

Jong-ryul Choi

List of Publications by Year in descending order

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56
papers

726
citations

566801

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552369

26
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57
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docs citations

57
times ranked

987
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Optical Modalities for Research, Diagnosis, and Treatment of Stroke and the Consequent Brain Injuries. Applied Sciences (Switzerland), 2022, 12, 1891. | 1.3 | 3 |
| 2 | Preliminary Study on Safety Assessment of 10 Hz Transcranial Alternating Current Stimulation in Rat Brain. Applied Sciences (Switzerland), 2022, 12, 5299. | 1.3 | 0 |
| 3 | Fiber-Optic Localized Surface Plasmon Resonance Sensors Based on Nanomaterials. Sensors, 2021, 21, 819. | 2.1 | 39 |
| 4 | 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 |
| 5 | Development of a photochemical thrombosis investigation system to obtain a rabbit ischemic stroke model. Scientific Reports, 2021, 11, 5787. | 1.6 | 9 |
| 6 | Plasmonic sensing, imaging, and stimulation techniques for neuron studies. Biosensors and Bioelectronics, 2021, 182, 113150. | 5.3 | 5 |
| 7 | Localized Surface Plasmon Fields Manipulation on Nanostructures Using Wavelength Shifting. Applied Sciences (Switzerland), 2021, 11, 9133. | 1.3 | 1 |
| 8 | A Review of Advanced Impedance Biosensors with Microfluidic Chips for Single-Cell Analysis. Biosensors, 2021, 11, 412. | 2.3 | 18 |
| 9 | Machine learning-based design of meta-plasmonic biosensors with negative index metamaterials. Biosensors and Bioelectronics, 2020, 164, 112335. | 5.3 | 54 |
| 10 | Manipulation of light at the nanoscale for high-performance spectroscopic and optical applications. Applied Spectroscopy Reviews, 2019, 54, 482-508. | 3.4 | 3 |
| 11 | Comparative study of nanolithography based on extraordinary and diffracted optical transmissions. Optics and Laser Technology, 2019, 119, 105658. | 2.2 | 2 |
| 12 | Nanofabrication using transmitted and diffracted light manipulated by gap spacing. , 2019, , . | | 0 |
| 13 | Emerging applications of digital micromirror devices in biophotonic fields. Optics and Laser Technology, 2018, 104, 17-25. | 2.2 | 26 |
| 14 | Emerging optical spectroscopy techniques for biomedical applicationsâ€”A brief review of recent progress. Applied Spectroscopy Reviews, 2018, 53, 264-278. | 3.4 | 20 |
| 15 | Exploring the use of impedance spectroscopy in relaxation and electrochemical studies. Applied Spectroscopy Reviews, 2018, 53, 157-176. | 3.4 | 4 |
| 16 | Implantable Neural Probes for Brain-Machine Interfaces ? Current Developments and Future Prospects. Experimental Neurobiology, 2018, 27, 453-471. | 0.7 | 45 |
| 17 | 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 |
| 18 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | A Localized Surface Plasmon Resonance Sensor Using Double-Metal-Complex Nanostructures and a Review of Recent Approaches. <i>Sensors</i> , 2018, 18, 98. | 2.1 | 44 |
| 20 | A Fabrication of Nanostructures with a Transmission Light and a Plasmonic Field at Different Z-axis Position. , 2018, , . | | 1 |
| 21 | Surface Plasmon-Enhanced Super-Localization Microscopy. , 2017, , 545-584. | | 0 |
| 22 | Development of Extraordinary Optical Transmission-Based Techniques for Biomedical Applications. , 2017, , 871-892. | | 1 |
| 23 | Current achievements of nanoparticle applications in developing optical sensing and imaging techniques. <i>Nano Convergence</i> , 2016, 3, 30. | 6.3 | 42 |
| 24 | Localized Down-regulation of P-glycoprotein by Focused Ultrasound and Microbubbles induced Blood-Brain Barrier Disruption in Rat Brain. <i>Scientific Reports</i> , 2016, 6, 31201. | 1.6 | 82 |
| 25 | Optimization of a Plasmon Enhanced Field Emitter Array Using a Nano-Tip-Based Plasmonic Double-Gate Structure. <i>Journal of Lightwave Technology</i> , 2016, 34, 4023-4027. | 2.7 | 2 |
| 26 | Recent advances of nanostructure implemented spectroscopic sensorsâ€”A brief overview. <i>Applied Spectroscopy Reviews</i> , 2016, 51, 656-668. | 3.4 | 14 |
| 27 | Plasmonic signal enhancements using randomly distributed nanoparticles on a stochastic nanostructure substrate. <i>Applied Spectroscopy Reviews</i> , 2016, 51, 646-655. | 3.4 | 15 |
| 28 | Microfluidic assay-based optical measurement techniques for cell analysis: A review of recent progress. <i>Biosensors and Bioelectronics</i> , 2016, 77, 227-236. | 5.3 | 60 |
| 29 | Extraordinary transmission-based super-resolved axial imaging using subwavelength metallic nanoaperture arrays. , 2015, , . | | 0 |
| 30 | Extraordinary light transmission for super-resolved axial imaging. , 2015, , . | | 0 |
| 31 | Subdiffraction-limited axial imaging of live cells using linear nanoaperture arrays based on extraordinary transmission. , 2015, , . | | 0 |
| 32 | The gap-plasmonic effect induced on a silver nanoisland substrate for surface-enhanced Raman spectroscopy. , 2015, , . | | 0 |
| 33 | Development of Extraordinary Optical Transmission-Based Techniques for Biomedical Applications. , 2015, , 1-22. | | 0 |
| 34 | Extraordinary transmission-based axial imaging of live cells. , 2015, , . | | 0 |
| 35 | Super-resolved axial imaging based on extraordinary light transmission using linear nanoaperture arrays. , 2014, , . | | 0 |
| 36 | Surface plasmon-enhanced nanoscopy of intracellular cytoskeletal actin filaments using random nanodot arrays. <i>Optics Express</i> , 2014, 22, 27695. | 1.7 | 33 |

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|----|---|-----|-----------|
| 37 | Extraordinary Transmissionâ€based Plasmonic Nanoarrays for Axially Superâ€Resolved Cell Imaging. <i>Advanced Optical Materials</i> , 2014, 2, 48-55. | 3.6 | 61 |
| 38 | Plasmon based super resolution imaging for single molecular detection: Breaking the diffraction limit. <i>Biomedical Engineering Letters</i> , 2014, 4, 231-238. | 2.1 | 9 |
| 39 | A microfluidic device for evaluating the dynamics of the metabolism-dependent antioxidant activity of nutrients. <i>Lab on A Chip</i> , 2014, 14, 2948. | 3.1 | 13 |
| 40 | Surface Plasmon-Enhanced Super-Localization Microscopy. , 2014, , 1-35. | | 0 |
| 41 | Notch spatial filtering of image artifacts for structured illumination microscopy of cell-based assays. <i>Optics Communications</i> , 2013, 308, 142-146. | 1.0 | 3 |
| 42 | Surface-enhanced nanoplasmonics for biomolecular sensing and imaging. , 2013, , . | | 0 |
| 43 | Fluorescence image detection and reconstruction by subtractive light illumination using a digital micromirror device. <i>Proceedings of SPIE</i> , 2013, , . | 0.8 | 0 |
| 44 | Surface plasmon enhanced super-resolution microscopy using random nanoisland patterns. , 2013, , . | | 0 |
| 45 | Enhanced image reconstruction of three-dimensional fluorescent assays by subtractive structured-light illumination microscopy. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2012, 29, 2165. | 0.8 | 12 |
| 46 | Design of multiple nanoring-based metallic nanophotonic superlens. <i>Proceedings of SPIE</i> , 2012, , . | 0.8 | 0 |
| 47 | In Situ Fluorescence Optical Detection Using a Digital Micromirror Device (DMD) for 3D Cell-based Assays. <i>Journal of the Optical Society of Korea</i> , 2012, 16, 42-46. | 0.6 | 9 |
| 48 | Investigation of 3-D cell-based assays with structured illumination using a digital micromirror device. , 2012, , . | | 0 |
| 49 | Enhanced light transmission through a metallic nanolens consisting of multiple nanorings. , 2011, , . | | 1 |
| 50 | Confocal fluorescence detection for 3D cultured mammalian cells in a microfluidic cell culture system. <i>Proceedings of SPIE</i> , 2010, , . | 0.8 | 1 |
| 51 | Confocal fluorescence detection of cell-based assays using a digital micromirror device. , 2010, , . | | 3 |
| 52 | Investigation of portable in situ fluorescence optical detection for microfluidic 3D cell culture assays. <i>Optics Letters</i> , 2010, 35, 1374. | 1.7 | 20 |
| 53 | Fluorescence optical detection in situ for realâ€time monitoring of cytochrome P450 enzymatic activity of liver cells in multiple microfluidic devices. <i>Biotechnology and Bioengineering</i> , 2009, 104, 516-525. | 1.7 | 44 |
| 54 | Real-time fluorescence imaging of a drug release using polymeric nanoparticles. , 2007, , . | | 0 |

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|----|---|-----|-----------|
| 55 | A diffraction-based study of cell viability using a periodic blazed grating. , 2007, , . | | 0 |
| 56 | 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 |