# Ya-Lun Ho

List of Publications by Year
in descending order



| 58 | 768 | 516215 16 | 580395 25 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 58 | 58 | 58 | 969 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Narrowband Thermal Emission Realized through the Coupling of Cavity and Tamm Plasmon Resonances. ACS Photonics, 2018, 5, 2446-2452. | 3.2 | 74 |
| 2 | Midâ€infrared Plasmonic Resonances in 2D VO<sub>2</sub> Nanosquare Arrays. Advanced Optical Materials, 2015, 3, 1759-1767. | 3.6 | 48 |
| 3 | Ultranarrow and Wavelength-Tunable Thermal Emission in a Hybrid Metalâ€“Optical Tamm State Structure. ACS Photonics, 2020, 7, 1569-1576. | 3.2 | 47 |
| 4 | Selfâ€Healing Lithographic Patterning of Perovskite Nanocrystals for Largeâ€Area Singleâ€Mode Laser Array. Advanced Functional Materials, 2021, 31, . | 7.8 | 46 |
| 5 | Multifunctional Effect of pâ€Doping, Antireflection, and Encapsulation by Polymeric Acid for High Efficiency and Stable Carbon Nanotubeâ€Based Silicon Solar Cells. Advanced Energy Materials, 2020, 10, 1902389. | 10.2 | 40 |
| 6 | Electrical tuning of metal-insulator-metal metasurface with electro-optic polymer. Applied Physics Letters, 2018, 113, . | 1.5 | 33 |
| 7 | Hot-electron photodetector with wavelength selectivity in near-infrared via Tamm plasmon. Nanoscale, 2019, 11, 17407-17414. | 2.8 | 33 |
| 8 | Single-Step Electrophoretic Deposition of Non-noble Metal Catalyst Layer with Low Onset Voltage for Ethanol Electro-oxidation. ACS Applied Materials & Interfaces, 2016, 8, 15975-15984. | 4.0 | 29 |
| 9 | Metallic Nanowire Coupled CsPbBr<sub>3</sub> Quantum Dots Plasmonic Nanolaser. Advanced Functional Materials, 2021, 31, 2102375. | 7.8 | 23 |
| 10 | Hollow Plasmonic Uâ€Cavities with Highâ€Aspectâ€Ratio Nanofins Sustaining Strong Optical Vortices for Light Trapping and Sensing. Advanced Optical Materials, 2014, 2, 522-528. | 3.6 | 22 |
| 11 | Plasmonic Hot-Carriers in Channel-Coupled Nanogap Structure for Metalâ€“Semiconductor Barrier Modulation and Spectral-Selective Plasmonic Monitoring. ACS Photonics, 2018, 5, 2617-2623. | 3.2 | 22 |
| 12 | Fabrication, characterization, and high temperature surface enhanced Raman spectroscopic performance of SiO<sub>2</sub> coated silver particles. Nanoscale, 2018, 10, 5449-5456. | 2.8 | 20 |
| 13 | Narrowband thermal emission from Tamm plasmons of a modified distributed Bragg reflector. Applied Physics Letters, 2018, 113, . | 1.5 | 20 |
| 14 | Spectrally selective photodetection in the near-infrared with a gold grating-based hot electron structure. Applied Physics Letters, 2020, 116, . | 1.5 | 20 |
| 15 | Spectrally Selective Photocapacitance Modulation in Plasmonic Nanochannels for Infrared Imaging. Nano Letters, 2016, 16, 3094-3100. | 4.5 | 19 |
| 16 | Optically Pumped Hybrid Plasmonic-Photonic Waveguide Modulator Using the VO2 Metal-Insulator Phase Transition. IEEE Photonics Journal, 2018, 10, 1-9. | 1.0 | 19 |
| 17 | On-Chip Monolithically Fabricated Plasmonic-Waveguide Nanolaser. Nano Letters, 2018, 18, 7769-7776. | 4.5 | 18 |
| 18 | Highâ€Q and Tailorable Fano Resonances in a Oneâ€Dimensional Metalâ€Optical Tamm State Structure: From a Narrowband Perfect Absorber to a Narrowband Perfect Reflector. Advanced Functional Materials, 2021, 31, 2102183. | 7.8 | 18 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Two-pair multilayer Bloch surface wave platform in the near- and mid-infrared regions. Applied Physics Letters, 2019, 115, 091102. | 1.5 | 17 |
| 20 | Gap Plasmons Multiple Mirroring from Spheres in Pyramids for Surface-Enhanced Raman Scattering. ACS Photonics, 2016, 3, 2405-2412. | 3.2 | 15 |
| 21 | Water Confined in MIL-101(Cr): Unique Sorptionâ€“Desorption Behaviors Revealed by Diffuse Reflectance Infrared Spectroscopy and Molecular Dynamics Simulation. Journal of Physical Chemistry C, 2021, 125, 17786-17795. | 1.5 | 15 |
| 22 | Sensitive Oligonucleotide Detection Using Resonant Coupling between Fano Resonance and Image Dipoles of Gold Nanoparticles. ACS Applied Materials & Interfaces, 2022, 14, 14012-14024. | 4.0 | 13 |
| 23 | Coupling of localized surface plasmons to U-shaped cavities for high-sensitivity and miniaturized detectors. Optics Express, 2013, 21, 1531. | 1.7 | 12 |
| 24 | Plasmonic nanochannel structure for narrow-band selective thermal emitter. Applied Physics Letters, 2017, 110, . | 1.5 | 12 |
| 25 | Light Switching with a Metal-Free Chiral-Sensitive Metasurface at Telecommunication Wavelengths. ACS Photonics, 2020, 7, 2915-2922. | 3.2 | 12 |
| 26 | Plasmonic Hybrid Cavity-Channel Structure for Tunable Narrow-Band Optical Absorption. IEEE Photonics Technology Letters, 2014, 26, 1979-1982. | 1.3 | 11 |
| 27 | Photoinduced Metal-Like Phase of VO<sub>2</sub> with Subns Recovery. ACS Photonics, 2020, 7, 2395-2404. | 3.2 | 11 |
| 28 | Enhancing Detection Sensitivity of ZnO-Based Infrared Plasmonic Sensors Using Capped Dielectric Ga<sub>2</sub>O<sub>3</sub> Layers for Real-Time Monitoring of Biological Interactions. ACS Applied Bio Materials, 2020, 3, 6331-6342. | 2.3 | 9 |
| 29 | Single-bubble dynamics in nanopores: Transition between homogeneous and heterogeneous nucleation. Physical Review Research, 2020, 2, . | 1.3 | 9 |
| 30 | Integration of on-chip perovskite nanocrystal laser and long-range surface plasmon polariton waveguide with etching-free process. Nanoscale, 2022, 14, 10075-10081. | 2.8 | 9 |
| 31 | Independent light-trapping cavity for ultra-sensitive plasmonic sensing. Applied Physics Letters, 2014, 105, 061112. | 1.5 | 7 |
| 32 | Plasmon focusing in short gold sphere nanochains for surface-enhanced Raman scattering. Applied Optics, 2013, 52, 8809. | 0.9 | 6 |
| 33 | Lithographic in-mold patterning for CsPbBr<sub>3</sub> nanocrystals distributed Bragg reflector single-mode laser. Nanoscale, 2021, 13, 15830-15836. | 2.8 | 6 |
| 34 | Selfâ€Patterned CsPbBr<sub>3</sub> Nanocrystal Based Plasmonic Hotâ€Carrier Photodetector at Telecommunications Wavelengths. Advanced Optical Materials, 2021, 9, 2101474. | 3.6 | 5 |
| 35 | Aluminum-black silicon plasmonic nano-eggs structure for deep-UV surface-enhanced resonance Raman spectroscopy. Applied Physics Letters, 2022, 120, 051102. | 1.5 | 5 |
| 36 | Combination of an Axicon Fiber Tip and a Camera Device into a Sensitive Refractive Index Sensor. Sensors, 2019, 19, 4911. | 2.1 | 4 |

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| 37 | Analysis and control of vapor bubble growth inside solid-state nanopores. Journal of Thermal Science and Technology, 2021, 16, JTST0007-JTST0007. | 0.6 | 4 |
| 38 | Real-Time Monitoring of Frost/Defrost Processes Using a Tapered Optical Fiber. IEEE Sensors Journal, 2021, 21, 6188-6194. | 2.4 | 4 |
| 39 | Thresholdless behavior and linearity of the optically induced metallization of NbO2. Physical Review Research, 2019, 1, . | 1.3 | 4 |
| 40 | Loop-Turn Optical Flows with Spectral Selectivity in Suspended Plasmonic Nanofin-Cavity Structure. ACS Photonics, 2015, 2, 730-737. | 3.2 | 3 |
| 41 | Plasmonic tooth-multilayer structure with high enhancement field for surface enhanced Raman spectroscopy. Nanotechnology, 2017, 28, 125206. | 1.3 | 3 |
| 42 | Enhancing Raman signals from bacteria using dielectrophoretic force between conductive lensed fiber and black silicon. Biosensors and Bioelectronics, 2021, 191, 113463. | 5.3 | 3 |
| 43 | Near-Zero-Index Slabs on Bloch Surface Wave Platform for Long-Range Directional Couplers and Optical Logic Gates. ACS Nano, 2022, 16, 2224-2232. | 7.3 | 3 |
| 44 | Light Trapping in Finite Arrays of Metallic U-Shaped Cavities for Sensing With High Figures of Merit. IEEE Photonics Technology Letters, 2014, 26, 1645-1648. | 1.3 | 2 |
| 45 | High sensitivity refractive index sensing with strong light confinement in high-aspect-ratio U-cavity arrays. Sensors and Actuators B: Chemical, 2014, 202, 137-143. | 4.0 | 2 |
| 46 | Fluid-controlled tunable infrared filtering in hollow plasmonic nanofin cavities. Nanotechnology, 2016, 27, 425202. | 1.3 | 2 |
| 47 | Sensitive Handheld Refractometer by Using Combination of a Tapered Fiber Tip and a Multimode Fiber. Journal of Lightwave Technology, 2021, 39, 4179-4185. | 2.7 | 2 |
| 48 | Optimized Tamm-plasmon structure by Differential Evolution algorithm for single and dual peaks hot-electron photodetection. Optical Materials, 2021, 113, 110857. | 1.7 | 2 |
| 49 | A 3D metallic structure array for refractive index sensing with optical vortex. , 2013, , . | | 1 |
| 50 | Plasmonics: Hollow Plasmonic Uâ€Cavities with Highâ€Aspectâ€Ratio Nanofins Sustaining Strong Optical | 3.6 | 1 |
| 51 | Silicon Solar Cells: Multifunctional Effect of pâ€Doping, Antireflection, and Encapsulation by Polymeric Acid for High Efficiency and Stable Carbon Nanotubeâ€Based Silicon Solar Cells (Adv. Energy) Tj ETQq1 1 0.784314 rgBT /Ove | | 1 |
| 52 | Hot electron photodetection with spectral selectivity in the C-band using a silicon channel-separated gold grating structure. Nano Express, 2020, 1, 010015. | 1.2 | 1 |
| 53 | Selfâ€Patterned CsPbBr<sub>3</sub> Nanocrystal Based Plasmonic Hotâ€Carrier Photodetector at Telecommunications Wavelengths (Advanced Optical Materials 24/2021). Advanced Optical Materials, 2021, 9, . | 3.6 | 1 |
| 54 | Localized surface plasmons coupled in U-shaped nano-cavity with high sensitivity. , 2013, , . | | 0 |

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|---|---|---|---|
| 55 | Angular dependent optical wavelength selection in hybrid cavity-channel structure by coupled plasmon resonance. , 2016, , . | | 0 |
| 56 | Narrow-band plasmonic thermal emitter using plasmonic nanochannel structure. , 2017, , . | | 0 |
| 57 | Experimental Demonstration of Surface-Normal MIM Modulator with Electro-Optic Polymer. , 2018, , . | | 0 |
| 58 | ZnO plasmonic-waveguide nanolaser (Conference Presentation). , 2019, , . | | 0 |