# Ki-Hun Jeong

List of Publications by Year
in descending order



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|---|---|---|---|
| 113 papers | 4,511 citations | 87723 38 h-index | 106150 65 g-index |
| 115 all docs | 115 docs citations | 115 times ranked | 5129 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Biologically Inspired Artificial Compound Eyes. Science, 2006, 312, 557-561. | 6.0 | 585 |
| 2 | Tunable liquid-filled microlens array integrated with microfluidic network. Optics Express, 2003, 11, 2370. | 1.7 | 359 |
| 3 | Reagentless mechanical cell lysis by nanoscale barbs in microchannels for sample preparation. Lab on A Chip, 2003, 3, 287. | 3.1 | 224 |
| 4 | Glass Nanopillar Arrays with Nanogapâ€Rich Silver Nanoislands for Highly Intense Surface Enhanced Raman Scattering. Advanced Materials, 2012, 24, 2234-2237. | 11.1 | 198 |
| 5 | Tunable microdoublet lens array. Optics Express, 2004, 12, 2494. | 1.7 | 178 |
| 6 | Enhancement of Terahertz Pulse Emission by Optical Nanoantenna. ACS Nano, 2012, 6, 2026-2031. | 7.3 | 139 |
| 7 | Biologically inspired LED lens from cuticular nanostructures of firefly lantern. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 18674-18678. | 3.3 | 105 |
| 8 | Terahertz photoconductive antenna with metal nanoislands. Optics Express, 2012, 20, 25530. | 1.7 | 104 |
| 9 | Repeated Solid-state Dewetting of Thin Gold Films for Nanogap-rich Plasmonic Nanoislands. Scientific Reports, 2015, 5, 14790. | 1.6 | 104 |
| 10 | Plasmonic Schirmer Strip for Human Tear-Based Gouty Arthritis Diagnosis Using Surface-Enhanced Raman Scattering. ACS Nano, 2017, 11, 438-443. | 7.3 | 103 |
| 11 | Theoretical and experimental study towards a nanogap dielectric biosensor. Biosensors and Bioelectronics, 2005, 20, 1320-1326. | 5.3 | 94 |
| 12 | Biologically Inspired Organic Light-Emitting Diodes. Nano Letters, 2016, 16, 2994-3000. | 4.5 | 78 |
| 13 | Fluorescent microscopy beyond diffraction limits using speckle illumination and joint support recovery. Scientific Reports, 2013, 3, 2075. | 1.6 | 74 |
| 14 | Monolithic Polymer Microlens Arrays with High Numerical Aperture and High Packing Density. ACS Applied Materials & Interfaces, 2015, 7, 2160-2165. | 4.0 | 71 |
| 15 | Artificial ommatidia by self-aligned microlenses and waveguides. Optics Letters, 2005, 30, 5. | 1.7 | 68 |
| 16 | Multifocal microlens arrays using multilayer photolithography. Optics Express, 2020, 28, 9082. | 1.7 | 63 |
| 17 | A Deformable Nanoplasmonic Membrane Reveals Universal Correlations Between Plasmon Resonance and Surface Enhanced Raman Scattering. Advanced Materials, 2014, 26, 4510-4514. | 11.1 | 62 |
| 18 | Silver nanoislands on cellulose fibers for chromatographic separation and ultrasensitive detection of small molecules. Light: Science and Applications, 2016, 5, e16009-e16009. | 7.7 | 60 |

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|---|---|---|---|
| 19 | Forward imaging OCT endoscopic catheter based on MEMS lens scanning. Optics Letters, 2012, 37, 2673. | 1.7 | 59 |
| 20 | Frequency selection rule for high definition and high frame rate Lissajous scanning. Scientific Reports, 2017, 7, 14075. | 1.6 | 59 |
| 21 | Microfabricated suspensions for electrical connections on the tunable elastomer membrane. Applied Physics Letters, 2004, 85, 6051-6053. | 1.5 | 58 |
| 22 | Nanoplasmonic On-Chip PCR for Rapid Precision Molecular Diagnostics. ACS Applied Materials & Interfaces, 2020, 12, 12533-12540. | 4.0 | 57 |
| 23 | Ultrafast and Real-Time Nanoplasmonic On-Chip Polymerase Chain Reaction for Rapid and Quantitative Molecular Diagnostics. ACS Nano, 2021, 15, 10194-10202. | 7.3 | 55 |
| 24 | Beyond the SERS: Raman Enhancement of Small Molecules Using Nanofluidic Channels with Localized Surface Plasmon Resonance. Small, 2011, 7, 184-188. | 5.2 | 54 |
| 25 | Xenos peckii vision inspires an ultrathin digital camera. Light: Science and Applications, 2018, 7, 80. | 7.7 | 54 |
| 26 | Biologically inspired ultrathin arrayed camera for high-contrast and high-resolution imaging. Light: Science and Applications, 2020, 9, 28. | 7.7 | 53 |
| 27 | In situ dynamic measurements of the enhanced SERS signal using an optoelectrofluidic SERS platform. Lab on A Chip, 2011, 11, 2518. | 3.1 | 52 |
| 28 | Nanoplasmonic Alloy of Au/Ag Nanocomposites on Paper Substrate for Biosensing Applications. ACS Applied Materials & Interfaces, 2018, 10, 290-295. | 4.0 | 51 |
| 29 | Spread spectrum SERS allows label-free detection of attomolar neurotransmitters. Nature Communications, 2021, 12, 159. | 5.8 | 50 |
| 30 | Microscanners for optical endomicroscopic applications. Micro and Nano Systems Letters, 2017, 5, . | 1.7 | 49 |
| 31 | Paper-Based Biochip Assays and Recent Developments: A Review. Biochip Journal, 2018, 12, 1-10. | 2.5 | 49 |
| 32 | Lissajous fiber scanning for forward viewing optical endomicroscopy using asymmetric stiffness modulation. Optics Express, 2014, 22, 5818. | 1.7 | 48 |
| 33 | Optofluidic SERS chip with plasmonic nanoprobes self-aligned along microfluidic channels. Lab on A Chip, 2014, 14, 865. | 3.1 | 47 |
| 34 | Engineering hot spots on plasmonic nanopillar arrays for SERS: A review. Biochip Journal, 2016, 10, 297-309. | 2.5 | 44 |
| 35 | Electrothermal MEMS fiber scanner for optical endomicroscopy. Optics Express, 2016, 24, 3903. | 1.7 | 44 |
| 36 | Bioplasmonic Alloyed Nanoislands Using Dewetting of Bilayer Thin Films. ACS Applied Materials & Interfaces, 2017, 9, 37154-37159. | 4.0 | 44 |

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|---|---|---|---|
| 37 | Mining the Smartness of Insect Ultrastructures for Advanced Imaging and Illumination. Advanced Functional Materials, 2018, 28, 1705912. | 7.8 | 44 |
| 38 | Nanoislands as plasmonic materials. Nanoscale, 2019, 11, 8651-8664. | 2.8 | 39 |
| 39 | Subwavelength silicon through-hole arrays as an all-dielectric broadband terahertz gradient index metamaterial. Applied Physics Letters, 2014, 105, . | 1.5 | 36 |
| 40 | A novel microfabrication of a self-aligned vertical comb drive on a single SOI wafer for optical MEMS applications. Journal of Micromechanics and Microengineering, 2005, 15, 277-281. | 1.5 | 35 |
| 41 | Lissajous Scanning Two-photon Endomicroscope for In vivo Tissue Imaging. Scientific Reports, 2019, 9, 3560. | 1.6 | 35 |
| 42 | High Contrast Ultrathin Lightâ€Field Camera Using Inverted Microlens Arrays with Metalâ€“Insulatorâ€“Metal Optical Absorber. Advanced Optical Materials, 2021, 9, 2001657. | 3.6 | 33 |
| 43 | Nanogap capacitors: Sensitivity to sample permittivity changes. Journal of Applied Physics, 2006, 99, 024305. | 1.1 | 31 |
| 44 | Biologically Inspired Biophotonic Surfaces with Selfâ€Antireflection. Small, 2014, 10, 2558-2563. | 5.2 | 30 |
| 45 | Monolithic polymer microlens arrays with antireflective nanostructures. Applied Physics Letters, 2012, 101, 203102. | 1.5 | 29 |
| 46 | 165 mm diameter forward-viewing confocal endomicroscopic catheter using a flip-chip bonded electrothermal MEMS fiber scanner. Optics Express, 2018, 26, 4780. | 1.7 | 28 |
| 47 | Micromachined tethered silicon oscillator for an endomicroscopic Lissajous fiber scanner. Optics Letters, 2014, 39, 6675. | 1.7 | 27 |
| 48 | Scanning MEMS Mirror for High Definition and High Frame Rate Lissajous Patterns. Micromachines, 2019, 10, 67. | 1.4 | 26 |
| 49 | Wear-life diagram of TiN-coated steels. Wear, 1998, 217, 175-181. | 1.5 | 25 |
| 50 | Planar Emulation of Natural Compound Eyes. Small, 2012, 8, 2169-2173. | 5.2 | 24 |
| 51 | Electrokinetic Preconcentration of Small Molecules Within Volumetric Electromagnetic Hotspots in Surface Enhanced Raman Scattering. Small, 2015, 11, 2487-2492. | 5.2 | 23 |
| 52 | Batch fabrication of functional optical elements on a fiber facet using DMD based maskless lithography. Optics Express, 2017, 25, 16854. | 1.7 | 23 |
| 53 | Antireflective glass nanoholes on optical lenses. Optics Express, 2018, 26, 14786. | 1.7 | 23 |
| 54 | Compact stereo endoscopic camera using microprism arrays. Optics Letters, 2016, 41, 1285. | 1.7 | 22 |

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|---|---|---|---|
| 55 | Ag/Au Alloyed Nanoislands for Wafer-Level Plasmonic Color Filter Arrays. Scientific Reports, 2019, 9, 9082. | 1.6 | 21 |
| 56 | Micromachined lens microstages for two-dimensional forward optical scanning. Optics Express, 2010, 18, 16133. | 1.7 | 20 |
| 57 | Antireflective structures on highly flexible and large area elastomer membrane for tunable liquid-filled endoscopic lens. Nanoscale, 2019, 11, 856-861. | 2.8 | 20 |
| 58 | Direct force measurements of biomolecular interactions by nanomechanical force gauge. Applied Physics Letters, 2005, 86, 193901. | 1.5 | 19 |
| 59 | Fiber-optic plasmonic probe with nanogap-rich Au nanoislands for on-site surface-enhanced Raman spectroscopy using repeated solid-state dewetting. Journal of Biomedical Optics, 2019, 24, 1. | 1.4 | 19 |
| 60 | Micropatterned single lens for wide-angle light-emitting diodes. Optics Letters, 2010, 35, 823. | 1.7 | 18 |
| 61 | Colorimetric Schirmer strip for tear glucose detection. Biochip Journal, 2017, 11, 294-299. | 2.5 | 17 |
| 62 | Asymmetric optical microstructures driven by geometry-guided resist reflow. Optics Express, 2014, 22, 22089. | 1.7 | 15 |
| 63 | Au/Ag Bimetallic Nanocomposites as a Highly Sensitive Plasmonic Material. Plasmonics, 2019, 14, 407-413. | 1.8 | 15 |
| 64 | Rotational Offset Microlens Arrays for Highly Efficient Structured Pattern Projection. Advanced Optical Materials, 2020, 8, 2000395. | 3.6 | 15 |
| 65 | Optical MEMS devices for compact 3D surface imaging cameras. Micro and Nano Systems Letters, 2019, 7, . | 1.7 | 14 |
| 66 | Structural coloration of transmission light through self-aligned and complementary plasmonic nanostructures. Nanoscale, 2018, 10, 6313-6317. | 2.8 | 13 |
| 67 | Microfabricated ommatidia using a laser induced self-writing process for high resolution artificial compound eye optical systems. Optics Express, 2009, 17, 14761. | 1.7 | 12 |
| 68 | Electrothermal MEMS parallel plate rotation for single-imager stereoscopic endoscopes. Optics Express, 2016, 24, 9667. | 1.7 | 12 |
| 69 | Handheld endomicroscope using a fiber-optic harmonograph enables real-time and in vivo confocal imaging of living cell morphology and capillary perfusion. Microsystems and Nanoengineering, 2020, 6, 72. | 3.4 | 12 |
| 70 | On-chip Paper Electrophoresis for Ultrafast Screening of Infectious Diseases. Biochip Journal, 2021, 15, 305-311. | 2.5 | 12 |
| 71 | Nanoplasmonic biopatch for in vivo surface enhanced raman spectroscopy. Biochip Journal, 2014, 8, 289-294. | 2.5 | 10 |
| 72 | Extraordinary sensitivity enhancement of Ag-Au alloy nanohole arrays for label-free detection of Escherichia Coli. Biomedical Optics Express, 2021, 12, 2734. | 1.5 | 9 |

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|---|---|---|---|
| 73 | Plasmon enhanced photoacoustic generation from volumetric electromagnetic hotspots. Nanoscale, 2016, 8, 757-761. | 2.8 | 8 |
| 74 | Biologically Inspired Ultrathin Contact Imager for Highâ€Resolution Imaging of Epidermal Ridges on Human Finger. Advanced Materials Technologies, 2021, 6, 2100090. | 3.0 | 8 |
| 75 | A new method of increasing numerical aperture of microlens for biophotonic MEMS. , 0, , . | | 7 |
| 76 | Strong visible magnetic resonance of size-controlled silicon-nanoblock metasurfaces. Applied Physics Express, 2016, 9, 042001. | 1.1 | 6 |
| 77 | Objective-lens-free confocal endomicroscope using Lissajous scanning lensed-fiber. Journal of Optical Microsystems, 2021, 1, . | 0.9 | 6 |
| 78 | Handheld Laser Scanning Microscope Catheter for Real-Time and In vivo Confocal Microscopy using High Definition High Fame Rate Lissajous MEMS Mirror. Biomedical Optics Express, 2022, 13, 1497-1505. | 1.5 | 6 |
| 79 | A novel fabrication method of a vertical comb drive using a single SOI wafer for optical MEMS applications. , 0, , . | | 5 |
| 80 | Pattern projector using superposition of double microlens arrays for hybrid 3D endoscope. , 2018, , . | | 5 |
| 81 | Tailoring Single Plasmonic Resonance for RGBâ€NIR Imaging Using Nanoimprinted Complementary Plasmonic Structures of Nanohole and Nanodisk Arrays. Advanced Optical Materials, 2021, 9, 2002036. | 3.6 | 5 |
| 82 | Large-Area and Ultrathin MEMS Mirror Using Silicon Micro Rim. Micromachines, 2021, 12, 754. | 1.4 | 5 |
| 83 | Lissajous scanning structured illumination microscopy. Biomedical Optics Express, 2020, 11, 5575. | 1.5 | 5 |
| 84 | Nanogap-based dielectric immunosensing. , 0, , . | | 4 |
| 85 | Millimeter scale electrostatic mirror with sub-wavelength holes for terahertz wave scanning. Applied Physics Letters, 2013, 102, 031111. | 1.5 | 4 |
| 86 | Extraordinary Figureâ€ofâ€Merit of Magnetic Resonance from Ultrathin Silicon Nanohole Membrane as Allâ€Dielectric Metamaterial. Advanced Optical Materials, 2017, 5, 1600628. | 3.6 | 4 |
| 87 | Angle-selective optical filter for highly sensitive reflection photoplethysmogram. Biomedical Optics Express, 2017, 8, 4361. | 1.5 | 4 |
| 88 | Machineâ€Learned Lightâ€Field Camera that Reads Facial Expression from Highâ€Contrast and Illumination Invariant 3D Facial Images. Advanced Intelligent Systems, 0, , 2100182. | 3.3 | 4 |
| 89 | Fully packaged video-rate confocal laser scanning endomicroscope using Lissajous fiber scanner. , 2017, , . | | 3 |
| 90 | Visible range subtractive plasmonic color filter arrays using AG-AU alloyed nanoislands. , 2018, , . | | 3 |

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|---|---|---|---|
| 91 | Lissajous scanned variable structured illumination for dynamic stereo depth map. Optics Express, 2020, 28, 15173. | 1.7 | 3 |
| 92 | Tunable microdoublet lens array. , 0, , . | | 2 |
| 93 | Polymeric synthesis of biomimetic artificial compound eyes. , 0, , . | | 2 |
| 94 | Compact OCT endomicroscopic catheter using flip-chip bonded Lissajous scanned electrothermal MEMS fiber scanner. , 2017, , . | | 2 |
| 95 | Optically Patternable Metamaterial Below Diffraction Limit. ACS Applied Materials & Interfaces, 2017, 9, 18405-18409. | 4.0 | 2 |
| 96 | Concave micropatterned complex optical surfaces for wide angular illumination. , 2009, , . | | 1 |
| 97 | Forward-viewing endoscopic OCT catheter using asymmetrically resonant fiber scanner. , 2013, , . | | 1 |
| 98 | Antireflective structures for tunable liquid-filled lens. , 2017, , . | | 1 |
| 99 | Ultrathin Compound Eye Camera for Super-Resolution Far-Field Imaging Using Light Absorbing Multiple Layers. , 2019, , . | | 1 |
| 100 | Fully packaged confocal endomicroscopic system using Lissajous fiber scanner for indocyanine green in-vivo imaging. , 2018, , . | | 1 |
| 101 | Stereoscopic facial imaging for pain assessment using rotational offset microlens arrays based structured illumination. Micro and Nano Systems Letters, 2021, 9, . | 1.7 | 1 |
| 102 | Piconewton regime measurements of biomolecular interactions by nanomechanical force gauge. , 0, , . | | 0 |
| 103 | Laser induced self-aligned microlens and waveguide arrays using a self-writing process in a photosensitive polymer resin. , 2009, , . | | 0 |
| 104 | Hierarchically structured LED lens for wide angle and high efficiency illumination. , 2012, , . | | 0 |
| 105 | Planar Microâ€Optics: Planar Emulation of Natural Compound Eyes (Small 14/2012). Small, 2012, 8, 2130-2130. | 5.2 | 0 |
| 106 | Asymmetric microstructures for high light extraction and light pattern modulation. , 2013, , . | | 0 |
| 107 | High intensity plasmon enhanced photoacoustic generation from polymeric absorber with 3D plasmonic nanostructures. , 2014, , . | | 0 |
| 108 | Microprism arrays based stereoscopic endoscope. , 2015, , . | | 0 |

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|---|---|---|---|
| 109 | Optical low angle pass filter for high resolution robust photoplethysmography monitor. , 2017, , . | | 0 |
| 110 | AG/AU nanocomposites on cellulose fiber matrices as plasmonic substrate for biosensing. , 2017, , . | | 0 |
| 111 | Mouse tissue imaging using real-time Lissajous confocal endomicroscopic system. , 2017, , . | | 0 |
| 112 | Endoscope camera using tunable liquid-filled lens with antireflective structures. , 2018, , . | | 0 |
| 113 | Biologically Inspired Ultrathin Array Cameras. , 2021, , . | | 0 |