

Yi-Ping Ho

List of Publications by Citations

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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.

71
papers

2,022
citations

25
h-index

44
g-index

78
ext. papers

2,279
ext. citations

8.5
avg, IF

4.66
L-index

#	Paper	IF	Citations
71	Quantum dot-based theranostics. <i>Nanoscale</i> , 2010 , 2, 60-8	7.7	220
70	Rapid formation of multicellular spheroids in double-emulsion droplets with controllable microenvironment. <i>Scientific Reports</i> , 2013 , 3, 3462	4.9	162
69	Evaluating the intracellular stability and unpacking of DNA nanocomplexes by quantum dots-FRET. <i>Journal of Controlled Release</i> , 2006 , 116, 83-9	11.7	153
68	Multiplexed hybridization detection with multicolor colocalization of quantum dot nanoprobe. <i>Nano Letters</i> , 2005 , 5, 1693-7	11.5	153
67	Quantitative comparison of intracellular unpacking kinetics of polyplexes by a model constructed from quantum dot-FRET. <i>Molecular Therapy</i> , 2008 , 16, 324-32	11.7	133
66	Temperature-controlled encapsulation and release of an active enzyme in the cavity of a self-assembled DNA nanocage. <i>ACS Nano</i> , 2013 , 7, 9724-34	16.7	113
65	Droplet microfluidics platform for highly sensitive and quantitative detection of malaria-causing Plasmodium parasites based on enzyme activity measurement. <i>ACS Nano</i> , 2012 , 6, 10676-83	16.7	70
64	A programmable microenvironment for cellular studies via microfluidics-generated double emulsions. <i>Biomaterials</i> , 2013 , 34, 4564-72	15.6	68
63	Homogeneous point mutation detection by quantum dot-mediated two-color fluorescence coincidence analysis. <i>Nucleic Acids Research</i> , 2006 , 34, e35	20.1	63
62	Simultaneous Non-invasive Analysis of DNA Condensation and Stability by Two-step QD-FRET. <i>Nano Today</i> , 2009 , 4, 125-134	17.9	55
61	Synthesis of fluorosurfactants for emulsion-based biological applications. <i>ACS Nano</i> , 2014 , 8, 3913-20	16.7	47
60	Quantum dot-mediated biosensing assays for specific nucleic acid detection. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2005 , 1, 115-21	6	47
59	Tuning physical properties of nanocomplexes through microfluidics-assisted confinement. <i>Nano Letters</i> , 2011 , 11, 2178-82	11.5	45
58	Detection of single enzymatic events in rare or single cells using microfluidics. <i>ACS Nano</i> , 2011 , 5, 8305-10	16.7	45
57	Three-dimensional hydrodynamic focusing method for polyplex synthesis. <i>ACS Nano</i> , 2014 , 8, 332-9	16.7	42
56	Shape-controlled synthesis of hybrid nanomaterials via three-dimensional hydrodynamic focusing. <i>ACS Nano</i> , 2014 , 8, 10026-34	16.7	40
55	Real-time detection of TDP1 activity using a fluorophore-quencher coupled DNA-biosensor. <i>Biosensors and Bioelectronics</i> , 2013 , 48, 230-7	11.8	36

54	Microfluidic preparation of polymer-nucleic acid nanocomplexes improves nonviral gene transfer. <i>Scientific Reports</i> , 2013 , 3, 3155	4.9	32
53	Intercalating dye as an acceptor in quantum-dot-mediated FRET. <i>Nanotechnology</i> , 2008 , 19, 075701	3.4	32
52	Uptake and intracellular fate of multifunctional nanoparticles: a comparison between lipoplexes and polyplexes via quantum dot mediated Förster resonance energy transfer. <i>Molecular Pharmaceutics</i> , 2011 , 8, 1662-8	5.6	28
51	The convergence of quantum-dot-mediated fluorescence resonance energy transfer and microfluidics for monitoring DNA polyplex self-assembly in real time. <i>Nanotechnology</i> , 2009 , 20, 095103	3.4	28
50	Enzymatic incorporation of multiple dyes for increased sensitivity in QD-FRET sensing for DNA methylation detection. <i>ChemBioChem</i> , 2010 , 11, 71-4	3.8	28
49	NanoCluster Beacons as reporter probes in rolling circle enhanced enzyme activity detection. <i>Nanoscale</i> , 2015 , 7, 8332-7	7.7	27
48	Understanding nonviral nucleic acid delivery with quantum dot-FRET nanosensors. <i>Nanomedicine</i> , 2012 , 7, 565-77	5.6	26
47	Single-molecule detection and probe strategies for rapid and ultrasensitive genomic detection. <i>Current Pharmaceutical Biotechnology</i> , 2005 , 6, 453-61	2.6	26
46	Tunable blinking kinetics of cy5 for precise DNA quantification and single-nucleotide difference detection. <i>Biophysical Journal</i> , 2008 , 95, 729-37	2.9	25
45	Quantum dot-based nanosensors for diagnosis via enzyme activity measurement. <i>Expert Review of Molecular Diagnostics</i> , 2013 , 13, 367-75	3.8	24
44	DNA hairpins promote temperature controlled cargo encapsulation in a truncated octahedral nanocage structure family. <i>Nanoscale</i> , 2016 , 8, 13333-41	7.7	23
43	A microfluidic-FCS platform for investigation on the dissociation of Sp1-DNA complex by doxorubicin. <i>Nucleic Acids Research</i> , 2006 , 34, e144	20.1	19
42	Quantification of low concentrations of DNA using single molecule detection and velocity measurement in a microchannel. <i>Journal of Fluorescence</i> , 2007 , 17, 767-74	2.4	13
41	Detection of the Malaria causing Plasmodium Parasite in Saliva from Infected Patients using Topoisomerase I Activity as a Biomarker. <i>Scientific Reports</i> , 2018 , 8, 4122	4.9	12
40	Advantages of an optical nanosensor system for the mechanistic analysis of a novel topoisomerase I targeting drug: a case study. <i>Nanoscale</i> , 2017 , 9, 1886-1895	7.7	11
39	Real-time investigation of human topoisomerase I reaction kinetics using an optical sensor: a fast method for drug screening and determination of active enzyme concentrations. <i>Nanoscale</i> , 2015 , 7, 9823-34	7.7	11
38	DNA-based sensor for real-time measurement of the enzymatic activity of human topoisomerase I. <i>Sensors</i> , 2013 , 13, 4017-28	3.8	11
37	The Effects of Dithiothreitol on DNA. <i>Sensors</i> , 2017 , 17,	3.8	10

36	Specific detection of the cleavage activity of mycobacterial enzymes using a quantum dot based DNA nanosensor. <i>Nanoscale</i> , 2016 , 8, 358-64	7.7	9
35	Quantum dot based DNA nanosensors for amplification-free detection of human topoisomerase I. <i>RSC Advances</i> , 2014 , 4, 2491-2494	3.7	9
34	Portable quantitative phase microscope for material metrology and biological imaging. <i>Photonics Research</i> , 2020 , 8, 1253	6	9
33	A centrifugal microfluidic pressure regulator scheme for continuous concentration control in droplet-based microreactors. <i>Lab on A Chip</i> , 2019 , 19, 3870-3879	7.2	8
32	Isolation of functional mitochondria by inertial microfluidics: a new method to sort intracellular organelles from a small scale biological sample. <i>RSC Advances</i> , 2017 , 7, 23735-23741	3.7	7
31	Novel DNA sensor system for highly sensitive and quantitative retrovirus detection using virus encoded integrase as a biomarker. <i>Nanoscale</i> , 2017 , 9, 440-448	7.7	7
30	Refined Method for Droplet Microfluidics-Enabled Detection of Plasmodium falciparum Encoded Topoisomerase I in Blood from Malaria Patients. <i>Micromachines</i> , 2015 , 6, 1505-1513	3.3	7
29	On-the-fly estimation of a microscopy point spread function. <i>Optics Express</i> , 2018 , 26, 26120-26133	3.3	7
28	Imbibition of Femtoliter-Scale DNA-Rich Aqueous Droplets into Porous Nylon Substrates by Molecular Printing. <i>Langmuir</i> , 2019 , 35, 17156-17165	4	7
27	Interlinked DNA nano-circles for measuring topoisomerase II activity at the level of single decatenation events. <i>Nucleic Acids Research</i> , 2017 , 45, 7855-7869	20.1	6
26	Thermodynamic perspectives on liquid-liquid droplet reactors for biochemical applications. <i>Chemical Society Reviews</i> , 2020 , 49, 6555-6567	58.5	6
25	A new DNA sensor system for specific and quantitative detection of mycobacteria. <i>Nanoscale</i> , 2019 , 11, 587-597	7.7	5
24	On-slide detection of enzymatic activities in selected single cells. <i>Nanoscale</i> , 2017 , 9, 13546-13553	7.7	5
23	Optimized Detection of Plasmodium falciparum Topoisomerase I Enzyme Activity in a Complex Biological Sample by the Use of Molecular Beacons. <i>Sensors</i> , 2016 , 16,	3.8	5
22	DNA flowerstructure co-localizes with human pathogens in infected macrophages. <i>Nucleic Acids Research</i> , 2020 , 48, 6081-6091	20.1	3
21	Technological Advances in Multiscale Analysis of Single Cells in Biomedicine. <i>Advanced Biology</i> , 2019 , 3, e1900138	3.5	3
20	Microfluidics-mediated isothermal detection of enzyme activity at the single molecule level. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2011 , 2011, 3258-61	0.9	3
19	A robust and reliable stress-induced self-assembly supporting mechanism for optical devices. <i>Microsystem Technologies</i> , 2005 , 11, 214-220	1.7	3

18	Double emulsion-pretreated microwell culture for the in vitro production of multicellular spheroids and their in situ analysis. <i>Microsystems and Nanoengineering</i> , 2021 , 7, 38	7.7	3
17	Demarcating the membrane damage for the extraction of functional mitochondria. <i>Microsystems and Nanoengineering</i> , 2018 , 4, 39	7.7	3
16	Quantum dots in molecular detection of disease. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2009 , 2009, 4089-92	0.9	2
15	Bisphosphonate-based hydrogel mediates biomimetic negative feedback regulation of osteoclastic activity to promote bone regeneration.. <i>Bioactive Materials</i> , 2022 , 13, 9-22	16.7	2
14	Microfluidics-Enabled Enzyme Activity Measurement in Single Cells. <i>Methods in Molecular Biology</i> , 2015 , 1346, 209-19	1.4	2
13	Molecular and functional assessment of multicellular cancer spheroids produced in double emulsions enabled by efficient airway resistance based selective surface treatment. <i>Journal of Micromechanics and Microengineering</i> , 2017 , 27, 095014	2	1
12	Chip-Free Microscale-Incubator-Based Synthesis of Chitosan-Based Gene Silencing Nanoparticles. <i>Particle and Particle Systems Characterization</i> , 2016 , 33, 279-285	3.1	1
11	Single cell enzyme diagnosis on the chip 2013 ,		1
10	Combining QD-FRET and microfluidics to monitor DNA nanocomplex self-assembly in real-time. <i>Journal of Visualized Experiments</i> , 2009 ,	1.6	1
9	A Novel MUMPs-compatible single-layer out-of-plane electrothermal actuator 2002 , 4935, 333		1
8	Photo-Responsive Fluorosurfactant Enabled by Plasmonic Nanoparticles for Light-Driven Droplet Manipulation. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 21914-21923	9.5	1
7	Efficient encapsulation of functional proteins into erythrocytes by controlled shear-mediated membrane deformation. <i>Lab on A Chip</i> , 2021 , 21, 2121-2128	7.2	1
6	Extraction of Functional Mitochondria Based on Membrane Stiffness. <i>Methods in Molecular Biology</i> , 2021 , 2276, 343-355	1.4	0
5	The Effect of the Nanoparticle Shape on T Cell Activation.. <i>Small</i> , 2022 , e2107373	11	0
4	DNA Sensors for the Detection of Biomolecules and Biochemical Conditions 2017 , 57-97		
3	Microfluidics-based Single Cell Analytical Platforms for Characterization of Cancer. <i>Advances in Delivery Science and Technology</i> , 2016 , 77-95		
2	Towards Single-Molecule Diagnostics Using Microfluidic Manipulation and Quantum Dot Nanosensors 2007 , 1133		
1	Modulation of cancer stemness property in head and neck cancer cells via circulatory fluid shear stress. <i>Microfluidics and Nanofluidics</i> , 2022 , 26, 1	2.8	

