Jong-ryul Choi

List of Publications by Year
in descending order

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56	726	566801	552369
papers	citations	15 h-index	26 g-index

57	57	57	987
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Localized Down-regulation of P-glycoprotein by Focused Ultrasound and Microbubbles induced Blood-Brain Barrier Disruption in Rat Brain. Scientific Reports, 2016, 6, 31201.	1.6	82
2	Extraordinary Transmissionâ€based Plasmonic Nanoarrays for Axially Superâ€Resolved Cell Imaging. Advanced Optical Materials, 2014, 2, 48-55.	3.6	61
3	Microfluidic assay-based optical measurement techniques for cell analysis: A review of recent progress. Biosensors and Bioelectronics, 2016, 77, 227-236.	5.3	60
4	Machine learning-based design of meta-plasmonic biosensors with negative index metamaterials. Biosensors and Bioelectronics, 2020, 164, 112335.	5.3	54
5	Implantable Neural Probes for Brain-Machine Interfaces ? Current Developments and Future Prospects. Experimental Neurobiology, 2018, 27, 453-471.	0.7	45
6	Fluorescence optical detection in situ for realâ€time monitoring of cytochrome P450 enzymatic activity of liver cells in multiple microfluidic devices. Biotechnology and Bioengineering, 2009, 104, 516-525.	1.7	44
7	A Localized Surface Plasmon Resonance Sensor Using Double-Metal-Complex Nanostructures and a Review of Recent Approaches. Sensors, 2018, 18, 98.	2.1	44
8	Current achievements of nanoparticle applications in developing optical sensing and imaging techniques. Nano Convergence, 2016, 3, 30.	6.3	42
9	Fiber-Optic Localized Surface Plasmon Resonance Sensors Based on Nanomaterials. Sensors, 2021, 21, 819.	2.1	39
10	Surface plasmon-enhanced nanoscopy of intracellular cytoskeletal actin filaments using random nanodot arrays. Optics Express, 2014, 22, 27695.	1.7	33
11	Emerging applications of digital micromirror devices in biophotonic fields. Optics and Laser Technology, 2018, 104, 17-25.	2.2	26
12	Investigation of portable in situ fluorescence optical detection for microfluidic 3D cell culture assays. Optics Letters, 2010, 35, 1374.	1.7	20
13	Emerging optical spectroscopy techniques for biomedical applicationsâ€"A brief review of recent progress. Applied Spectroscopy Reviews, 2018, 53, 264-278.	3.4	20
14	A Review of Advanced Impedance Biosensors with Microfluidic Chips for Single-Cell Analysis. Biosensors, 2021, 11, 412.	2.3	18
15	Plasmonic signal enhancements using randomly distributed nanoparticles on a stochastic nanostructure substrate. Applied Spectroscopy Reviews, 2016, 51, 646-655.	3.4	15
16	Recent advances of nanostructure implemented spectroscopic sensorsâ€"A brief overview. Applied Spectroscopy Reviews, 2016, 51, 656-668.	3.4	14
17	A microfluidic device for evaluating the dynamics of the metabolism-dependent antioxidant activity of nutrients. Lab on A Chip, 2014, 14, 2948.	3.1	13
18	Enhanced image reconstruction of three-dimensional fluorescent assays by subtractive structured-light illumination microscopy. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2012, 29, 2165.	0.8	12

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19	EEG Beta Oscillations in the Temporoparietal Area Related to the Accuracy in Estimating Others' Preference. Frontiers in Human Neuroscience, 2018, 12, 43.	1.0	12
20	Plasmon based super resolution imaging for single molecular detection: Breaking the diffraction limit. Biomedical Engineering Letters, 2014, 4, 231-238.	2.1	9
21	Rapid and real-time diagnosis of hypoalbuminemia using an extraordinary optical transmission biosensor. Sensors and Actuators B: Chemical, 2018, 274, 595-600.	4.0	9
22	Development of a photochemical thrombosis investigation system to obtain a rabbit ischemic stroke model. Scientific Reports, 2021, 11, 5787.	1.6	9
23	In Situ Fluorescence Optical Detection Using a Digital Micromirror Device (DMD) for 3D Cell-based Assays. Journal of the Optical Society of Korea, 2012, 16, 42-46.	0.6	9
24	Plasmonic sensing, imaging, and stimulation techniques for neuron studies. Biosensors and Bioelectronics, 2021, 182, 113150.	5.3	5
25	Exploring the use of impedance spectroscopy in relaxation and electrochemical studies. Applied Spectroscopy Reviews, 2018, 53, 157-176.	3.4	4
26	Confocal fluorescence detection of cell-based assays using a digital micromirror device. , 2010, , .		3
27	Notch spatial filtering of image artifacts for structured illumination microscopy of cell-based assays. Optics Communications, 2013, 308, 142-146.	1.0	3
28	Manipulation of light at the nanoscale for high-performance spectroscopic and optical applications. Applied Spectroscopy Reviews, 2019, 54, 482-508.	3.4	3
29	Optical Modalities for Research, Diagnosis, and Treatment of Stroke and the Consequent Brain Injuries. Applied Sciences (Switzerland), 2022, 12, 1891.	1.3	3
30	Optimization of a Plasmon Enhanced Field Emitter Array Using a Nano-Tip-Based Plasmonic Double-Gate Structure. Journal of Lightwave Technology, 2016, 34, 4023-4027.	2.7	2
31	Comparative study of nanolithography based on extraordinary and diffracted optical transmissions. Optics and Laser Technology, 2019, 119, 105658.	2.2	2
32	Investigation of an Optical Imaging Platform Integrated with an Ultrasound Application System for In Vitro Verification of Ultrasound-Mediated Drug Delivery. Applied Sciences (Switzerland), 2021, 11, 2846.	1.3	2
33	Confocal fluorescence detection for 3D cultured mammalian cells in a microfluidic cell culture system. Proceedings of SPIE, 2010, , .	0.8	1
34	Enhanced light transmission through a metallic nanolens consisting of multiple nanorings. , 2011, , .		1
35	Localized Surface Plasmon Fields Manipulation on Nanostructures Using Wavelength Shifting. Applied Sciences (Switzerland), 2021, 11, 9133.	1.3	1
36	A Fabrication of Nanostructures with a Transmission Light and a Plasmonic Field at Different Z-axis Position. , 2018, , .		1

#	Article	IF	Citations
37	Development of Extraordinary Optical Transmission-Based Techniques for Biomedical Applications. , 2017, , 871-892.		1
38	Real-time fluorescence imaging of a drug release using polymeric nanoparticles. , 2007, , .		0
39	A diffraction-based study of cell viability using a periodic blazed grating. , 2007, , .		0
40	Design of multiple nanoring-based metallic nanophotonic superlens. Proceedings of SPIE, 2012, , .	0.8	0
41	Surface-enhanced nanoplasmonics for biomolecular sensing and imaging. , 2013, , .		0
42	Fluorescence image detection and reconstruction by subtractive light illumination using a digital micromirror device. Proceedings of SPIE, 2013, , .	0.8	0
43	Surface plasmon enhanced super-resolution microscopy using random nanoisland patterns. , 2013, , .		0
44	Super-resolved axial imaging based on extraordinary light transmission using linear nanoaperture arrays. , 2014, , .		0
45	Extraordinary transmission-based super-resolved axial imaging using subwavelength metallic nanoaperture arrays. , 2015, , .		0
46	Extraordinary light transmission for super-resolved axial imaging. , 2015, , .		0
47	Subdiffraction-limited axial imaging of live cells using linear nanoaperture arrays based on extraordinary transmission. , 2015, , .		0
48	The gap-plasmonic effect induced on a silver nanoisland substrate for surface-enhanced Raman spectroscopy. , 2015, , .		0
49	A comparative study on machine learning-based classification to find photothrombotic lesion in histological rabbit brain images. Journal of Innovative Optical Health Sciences, 0, , 2150018.	0.5	0
50	Investigation of 3-D cell-based assays with structured illumination using a digital micromirror device. , 2012, , .		0
51	Surface Plasmon-Enhanced Super-Localization Microscopy. , 2014, , 1-35.		0
52	Development of Extraordinary Optical Transmission-Based Techniques for Biomedical Applications. , 2015, , 1-22.		0
53	Extraordinary transmission-based axial imaging of live cells. , 2015, , .		0
54	Surface Plasmon-Enhanced Super-Localization Microscopy. , 2017, , 545-584.		0

#	Article	IF	Citations
55	Nanofabrication using transmitted and diffracted light manipulated by gap spacing. , 2019, , .		0
56	Preliminary Study on Safety Assessment of 10 Hz Transcranial Alternating Current Stimulation in Rat Brain. Applied Sciences (Switzerland), 2022, 12, 5299.	1.3	0