

# Ho-Pui Ho

## List of Publications by Year in descending order

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Version: 2024-02-01

59  
papers

1,856  
citations

279487  
23  
h-index

264894  
42  
g-index

60  
all docs

60  
docs citations

60  
times ranked

2809  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optothermophoretic flipping method for biomolecule interaction enhancement. Biosensors and Bioelectronics, 2022, 204, 114084.	5.3	15
2	Nanorefrigerative tweezers for optofluidic manipulation. Applied Physics Letters, 2022, 120, .	1.5	8
3	Passively and actively enhanced surface plasmon resonance sensing strategies towards single molecular detection. Nano Research, 2022, 15, 8367-8388.	5.8	10
4	Ultrafast Surface Plasmon Resonance Imaging Sensor via the High-Precision Four-Parameter-Based Spectral Curve Readjusting Method. Analytical Chemistry, 2021, 93, 828-833.	3.2	17
5	Targeted Sub-Attomole Cancer Biomarker Detection Based on Phase Singularity 2D Nanomaterial-Enhanced Plasmonic Biosensor. Nano-Micro Letters, 2021, 13, 96.	14.4	30
6	High-Sensitive Surface Plasmon Resonance Imaging Biosensor Based on Dual-Wavelength Differential Method. Frontiers in Chemistry, 2021, 9, 801355.	1.8	10
7	Thermal Optofluidics: Principles and Applications. Advanced Optical Materials, 2020, 8, 1900829.	3.6	49
8	Development of a sensitive DMD-based 2D SPR sensor array using single-point detection strategy for multiple aptamer screening. Sensors and Actuators B: Chemical, 2020, 305, 127240.	4.0	4
9	Antibody-free rapid diagnosis of malaria in whole blood with surface-enhanced Raman Spectroscopy using Nanostructured Gold Substrate. Advances in Medical Sciences, 2020, 65, 86-92.	0.9	13
10	Microfluidic Whispering Gallery Mode Optical Sensors for Biological Applications. Laser and Photonics Reviews, 2020, 14, 2000135.	4.4	38
11	Thermodynamic perspectives on liquidâ€“liquid droplet reactors for biochemical applications. Chemical Society Reviews, 2020, 49, 6555-6567.	18.7	14
12	Plasmonic Metasensors Based on 2D Hybrid Atomically Thin Perovskite Nanomaterials. Nanomaterials, 2020, 10, 1289.	1.9	18
13	Controllable Droplet Generators by Light-Heat Energy Conversion for Selective Particle Encapsulation. IEEE Photonics Journal, 2020, 12, 1-9.	1.0	2
14	Automated multiplex nucleic acid tests for rapid detection of SARS-CoV-2, influenza A and B infection with direct reverse-transcription quantitative PCR (dirRT-qPCR) assay in a centrifugal microfluidic platform. RSC Advances, 2020, 10, 34088-34098.	1.7	37
15	Surface Plasmon-Enhanced Optical Formaldehyde Sensor Based on CdSe@ZnS Quantum Dots. ACS Sensors, 2020, 5, 1002-1009.	4.0	35
16	Application of digital micromirror devices (DMD) in biomedical instruments. Journal of Innovative Optical Health Sciences, 2020, 13, .	0.5	13
17	Nanostructured ZnO/Ag Film Prepared by Magnetron Sputtering Method for Fast Response of Ammonia Gas Detection. Molecules, 2020, 25, 1899.	1.7	6
18	Simulations of photothermal effects and thermodynamics induced by optical resonance in a fiber metallic Fabryâ€“Perot cavity. Applied Optics, 2020, 59, 6466.	0.9	1

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19	An Ultra-low Concentration of Gold Nanoparticles Embedded in the NiO Hole Transport Layer Boosts the Performance of Perovskite Solar Cells. <i>Solar Rrl</i> , 2019, 3, 1800278.	3.1	38
20	Technological Advances in Multiscale Analysis of Single Cells in Biomedicine. <i>Advanced Biology</i> , 2019, 3, 1900138.	3.0	7
21	On-board control of wax valve on active centrifugal microfluidic chip and its application for plasmid DNA extraction. <i>Microfluidics and Nanofluidics</i> , 2019, 23, 1.	1.0	12
22	Recent Advances in Surface Plasmon Resonance Imaging Sensors. <i>Sensors</i> , 2019, 19, 1266.	2.1	99
23	Target trapping and in situ single-cell genetic marker detection with a focused optical beam. <i>Biosensors and Bioelectronics</i> , 2019, 133, 236-242.	5.3	26
24	A centrifugal microfluidic pressure regulator scheme for continuous concentration control in droplet-based microreactors. <i>Lab on A Chip</i> , 2019, 19, 3870-3879.	3.1	19
25	A rapid sample-to-answer analytical detection of genetically modified papaya using loop-mediated isothermal amplification assay on lab-on-a-disc for field use. <i>Food Chemistry</i> , 2019, 274, 822-830.	4.2	25
26	Extracellular Histones Induced Eryptotic Death in Human Erythrocytes. <i>Cellular Physiology and Biochemistry</i> , 2019, 53, 229-241.	1.1	19
27	Binary centrifugal microfluidics enabling novel, digital addressable functions for valving and routing. <i>Lab on A Chip</i> , 2018, 18, 1197-1206.	3.1	14
28	Reconfigurable Sorting of Nanoparticles on a Thermal Tuning Silicon Based Optofluidic Chip. <i>IEEE Photonics Journal</i> , 2018, 10, 1-7.	1.0	6
29	Trapping, sorting and transferring of micro-particles and live cells using electric current-induced thermal tweezers. <i>Sensors and Actuators B: Chemical</i> , 2018, 264, 224-233.	4.0	27
30	Development of peptide-based chemiluminescence enzyme immunoassay (CLEIA) for diagnosis of dengue virus infection in human. <i>Analytical Biochemistry</i> , 2018, 556, 112-118.	1.1	8
31	MicroRNA Biosensing with Two-Dimensional Surface Plasmon Resonance Imaging. <i>Methods in Molecular Biology</i> , 2017, 1571, 117-127.	0.4	8
32	Motor-assisted chip-in-a-tube (MACT): a new 2- and 3-dimensional centrifugal microfluidic platform for biomedical applications. <i>Lab on A Chip</i> , 2017, 17, 474-483.	3.1	10
33	An Aptamer Bio-barCode (ABC) assay using SPR, RNase H, and probes with RNA and gold-nanorods for anti-cancer drug screening. <i>Analyst</i> , The, 2017, 142, 3579-3587.	1.7	16
34	Recent advances in surface plasmon resonance imaging: detection speed, sensitivity, and portability. <i>Nanophotonics</i> , 2017, 6, 1017-1030.	2.9	128
35	Light-Activated Metal Oxide Gas Sensors: A Review. <i>Micromachines</i> , 2017, 8, 333.	1.4	84
36	An Assay Using Localized Surface Plasmon Resonance and Gold Nanorods Functionalized with Aptamers to Sense the Cytochrome-c Released from Apoptotic Cancer Cells for Anti-Cancer Drug Effect Determination. <i>Micromachines</i> , 2017, 8, 338.	1.4	15

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37	Wavelength-Scanning SPR Imaging Sensors Based on an Acousto-Optic Tunable Filter and a White Light Laser. <i>Sensors</i> , 2017, 17, 90.	2.1	24
38	A Review of Biomedical Centrifugal Microfluidic Platforms. <i>Micromachines</i> , 2016, 7, 26.	1.4	140
39	Allergy Testing and Drug Screening on an ITO-Coated Lab-on-a-Disc. <i>Micromachines</i> , 2016, 7, 38.	1.4	6
40	Chemical and pharmacological evaluations on the extract of <i>Scutellaria baicalensis</i> Georgi (Huang-Qin) prepared by various extraction methods. <i>SpringerPlus</i> , 2016, 5, 1438.	1.2	12
41	Surface-enhanced Raman scattering via entrapment of colloidal plasmonic nanocrystals by laser generated microbubbles on random gold nano-islands. <i>Nanoscale</i> , 2016, 8, 10266-10272.	2.8	32
42	Thermal gradient induced tweezers for the manipulation of particles and cells. <i>Scientific Reports</i> , 2016, 6, 35814.	1.6	56
43	Optofluidic Switching of Nanoparticles Based on a WDM Tree Splitter. <i>IEEE Photonics Journal</i> , 2016, 8, 1-10.	1.0	2
44	Cytotoxic and sublethal effects of silver nanoparticles on tendon-derived stem cells – implications for tendon engineering. <i>Toxicology Research</i> , 2016, 5, 318-330.	0.9	6
45	High Responsivity, Broadband, and Fast Graphene/Silicon Photodetector in Photoconductor Mode. <i>Advanced Optical Materials</i> , 2015, 3, 1207-1214.	3.6	141
46	Graphene–Gold Metasurface Architectures for Ultrasensitive Plasmonic Biosensing. <i>Advanced Materials</i> , 2015, 27, 6163-6169.	11.1	262
47	Trapping and assembling of particles and live cells on large-scale random gold nano-island substrates. <i>Scientific Reports</i> , 2015, 5, 9978.	1.6	68
48	Optofluidic guiding based on plasmonic absorption. , 2015, , .		0
49	Plasmonic absorption activated trapping and assembling of colloidal crystals with non-resonant continuous gold films. <i>RSC Advances</i> , 2015, 5, 105409-105415.	1.7	18
50	In vitro vitamin K2 and 1 $\alpha$ ,25-dihydroxyvitamin D3 combination enhances osteoblasts anabolism of diabetic mice. <i>European Journal of Pharmacology</i> , 2015, 767, 30-40.	1.7	30
51	Photochemically synthesized silver nanostructures on tapered fiber as plasmonic tweezers for surface enhanced Raman scattering applications. <i>Vacuum</i> , 2015, 118, 171-176.	1.6	12
52	Experimental and Theoretical Investigation of Macro-Periodic and Micro-Random Nanostructures with Simultaneously Spatial Translational Symmetry and Long-Range Order Breaking. <i>Scientific Reports</i> , 2015, 5, 7876.	1.6	10
53	Optofluidic guiding, valving, switching and mixing based on plasmonic heating in a random gold nanoisland substrate. <i>Lab on A Chip</i> , 2015, 15, 2504-2512.	3.1	38
54	Plasmonic random nanostructures on fiber tip for trapping live cells and colloidal particles. <i>Optics Letters</i> , 2015, 40, 3926.	1.7	52

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55	Allergen screening bioassays: recent developments in lab-on-a-chip and lab-on-a-disc systems. Bioanalysis, 2014, 6, 2005-2018.	0.6	7
56	Double-Layered Metal Nano-Strip Antennas for Sensing Applications. Plasmonics, 2013, 8, 289-294.	1.8	11
57	Common-path spectral interferometry with temporal carrier for highly sensitive surface plasmon resonance sensing. Optics Express, 2013, 21, 20268.	1.7	38
58	Study of the electron standing wave states in scanning tunneling spectroscopy of Si(111) surface. Surface and Interface Analysis, 2013, 45, 962-967.	0.8	2
59	Simultaneous purification and surface plasmon resonance characterization of mechanoresponsive, discretely functionalized gold nanoparticles. Journal of Materials Chemistry, 2011, 21, 8317.	6.7	6