# Shouzhen Jiang

List of Publications by Year
in descending order

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Version: 2024-02-01

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|---|---|---|---|
| 84 papers | 3,167 citations | 147566 31 h-index | 161609 54 g-index |
| 85 all docs | 85 docs citations | 85 times ranked | 3274 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Real-time reliable determination of binding kinetics of DNA hybridization using a multi-channel graphene biosensor. Nature Communications, 2017, 8, 14902. | 5.8 | 303 |
| 2 | SERS activated platform with three-dimensional hot spots and tunable nanometer gap. Sensors and Actuators B: Chemical, 2018, 258, 163-171. | 4.0 | 208 |
| 3 | Graphene/Cu Nanoparticle Hybrids Fabricated by Chemical Vapor Deposition As Surface-Enhanced Raman Scattering Substrate for Label-Free Detection of Adenosine. ACS Applied Materials & Interfaces, 2015, 7, 10977-10987. | 4.0 | 157 |
| 4 | Tellurene-based saturable absorber to demonstrate large-energy dissipative soliton and noise-like pulse generations. Nanophotonics, 2020, 9, 2783-2795. | 2.9 | 149 |
| 5 | Recent Advances of Plasmonic Nanoparticles and their Applications. Materials, 2018, 11, 1833. | 1.3 | 146 |
| 6 | 3D silver nanoparticles with multilayer graphene oxide as a spacer for surface enhanced Raman spectroscopy analysis. Nanoscale, 2018, 10, 5897-5905. | 2.8 | 145 |
| 7 | Palladium diselenide as a direct absorption saturable absorber for ultrafast mode-locked operations: from all anomalous dispersion to all normal dispersion. Nanophotonics, 2020, 9, 4295-4306. | 2.9 | 100 |
| 8 | 3D SERS substrate based on Au-Ag bi-metal nanoparticles/MoS<sub>2</sub> hybrid with pyramid structure. Optics Express, 2018, 26, 21546. | 1.7 | 92 |
| 9 | Reliable molecular trace-detection based on flexible SERS substrate of graphene/Ag-nanoflowers/PMMA. Sensors and Actuators B: Chemical, 2017, 249, 439-450. | 4.0 | 83 |
| 10 | WS_2/fluorine mica (FM) saturable absorbers for all-normal-dispersion mode-locked fiber laser. Optics Express, 2015, 23, 28698. | 1.7 | 66 |
| 11 | Constructing 3D and Flexible Plasmonic Structure for Highâ€Performance SERS Application. Advanced Materials Technologies, 2018, 3, 1800174. | 3.0 | 65 |
| 12 | Ultrafast photonics applications of emerging 2D-Xenes beyond graphene. Nanophotonics, 2022, 11, 1261-1284. | 2.9 | 65 |
| 13 | A novel U-bent plastic optical fibre local surface plasmon resonance sensor based on a graphene and silver nanoparticle hybrid structure. Journal Physics D: Applied Physics, 2017, 50, 165105. | 1.3 | 58 |
| 14 | Theoretical design of a surface plasmon resonance sensor with high sensitivity and high resolution based on grapheneâ€“WS<sub>2</sub> hybrid nanostructures and Auâ€“Ag bimetallic film. RSC Advances, 2017, 7, 47177-47182. | 1.7 | 50 |
| 15 | Manipulating the surface-enhanced Raman spectroscopy (SERS) activity and plasmon-driven catalytic efficiency by the control of Ag NP/graphene layers under optical excitation. Nanophotonics, 2021, 10, 1529-1540. | 2.9 | 48 |
| 16 | Experimental and theoretical investigation for surface plasmon resonance biosensor based on graphene/Au film/D-POF. Optics Express, 2019, 27, 3483. | 1.7 | 48 |
| 17 | Grapheneâ€“silver nanowire hybrid films as electrodes for transparent and flexible loudspeakers. CrystEngComm, 2014, 16, 3532. | 1.3 | 47 |
| 18 | High-quality monolayer graphene for bulk laser mode-locking near 2ÂĨ¼m. Optical and Quantum Electronics, 2016, 48, 1. | 1.5 | 45 |

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|---|---|---|---|
| 19 | A sensitive, uniform, reproducible and stable SERS substrate has been presented based on MoS<sub>2</sub>@Ag nanoparticles@pyramidal silicon. RSC Advances, 2017, 7, 5764-5773. | 1.7 | 45 |
| 20 | Sensitive, reproducible, and stable 3D plasmonic hybrids with bilayer WS<sub>2</sub> as nanospacer for SERS analysis. Optics Express, 2018, 26, 21626. | 1.7 | 45 |
| 21 | Graphene-Ag nanoparticles-cicada wings hybrid system for obvious SERS performance and DNA molecular detection. Optics Express, 2019, 27, 3000. | 1.7 | 45 |
| 22 | Optical fiber SPR biosensor complying with a 3D composite hyperbolic metamaterial and a graphene film. Photonics Research, 2021, 9, 379. | 3.4 | 43 |
| 23 | In-situ electrospun aligned and maize-like AgNPs/PVA@Ag nanofibers for surface-enhanced Raman scattering on arbitrary surface. Nanophotonics, 2019, 8, 1719-1729. | 2.9 | 42 |
| 24 | Output energy enhancement in a mode-locked Er-doped fiber laser using CVD-Bi2Se3 as a saturable absorber. Optics Express, 2019, 27, 24670. | 1.7 | 42 |
| 25 | A novel natural surface-enhanced Raman spectroscopy (SERS) substrate based on graphene oxide-Ag nanoparticles-Mytilus coruscus hybrid system. Sensors and Actuators B: Chemical, 2018, 261, 1-10. | 4.0 | 41 |
| 26 | LSPR optical fiber biosensor based on a 3D composite structure of gold nanoparticles and multilayer graphene films. Optics Express, 2020, 28, 6071. | 1.7 | 41 |
| 27 | Monolayer graphene saturable absorber with sandwich structure for ultrafast solid-state laser. Optical Engineering, 2015, 55, 081304. | 0.5 | 40 |
| 28 | Indium tin oxide nanocrystals as saturable absorbers for passively Q-switched erbium-doped fiber laser. Optical Materials Express, 2017, 7, 3494. | 1.6 | 38 |
| 29 | Controlled-layer and large-area MoS_2 films encapsulated Au nanoparticle hybrids for SERS. Optics Express, 2016, 24, 26097. | 1.7 | 36 |
| 30 | High performance SERS active substrates fabricated by directly growing graphene on Ag nanoparticles. RSC Advances, 2015, 5, 90457-90465. | 1.7 | 34 |
| 31 | Graphene oxide-decorated silver dendrites for high-performance surface-enhanced Raman scattering applications. Journal of Materials Chemistry C, 2017, 5, 3908-3915. | 2.7 | 33 |
| 32 | Versatile Mode-Locked Operations in an Er-Doped Fiber Laser with a Film-Type Indium Tin Oxide Saturable Absorber. Nanomaterials, 2019, 9, 701. | 1.9 | 30 |
| 33 | Experimental and theoretical investigation for a hierarchical SERS activated platform with 3D dense hot spots. Sensors and Actuators B: Chemical, 2018, 263, 408-416. | 4.0 | 29 |
| 34 | Highly efficient SERS substrates with different Ag interparticle nanogaps based on hyperbolic metamaterials. Applied Surface Science, 2021, 555, 149729. | 3.1 | 29 |
| 35 | Large-area MoS<sub>2</sub> thin layers directly synthesized on Pyramid-Si substrate for surface-enhanced Raman scattering. RSC Advances, 2015, 5, 83899-83905. | 1.7 | 28 |
| 36 | Improved Laser Damage Threshold of In2Se3 Saturable Absorber by PVD for High-Power Mode-Locked Er-Doped Fiber Laser. Nanomaterials, 2019, 9, 1216. | 1.9 | 28 |

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|---|---|---|---|
| 37 | Highly sensitive and recyclable surface-enhanced Raman scattering (SERS) substrates based on photocatalytic activity of ZnSe nanowires. Sensors and Actuators B: Chemical, 2022, 356, 131360. | 4.0 | 28 |
| 38 | Coupling of multiple plasma polarization modes in particlesâ€“multilayer film system for surface-enhanced Raman scattering. APL Photonics, 2021, 6, . | 3.0 | 26 |
| 39 | Bulk plasmon polariton in hyperbolic metamaterials excited by multilayer nanoparticles for surface-enhanced Raman scattering (SERS) sensing. Nanophotonics, 2021, 10, 2949-2958. | 2.9 | 26 |
| 40 | Aluminum nanoparticle films with an enhanced hot-spot intensity for high-efficiency SERS. Optics Express, 2020, 28, 9174. | 1.7 | 26 |
| 41 | Dark solitons in erbium-doped fiber lasers based on indium tin oxide as saturable absorbers. Optical Materials, 2018, 78, 432-437. | 1.7 | 25 |
| 42 | High performance D-type plastic fiber SPR sensor based on a hyperbolic metamaterial composed of Ag/MgF<sub>2</sub>. Journal of Materials Chemistry C, 2021, 9, 13647-13658. | 2.7 | 25 |
| 43 | Surface-enhanced Raman scattering by the composite structure of Ag NP-multilayer Au films separated by Al<sub>2</sub>O<sub>3</sub>. Optics Express, 2021, 29, 8890. | 1.7 | 24 |
| 44 | Broadband indium tin oxide nanowire arrays as saturable absorbers for solid-state lasers. Optics Express, 2020, 28, 1554. | 1.7 | 22 |
| 45 | Surfaceâ€Enhanced Raman Scattering Based on Controllableâ€Layer Graphene Shells Directly Synthesized on Cu Nanoparticles for Molecular Detection. ChemPhysChem, 2015, 16, 2953-2960. | 1.0 | 21 |
| 46 | Reconfigurable Chiral Metasurface Absorbers Based on Liquid Crystals. IEEE Photonics Journal, 2018, 10, 1-9. | 1.0 | 21 |
| 47 | Magnetic Graphene Field-Effect Transistor Biosensor for Single-Strand DNA Detection. Nanoscale Research Letters, 2019, 14, 248. | 3.1 | 21 |
| 48 | Preparation of Graphene/ITO Nanorod Metamaterial/U-Bent-Annealing Fiber Sensor and DNA Biomolecule Detection. Nanomaterials, 2019, 9, 1154. | 1.9 | 20 |
| 49 | An Au Nanofilm-Graphene/D-Type Fiber Surface Plasmon Resonance Sensor for Highly Sensitive Specificity Bioanalysis. Sensors, 2020, 20, 991. | 2.1 | 20 |
| 50 | Heterogeneous and cross-distributed metal structure hybridized with MoS<sub>2</sub> as high-performance flexible SERS substrate. Optics Express, 2018, 26, 23831. | 1.7 | 18 |
| 51 | Facile synthesis 3D flexible core-shell graphene/glass fiber via chemical vapor deposition. Nanoscale Research Letters, 2014, 9, 394. | 3.1 | 17 |
| 52 | Third-order optical nonlinearity in silicon nitride films prepared using magnetron sputtering and application for optical bistability. Journal of Applied Physics, 2019, 125, . | 1.1 | 17 |
| 53 | LSPR optical fiber sensor based on 3D gold nanoparticles with monolayer graphene as a spacer. Optics Express, 2022, 30, 10187. | 1.7 | 17 |
| 54 | Highly-sensitive sensor based on toroidal dipole governed by bound state in the continuum in dielectric non-coaxial core-shell cylinder. Optics Express, 2022, 30, 19030. | 1.7 | 17 |

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|---|---|---|---|
| 55 | Evanescent Wave Absorption Sensor Based Tapered Plastic Optical Fiber Coated with Monolayer Graphene for Ethanol Molecules Detection. Chinese Journal of Chemistry, 2016, 34, 1039-1047. | 2.6 | 16 |
| 56 | 3D Hybrid Plasmonic Nanostructures with Dense Hot Spots Using Monolayer MoS<sub>2</sub> as Subâ€Nanometer Spacer. Advanced Materials Interfaces, 2018, 5, 1800661. | 1.9 | 14 |
| 57 | Composite Structure Based on Gold-Nanoparticle Layer and HMM for Surface-Enhanced Raman Spectroscopy Analysis. Nanomaterials, 2021, 11, 587. | 1.9 | 14 |
| 58 | Plasmonically enhanced photoluminescence of monolayer MoS<sub>2</sub> via nanosphere lithography-templated gold metasurfaces. Nanophotonics, 2021, 10, 1733-1740. | 2.9 | 14 |
| 59 | Enhanced sensitivity of a surface plasmon resonance biosensor using hyperbolic metamaterial and monolayer graphene. Optics Express, 2021, 29, 43766. | 1.7 | 13 |
| 60 | Formation of large-area stretchable 3D grapheneâ€“nickel particle foams and their sensor applications. RSC Advances, 2017, 7, 35016-35026. | 1.7 | 12 |
| 61 | A new route for the synthesis of a Ag nanoporeâ€“inlayâ€–nanogap structure: integrated Ag-core@graphene-shell@Ag-jacket nanoparticles for high-efficiency SERS detection. Chemical Communications, 2017, 53, 8691-8694. | 2.2 | 11 |
| 62 | Third-harmonic generation from gold nanowires of rough surface considering classical nonlocal effect. Optics Express, 2017, 25, 6372. | 1.7 | 11 |
| 63 | Facile In Situ Photochemical Synthesis of Silver Nanoaggregates for Surface-Enhanced Raman Scattering Applications. Nanomaterials, 2020, 10, 685. | 1.9 | 11 |
| 64 | Composite substrate of graphene/Ag nanoparticles coupled with a multilayer film for surface-enhanced Raman scattering biosensing. Optics Express, 2022, 30, 13226. | 1.7 | 11 |
| 65 | 170 mW-level mode-locked Er-doped fiber laser oscillator based on nonlinear polarization rotation. Applied Physics B: Lasers and Optics, 2019, 125, 1. | 1.1 | 10 |
| 66 | Bi2Se3/mica optical modulator for high-energy mode-locked Er-doped fiber laser. Infrared Physics and Technology, 2020, 111, 103453. | 1.3 | 10 |
| 67 | Generation of high-energy rectangular pulses in a nonlinear polarization rotation mode-locked ring fiber laser. Applied Optics, 2019, 58, 7897. | 0.9 | 8 |
| 68 | Broadband and Ultra-Low Threshold Optical Bistability in Guided-Mode Resonance Grating Nanostructures of Quasi-Bound States in the Continuum. Nanomaterials, 2021, 11, 2843. | 1.9 | 8 |
| 69 | Passively mode-locked dual-wavelength Er-doped fiber laser based on antimony tin oxide as saturable absorber. Laser Physics, 2019, 29, 045801. | 0.6 | 7 |
| 70 | Noble metal modified ReS<sub>2</sub> nanocavity for surface-enhanced Raman spectroscopy (SERS) analysis. Optics Express, 2021, 29, 28664. | 1.7 | 7 |
| 71 | Graphene Oxide-Coated Metalâ€“Insulatorâ€“Metal SERS Substrates for Trace Melamine Detection. Nanomaterials, 2022, 12, 1202. | 1.9 | 7 |
| 72 | A low lasing threshold and widely tunable spaser based on two dark surface plasmons. Scientific Reports, 2017, 7, 13590. | 1.6 | 6 |

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|---|---|---|---|
| 73 | Graphene-Covered Silver Nanoisland Array Coupling with Hyperbolic Metamaterials for SERS Sensing. ACS Applied Nano Materials, 0, , . | 2.4 | 6 |
| 74 | Advances in oxide semiconductors for surface enhanced Raman scattering. Applied Materials Today, 2022, 29, 101563. | 2.3 | 6 |
| 75 | Evolution of optical harmonic generation near bound-states in the continuum in hybrid plasmonic-photonic structures. Optics Express, 2022, 30, 26455. | 1.7 | 6 |
| 76 | Effects of annealing temperatures on crystalline quality of ceramic thin films by RF-magnetron sputtering using Zn-enriched (Ba0.3Sr0.7)(Zn1/3Nb2/3)O3 as target. Journal of Materials Science: Materials in Electronics, 2012, 23, 164-168. | 1.1 | 5 |
| 77 | A sensitive 2D plasmon ruler based on Fano resonance. RSC Advances, 2016, 6, 81757-81762. | 1.7 | 3 |
| 78 | An unmodified graphene foam chemical sensor based on SVM for discrimination of chemical molecules with broad selectivity. RSC Advances, 2017, 7, 43560-43566. | 1.7 | 3 |
| 79 | Low-Threshold Nanolaser Based on Hybrid Plasmonic Waveguide Mode Supported by Metallic Grating Waveguide Structure. Nanomaterials, 2021, 11, 2555. | 1.9 | 3 |
| 80 | Integrated Ultrahigh-Sensitivity Temperature Sensor Based on Asymmetric Machâ€“Zehnder Interferometer and Stress Deformation of Aluminum-SiO<sub>2</sub>. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-7. | 2.4 | 3 |
| 81 | Second Harmonic Generation from Ultrathin Gold Nanotubes. Plasmonics, 2016, 11, 1629-1636. | 1.8 | 2 |
| 82 | Indium Tin Oxide Nanowire Arrays as a Saturable Absorber for Mid-Infrared Er:Ca0.8Sr0.2F2 Laser. Nanomaterials, 2022, 12, 454. | 1.9 | 2 |
| 83 | Nonlinear regression: A possible solution to larger dynamic range for some spectrum-based optical sensors. Measurement: Journal of the International Measurement Confederation, 2022, 199, 111506. | 2.5 | 2 |
| 84 | Influence of annealing times on morphological characteristics of ceramic thin films by RF-magnetron sputtering using Zn-enriched (Ba0.3Sr0.7)(Zn1/3Nb2/3)O3 ceramic target. Journal of Materials Science: Materials in Electronics, 2012, 23, 1159-1162. | 1.1 | 1 |