

Zijie Yan

List of Publications by Year in descending order

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Version: 2024-02-01

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 | Optical trapping and manipulation for single-particle spectroscopy and microscopy. <i>Journal of Chemical Physics</i> , 2022, 157, . | 3.0 | 5 |
| 2 | 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 |
| 3 | Tunable optical tweezers by dynamically sculpting the phase profiles of light. <i>Applied Physics Express</i> , 2021, 14, 022009. | 2.4 | 2 |
| 4 | Phase Transition and Self-Stabilization of Light-Mediated Metal Nanoparticle Assemblies. <i>ACS Nano</i> , 2020, 14, 6616-6625. | 14.6 | 17 |
| 5 | 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 |
| 6 | Synergy of Intensity, Phase, and Polarization Enables Versatile Optical Nanomanipulation. <i>Nano Letters</i> , 2020, 20, 2778-2783. | 9.1 | 24 |
| 7 | 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 |
| 8 | 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 |
| 9 | 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 |
| 10 | Optical matter machines: angular momentum conversion by collective modes in optically bound nanoparticle arrays. <i>Optica</i> , 2020, 7, 1341. | 9.3 | 28 |
| 11 | Tuning Nanoparticle Electrodynamics by an Optical-Matter-Based Laser Beam Shaper. <i>Nano Letters</i> , 2019, 19, 3353-3358. | 9.1 | 6 |
| 12 | 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 |
| 13 | Light-Driven Self-Healing of Nanoparticle-Based Metamolecules. <i>Angewandte Chemie</i> , 2019, 131, 4971-4976. | 2.0 | 5 |
| 14 | Light-Driven Self-Healing of Nanoparticle-Based Metamolecules. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 4917-4922. | 13.8 | 18 |
| 15 | 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 |
| 16 | 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 |
| 17 | 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 |
| 18 | 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 |

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|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 19 | Polarization-Dependent Optical Binding of Plasmonic Nanoparticles. , 2019, , . | | 0 |
| 20 | Probing Spatiotemporal Stability of Optical Matter by Polarization Modulation. Nano Letters, 2018, 18, 1396-1401. | 9.1 | 21 |
| 21 | Self-Organization of Metal Nanoparticles in Light: Electrodynamicsâ€“Molecular Dynamics Simulations and Optical Binding Experiments. Journal of Physical Chemistry Letters, 2018, 9, 545-549. | 4.6 | 26 |
| 22 | Crossover from positive to negative optical torque in mesoscale optical matter. Nature Communications, 2018, 9, 4897. | 12.8 | 50 |
| 23 | Dissipative Selfâ€“Assembly of Anisotropic Nanoparticle Chains with Combined Electrodynamic and Electrostatic Interactions. Advanced Materials, 2018, 30, e1803238. | 21.0 | 38 |
| 24 | Creating Multifunctional Optofluidic Potential Wells for Nanoparticle Manipulation. Nano Letters, 2018, 18, 7400-7406. | 9.1 | 30 |
| 25 | Sorting Metal Nanoparticles with Dynamic and Tunable Optical Driven Forces. Nano Letters, 2018, 18, 4500-4505. | 9.1 | 38 |
| 26 | Driven optical matter: Dynamics of electrodynamically coupled nanoparticles in an optical ring vortex. Physical Review E, 2017, 95, 022604. | 2.1 | 47 |
| 27 | Bragg diffraction from sub-micron particles isolated by optical tweezers. AIP Conference Proceedings, 2016, , . | 0.4 | 1 |
| 28 | Contrasting room-temperature hydrogen sensing capabilities of Pt-SnO2 and Pt-TiO2 composite nanoceramics. Nano Research, 2016, 9, 3528-3535. | 10.4 | 22 |
| 29 | Extraordinary room-temperature hydrogen sensing capabilities of porous bulk Ptâ€“TiO 2 nanocomposite ceramics. International Journal of Hydrogen Energy, 2016, 41, 3307-3312. | 7.1 | 39 |
| 30 | Multifunctionalization of Nanostructured Metal Oxides. Journal of Nanomaterials, 2015, 2015, 1-1. | 2.7 | 1 |
| 31 | Fabrication of a Material Assembly of Silver Nanoparticles Using the Phase Gradients of Optical Tweezers. Physical Review Letters, 2015, 114, 143901. | 7.8 | 76 |
| 32 | Potential energy surfaces and reaction pathways for light-mediated self-organization of metal nanoparticle clusters. Nature Communications, 2014, 5, 3751. | 12.8 | 80 |
| 33 | Enhancing Nanoparticle Electrodynamics with Gold Nanoplate Mirrors. Nano Letters, 2014, 14, 2436-2442. | 9.1 | 32 |
| 34 | Optical Printing of Electrodynamically Coupled Metallic Nanoparticle Arrays. Journal of Physical Chemistry C, 2014, 118, 19315-19321. | 3.1 | 40 |
| 35 | Hierarchical Photonic Synthesis of Hybrid Nanoparticle Assemblies. Journal of Physical Chemistry Letters, 2013, 4, 2630-2636. | 4.6 | 23 |
| 36 | Highly mobile and reactive state of hydrogen in metal oxide semiconductors at room temperature. Scientific Reports, 2013, 3, 3149. | 3.3 | 31 |

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|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 37 | Why Single-Beam Optical Tweezers Trap Gold Nanowires in Three Dimensions. ACS Nano, 2013, 7, 8794-8800. | 14.6 | 49 |
| 38 | Optical Vortex Induced Rotation of Silver Nanowires. Journal of Physical Chemistry Letters, 2013, 4, 2937-2942. | 4.6 | 72 |
| 39 | Generation of Ag ⁺ Ag ₂ O complex nanostructures by excimer laser ablation of Ag in water. Physical Chemistry Chemical Physics, 2013, 15, 3052-3056. | 2.8 | 25 |
| 40 | Guiding Spatial Arrangements of Silver Nanoparticles by Optical Binding Interactions in Shaped Light Fields. ACS Nano, 2013, 7, 1790-1802. | 14.6 | 96 |
| 41 | Antibacterial and surface-enhanced Raman scattering (SERS) activities of AgCl cubes synthesized by pulsed laser ablation in liquid. Applied Surface Science, 2012, 258, 9218-9222. | 6.1 | 34 |
| 42 | Pulsed laser ablation in liquid for micro-/nanosstructure generation. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2012, 13, 204-223. | 11.6 | 280 |
| 43 | Laser direct-write of single microbeads into spatially-ordered patterns. Biofabrication, 2012, 4, 025006. | 7.1 | 27 |
| 44 | Controlling the Position and Orientation of Single Silver Nanowires on a Surface Using Structured Optical Fields. ACS Nano, 2012, 6, 8144-8155. | 14.6 | 46 |
| 45 | Three-Dimensional Optical Trapping and Manipulation of Single Silver Nanowires. Nano Letters, 2012, 12, 5155-5161. | 9.1 | 101 |
| 46 | Hierarchical TiO ₂ Nanospheres with Dominant {001} Facets: Facile Synthesis, Growth Mechanism, and Photocatalytic Activity. Chemistry - A European Journal, 2012, 18, 7525-7532. | 3.3 | 63 |
| 47 | Generation of AgCl Cubes by Excimer Laser Ablation of Bulk Ag in Aqueous NaCl Solutions. Journal of Physical Chemistry C, 2011, 115, 5058-5062. | 3.1 | 42 |
| 48 | Fabrication and formation mechanism of hollow MgO particles by pulsed excimer laser ablation of Mg in liquid. Nanotechnology, 2011, 22, 265610. | 2.6 | 25 |
| 49 | Generation of Ag ₂ O Micro-/Nanostructures by Pulsed Excimer Laser Ablation of Ag in Aqueous Solutions of Polysorbate 80. Langmuir, 2011, 27, 851-855. | 3.5 | 39 |
| 50 | Structural evolution of hollow Al ₂ O ₃ particles formed on excimer laser-induced bubbles. Materials Chemistry and Physics, 2011, 130, 403-408. | 4.0 | 10 |
| 51 | Charge carrier lifetime in boron carbide thin films. Applied Physics Letters, 2011, 98, . | 3.3 | 15 |
| 52 | Fabrication of Hourglass-Like ZnO Particles with Enhanced Blue Emission. Journal of Nanoscience and Nanotechnology, 2010, 10, 6594-6598. | 0.9 | 5 |
| 53 | Excimer Laser Production, Assembly, Sintering, and Fragmentation of Novel Fullerene-like Permalloy Particles in Liquid. Journal of Physical Chemistry C, 2010, 114, 3869-3873. | 3.1 | 39 |
| 54 | Self-assembly of zinc hydroxide/dodecyl sulfate nanolayers into complex three-dimensional nanostructures by laser ablation in liquid. Chemical Physics Letters, 2010, 497, 205-207. | 2.6 | 19 |

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|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 55 | Hollow nanoparticle generation on laser-induced cavitation bubbles via bubble interface pinning. Applied Physics Letters, 2010, 97, . | 3.3 | 34 |
| 56 | Anatase TiO ₂ single crystals with exposed {001} and {110} facets: facile synthesis and enhanced photocatalysis. Chemical Communications, 2010, 46, 1664. | 4.1 | 329 |
| 57 | Excimer laser ablation of a Pt target in water: the observation of hollow particles. Nanotechnology, 2010, 21, 145609. | 2.6 | 47 |
| 58 | Hollow Particles Formed on Laser-Induced Bubbles by Excimer Laser Ablation of Al in Liquid. Journal of Physical Chemistry C, 2010, 114, 11370-11374. | 3.1 | 67 |
| 59 | Transitions of Boron Carbide to B-C-N Thin Film. Materials Research Society Symposia Proceedings, 2009, 1204, 1. | 0.1 | 1 |
| 60 | Fabrication of Permalloy Particles by Pulsed Laser Ablation in Water and Tween 80 Aqueous Solution. Materials Research Society Symposia Proceedings, 2009, 1230, 1. | 0.1 | 0 |
| 61 | Fabrication and sintering of mesocrystalline ZnO disks. Materials Letters, 2009, 63, 486-488. | 2.6 | 3 |
| 62 | Nanostructured ZnO network films deposited on Al ₂ O ₃ substrates by chemical bath deposition. Thin Solid Films, 2009, 517, 1541-1545. | 1.8 | 12 |
| 63 | Tomato-Like ZnO Clusters with Complex Crystallization. Journal of Nanoscience and Nanotechnology, 2009, 9, 6627-6630. | 0.9 | 1 |
| 64 | Surfactant-Free Fabrication of ZnO Spheres and Pseudospherical Structures. Journal of Physical Chemistry C, 2008, 112, 9219-9222. | 3.1 | 26 |
| 65 | Impact of annealing on morphology and ferromagnetism of ZnO nanorods. Applied Physics Letters, 2008, 92, . | 3.3 | 79 |
| 66 | Position sensitivity of transient photoconductivity in oxygen-deficient manganite thin films. Journal Physics D: Applied Physics, 2008, 41, 135302. | 2.8 | 3 |
| 67 | Fabrication of Dispersed Permalloy Nanoparticles by Pulsed Laser Ablation in Aqua. Materials Research Society Symposia Proceedings, 2008, 1118, 8. | 0.1 | 0 |
| 68 | ZnO quasibicrystals formed by thermal annealing. Applied Physics Letters, 2008, 92, . | 3.3 | 6 |
| 69 | Large transient photoconductivity with fast response in oxygen-deficient La _{0.6} Ca _{0.4} MnO ₃ ~{r}/Si heterojunctions. Journal Physics D: Applied Physics, 2007, 40, 2797-2800. | 2.8 | 4 |
| 70 | Photoinduced Resistance Change in an Oxygen-Deficient La _{0.9} Sr _{0.1} MnO ₃ ~{r} Thin Film. Chinese Physics Letters, 2007, 24, 1397-1399. | 3.3 | 3 |
| 71 | Switching behavior of oxygen-deficient La _{0.6} Ca _{0.4} MnO ₃ ~{r} thin films. Applied Physics Letters, 2007, 90, 224105. | 3.3 | 9 |
| 72 | Photovoltaic effects in obliquely deposited oxygen-deficient manganite thin film. Applied Physics Letters, 2007, 91, 104101. | 3.3 | 6 |