

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Occurrence of endocrine disrupting compounds in aqueous environment and their bacterial degradation: A review. Critical Reviews in Environmental Science and Technology, 2016, 46, 1-59. | 12.8 | 153 |
| 2 | Reconfigurable metasurfaces that enable light polarization control by light. Light: Science and Applications, 2017, 6, e16254-e16254. | 16.6 | 108 |
| 3 | Tunable terahertz optical antennas based on graphene ring structures. Applied Physics Letters, 2012, 100, 153111. | 3.3 | 102 |
| 4 | Vertical distribution and assemblages of microbial communities and their potential effects on sulfur metabolism in a black-odor urban river. Journal of Environmental Management, 2019, 235, 368-376. | 7.8 | 77 |
| 5 | Surface plasmon modes in graphene wedge and groove waveguides. Optics Express, 2013, 21, 32432. | 3.4 | 75 |
| 6 | Nanoscale beam splitters based on gradient metasurfaces. Optics Letters, 2018, 43, 267. | 3.3 | 70 |
| 7 | Efficient Generation of Propagating Plasmons by Electron Beams. Nano Letters, 2009, 9, 1176-1181. | 9.1 | 68 |
| 8 | Tunable Band-Stop Filters for Graphene Plasmons Based on Periodically Modulated Graphene. Scientific Reports, 2016, 6, 26796. | 3.3 | 61 |
| 9 | Flexible modulation of plasmon-induced transparency in a strongly coupled graphene grating-sheet system. Optics Express, 2016, 24, 5784. | 3.4 | 57 |
| 10 | Nonlinear Lithium Niobate Metasurfaces for Second Harmonic Generation. Laser and Photonics Reviews, 2021, 15, 2000521. | 8.7 | 57 |
| 11 | Sediment bacterial communities in a eutrophic lake influenced by multiple inflow-rivers. Environmental Science and Pollution Research, 2017, 24, 19795-19806. | 5.3 | 54 |
| 12 | Lithium Niobate Metasurfaces. Laser and Photonics Reviews, 2019, 13, 1800312. | 8.7 | 52 |
| 13 | lsotropic spiral plasmonic metamaterial for sensing large refractive index change. Optics Letters, 2013, 38, 3133. | 3.3 | 50 |
| 14 | Immobilized-free miniaturized electrochemical sensing system for Pb2+ detection based on dual Pb2+-DNAzyme assistant feedback amplification strategy. Biosensors and Bioelectronics, 2018, 117, 312-318. | 10.1 | 46 |
| 15 | Tailorable Dynamics in Nonlinear Optical Metasurfaces. Advanced Materials, 2020, 32, e1806317. | 21.0 | 40 |
| 16 | Dispersion of metal-insulator-metal plasmon polaritons probed by cathodoluminescence imaging spectroscopy. Physical Review B, 2009, 80, . | 3.2 | 39 |
| 17 | A label-free electrochemical biosensor for microRNA detection based on catalytic hairpin assembly and in situ formation of molybdophosphate. Talanta, 2017, 163, 65-71. | 5.5 | 35 |
| 18 | Efficient orbital angular momentum transfer between plasmons and free electrons. Physical Review B, 2018, 98, . | 3.2 | 35 |

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|----|--|------|-----------|
| 19 | Surface plasmons at the interface between graphene and Kerr-type nonlinear media. Optics Letters, 2012, 37, 2730. | 3.3 | 33 |
| 20 | New insights into the spatial variability of biofilm communities and potentially negative bacterial groups in hydraulic concrete structures. Water Research, 2017, 123, 495-504. | 11.3 | 33 |
| 21 | Revealing the relationship between microbial community structure in natural biofilms and the pollution level in urban rivers: a case study in the Qinhuai River basin, Yangtze River Delta. Water Science and Technology, 2016, 74, 1163-1176. | 2.5 | 32 |
| 22 | Electro-optic lithium niobate metasurfaces. Science China: Physics, Mechanics and Astronomy, 2021, 64, 1. | 5.1 | 32 |
| 23 | Broadband on-Chip Terahertz Asymmetric Waveguiding via Phase-Gradient Metasurface. ACS Photonics, 2019, 6, 1774-1779. | 6.6 | 27 |
| 24 | Zak phase and topological plasmonic Tamm states in one-dimensional plasmonic crystals. Optics Express, 2018, 26, 28963. | 3.4 | 25 |
| 25 | Behavior of total phosphorus removal in an intelligent controlled sequencing batch biofilm reactor for municipal wastewater treatment. Bioresource Technology, 2013, 132, 190-196. | 9.6 | 24 |
| 26 | Mid-infrared plasmon induced transparency in heterogeneous graphene ribbon pairs. Optics Express, 2014, 22, 32450. | 3.4 | 22 |
| 27 | Enhanced on-chip terahertz sensing with hybrid metasurface/lithium niobate structures. Applied Physics Letters, 2019, 114, . | 3.3 | 22 |
| 28 | All-optical modulation of quantum states by nonlinear metasurface. Light: Science and Applications, 2022, 11, 58. | 16.6 | 21 |
| 29 | Inâ€Plane Electrical Connectivity and Nearâ€Field Concentration of Isolated Graphene Resonators Realized by Ion Beams. Advanced Materials, 2017, 29, 1701083. | 21.0 | 18 |
| 30 | Mid-infrared optical near-field switching in heterogeneous graphene ribbon pairs. Applied Physics Letters, 2013, 103, 041604. | 3.3 | 17 |
| 31 | Optical bistability based on Bragg grating resonators in metal-insulator-metal plasmonic waveguides. AIP Advances, 2013, 3, 012106. | 1.3 | 17 |
| 32 | Controllable excitation of gap plasmons by electron beams in metallic nanowire pairs. Physical Review B, 2010, 82, . | 3.2 | 16 |
| 33 | Tailorable reflection of surface plasmons in defect engineered graphene. 2D Materials, 2016, 3, 045001. | 4.4 | 16 |
| 34 | Displacement sensor based on plasmonic slot metamaterials. Applied Physics Letters, 2016, 108, . | 3.3 | 14 |
| 35 | Isolation and characterization of two novel psychrotrophic decabromodiphenyl ether-degrading bacteria from river sediments. Environmental Science and Pollution Research, 2016, 23, 10371-10381. | 5.3 | 14 |
| 36 | Effect of the pollution level on the functional bacterial groups aiming at degrading bisphenol A and nonylphenol in natural biofilms of an urban river. Environmental Science and Pollution Research, 2016, 23, 15727-15738. | 5.3 | 14 |

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|----|---|-----|-----------|
| 37 | Lattice Collective Interaction Engineered Optical Activity in Metamaterials. Advanced Optical Materials, 2020, 8, 1901435. | 7.3 | 14 |
| 38 | Giant near-field radiative heat transfer between ultrathin metallic films. Optics Express, 2019, 27, 36790. | 3.4 | 14 |
| 39 | Excitation of the Tunable Longitudinal Higher-Order Multipole SPR Modes by Strong Coupling in Large-Area Metal Sub-10 nm-Gap Array Structures and Its Application. Journal of Physical Chemistry C, 2016, 120, 24932-24940. | 3.1 | 13 |
| 40 | Dynamic spontaneous emission control of an optical emitter coupled to plasmons in strained graphene. Optics Express, 2017, 25, 23070. | 3.4 | 12 |
| 41 | Plasmonic Tamm states in insulator–metal–insulator waveguides. Journal of the Optical Society of America B: Optical Physics, 2018, 35, 1368. | 2.1 | 12 |
| 42 | Second-harmonic generation and its nonlinear depolarization from lithium niobate thin films. Optics Letters, 2020, 45, 145. | 3.3 | 12 |
| 43 | Design methodology for all-optical bistable switches based on a plasmonic resonator sandwiched between dielectric waveguides. Journal of Optics (United Kingdom), 2014, 16, 025003. | 2.2 | 11 |
| 44 | Directional generation of graphene plasmons by near field interference. Optics Express, 2016, 24, 19776. | 3.4 | 11 |
| 45 | Scaffold metamaterial and its application as strain sensor. Applied Physics Letters, 2015, 107, . | 3.3 | 10 |
| 46 | Plasmonic Tamm states: dual enhancement of light inside the plasmonic waveguide. Journal of the Optical Society of America B: Optical Physics, 2014, 31, 2769. | 2.1 | 9 |
| 47 | A Rational Design for Enhanced Catalytic Activity and Durability: Strongly Coupled N-Doped CrOx/Ce0.2Zr0.8O2 Nanoparticle Composites. ACS Applied Nano Materials, 2018, 1, 1150-1163. | 5.0 | 9 |
| 48 | Cathodoluminescence nanoscopy of open single-crystal aluminum plasmonic nanocavities. Nanoscale, 2018, 10, 22357-22361. | 5.6 | 9 |
| 49 | Near-field imaging of graphene triangles patterned by helium ion lithography. Nanotechnology, 2018, 29, 385205. | 2.6 | 9 |
| 50 | Ultrastrong coupling of CdZnS/ZnS quantum dots to bonding breathing plasmons of aluminum metal–insulator–metal nanocavities in near-ultraviolet spectrum. Nanoscale, 2020, 12, 3112-3120. | 5.6 | 9 |
| 51 | Unveiling quasi-dark surface plasmon modes in Au nanoring cavities by cathodoluminescence. Scientific Reports, 2017, 7, 1402. | 3.3 | 8 |
| 52 | Evolution and Coupling of Plasmonic Modes in Single-Crystal Aluminum Nanoridge Antennas. ACS Photonics, 2018, 5, 2983-2989. | 6.6 | 8 |
| 53 | Graphene Plasmonic Tamm States with Ultracompact Footprint. Physical Review Applied, 2019, 12, . | 3.8 | 8 |
| 54 | Optically addressed spatial light modulator based on nonlinear metasurface. Photonics Research, 2021, 9, 610. | 7.0 | 8 |

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|----|---|------|-----------|
| 55 | Nanoinfrared Characterization of Bilayer Graphene Conductivity under Dual-Gate Tuning. Nano Letters, 2021, 21, 5151-5157. | 9.1 | 8 |
| 56 | Conversion from terahertz-guided waves to surface waves with metasurface. Optics Express, 2018, 26, 31233. | 3.4 | 8 |
| 57 | Nanofocusing of the free-space optical energy with plasmonic Tamm states. Scientific Reports, 2016, 6, 39125. | 3.3 | 7 |
| 58 | Ultra-strong enhancement of electromagnetic fields in an L-shaped plasmonic nanocavity. Optics Express, 2016, 24, 3849. | 3.4 | 7 |
| 59 | Phase-Transition Optical Activity in Chiral Metamaterials. Physical Review Letters, 2020, 125, 237401. | 7.8 | 7 |
| 60 | Ultra-dispersive anomalous diffraction from Pancharatnam-Berry metasurfaces. Applied Physics Letters, 2018, 113, . | 3.3 | 6 |
| 61 | Laser direct writing of graphene nanostructures beyond the diffraction limit by graphene oxidation. Optics Express, 2018, 26, 20726. | 3.4 | 6 |
| 62 | A graphene P–N junction induced by single-gate control of dielectric structures. Journal of Materials Chemistry C, 2019, 7, 8796-8802. | 5.5 | 6 |
| 63 | Strong in-plane scattering of acoustic graphene plasmons by surface atomic steps. Nature Communications, 2022, 13, 983. | 12.8 | 6 |
| 64 | Metasurfaces with high-Q resonances governed by topological edge state. Optics Letters, 2022, 47, 1822. | 3.3 | 6 |
| 65 | The Fano-like lineshape without interference in graphene symmetry-breaking structures. Optics Communications, 2015, 355, 10-14. | 2.1 | 5 |
| 66 | Exploring the Microbial Ecological Functions in Response to Vertical Gradients in a Polluted Urban River. Clean - Soil, Air, Water, 2021, 49, 2100004. | 1.1 | 5 |
| 67 | Multifunctional and tunable trigate graphene metamaterial with "Lakes of Wada―topology. Optics Express, 2020, 28, 24772. | 3.4 | 5 |
| 68 | Prognostic value of immune scores in the microenvironment of colorectal cancer. Oncology Letters, 2020, 20, 1-1. | 1.8 | 5 |
| 69 | Real-time imaging of autofluorescence NAD(P)H in single human neutrophils. Applied Optics, 2009, 48, 1042. | 2.1 | 4 |
| 70 | Kinetic study on the cometabolic degradation of 17β-estradiol and 17α-ethinylestradiol by an <i>Acinetobacter</i> sp. strain isolated from activated sludge. Desalination and Water Treatment, 2016, 57, 22671-22681. | 1.0 | 4 |
| 71 | Experimental observed plasmon near-field response in isolated suspended graphene resonators. Nanotechnology, 2019, 30, 505201. | 2.6 | 4 |
| 72 | Topologically Enhanced Circular Dichroism from Metasurfaces. Physical Review Applied, 2021, 16, . | 3.8 | 4 |

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|----|--|-----|-----------|
| 73 | Full-Stokes polarimetry based on rotating metasurfaces. Applied Physics Letters, 2022, 120, . | 3.3 | 4 |
| 74 | Giant field enhancement and resonant wavelength shift through a composite nanostructure. Optics Communications, 2014, 321, 47-50. | 2.1 | 3 |
| 75 | Substrate carrier concentration dependent plasmon-phonon coupled modes at the interface between graphene and semiconductors. Optics Express, 2015, 23, 29533. | 3.4 | 3 |
| 76 | Unidirectional excitation of graphene plasmons in Au-graphene composite structures by a linearly polarized light beam. Optics Express, 2017, 25, 4680. | 3.4 | 3 |
| 77 | Real-space mapping of mid-infrared near-field of Yagi-Uda antenna in the emission mode. Optics Express, 2019, 27, 5884. | 3.4 | 3 |
| 78 | In-plane reflection phase engineering of graphene plasmons realized by electronic boundary design at the nanoscale. AIP Advances, 2022, 12, . | 1.3 | 3 |
| 79 | Reduced radiation losses in electron beam excited propagating plasmons. Optics Express, 2011, 19, 18713. | 3.4 | 2 |
| 80 | Linewidth narrowing of aluminum breathing plasmon resonances in Bragg grating decorated nanodisks. Nanoscale Advances, 2021, 3, 4286-4291. | 4.6 | 2 |
| 81 | Fabrication of Controllable N-Doped Ce0.2Zr0.8O2 via O–N–O Bond with Robust NO Oxidation and Durability at Low Temperature. Energy & Fuels, 2021, 35, 752-761. | 5.1 | 2 |
| 82 | Design and Implementation of the A/D Conversion Circuit for the High-Accuracy Ultrasonic Flowmeter. , 2010, , . | | 1 |
| 83 | Coherence preservation during light-surface plasmon polaritons-light transformation. Science China: Physics, Mechanics and Astronomy, 2013, 56, 1679-1683. | 5.1 | 1 |
| 84 | Nonlocal Immunized Mid-Infrared Magnetic Hot Spots in Graphene Junctions. Plasmonics, 2016, 11, 1481-1486. | 3.4 | 1 |
| 85 | Cathodoluminescence Enhancement of MoS ₂ by Femtosecond Laser Induced Periodic Surface Structures. Journal of Nanoscience and Nanotechnology, 2018, 18, 7557-7560. | 0.9 | 1 |
| 86 | Unveiling breathing plasmon modes in aluminum metal–insulator–metal cavities by cathodoluminescence. Journal of Optics (United Kingdom), 2020, 22, 035003. | 2.2 | 1 |
| 87 | Phase-shift-mediated sensitive detection of propagating ultra-confined graphene plasmons. Optics Express, 2022, 30, 1228. | 3.4 | 1 |
| 88 | Propagating anti-symmetrically coupled plasmons generation by electron beams. Optics Communications, 2012, 285, 4608-4611. | 2.1 | 0 |
| 89 | Light Excited Surface Plasmons in Graphene Ring Structures. , 2012, , . | | 0 |
| 90 | Structured graphene fabricated by laser direct writing beyond the diffraction limit. , 2017, , . | | 0 |

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|----|---|----|-----------|
| 91 | High Quality Resonances in Lithium Niobate Metasurfaces and Applications. , 2019, , . | | ο |
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