

Ho-Pui Ho

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

1,856
citations

279701

23
h-index

265120

42
g-index

60
all docs

60
docs citations

60
times ranked

2809
citing authors

#	ARTICLE	IF	CITATIONS
1	Grapheneâ€“Gold Metasurface Architectures for Ultrasensitive Plasmonic Biosensing. <i>Advanced Materials</i> , 2015, 27, 6163-6169.	11.1	262
2	High Responsivity, Broadband, and Fast Graphene/Silicon Photodetector in Photoconductor Mode. <i>Advanced Optical Materials</i> , 2015, 3, 1207-1214.	3.6	141
3	A Review of Biomedical Centrifugal Microfluidic Platforms. <i>Micromachines</i> , 2016, 7, 26.	1.4	140
4	Recent advances in surface plasmon resonance imaging: detection speed, sensitivity, and portability. <i>Nanophotonics</i> , 2017, 6, 1017-1030.	2.9	128
5	Recent Advances in Surface Plasmon Resonance Imaging Sensors. <i>Sensors</i> , 2019, 19, 1266.	2.1	99
6	Light-Activated Metal Oxide Gas Sensors: A Review. <i>Micromachines</i> , 2017, 8, 333.	1.4	84
7	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
8	Thermal gradient induced tweezers for the manipulation of particles and cells. <i>Scientific Reports</i> , 2016, 6, 35814.	1.6	56
9	Plasmonic random nanostructures on fiber tip for trapping live cells and colloidal particles. <i>Optics Letters</i> , 2015, 40, 3926.	1.7	52
10	Thermal Optofluidics: Principles and Applications. <i>Advanced Optical Materials</i> , 2020, 8, 1900829.	3.6	49
11	Common-path spectral interferometry with temporal carrier for highly sensitive surface plasmon resonance sensing. <i>Optics Express</i> , 2013, 21, 20268.	1.7	38
12	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
13	An Ultraâ€“low Concentration of Gold Nanoparticles Embedded in the NiO Hole Transport Layer Boosts the Performance of pâ€“â€“n Perovskite Solar Cells. <i>Solar Rrl</i> , 2019, 3, 1800278.	3.1	38
14	Microfluidic Whispering Gallery Mode Optical Sensors for Biological Applications. <i>Laser and Photonics Reviews</i> , 2020, 14, 2000135.	4.4	38
15	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. <i>RSC Advances</i> , 2020, 10, 34088-34098.	1.7	37
16	Surface Plasmon-Enhanced Optical Formaldehyde Sensor Based on CdSe@ZnS Quantum Dots. <i>ACS Sensors</i> , 2020, 5, 1002-1009.	4.0	35
17	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
18	In vitro vitamin K2 and 1Î±,25-dihydroxyvitamin D3 combination enhances osteoblasts anabolism of diabetic mice. <i>European Journal of Pharmacology</i> , 2015, 767, 30-40.	1.7	30

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19	Targeted Sub-Attomole Cancer Biomarker Detection Based on Phase Singularity 2D Nanomaterial-Enhanced Plasmonic Biosensor. <i>Nano-Micro Letters</i> , 2021, 13, 96.	14.4	30
20	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
21	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
22	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
23	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
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	Extracellular Histones Induced Eryptotic Death in Human Erythrocytes. <i>Cellular Physiology and Biochemistry</i> , 2019, 53, 229-241.	1.1	19
26	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
27	Plasmonic Metasensors Based on 2D Hybrid Atomically Thin Perovskite Nanomaterials. <i>Nanomaterials</i> , 2020, 10, 1289.	1.9	18
28	Ultrafast Surface Plasmon Resonance Imaging Sensor via the High-Precision Four-Parameter-Based Spectral Curve Readjusting Method. <i>Analytical Chemistry</i> , 2021, 93, 828-833.	3.2	17
29	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> , 2017, 142, 3579-3587.	1.7	16
30	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
31	Optothermophoretic flipping method for biomolecule interaction enhancement. <i>Biosensors and Bioelectronics</i> , 2022, 204, 114084.	5.3	15
32	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
33	Thermodynamic perspectives on liquid-liquid droplet reactors for biochemical applications. <i>Chemical Society Reviews</i> , 2020, 49, 6555-6567.	18.7	14
34	Antibody-free rapid diagnosis of malaria in whole blood with surface-enhanced Raman Spectroscopy using Nanostructured Gold Substrate. <i>Advances in Medical Sciences</i> , 2020, 65, 86-92.	0.9	13
35	Application of digital micromirror devices (DMD) in biomedical instruments. <i>Journal of Innovative Optical Health Sciences</i> , 2020, 13, .	0.5	13
36	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

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37	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
38	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
39	Double-Layered Metal Nano-Strip Antennas for Sensing Applications. <i>Plasmonics</i> , 2013, 8, 289-294.	1.8	11
40	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
41	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
42	High-Sensitive Surface Plasmon Resonance Imaging Biosensor Based on Dual-Wavelength Differential Method. <i>Frontiers in Chemistry</i> , 2021, 9, 801355.	1.8	10
43	Passively and actively enhanced surface plasmon resonance sensing strategies towards single molecular detection. <i>Nano Research</i> , 2022, 15, 8367-8388.	5.8	10
44	MicroRNA Biosensing with Two-Dimensional Surface Plasmon Resonance Imaging. <i>Methods in Molecular Biology</i> , 2017, 1571, 117-127.	0.4	8
45	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
46	Nanorefrigerative tweezers for optofluidic manipulation. <i>Applied Physics Letters</i> , 2022, 120, .	1.5	8
47	Allergen screening bioassays: recent developments in lab-on-a-chip and lab-on-a-disc systems. <i>Bioanalysis</i> , 2014, 6, 2005-2018.	0.6	7
48	Technological Advances in Multiscale Analysis of Single Cells in Biomedicine. <i>Advanced Biology</i> , 2019, 3, 1900138.	3.0	7
49	Simultaneous purification and surface plasmon resonance characterization of mechanoresponsive, discretely functionalized gold nanoparticles. <i>Journal of Materials Chemistry</i> , 2011, 21, 8317.	6.7	6
50	Allergy Testing and Drug Screening on an ITO-Coated Lab-on-a-Disc. <i>Micromachines</i> , 2016, 7, 38.	1.4	6
51	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
52	Reconfigurable Sorting of Nanoparticles on a Thermal Tuning Silicon Based Optofluidic Chip. <i>IEEE Photonics Journal</i> , 2018, 10, 1-7.	1.0	6
53	Nanostructured ZnO/Ag Film Prepared by Magnetron Sputtering Method for Fast Response of Ammonia Gas Detection. <i>Molecules</i> , 2020, 25, 1899.	1.7	6
54	Development of a sensitive DMD-based 2D SPR sensor array using single-point detection strategy for multiple aptamer screening. <i>Sensors and Actuators B: Chemical</i> , 2020, 305, 127240.	4.0	4

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55	Study of the electron standing wave states in scanning tunneling spectroscopy of Si(111) surface. <i>Surface and Interface Analysis</i> , 2013, 45, 962-967.	0.8	2
56	Optofluidic Switching of Nanoparticles Based on a WDM Tree Splitter. <i>IEEE Photonics Journal</i> , 2016, 8, 1-10.	1.0	2
57	Controllable Droplet Generators by Light-Heat Energy Conversion for Selective Particle Encapsulation. <i>IEEE Photonics Journal</i> , 2020, 12, 1-9.	1.0	2
58	Simulations of photothermal effects and thermodynamics induced by optical resonance in a fiber metallic Fabry-Pérot cavity. <i>Applied Optics</i> , 2020, 59, 6466.	0.9	1
59	Optofluidic guiding based on plasmonic absorption. , 2015, , .		0