

# Shao-Ding Liu

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

57  
papers

1,282  
citations

20  
h-index

35  
g-index

60  
ext. papers

1,442  
ext. citations

4.9  
avg, IF

4.42  
L-index

| #  | Paper  | IF   | Citations |
|----|--|------|-----------|
| 57 | Intracavity melting analysis of DNA methylation using laser emission. <i>Optics and Laser Technology</i> , <b>2022</b> , 149, 107831   | 4.2  |           |
| 56 | Probing electron transport in plasmonic molecular junctions with two-photon luminescence spectroscopy. <i>Nanophotonics</i> , <b>2021</b> , 10, 2467-2479  | 6.3  | 0         |
| 55 | Strongly coupled evenly divided disks: a new compact and tunable platform for plasmonic Fano resonances. <i>Nanotechnology</i> , <b>2020</b> , 31, 325202  | 3.4  | 2         |
| 54 | Second-harmonic generation with metal/dielectric/metal hybridized nanoantennas: enhanced efficiency, reduced mode volume and ideal magnetic/electric dipole scattering. <i>Journal Physics D: Applied Physics</i> , <b>2020</b> , 53, 215101 | 3    | 2         |
| 53 | Dynamic tuning of enhanced intrinsic circular dichroism in plasmonic stereo-metamolecule array with surface lattice resonance. <i>Nanophotonics</i> , <b>2020</b> , 9, 3419-3434   | 6.3  | 11        |
| 52 | Effect of particle on the lasing threshold of optofluidic laser based on Fabry-Pérot microcavity. <i>Optics Communications</i> , <b>2020</b> , 460, 125161   | 2    | 1         |
| 51 | Metasurfaces Composed of Plasmonic Molecules: Hybridization Between Parallel and Orthogonal Surface Lattice Resonances. <i>Advanced Optical Materials</i> , <b>2020</b> , 8, 1901109   | 8.1  | 15        |
| 50 | Generation of optofluidic laser in stable fiber Fabry-Pérot microcavities. <i>Optics Communications</i> , <b>2020</b> , 475, 126234  | 2    | 3         |
| 49 | Ideal magnetic dipole resonances with metal-dielectric-metal hybridized nanodisks. <i>Optics Express</i> , <b>2019</b> , 27, 16143-16155   | 3.3  | 8         |
| 48 | Fabrication of a Three-Dimensional Plasmon Ruler Using an Atomic Force Microscope. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 19871-19878   | 3.8  | 2         |
| 47 | Restoring the silenced surface second-harmonic generation in split-ring resonators by magnetic and electric mode matching. <i>Optics Express</i> , <b>2019</b> , 27, 26377-26391   | 3.3  | 8         |
| 46 | Record-Low-Threshold Lasers Based on Atomically Smooth Triangular Nanoplatelet Perovskite. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1805553  | 15.6 | 37        |
| 45 | Nanodevices: Record-Low-Threshold Lasers Based on Atomically Smooth Triangular Nanoplatelet Perovskite (Adv. Funct. Mater. 2/2019). <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1970012   | 15.6 | 1         |
| 44 | Resonance Coupling between Molecular Excitons and Nonradiating Anapole Modes in Silicon Nanodisk-J-Aggregate Heterostructures. <i>ACS Photonics</i> , <b>2018</b> , 5, 1628-1639   | 6.3  | 32        |
| 43 | DNA Melting Analysis with Optofluidic Lasers Based on Fabry-Pérot Microcavity. <i>ACS Sensors</i> , <b>2018</b> , 3, 1750-1755   | 9.2  | 13        |
| 42 | Silicon based solvent immersion imprint lithography for rapid polystyrene microfluidic chip prototyping. <i>Sensors and Actuators B: Chemical</i> , <b>2017</b> , 248, 311-317   | 8.5  | 6         |
| 41 | Sharp convex gold grooves for fluorescence enhancement in micro/nano fluidic biosensing. <i>Journal of Materials Chemistry B</i> , <b>2017</b> , 5, 8839-8844  | 7.3  | 4         |

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|----|---|------|-----|
| 40 | High Q-factor with the excitation of anapole modes in dielectric split nanodisk arrays. <i>Optics Express</i> , <b>2017</b> , 25, 22375-22387   | 3.3  | 65  |
| 39 | Enhancing the Brightness of Quantum Dot Light-Emitting Diodes by Multilayer Heterostructures. <i>IEEE Photonics Journal</i> , <b>2016</b> , 8, 1-7  | 1.8  | 5   |
| 38 | Polarization-Independent Multiple Fano Resonances in Plasmonic Nanorings for Multimode-Matching Enhanced Multiband Second-Harmonic Generation. <i>ACS Nano</i> , <b>2016</b> , 10, 1442-53                                | 16.7 | 111 |
| 37 | Anticrossing double Fano resonances generated in metallic/dielectric hybrid nanostructures using nonradiative anapole modes for enhanced nonlinear optical effects. <i>Optics Express</i> , <b>2016</b> , 24, 27858-27869 | 3.3  | 18  |
| 36 | Pronounced Fano Resonance in Single Gold Split Nanodisks with 15 nm Split Gaps for Intensive Second Harmonic Generation. <i>ACS Nano</i> , <b>2016</b> , 10, 11105-11114  | 16.7 | 96  |
| 35 | Efficient broadband energy absorption based on inverted-pyramid photonic crystal surface and two-dimensional randomly patterned metallic reflector. <i>Applied Energy</i> , <b>2016</b> , 172, 59-65                      | 10.7 | 13  |
| 34 | Optofluidic laser array based on stable high-Q Fabry-Pérot microcavities. <i>Lab on A Chip</i> , <b>2015</b> , 15, 3862-9   | 7.2  | 33  |
| 33 | Polarization state-based refractive index sensing with plasmonic nanostructures. <i>Nanoscale</i> , <b>2015</b> , 7, 20171-9  | 7.7  | 16  |
| 32 | Study of Surface Plasmon Induced Hot Electron Relaxation Process and Third-Order Optical Nonlinearity in Gold Nanostructures. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 27156-27161                     | 3.8  | 16  |
| 31 | Enhanced Broadband Electromagnetic Absorption in Silicon Film with Photonic Crystal Surface and Random Gold Grooves Reflector. <i>Scientific Reports</i> , <b>2015</b> , 5, 12794   | 4.9  | 20  |
| 30 | Fano Resonances Generated in a Single Dielectric Homogeneous Nanoparticle with High Structural Symmetry. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 4252-4260  | 3.8  | 42  |
| 29 | Double Fano resonances in nanoring cavity dimers: The effect of plasmon hybridization between dark subradiant modes. <i>AIP Advances</i> , <b>2014</b> , 4, 077113  | 1.5  | 21  |
| 28 | Manipulation of quadratic cascading processes in a locally quasi-periodic (1D) medium. <i>Optics Express</i> , <b>2014</b> , 22, 6976-83  | 3.3  |     |
| 27 | Excitation of Multiple Fano Resonances in Plasmonic Clusters with D <sub>2h</sub> Point Group Symmetry. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 14218-14228   | 3.8  | 28  |
| 26 | Tuning multiple Fano resonances in plasmonic pentamer clusters. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 133105  | 3.4  | 16  |
| 25 | The magnetic and quantum transport properties of benzene-vanadium-borazine mixed sandwich clusters: a new kind of spin filter. <i>Journal of Physics Condensed Matter</i> , <b>2012</b> , 24, 445501                      | 1.8  | 0   |
| 24 | Multiple Fano resonances in plasmonic heptamer clusters composed of split nanorings. <i>ACS Nano</i> , <b>2012</b> , 6, 6260-71   | 16.7 | 102 |
| 23 | The spin-filter capability and spin-reversal effect of multidecker iron-borazine sandwich cluster. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 102405   | 3.4  | 7   |

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|----|--|------|-----|
| 22 | Radiative damping suppressing and refractive index sensing with elliptical split nanorings. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 203119   | 3.4  | 12  |
| 21 | Density functional theory studies of Nb-Benzene and Nb-Borazine sandwich clusters and molecular wires. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2012</b> , 45, 025102                 | 1.3  | 6   |
| 20 | Structures and magnetic properties of Fe and Ni monoatomic chains encapsulated by an Au nanotube. <i>Chinese Physics B</i> , <b>2012</b> , 21, 118102  | 1.2  | 1   |
| 19 | Plasmonic-induced optical transparency in the near-infrared and visible range with double split nanoring cavity. <i>Optics Express</i> , <b>2011</b> , 19, 15363-70  | 3.3  | 40  |
| 18 | High Sensitivity Localized Surface Plasmon Resonance Sensing Using a Double Split NanoRing Cavity. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 24469-24477   | 3.8  | 71  |
| 17 | Linear plasmon ruler with tunable measurement range and sensitivity. <i>Journal of Applied Physics</i> , <b>2010</b> , 108, 034313   | 2.5  | 18  |
| 16 | Multipole-plasmon-enhanced faster energy transfer between semiconductor quantum dots via dual-resonance nanoantenna effects. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 043106                               | 3.4  | 32  |
| 15 | Surface plasmons amplifications in single Ag nanoring. <i>Optics Express</i> , <b>2010</b> , 18, 4006-11   | 3.3  | 23  |
| 14 | Influence of Excitation Pulse Width on the Second-Order Correlation Functions of the Exciton-Biexciton Emissions. <i>Chinese Physics Letters</i> , <b>2010</b> , 27, 034211  | 1.8  | 4   |
| 13 | Modified effective dielectric function for metallic granular composites with high percolation threshold. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2010</b> , 10, 1766-70                                | 1.3  |     |
| 12 | Illuminating Dark Plasmons of Silver Nanoantenna Rings to Enhance Exciton-Plasmon Interactions. <i>Advanced Functional Materials</i> , <b>2009</b> , 19, 298-303   | 15.6 | 74  |
| 11 | High sensitivity and large field enhancement of symmetry broken Au nanorings: effect of multipolar plasmon resonance and propagation. <i>Optics Express</i> , <b>2009</b> , 17, 2906-17                              | 3.3  | 53  |
| 10 | Surface plasmon propagation in a pair of metal nanowires coupled to a nanosized optical emitter. <i>Optics Letters</i> , <b>2008</b> , 33, 851-3   | 3    | 35  |
| 9  | Modulating emission polarization of semiconductor quantum dots through surface plasmon of metal nanorod. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 162107   | 3.4  | 33  |
| 8  | ANALYSIS OF CORRELATION FUNCTION AND POLARIZATION ENTANGLEMENT OF PHOTON PAIRS GENERATED FROM ANISOTROPIC SEMICONDUCTOR QUANTUM DOT. <i>International Journal of Quantum Information</i> , <b>2008</b> , 06, 959-973 | 0.8  |     |
| 7  | Population dynamics and photon emission statistics of the coupled semiconductor quantum dots driven by pulse field. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2008</b> , 40, 693-698         | 3    |     |
| 6  | Optical Bloch Equations Modified with Phonon-Induced Intensity-Dependent Dephasing. <i>Communications in Theoretical Physics</i> , <b>2007</b> , 48, 335-338   | 2.4  |     |
| 5  | Coherent exciton-plasmon interaction in the hybrid semiconductor quantum dot and metal nanoparticle complex. <i>Optics Letters</i> , <b>2007</b> , 32, 2125-7  | 3    | 109 |

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|---|--|-----|---|
| 4 | Dynamics and the statistics of three-photon cascade emissions from single semiconductor quantum dots with pulse excitation. <i>Journal of Modern Optics</i> , <b>2006</b> , 53, 2129-2135  | 1.1 | 1 |
| 3 | Quantum interference and population swapping in single quantum dots with V-type three-level. <i>Solid State Communications</i> , <b>2006</b> , 137, 405-407                                | 1.6 | 6 |
| 2 | Rabi oscillation damped by exciton leakage and Auger capture in quantum dots. <i>Optics Letters</i> , <b>2005</b> , 30, 3213-5   | 3   | 6 |
| 1 | Complex probability amplitudes of three states in a V-type system with two orthogonal sub-states. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2005</b> , 28, 219-224 | 3   | 3 |