

# Yi-Ping Ho

## List of Publications by Year in descending order

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Version: 2024-02-01

78  
papers

2,463  
citations

201575

27  
h-index

206029

48  
g-index

78  
all docs

78  
docs citations

78  
times ranked

3480  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum dot-based theranostics. <i>Nanoscale</i> , 2010, 2, 60-68.	2.8	240
2	Rapid formation of multicellular spheroids in double-emulsion droplets with controllable microenvironment. <i>Scientific Reports</i> , 2013, 3, 3462.	1.6	196
3	Multiplexed Hybridization Detection with Multicolor Colocalization of Quantum Dot Nanoprobes. <i>Nano Letters</i> , 2005, 5, 1693-1697.	4.5	170
4	Evaluating the intracellular stability and unpacking of DNA nanocomplexes by quantum dots-FRET. <i>Journal of Controlled Release</i> , 2006, 116, 83-89.	4.8	162
5	Quantitative Comparison of Intracellular Unpacking Kinetics of Polyplexes by a Model Constructed From Quantum Dot-FRET. <i>Molecular Therapy</i> , 2008, 16, 324-332.	3.7	145
6	Temperature-Controlled Encapsulation and Release of an Active Enzyme in the Cavity of a Self-Assembled DNA Nanocage. <i>ACS Nano</i> , 2013, 7, 9724-9734.	7.3	132
7	A programmable microenvironment for cellular studies via microfluidics-generated double emulsions. <i>Biomaterials</i> , 2013, 34, 4564-4572.	5.7	86
8	Droplet Microfluidics Platform for Highly Sensitive and Quantitative Detection of Malaria-Causing <i>Plasmodium</i> Parasites Based on Enzyme Activity Measurement. <i>ACS Nano</i> , 2012, 6, 10676-10683.	7.3	81
9	Homogeneous point mutation detection by quantum dot-mediated two-color fluorescence coincidence analysis. <i>Nucleic Acids Research</i> , 2006, 34, e35-e35.	6.5	69
10	Simultaneous non-invasive analysis of DNA condensation and stability by two-step QD-FRET. <i>Nano Today</i> , 2009, 4, 125-134.	6.2	64
11	Synthesis of Fluorosurfactants for Emulsion-Based Biological Applications. <i>ACS Nano</i> , 2014, 8, 3913-3920.	7.3	57
12	Quantum dot-mediated biosensing assays for specific nucleic acid detection. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2005, 1, 115-121.	1.7	52
13	Tuning Physical Properties of Nanocomplexes through Microfluidics-Assisted Confinement. <i>Nano Letters</i> , 2011, 11, 2178-2182.	4.5	51
14	Detection of Single Enzymatic Events in Rare or Single Cells Using Microfluidics. <i>ACS Nano</i> , 2011, 5, 8305-8310.	7.3	48
15	Three-Dimensional Hydrodynamic Focusing Method for Polyplex Synthesis. <i>ACS Nano</i> , 2014, 8, 332-339.	7.3	48
16	Shape-Controlled Synthesis of Hybrid Nanomaterials via Three-Dimensional Hydrodynamic Focusing. <i>ACS Nano</i> , 2014, 8, 10026-10034.	7.3	46
17	Real-time detection of TDP1 activity using a fluorophore-quencher coupled DNA-biosensor. <i>Biosensors and Bioelectronics</i> , 2013, 48, 230-237.	5.3	41
18	Intercalating dye as an acceptor in quantum-dot-mediated FRET. <i>Nanotechnology</i> , 2008, 19, 075701.	1.3	39

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19	Microfluidic Preparation of Polymer-Nucleic Acid Nanocomplexes Improves Nonviral Gene Transfer. <i>Scientific Reports</i> , 2013, 3, 3155.	1.6	36
20	Enzymatic Incorporation of Multiple Dyes for Increased Sensitivity in QD-FRET Sensing for DNA Methylation Detection. <i>ChemBioChem</i> , 2010, 11, 71-74.	1.3	33
21	Quantum dot-based nanosensors for diagnosis via enzyme activity measurement. <i>Expert Review of Molecular Diagnostics</i> , 2013, 13, 367-375.	1.5	33
22	NanoCluster Beacons as reporter probes in rolling circle enhanced enzyme activity detection. <i>Nanoscale</i> , 2015, 7, 8332-8337.	2.8	32
23	Single-Molecule Detection and Probe Strategies for Rapid and Ultrasensitive Genomic Detection. <i>Current Pharmaceutical Biotechnology</i> , 2005, 6, 453-461.	0.9	31
24	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.	1.3	31
25	Tunable Blinking Kinetics of Cy5 for Precise DNA Quantification and Single-Nucleotide Difference Detection. <i>Biophysical Journal</i> , 2008, 95, 729-737.	0.2	29
26	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, 1662-1668.	2.3	29
27	Understanding nonviral nucleic acid delivery with quantum dot-FRET nanosensors. <i>Nanomedicine</i> , 2012, 7, 565-577.	1.7	28
28	DNA hairpins promote temperature controlled cargo encapsulation in a truncated octahedral nanocage structure family. <i>Nanoscale</i> , 2016, 8, 13333-13341.	2.8	28
29	Bisphosphonate-based hydrogel mediates biomimetic negative feedback regulation of osteoclastic activity to promote bone regeneration. <i>Bioactive Materials</i> , 2022, 13, 9-22.	8.6	26
30	Portable quantitative phase microscope for material metrology and biological imaging. <i>Photonics Research</i> , 2020, 8, 1253.	3.4	25
31	A microfluidic-FCS platform for investigation on the dissociation of Sp1-DNA complex by doxorubicin. <i>Nucleic Acids Research</i> , 2006, 34, e144-e144.	6.5	22
32	Mammalian Cells Exocytose Alkylated Gold Nanoparticles via Extracellular Vesicles. <i>ACS Nano</i> , 2022, 16, 2032-2045.	7.3	22
33	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.	1.6	20
34	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
35	Quantification of Low Concentrations of DNA Using Single Molecule Detection and Velocity Measurement in a Microchannel. <i>Journal of Fluorescence</i> , 2007, 17, 767-774.	1.3	17
36	DNA-based nanosensors for next-generation clinical diagnostics via detection of enzyme activity. <i>Expert Review of Molecular Diagnostics</i> , 2014, 14, 1-3.	1.5	15

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37	The Effect of the Nanoparticle Shape on T Cell Activation. <i>Small</i> , 2022, 18, e2107373.	5.2	15
38	DNA-Based Sensor for Real-Time Measurement of the Enzymatic Activity of Human Topoisomerase I. <i>Sensors</i> , 2013, 13, 4017-4028.	2.1	14
39	The Effects of Dithiothreitol on DNA. <i>Sensors</i> , 2017, 17, 1201.	2.1	14
40	Thermodynamic perspectives on liquid-liquid droplet reactors for biochemical applications. <i>Chemical Society Reviews</i> , 2020, 49, 6555-6567.	18.7	14
41	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.	3.4	14
42	On-the-fly estimation of a microscopy point spread function. <i>Optics Express</i> , 2018, 26, 26120.	1.7	14
43	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, 9825-9834.	2.8	13
44	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.	2.8	12
45	Imbibition of Femtoliter-Scale DNA-Rich Aqueous Droplets into Porous Nylon Substrates by Molecular Printing. <i>Langmuir</i> , 2019, 35, 17156-17165.	1.6	12
46	Quantum dot based DNA nanosensors for amplification-free detection of human topoisomerase I. <i>RSC Advances</i> , 2014, 4, 2491-2494.	1.7	10
47	Specific detection of the cleavage activity of mycobacterial enzymes using a quantum dot based DNA nanosensor. <i>Nanoscale</i> , 2016, 8, 358-364.	2.8	10
48	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.	2.8	10
49	A new DNA sensor system for specific and quantitative detection of mycobacteria. <i>Nanoscale</i> , 2019, 11, 587-597.	2.8	10
50	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, 1916.	2.1	9
51	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.	6.5	9
52	Photo-Responsive Fluorosurfactant Enabled by Plasmonic Nanoparticles for Light-Driven Droplet Manipulation. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 21914-21923.	4.0	9
53	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.	1.4	8
54	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.	1.7	8

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55	A robust and reliable stress-induced self-assembly supporting mechanism for optical devices. <i>Microsystem Technologies</i> , 2005, 11, 214-220.	1.2	7
56	Technological Advances in Multiscale Analysis of Single Cells in Biomedicine. <i>Advanced Biology</i> , 2019, 3, 1900138.	3.0	7
57	On-slide detection of enzymatic activities in selected single cells. <i>Nanoscale</i> , 2017, 9, 13546-13553.	2.8	6
58	Demarcating the membrane damage for the extraction of functional mitochondria. <i>Microsystems and Nanoengineering</i> , 2018, 4, 39.	3.4	5
59	DNA flowerstructure co-localizes with human pathogens in infected macrophages. <i>Nucleic Acids Research</i> , 2020, 48, 6081-6091.	6.5	5
60	Quantum dots in molecular detection of disease. , 2009, 2009, 4089-92.		3
61	Microfluidics-mediated isothermal detection of enzyme activity at the single molecule level. , 2011, 2011, 3258-61.		3
62	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.	1.5	3
63	Extraction of Functional Mitochondria Based on Membrane Stiffness. <i>Methods in Molecular Biology</i> , 2021, 2276, 343-355.	0.4	3
64	Combining QD-FRET and Microfluidics to Monitor DNA Nanocomplex Self-Assembly in Real-Time. <i>Journal of Visualized Experiments</i> , 2009, , .	0.2	2
65	Efficient encapsulation of functional proteins into erythrocytes by controlled shear-mediated membrane deformation. <i>Lab on A Chip</i> , 2021, 21, 2121-2128.	3.1	2
66	Microfluidics-Enabled Enzyme Activity Measurement in Single Cells. <i>Methods in Molecular Biology</i> , 2015, 1346, 209-219.	0.4	2
67	Modulation of cancer stemness property in head and neck cancer cells via circulatory fluid shear stress. <i>Microfluidics and Nanofluidics</i> , 2022, 26, 1.	1.0	2
68	A Novel MUMPs-compatible single-layer out-of-plane electrothermal actuator. , 2002, 4935, 333.		1
69	A robust and reliable stress-induced self-assembly mechanism for optical devices. , 0, , .		1
70	Quantitative kinetic analysis of DNA nanocomplex self-assembly with Quantum Dots FRET in a microfluidic device. <i>Proceedings of the IEEE International Conference on Micro Electro Mechanical Systems (MEMS)</i> , 2008, , .	0.0	1
71	Single cell enzyme diagnosis on the chip. , 2013, , .		1
72	Chip-Free Microscale-Incubator-Based Synthesis of Chitosan-Based Gene Silencing Nanoparticles. <i>Particle and Particle Systems Characterization</i> , 2016, 33, 279-285.	1.2	1

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73	Multiplexed Detection of Anthrax Sequences with Quantum Dot Nanoprobes. , 2006, , .		0
74	402. Intracellular Trafficking of QD-FRET Nanoparticles for Gene Delivery. Molecular Therapy, 2006, 13, S154.	3.7	0
75	Towards Single-Molecule Diagnostics Using Microfluidic Manipulation and Quantum Dot Nanosensors. , 2007, , 1133.		0
76	Extraction of active enzymes from &#x201C;hard-to-break-cells&#x201D;; Evaluation by a RCA-based assay. , 2014, , .		0
77	Microfluidics-based Single Cell Analytical Platforms for Characterization of Cancer. Advances in Delivery Science and Technology, 2016, , 77-95.	0.4	0
78	DNA Sensors for the Detection of Biomolecules and Biochemical Conditions. , 2017, , 57-97.		0