

# Hongyun Meng

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9250508/publications.pdf>

Version: 2024-02-01

49  
papers

1,023  
citations

471509

17  
h-index

434195

31  
g-index

49  
all docs

49  
docs citations

49  
times ranked

939  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Simultaneous measurement of refractive index and temperature based on a core-offset Mach-Zehnder interferometer combined with a fiber Bragg grating. <i>Sensors and Actuators A: Physical</i> , 2014, 209, 73-77.                 | 4.1 | 144       |
| 2  | Fiber Bragg grating-based fiber sensor for simultaneous measurement of refractive index and temperature. <i>Sensors and Actuators B: Chemical</i> , 2010, 150, 226-229.   | 7.8 | 82        |
| 3  | Analogue Electromagnetically Induced Transparency Based on Low-loss Metamaterial and its Application in Nanosensor and Slow-light Device. <i>Plasmonics</i> , 2017, 12, 641-647.  | 3.4 | 77        |
| 4  | Simultaneous measurement of refractive index and temperature based on asymmetric structures modal interference. <i>Optics Communications</i> , 2016, 364, 191-194.  | 2.1 | 65        |
| 5  | High-Efficiency, Near-Diffraction Limited, Dielectric Metasurface Lenses Based on Crystalline Titanium Dioxide at Visible Wavelengths. <i>Nanomaterials</i> , 2018, 8, 288.   | 4.1 | 53        |
| 6  | Humidity sensor based on a graphene oxide-coated few-mode fiber Mach-Zehnder interferometer. <i>Optics Express</i> , 2020, 28, 24682.   | 3.4 | 53        |
| 7  | Simultaneous Measurement of Refractive Index and Temperature Based on Modal Interference. <i>IEEE Sensors Journal</i> , 2014, 14, 2524-2528.  | 4.7 | 50        |
| 8  | Dynamically Temperature-Voltage Controlled Multifunctional Device Based on VO <sub>2</sub> and Graphene Hybrid Metamaterials: Perfect Absorber and Highly Efficient Polarization Converter. <i>Nanomaterials</i> , 2019, 9, 1101. | 4.1 | 44        |
| 9  | Three Channel-Spacing Switchable Multiwavelength Fiber Laser With Two Segments of Polarization-Maintaining Fiber. <i>IEEE Photonics Technology Letters</i> , 2012, 24, 470-472.   | 2.5 | 35        |
| 10 | Plasmonic-Induced Transparency and Slow-Light Effect Based on Stub Waveguide with Nanodisk Resonator. <i>Plasmonics</i> , 2016, 11, 543-550.  | 3.4 | 31        |
| 11 | Hybrid Metal Graphene-Based Tunable Plasmon-Induced Transparency in Terahertz Metasurface. <i>Nanomaterials</i> , 2019, 9, 385.   | 4.1 | 27        |
| 12 | Simultaneous Measurement of Temperature and Pressure by Utilizing an Integrated Mach-Zehnder. <i>Journal of Lightwave Technology</i> , 2017, 35, 4924-4929.   | 4.6 | 25        |
| 13 | Near-infrared thermally modulated varifocal metalens based on the phase change material Sb <sub>2</sub> S <sub>3</sub> . <i>Optics Express</i> , 2021, 29, 7925.  | 3.4 | 25        |
| 14 | Optical fiber temperature sensor based on a Mach-Zehnder interferometer with single-mode-thin-core-single-mode fiber structure. <i>Review of Scientific Instruments</i> , 2020, 91, 015006.                                       | 1.3 | 23        |
| 15 | Multi-band plasmonic absorber based on hybrid metal-graphene metasurface for refractive index sensing application. <i>Results in Physics</i> , 2021, 23, 104020.  | 4.1 | 21        |
| 16 | Fiber Humidity Sensor Based on a Graphene-Coated Core-Offset Mach-Zehnder Interferometer. , 2018, 2, 1-4.   |     | 20        |
| 17 | Dynamically Tunable Resonant Strength in Electromagnetically Induced Transparency (EIT) Analogue by Hybrid Metal-Graphene Metamaterials. <i>Nanomaterials</i> , 2019, 9, 171.   | 4.1 | 19        |
| 18 | A Polarization-Insensitive and Wide-Angle Terahertz Absorber with Ring-Porous Patterned Graphene Metasurface. <i>Nanomaterials</i> , 2020, 10, 1410.  | 4.1 | 19        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Broadband Filter and Adjustable Extinction Ratio Modulator Based on Metal-Graphene Hybrid Metamaterials. <i>Nanomaterials</i> , 2020, 10, 1359.  | 4.1 | 17        |
| 20 | Single core-offset Mach-Zehnder interferometer coated with PVA for simultaneous measurement of relative humidity and temperature. <i>Optics Express</i> , 2021, 29, 24102.   | 3.4 | 16        |
| 21 | Dynamic generation of giant linear and circular dichroism via phase-change metasurface. <i>Optics Express</i> , 2021, 29, 40759.   | 3.4 | 15        |
| 22 | Metalenses Based on Symmetric Slab Waveguide and c-TiO <sub>2</sub> : Efficient Polarization-Insensitive Focusing at Visible Wavelengths. <i>Nanomaterials</i> , 2018, 8, 699.   | 4.1 | 14        |
| 23 | Tunable Terahertz Filters Based on Graphene Plasmonic All-Dielectric Metasurfaces. <i>Plasmonics</i> , 2018, 13, 525-530.  | 3.4 | 13        |
| 24 | Ammonia Gas Sensor Based on Graphene Oxide-Coated Mach-Zehnder Interferometer with Hybrid Fiber Structure. <i>Sensors</i> , 2021, 21, 3886.  | 3.8 | 11        |
| 25 | Active Modulating the Intensity of Bifocal Metalens with Electrically Tunable Barium Titanate (BTO) Nanofins. <i>Nanomaterials</i> , 2021, 11, 2023.   | 4.1 | 11        |
| 26 | Dual coupled-resonator system for plasmon-induced transparency and slow light effect. <i>Optics Communications</i> , 2016, 380, 95-100.  | 2.1 | 10        |
| 27 | Polarization-Independent All-Fiber Quasi-Flat-Top Comb Filter Based on a Dual-Pass Mach-Zehnder Interferometer With High Birefringence Fiber in the Second Loop. <i>IEEE Photonics Technology Letters</i> , 2012, 24, 206-208. | 2.5 | 9         |
| 28 | Plasmonically Induced Absorption and Transparency Based on Stub Waveguide with Nanodisk and Fabry-Perot Resonator. <i>Plasmonics</i> , 2017, 12, 1289-1296.  | 3.4 | 9         |
| 29 | Multifunctional Sensors and Switch in MDM Waveguide With Symmetric Dual Side-Coupled Nanodisks. <i>IEEE Photonics Technology Letters</i> , 2016, 28, 2893-2896.  | 2.5 | 8         |
| 30 | A Thermal Tuning Meta-Duplex-Lens (MDL): Design and Characterization. <i>Nanomaterials</i> , 2020, 10, 1135.   | 4.1 | 7         |
| 31 | Generation and conversion of a dual-band Laguerre-Gaussian beam with different OAM based on a bilayer metasurface. <i>Optical Materials Express</i> , 2022, 12, 1163.  | 3.0 | 7         |
| 32 | Analogue of electromagnetically induced absorption with double absorption windows in a plasmonic system. <i>PLoS ONE</i> , 2017, 12, e0179609.   | 2.5 | 6         |
| 33 | Multifunctional Metasurface Lens With Tunable Focus Based on Phase Transition Material. <i>Frontiers in Physics</i> , 2021, 9, .   | 2.1 | 6         |
| 34 | A new optical fiber dew point humidity sensor based on the virtual instrument. <i>Review of Scientific Instruments</i> , 2019, 90, 015115.   | 1.3 | 6         |
| 35 | Hydroxyethyl cellulose sensitized SMDMS structure with optical fiber relative humidity and temperature simultaneous measurement sensor. <i>Optics Express</i> , 2022, 30, 1152.  | 3.4 | 6         |
| 36 | Band-tunable achromatic metalens based on phase change material. <i>Optics Express</i> , 2022, 30, 17541.  | 3.4 | 6         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 37 | Electrically-Driven Zoom Metalens Based on Dynamically Controlling the Phase of Barium Titanate (BTO) Column Antennas. <i>Nanomaterials</i> , 2021, 11, 729.  | 4.1 | 5         |
| 38 | A Bifunctional Silicon Dielectric Metasurface Based on Quasi-Bound States in the Continuum. <i>Nanomaterials</i> , 2021, 11, 2357.  | 4.1 | 5         |
| 39 | A design of dual guided modes ring-based photonic crystal fiber supporting 170 <sup>th</sup> OAM modes with large effective mode field area. <i>Applied Physics B: Lasers and Optics</i> , 2022, 128, 1.            | 2.2 | 5         |
| 40 | A novel dew point measurement system based on the thermal effect of humidity sensitive thin film. <i>Measurement: Journal of the International Measurement Confederation</i> , 2022, 187, 110248.                   | 5.0 | 4         |
| 41 | A novel AIEE active anti-B <sub>18</sub> H <sub>22</sub> derivative-based Cu <sup>2+</sup> and Fe <sup>3+</sup> fluorescence off-on-off sensor. <i>Methods and Applications in Fluorescence</i> , 2022, 10, 035004. | 2.3 | 4         |
| 42 | A novel titration method based on fiber-optic refractive index sensing for the determination of deacetylation degree of chitosans. <i>Polymer Bulletin</i> , 2012, 69, 189-197.                                     | 3.3 | 3         |
| 43 | All-fiber flat-top comb filter based on a Mach-Zehnder interferometer cascading a Michelson interferometer. <i>Optik</i> , 2015, 126, 1806-1808.  | 2.9 | 3         |
| 44 | Dual-channel metasurfaces for independent and simultaneous display in near-field and far-field. <i>Optics Express</i> , 2022, 30, 18434.  | 3.4 | 3         |
| 45 | Relative humidity sensor based on corrosive seven-core fiber coated with graphene oxide. <i>Optical Engineering</i> , 2021, 60, .   | 1.0 | 1         |
| 46 | Lasing wavelength shift of ASE-injected wavelength-locked F-P LD in WDM-PON. <i>Microwave and Optical Technology Letters</i> , 2011, 53, 1522-1524.   | 1.4 | 0         |
| 47 | Photon Counting Statistics of a Microwave Cavity Coupled with Double Quantum Dots. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4934.   | 2.5 | 0         |
| 48 | Flexible Control of Two-Channel Transmission and Group Delay in an Optomechanical System with Double Quantum Dots Driven by External Field. <i>Nanomaterials</i> , 2021, 11, 1554.                                  | 4.1 | 0         |
| 49 | Electronically Controlled Time-Domain Integral Average Depolarizer Based on a Barium Titanate (BTO) Metasurface. <i>Nanomaterials</i> , 2022, 12, 1228.   | 4.1 | 0         |