

Ya-Lun Ho

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

49
papers

452
citations

14
h-index

18
g-index

58
ext. papers

605
ext. citations

6.8
avg, IF

4
L-index

#	Paper	IF	Citations
49	Aluminum-black silicon plasmonic nano-eggs structure for deep-UV surface-enhanced resonance Raman spectroscopy. <i>Applied Physics Letters</i> , 2022 , 120, 051102	3.4	2
48	Optimized Tamm-plasmon structure by Differential Evolution algorithm for single and dual peaks hot-electron photodetection. <i>Optical Materials</i> , 2021 , 113, 110857	3.3	0
47	Real-Time Monitoring of Frost/Defrost Processes Using a Tapered Optical Fiber. <i>IEEE Sensors Journal</i> , 2021 , 21, 6188-6194	4	2
46	Metallic Nanowire Coupled CsPbBr ₃ Quantum Dots Plasmonic Nanolaser. <i>Advanced Functional Materials</i> , 2021 , 31, 2102375	15.6	9
45	High-Q and Tailorable Fano Resonances in a One-Dimensional Metal-Optical Tamm State Structure: From a Narrowband Perfect Absorber to a Narrowband Perfect Reflector. <i>Advanced Functional Materials</i> , 2021 , 31, 2102183	15.6	6
44	Sensitive Handheld Refractometer by Using Combination of a Tapered Fiber Tip and a Multimode Fiber. <i>Journal of Lightwave Technology</i> , 2021 , 39, 4179-4185	4	1
43	Self-Healing Lithographic Patterning of Perovskite Nanocrystals for Large-Area Single-Mode Laser Array. <i>Advanced Functional Materials</i> , 2021 , 31, 2006283	15.6	24
42	Analysis and control of vapor bubble growth inside solid-state nanopores. <i>Journal of Thermal Science and Technology</i> , 2021 , 16, JTST0007-JTST0007	0.6	0
41	Water Confined in MIL-101(Cr): Unique Sorption/Desorption Behaviors Revealed by Diffuse Reflectance Infrared Spectroscopy and Molecular Dynamics Simulation. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 17786-17795	3.8	3
40	Enhancing Raman signals from bacteria using dielectrophoretic force between conductive lensed fiber and black silicon. <i>Biosensors and Bioelectronics</i> , 2021 , 191, 113463	11.8	1
39	Lithographic in-mold patterning for CsPbBr nanocrystals distributed Bragg reflector single-mode laser. <i>Nanoscale</i> , 2021 , 13, 15830-15836	7.7	2
38	Self-Patterned CsPbBr ₃ Nanocrystal Based Plasmonic Hot-Carrier Photodetector at Telecommunications Wavelengths (Advanced Optical Materials 24/2021). <i>Advanced Optical Materials</i> , 2021 , 9, 2170099	8.1	
37	Spectrally selective photodetection in the near-infrared with a gold grating-based hot electron structure. <i>Applied Physics Letters</i> , 2020 , 116, 161103	3.4	15
36	Hot electron photodetection with spectral selectivity in the C-band using a silicon channel-separated gold grating structure. <i>Nano Express</i> , 2020 , 1, 010015	2	0
35	Single-bubble dynamics in nanopores: Transition between homogeneous and heterogeneous nucleation. <i>Physical Review Research</i> , 2020 , 2,	3.9	3
34	Ultrannarrow and Wavelength-Tunable Thermal Emission in a Hybrid Metal-Optical Tamm State Structure. <i>ACS Photonics</i> , 2020 , 7, 1569-1576	6.3	19
33	Silicon Solar Cells: Multifunctional Effect of p-Doping, Antireflection, and Encapsulation by Polymeric Acid for High Efficiency and Stable Carbon Nanotube-Based Silicon Solar Cells (Adv. Energy Mater. 1/2020). <i>Advanced Energy Materials</i> , 2020 , 10, 2070005	21.8	1

32	Multifunctional Effect of p-Doping, Antireflection, and Encapsulation by Polymeric Acid for High Efficiency and Stable Carbon Nanotube-Based Silicon Solar Cells. <i>Advanced Energy Materials</i> , 2020 , 10, 1902389	21.8	28
31	Light Switching with a Metal-Free Chiral-Sensitive Metasurface at Telecommunication Wavelengths. <i>ACS Photonics</i> , 2020 , 7, 2915-2922	6.3	5
30	Photoinduced Metal-Like Phase of VO ₂ with Subns Recovery. <i>ACS Photonics</i> , 2020 , 7, 2395-2404	6.3	7
29	Enhancing Detection Sensitivity of ZnO-Based Infrared Plasmonic Sensors Using Capped Dielectric GaO Layers for Real-Time Monitoring of Biological Interactions.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 6331-6342	4.1	5
28	Hot-electron photodetector with wavelength selectivity in near-infrared via Tamm plasmon. <i>Nanoscale</i> , 2019 , 11, 17407-17414	7.7	22
27	Two-pair multilayer Bloch surface wave platform in the near- and mid-infrared regions. <i>Applied Physics Letters</i> , 2019 , 115, 091102	3.4	10
26	Thresholdless behavior and linearity of the optically induced metallization of NbO ₂ . <i>Physical Review Research</i> , 2019 , 1,	3.9	1
25	Combination of an Axicon Fiber Tip and a Camera Device into a Sensitive Refractive Index Sensor. <i>Sensors</i> , 2019 , 19,	3.8	1
24	Plasmonic Hot-Carriers in Channel-Coupled Nanogap Structure for Metal-Semiconductor Barrier Modulation and Spectral-Selective Plasmonic Monitoring. <i>ACS Photonics</i> , 2018 , 5, 2617-2623	6.3	17
23	Narrowband Thermal Emission Realized through the Coupling of Cavity and Tamm Plasmon Resonances. <i>ACS Photonics</i> , 2018 , 5, 2446-2452	6.3	41
22	Fabrication, characterization, and high temperature surface enhanced Raman spectroscopic performance of SiO coated silver particles. <i>Nanoscale</i> , 2018 , 10, 5449-5456	7.7	11
21	Optically Pumped Hybrid Plasmonic-Photonic Waveguide Modulator Using the VO ₂ Metal-Insulator Phase Transition. <i>IEEE Photonics Journal</i> , 2018 , 10, 1-9	1.8	16
20	On-Chip Monolithically Fabricated Plasmonic-Waveguide Nanolaser. <i>Nano Letters</i> , 2018 , 18, 7769-7776	11.5	14
19	Electrical tuning of metal-insulator-metal metasurface with electro-optic polymer. <i>Applied Physics Letters</i> , 2018 , 113, 231102	3.4	15
18	Narrowband thermal emission from Tamm plasmons of a modified distributed Bragg reflector. <i>Applied Physics Letters</i> , 2018 , 113, 161104	3.4	14
17	Plasmonic tooth-multilayer structure with high enhancement field for surface enhanced Raman spectroscopy. <i>Nanotechnology</i> , 2017 , 28, 125206	3.4	2
16	Plasmonic nanochannel structure for narrow-band selective thermal emitter. <i>Applied Physics Letters</i> , 2017 , 110, 251102	3.4	9
15	Single-Step Electrophoretic Deposition of Non-noble Metal Catalyst Layer with Low Onset Voltage for Ethanol Electro-oxidation. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 15975-84	9.5	22

14	Gap Plasmons Multiple Mirroring from Spheres in Pyramids for Surface-Enhanced Raman Scattering. <i>ACS Photonics</i> , 2016 , 3, 2405-2412	6.3	12
13	Fluid-controlled tunable infrared filtering in hollow plasmonic nanofin cavities. <i>Nanotechnology</i> , 2016 , 27, 425202	3.4	2
12	Spectrally Selective Photocapacitance Modulation in Plasmonic Nanochannels for Infrared Imaging. <i>Nano Letters</i> , 2016 , 16, 3094-100	11.5	14
11	Loop-Turn Optical Flows with Spectral Selectivity in Suspended Plasmonic Nanofin-Cavity Structure. <i>ACS Photonics</i> , 2015 , 2, 730-737	6.3	3
10	Mid-infrared Plasmonic Resonances in 2D VO ₂ Nanosquare Arrays. <i>Advanced Optical Materials</i> , 2015 , 3, 1759-1767	8.1	29
9	Hollow Plasmonic U-Cavities with High-Aspect-Ratio Nanofins Sustaining Strong Optical Vortices for Light Trapping and Sensing. <i>Advanced Optical Materials</i> , 2014 , 2, 522-528	8.1	20
8	Independent light-trapping cavity for ultra-sensitive plasmonic sensing. <i>Applied Physics Letters</i> , 2014 , 105, 061112	3.4	7
7	Light Trapping in Finite Arrays of Metallic U-Shaped Cavities for Sensing With High Figures of Merit. <i>IEEE Photonics Technology Letters</i> , 2014 , 26, 1645-1648	2.2	2
6	Plasmonics: Hollow Plasmonic U-Cavities with High-Aspect-Ratio Nanofins Sustaining Strong Optical Vortices for Light Trapping and Sensing 6/2014). <i>Advanced Optical Materials</i> , 2014 , 2, 598-598	8.1	1
5	Plasmonic Hybrid Cavity-Channel Structure for Tunable Narrow-Band Optical Absorption. <i>IEEE Photonics Technology Letters</i> , 2014 , 26, 1979-1982	2.2	9
4	High sensitivity refractive index sensing with strong light confinement in high-aspect-ratio U-cavity arrays. <i>Sensors and Actuators B: Chemical</i> , 2014 , 202, 137-143	8.5	2
3	Coupling of localized surface plasmons to U-shaped cavities for high-sensitivity and miniaturized detectors. <i>Optics Express</i> , 2013 , 21, 1531-40	3.3	11
2	Plasmon focusing in short gold sphere nanochains for surface-enhanced Raman scattering. <i>Applied Optics</i> , 2013 , 52, 8809-16	1.7	6
1	Self-Patterned CsPbBr ₃ Nanocrystal Based Plasmonic Hot-Carrier Photodetector at Telecommunications Wavelengths. <i>Advanced Optical Materials</i> , 2101474	8.1	1