano Letters</i> , 2018, 18, 7400-7406.	9.1	30
31	Silver@Nanowire-Based Interferometric Optical Tweezers for Enhanced Optical Trapping and Binding of Nanoparticles. <i>Advanced Functional Materials</i> , 2019, 29, 1808258.	14.9	30
32	Optical matter machines: angular momentum conversion by collective modes in optically bound nanoparticle arrays. <i>Optica</i> , 2020, 7, 1341.	9.3	28
33	Laser direct-write of single microbeads into spatially-ordered patterns. <i>Biofabrication</i> , 2012, 4, 025006.	7.1	27
34	Surfactant-Free Fabrication of ZnO Spheres and Pseudospherical Structures. <i>Journal of Physical Chemistry C</i> , 2008, 112, 9219-9222.	3.1	26
35	Self-Organization of Metal Nanoparticles in Light: Electrostatics@Molecular Dynamics Simulations and Optical Binding Experiments. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 545-549.	4.6	26
36	Fabrication and formation mechanism of hollow MgO particles by pulsed excimer laser ablation of Mg in liquid. <i>Nanotechnology</i> , 2011, 22, 265610.	2.6	25

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37	Generation of Ag ⁺ Ag ₂ O complex nanostructures by excimer laser ablation of Ag in water. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 3052-3056.	2.8	25
38	Synergy of Intensity, Phase, and Polarization Enables Versatile Optical Nanomanipulation. <i>Nano Letters</i> , 2020, 20, 2778-2783.	9.1	24
39	Hierarchical Photonic Synthesis of Hybrid Nanoparticle Assemblies. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 2630-2636.	4.6	23
40	Contrasting room-temperature hydrogen sensing capabilities of Pt-SnO ₂ and Pt-TiO ₂ composite nanoceramics. <i>Nano Research</i> , 2016, 9, 3528-3535.	10.4	22
41	Probing Spatiotemporal Stability of Optical Matter by Polarization Modulation. <i>Nano Letters</i> , 2018, 18, 1396-1401.	9.1	21
42	Self-assembly of zinc hydroxide/dodecyl sulfate nanolayers into complex three-dimensional nanostructures by laser ablation in liquid. <i>Chemical Physics Letters</i> , 2010, 497, 205-207.	2.6	19
43	Optical Sorting at the Single-Particle Level with Single-Nanometer Precision Using Coordinated Intensity and Phase Gradient Forces. <i>ACS Nano</i> , 2020, 14, 7602-7609.	14.6	19
44	Light-Driven Self-Healing of Nanoparticle-Based Metamolecules. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 4917-4922.	13.8	18
45	Three-dimensional optical trapping and orientation of microparticles for coherent X-ray diffraction imaging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 4018-4024.	7.1	18
46	Phase Transition and Self-Stabilization of Light-Mediated Metal Nanoparticle Assemblies. <i>ACS Nano</i> , 2020, 14, 6616-6625.	14.6	17
47	Plasmonic SERS Biosensor Based on Multibranched Gold Nanoparticles Embedded in Polydimethylsiloxane for Quantification of Hematin in Human Erythrocytes. <i>Analytical Chemistry</i> , 2021, 93, 1025-1032.	6.5	17
48	Rapidly and accurately shaping the intensity and phase of light for optical nano-manipulation. <i>Nanoscale Advances</i> , 2020, 2, 2540-2547.	4.6	16
49	Charge carrier lifetime in boron carbide thin films. <i>Applied Physics Letters</i> , 2011, 98, .	3.3	15
50	Nanostructured ZnO network films deposited on Al ₂ O ₃ substrates by chemical bath deposition. <i>Thin Solid Films</i> , 2009, 517, 1541-1545.	1.8	12
51	Structural evolution of hollow Al ₂ O ₃ particles formed on excimer laser-induced bubbles. <i>Materials Chemistry and Physics</i> , 2011, 130, 403-408.	4.0	10
52	Switching behavior of oxygen-deficient La _{0.6} Ca _{0.4} MnO ₃ thin films. <i>Applied Physics Letters</i> , 2007, 90, 224105.	3.3	9
53	Photovoltaic effects in obliquely deposited oxygen-deficient manganite thin film. <i>Applied Physics Letters</i> , 2007, 91, 104101.	3.3	6
54	ZnO quasibicrystals formed by thermal annealing. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	6

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55	Tuning Nanoparticle Electrodynamics by an Optical-Matter-Based Laser Beam Shaper. <i>Nano Letters</i> , 2019, 19, 3353-3358.	9.1	6
56	Fabrication of Hourglass-Like ZnO Particles with Enhanced Blue Emission. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 6594-6598.	0.9	5
57	Light-Driven Self-Healing of Nanoparticle-Based Metamolecules. <i>Angewandte Chemie</i> , 2019, 131, 4971-4976.	2.0	5
58	Making Permanent Optical Matter of Plasmonic Nanoparticles by in Situ Photopolymerization. <i>Journal of Physical Chemistry C</i> , 2020, 124, 4215-4220.	3.1	5
59	Optical trapping and manipulation for single-particle spectroscopy and microscopy. <i>Journal of Chemical Physics</i> , 2022, 157, .	3.0	5
60	Large transient photoconductivity with fast response in oxygen-deficient La _{0.6} Ca _{0.4} MnO ₃ /Si heterojunctions. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 2797-2800.	2.8	4
61	Photoinduced Resistance Change in an Oxygen-Deficient La _{0.9} Sr _{0.1} MnO ₃ Thin Film. <i>Chinese Physics Letters</i> , 2007, 24, 1397-1399.	3.3	3
62	Position sensitivity of transient photoconductivity in oxygen-deficient manganite thin films. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 135302.	2.8	3
63	Fabrication and sintering of mesocrystalline ZnO disks. <i>Materials Letters</i> , 2009, 63, 486-488.	2.6	3
64	Tunable optical tweezers by dynamically sculpting the phase profiles of light. <i>Applied Physics Express</i> , 2021, 14, 022009.	2.4	2
65	Transitions of Boron Carbide to B-C-N Thin Film. <i>Materials Research Society Symposia Proceedings</i> , 2009, 1204, 1.	0.1	1
66	Tomato-Like ZnO Clusters with Complex Crystallization. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 6627-6630.	0.9	1
67	Multifunctionalization of Nanostructured Metal Oxides. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-1.	2.7	1
68	Bragg diffraction from sub-micron particles isolated by optical tweezers. <i>AIP Conference Proceedings</i> , 2016, .	0.4	1
69	Light-Induced Self-Assembly: Silver-Nanowire-Based Interferometric Optical Tweezers for Enhanced Optical Trapping and Binding of Nanoparticles (<i>Adv. Funct. Mater.</i> 7/2019). <i>Advanced Functional Materials</i> , 2019, 29, 1970043.	14.9	1
70	Fabrication of Dispersed Permalloy Nanoparticles by Pulsed Laser Ablation in Aqua. <i>Materials Research Society Symposia Proceedings</i> , 2008, 1118, 8.	0.1	0
71	Fabrication of Permalloy Particles by Pulsed Laser Ablation in Water and Tween 80 Aqueous Solution. <i>Materials Research Society Symposia Proceedings</i> , 2009, 1230, 1.	0.1	0
72	Polarization-Dependent Optical Binding of Plasmonic Nanoparticles. , 2019, .		0