Leiming Wu

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Ultrasensitive detection of miRNA with an antimonene-based surface plasmon resonance sensor. Nature Communications, 2019, 10, 28. | 12.8 | 475 |
| 2 | Sensitivity enhancement by using few-layer black phosphorus-graphene/TMDCs heterostructure in surface plasmon resonance biochemical sensor. Sensors and Actuators B: Chemical, 2017, 249, 542-548. | 7.8 | 322 |
| 3 | Fewâ€layer Bismuthene: Sonochemical Exfoliation, Nonlinear Optics and Applications for Ultrafast Photonics with Enhanced Stability. Laser and Photonics Reviews, 2018, 12, 1700221. | 8.7 | 311 |
| 4 | MXeneâ€Enabled Electrochemical Microfluidic Biosensor: Applications toward Multicomponent Continuous Monitoring in Whole Blood. Advanced Functional Materials, 2019, 29, 1807326. | 14.9 | 301 |
| 5 | Broadband Nonlinear Optical Response in Few‣ayer Antimonene and Antimonene Quantum Dots: A Promising Optical Kerr Media with Enhanced Stability. Advanced Optical Materials, 2017, 5, 1700301. | 7.3 | 269 |
| 6 | Few‣ayer Tin Sulfide: A Promising Blackâ€Phosphorusâ€Analogue 2D Material with Exceptionally Large Nonlinear Optical Response, High Stability, and Applications in Allâ€Optical Switching and Wavelength Conversion. Advanced Optical Materials, 2018, 6, 1700985. | 7.3 | 212 |
| 7 | Kerr Nonlinearity in 2D Graphdiyne for Passive Photonic Diodes. Advanced Materials, 2019, 31, e1807981. | 21.0 | 187 |
| 8 | Graphdiyneâ€Based Flexible Photodetectors with High Responsivity and Detectivity. Advanced Materials, 2020, 32, e2001082. | 21.0 | 171 |
| 9 | Facile fabrication and characterization of two-dimensional bismuth(<scp>iii</scp>) sulfide nanosheets for high-performance photodetector applications under ambient conditions. Nanoscale, 2018, 10, 2404-2412. | 5.6 | 166 |
| 10 | Sensitivity Improved SPR Biosensor Based on the MoS2/Graphene–Aluminum Hybrid Structure. Journal of Lightwave Technology, 2017, 35, 82-87. | 4.6 | 165 |
| 11 | All-Optical Switching of Two Continuous Waves in Few Layer Bismuthene Based on Spatial Cross-Phase Modulation. ACS Photonics, 2017, 4, 2852-2861. | 6.6 | 164 |
| 12 | Few-layer Ti3C2Tx MXene: A promising surface plasmon resonance biosensing material to enhance the sensitivity. Sensors and Actuators B: Chemical, 2018, 277, 210-215. | 7.8 | 163 |
| 13 | Allâ€Optical Phosphorene Phase Modulator with Enhanced Stability Under Ambient Conditions. Laser and Photonics Reviews, 2018, 12, 1800016. | 8.7 | 155 |
| 14 | Enhanced Photodetection Properties of Tellurium@Selenium Rollâ€ŧoâ€Roll Nanotube Heterojunctions. Small, 2019, 15, e1900902. | 10.0 | 120 |
| 15 | MXeneâ€Based Nonlinear Optical Information Converter for Allâ€Optical Modulator and Switcher. Laser and Photonics Reviews, 2018, 12, 1800215. | 8.7 | 117 |
| 16 | Nonlinear Fewâ€Layer Antimoneneâ€Based Allâ€Optical Signal Processing: Ultrafast Optical Switching and Highâ€Speed Wavelength Conversion. Advanced Optical Materials, 2018, 6, 1701287. | 7.3 | 97 |
| 17 | Ultrasensitive biosensors based on long-range surface plasmon polariton and dielectric waveguide modes. Photonics Research, 2016, 4, 262. | 7.0 | 93 |
| 18 | Perovskite CsPbX ₃ : A Promising Nonlinear Optical Material and Its Applications for Ambient Allâ€Optical Switching with Enhanced Stability. Advanced Optical Materials, 2018, 6, 1800400. | 7.3 | 90 |

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|----|--|-------------|---------------|
| 19 | MZIâ€Based Allâ€Optical Modulator Using MXene Ti ₃ C ₂ T <i>_x</i> (T = | =) Tj ETQq1 | 1 0.784314 rg |
| 20 | Tuning and Sensitivity Enhancement of Surface Plasmon Resonance Biosensor With Graphene Covered Au-MoS 2-Au Films. IEEE Photonics Journal, 2016, 8, 1-8. | 2.0 | 85 |
| 21 | Refractive Index Sensors Based on Ti ₃ C ₂ T _x MXene Fibers. ACS Applied Nano Materials, 2020, 3, 303-311. | 5.0 | 74 |
| 22 | Nonlinear optical response, all optical switching, and all optical information conversion in NbSe ₂ nanosheets based on spatial self-phase modulation. Nanoscale, 2019, 11, 4515-4522. | 5.6 | 61 |
| 23 | A self-powered photodetector based on two-dimensional boron nanosheets. Nanoscale, 2020, 12, 5313-5323. | 5.6 | 60 |
| 24 | Ultrasensitive Terahertz Biosensors Based on Fano Resonance of a Graphene/Waveguide Hybrid Structure. Sensors, 2017, 17, 1924. | 3.8 | 52 |
| 25 | Broadband nonlinear optical resonance and all-optical switching of liquid phase exfoliated tungsten diselenide. Photonics Research, 2018, 6, 1040. | 7.0 | 52 |
| 26 | Engineering ultrafast charge transfer in a bismuthene/perovskite nanohybrid. Nanoscale, 2019, 11, 2637-2643. | 5.6 | 51 |
| 27 | An ultra-high sensitivity surface plasmon resonance sensor based on graphene-aluminum-graphene sandwich-like structure. Journal of Applied Physics, 2016, 120, . | 2.5 | 50 |
| 28 | Two-dimensional beta-lead oxide quantum dots. Nanoscale, 2018, 10, 20540-20547. | 5.6 | 49 |
| 29 | Selfâ€Healable Black Phosphorus Photodetectors. Advanced Functional Materials, 2019, 29, 1906610. | 14.9 | 48 |
| 30 | High-Performance Lossy-Mode Resonance Sensor Based on Few-Layer Black Phosphorus. Journal of Physical Chemistry C, 2018, 122, 7368-7373. | 3.1 | 47 |
| 31 | Two-Dimensional Black Arsenic Phosphorus for Ultrafast Photonics in Near- and Mid-Infrared Regimes. ACS Applied Materials & Interfaces, 2020, 12, 46509-46518. | 8.0 | 47 |
| 32 | Highly Sensitive Terahertz Gas Sensor Based on Surface Plasmon Resonance With Graphene. IEEE Photonics Journal, 2018, 10, 1-7. | 2.0 | 46 |
| 33 | Sensitivity Enhanced by MoS2–Graphene Hybrid Structure in Guided-Wave Surface Plasmon Resonance Biosensor. Plasmonics, 2018, 13, 281-285. | 3.4 | 46 |
| 34 | Epitaxial Growth of Topological Insulators on Semiconductors (Bi ₂ Se ₃ /Te@Se) toward Highâ€Performance Photodetectors. Small Methods, 2019, 3, 1900349. | 8.6 | 45 |
| 35 | Van der Waals Integration of Bismuth Quantum Dots–Decorated Tellurium Nanotubes (Te@Bi) Heterojunctions and Plasmaâ€Enhanced Optoelectronic Applications. Small, 2019, 15, e1903233. | 10.0 | 45 |
| 36 | Tunable terahertz/infrared coherent perfect absorption in a monolayer black phosphorus. Optics Express, 2018, 26, 5488. | 3.4 | 44 |

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|----|--|------|-----------|
| 37 | Long-Range Surface Plasmon With Graphene for Enhancing the Sensitivity and Detection Accuracy of Biosensor. IEEE Photonics Journal, 2016, 8, 1-9. | 2.0 | 41 |
| 38 | A promising nonlinear optical material and its applications for all-optical switching and information converters based on the spatial self-phase modulation (SSPM) effect of TaSe ₂ nanosheets. Journal of Materials Chemistry C, 2019, 7, 3811-3816. | 5.5 | 41 |
| 39 | Fano resonance in double waveguides with graphene for ultrasensitive biosensor. Optics Express, 2018, 26, 16884. | 3.4 | 40 |
| 40 | Spatial self-phase modulation and all-optical switching of graphene oxide dispersions. Journal of Alloys and Compounds, 2019, 771, 900-904. | 5.5 | 35 |
| 41 | Recent Advances of Spatial Selfâ€Phase Modulation in 2D Materials and Passive Photonic Device Applications. Small, 2020, 16, e2002252. | 10.0 | 35 |
| 42 | Theoretical Investigation of Multilayer Ti ₃ C ₂ T _x MXene as the Plasmonic Material for Surface Plasmon Resonance Sensors in Near Infrared Region. IEEE Sensors Journal, 2019, 19, 11834-11838. | 4.7 | 34 |
| 43 | Absorption enhancement and total absorption in a graphene-waveguide hybrid structure. AIP Advances, 2017, 7, . | 1.3 | 33 |
| 44 | Ultrathin boron nanosheets as an emerging two-dimensional photoluminescence material for bioimaging. Nanoscale Horizons, 2020, 5, 705-713. | 8.0 | 33 |
| 45 | Manipulating the optical bistability at terahertz frequency in the Fabry-Perot cavity with graphene. Optics Express, 2015, 23, 31181. | 3.4 | 32 |
| 46 | Improving the Performance of an SPR Biosensor Using Long-Range Surface Plasmon of Ga-Doped Zinc Oxide. Sensors, 2018, 18, 2098. | 3.8 | 31 |
| 47 | Tunable polaritonic metasurface absorbers in mid-IR based on hexagonal boron nitride and vanadium dioxide layers. Journal Physics D: Applied Physics, 2019, 52, 164002. | 2.8 | 30 |
| 48 | Synthesis and optoelectronics of mixed-dimensional Bi/Te binary heterostructures. Nanoscale Horizons, 2020, 5, 847-856. | 8.0 | 28 |
| 49 | All-optical logic devices based on black arsenic–phosphorus with strong nonlinear optical response and high stability. Opto-Electronic Advances, 2022, 5, 200046-200046. | 13.3 | 25 |
| 50 | GeSe nanosheets modified surface plasmon resonance sensors for enhancing sensitivity. Nanophotonics, 2020, 9, 327-336. | 6.0 | 24 |
| 51 | Enhancement of photonic spin Hall effect via bound states in the continuum. Journal Physics D: Applied Physics, 2019, 52, 045401. | 2.8 | 23 |
| 52 | Liquidâ€Exfoliated Fewâ€Layer InSe Nanosheets for Broadband Nonlinear Allâ€Optical Applications. Advanced Optical Materials, 2020, 8, 1901862. | 7.3 | 20 |
| 53 | High Sensitivity Intensity-Interrogated Bloch Surface Wave Biosensor With Graphene. IEEE Sensors Journal, 2018, 18, 106-110. | 4.7 | 19 |
| 54 | Broadband nonlinear optical response in Bi2Se3-Bi2Te3 heterostructure and its application in all-optical switching. AIP Advances, 2019, 9, . | 1.3 | 19 |

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|----|---|---------------------|----------------|
| 55 | 1D@0D hybrid dimensional heterojunction-based photonics logical gate and isolator. Applied Materials Today, 2020, 19, 100589. | 4.3 | 19 |
| 56 | Terahertz Biochemical Sensor Based on Strong Coupling Between Waveguide Mode and Surface Plasmons of Double-Layer Graphene. IEEE Sensors Journal, 2018, 18, 7436-7441. | 4.7 | 18 |
| 57 | Topological insulator overlayer to enhance the sensitivity and detection limit of surface plasmon resonance sensor. Nanophotonics, 2020, 9, 1941-1951. | 6.0 | 18 |
| 58 | Giant tunable Goos–Hächen shifts based on surface plasmon resonance with Dirac semimetal films. Journal Physics D: Applied Physics, 2019, 53, 015107. | 2.8 | 14 |
| 59 | Application of Few-Layer Transition Metal Dichalcogenides to Detect the Refractive Index Variation in Lossy-Mode Resonance Sensors With High Figure of Merit. IEEE Sensors Journal, 2019, 19, 5030-5034. | 4.7 | 14 |
| 60 | High Figure of Merit Lossy Mode Resonance Sensor with Graphene. Plasmonics, 2019, 14, 929-934. | 3.4 | 13 |
| 61 | Ultrasensitive Multiple Guided-Mode Biosensor With Few-Layer Black Phosphorus. Journal of Lightwave Technology, 2020, 38, 1564-1571. | 4.6 | 11 |
| 62 | 2D BP/InSe Heterostructures as a Nonlinear Optical Material for Ultrafast Photonics. Nanomaterials, 2022, 12, 1809. | 4.1 | 11 |
| 63 | Lossy-mode-resonance sensor based on perovskite nanomaterial with high sensitivity. Optics Express, 2021, 29, 17602. | 3.4 | 10 |
| 64 | Multifunctional VI–VI binary heterostructure-based self-powered pH-sensitive photo-detector. Journal of Materials Chemistry C, 2020, 8, 5991-6000. | 5.5 | 8 |
| 65 | Enhancement of Sensitivity with Highâ ''Reflectiveâ ''Index Guidedâ ''Wave Nanomaterials for a Longâ ''Range Surface Plasmon Resonance Sensor. Nanomaterials, 2022, 12, 168. | 4.1 | 6 |
| 66 | Photodetectors: Graphdiyneâ€Based Flexible Photodetectors with High Responsivity and Detectivity (Adv. Mater. 23/2020). Advanced Materials, 2020, 32, 2070175. | 21.0 | 5 |
| 67 | CH3NH3PbBr3 Thin Film Served as Guided-Wave Layer for Enhancing the Angular Sensitivity of Plasmon Biosensor. Biosensors, 2021, 11, 415. | 4.7 | 5 |
| 68 | Quantum Dots: Broadband Nonlinear Optical Response in Few‣ayer Antimonene and Antimonene Quantum Dots: A Promising Optical Kerr Media with Enhanced Stability (Advanced Optical Materials) Tj ETQq0 (|) 0 7 gBT /C | Dve#lock 10 Th |
| 69 | Fano Resonance in Waveguide Coupled Surface Exciton Polaritons: Theory and Application in Biosensor. Sensors, 2018, 18, 4437. | 3.8 | 3 |
| 70 | Tunable Nonlinearity in 2D Graphdiyne Oxide for Highâ€Performance Allâ€Optical Modulation. Advanced Optical Materials, 2022, 10, . | 7.3 | 3 |
| 71 | Double Perovskite Ba2LaTaO6 for Ultrafast Fiber Lasers in Anomalous and Normal Net Dispersion Regime. Nanomaterials, 2022, 12, 2112. | 4.1 | 3 |
| 72 | Ultrasensitive Terahertz Imaging Sensors Based on the Strong Coupling of Surface Phonon Polariton and Graphene Surface Plasmon Polariton. IEEE Photonics Journal, 2018, 10, 1-9. | 2.0 | 2 |