

Guoliang Huang

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

326
citations

840776

11
h-index

940533

16
g-index

30
all docs

30
docs citations

30
times ranked

336
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid, Highly Sensitive, and Label-Free Pathogen Assay System Using a Solid-Phase Self-Interference Recombinase Polymerase Amplification Chip and Hyperspectral Interferometry. <i>Analytical Chemistry</i> , 2022, 94, 2926-2933.	6.5	7
2	A nature-inspired hierarchical branching structure pressure sensor with high sensitivity and wide dynamic range for versatile medical wearables. <i>Biosensors and Bioelectronics</i> , 2022, 203, 114028.	10.1	10
3	Quantitative and specific detection of viable pathogens on a portable microfluidic chip system by combining improved propidium monoazide (PMAxx) and loop-mediated isothermal amplification (LAMP). <i>Analytical Methods</i> , 2021, 13, 3569-3576.	2.7	10
4	Single cell capture, isolation, and long-term in situ imaging using quantitative self-interference spectroscopy. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2021, 99, 601-609.	1.5	8
5	Label-Free and Quantitative Dry Mass Monitoring for Single Cells during In Situ Culture. <i>Cells</i> , 2021, 10, 1635.	4.1	4
6	Microfluidic Biosensor for Rapid Nucleic Acid Quantitation Based on Hyperspectral Interferometric Amplicon-Complex Analysis. <i>ACS Sensors</i> , 2021, 6, 4057-4066.	7.8	10
7	Deep Learning Algorithm for Automated Detection of Polycystic Ovary Syndrome Using Scleral Images. <i>Frontiers in Endocrinology</i> , 2021, 12, 789878.	3.5	16
8	Microfluidic Chip with Two-Stage Isothermal Amplification Method for Highly Sensitive Parallel Detection of SARS-CoV-2 and Measles Virus. <i>Micromachines</i> , 2021, 12, 1582.	2.9	16
9	Biomimetic Upconversion Nanoparticles and Gold Nanoparticles for Novel Simultaneous Dual-Modal Imaging-Guided Photothermal Therapy of Cancer. <i>Cancers</i> , 2020, 12, 3136.	3.7	29
10	Fast and Parallel Detection of Four Ebola Virus Species on a Microfluidic-Chip-Based Portable Reverse Transcription Loop-Mediated Isothermal Amplification System. <i>Micromachines</i> , 2019, 10, 777.	2.9	18
11	Label-free tomography of living cellular nanoarchitecture using hyperspectral self-interference microscopy. <i>Biomedical Optics Express</i> , 2019, 10, 2757.	2.9	8
12	An interferometric imaging biosensor using weighted spectrum analysis to confirm DNA monolayer films with attogram sensitivity. <i>Talanta</i> , 2018, 181, 224-231.	5.5	10
13	Original askiatic imaging used in Chinese medicine eye-feature diagnosis of visceral diseases. <i>Journal of Innovative Optical Health Sciences</i> , 2018, 11, .	1.0	5
14	Label-Free Method Using a Weighted-Phase Algorithm To Quantitate Nanoscale Interactions between Molecules on DNA Microarrays. <i>Analytical Chemistry</i> , 2017, 89, 3501-3507.	6.5	10
15	Fast infectious diseases diagnostics based on microfluidic biochip system. <i>Journal of Innovative Optical Health Sciences</i> , 2017, 10, 1650044.	1.0	2
16	A rapid, low-cost, and microfluidic chip-based system for parallel identification of multiple pathogens related to clinical pneumonia. <i>Scientific Reports</i> , 2017, 7, 6441.	3.3	51
17	A smart device for label-free and real-time detection of gene point mutations based on the high dark phase contrast of vapor condensation. <i>Lab on A Chip</i> , 2015, 15, 3891-3896.	6.0	16
18	Nanostructural morphology master-regulated the cell capture efficiency of multivalent aptamers. <i>RSC Advances</i> , 2015, 5, 39791-39798.	3.6	3

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19	fM to aM nucleic acid amplification for molecular diagnostics in a non-stick-coated metal microfluidic bioreactor. <i>Scientific Reports</i> , 2014, 4, 7344.	3.3	8
20	Dew inspired breathing-based detection of genetic point mutation visualized by naked eye. <i>Scientific Reports</i> , 2014, 4, 6300.	3.3	11
21	Use of hyperspectral imaging for label-free decoding and detection of biomarkers. <i>Optics Letters</i> , 2013, 38, 1524.	3.3	12
22	General and reliable quantitative measurement of fluorescence resonance energy transfer using three fluorescence channels. <i>Analyst</i> , 2012, 137, 1013.	3.5	3
23	Detect early stage lung cancer by a LAMP microfluidic chip system with a real-time fluorescent filter processor. <i>Science China Chemistry</i> , 2012, 55, 508-514.	8.2	13
24	Sensitive sequence-specific molecular identification system comprising an aluminum micro-nanofluidic chip and associated real-time confocal detector. <i>Analytica Chimica Acta</i> , 2011, 695, 1-10.	5.4	11
25	Assessment of Fluorescence Resonance Energy Transfer for Two-Color DNA Microarray Platforms. <i>Analytical Chemistry</i> , 2010, 82, 5304-5312.	6.5	15
26	Quantitative Fluorescence Correction Incorporating Förster Resonance Energy Transfer and Its Use for Measurement of Hybridization Efficiency on Microarrays. <i>Analytical Chemistry</i> , 2009, 81, 1426-1432.	6.5	7
27	Digital imaging scanning system and biomedical applications for biochips. <i>Journal of Biomedical Optics</i> , 2008, 13, 034006.	2.6	11
28	Single Living Cell Imaging and Spectrum Detection. , 2007, , .		0
29	Development of a Confocal Optical System Design for Molecular Imaging Applications of Biochip. <i>International Journal of Biomedical Imaging</i> , 2007, 2007, 1-9.	3.9	0
30	Fast Screening of Single-Nucleotide Polymorphisms Using Chip-Based Temperature Gradient Capillary Electrophoresis. <i>Analytical Letters</i> , 2003, 36, 2823-2834.	1.8	2