Ki-Hun Jeong

List of Publications by Year in Descending Order

93 papers	3,302 citations	30 h-index	56 g-index
115 ext. papers	4,021 ext. citations	7 avg, IF	5.67 L-index

#	Paper	IF	Citations
93	Handheld laser scanning microscope catheter for real-time and confocal microscopy using a high definition high frame rate Lissajous MEMS mirror.. *Biomedical Optics Express*, **2022**, 13, 1497-1505	3.5	1
92	Tailoring Single Plasmonic Resonance for RGB-NIR Imaging Using Nanoimprinted Complementary Plasmonic Structures of Nanohole and Nanodisk Arrays. *Advanced Optical Materials*, **2021**, 9, 2002036	8.1	0
91	Extraordinary sensitivity enhancement of Ag-Au alloy nanohole arrays for label-free detection of. *Biomedical Optics Express*, **2021**, 12, 2734-2743	3.5	2
90	Ultrafast and Real-Time Nanoplasmonic On-Chip Polymerase Chain Reaction for Rapid and Quantitative Molecular Diagnostics. *ACS Nano*, **2021**, 15, 10194-10202	16.7	13
89	Biologically Inspired Ultrathin Contact Imager for High-Resolution Imaging of Epidermal Ridges on Human Finger. *Advanced Materials Technologies*, **2021**, 6, 2100090	6.8	1
88	High Contrast Ultrathin Light-Field Camera Using Inverted Microlens Arrays with Metal–Insulator–Metal Optical Absorber. *Advanced Optical Materials*, **2021**, 9, 2001657	8.1	12
87	Spread spectrum SERS allows label-free detection of attomolar neurotransmitters. *Nature Communications*, **2021**, 12, 159	17.4	14
86	On-chip Paper Electrophoresis for Ultrafast Screening of Infectious Diseases. *Biochip Journal*, **2021**, 15, 305-311	4	2
85	Nanoplasmonic On-Chip PCR for Rapid Precision Molecular Diagnostics. *ACS Applied Materials & Interfaces*, **2020**, 12, 12533-12540	9.5	33
84	Biologically inspired ultrathin arrayed camera for high-contrast and high-resolution imaging. *Light: Science and Applications*, **2020**, 9, 28	16.7	28
83	Lissajous scanning structured illumination microscopy. *Biomedical Optics Express*, **2020**, 11, 5575-5585	3.5	0
82	Multifocal microlens arrays using multilayer photolithography. *Optics Express*, **2020**, 28, 9082-9088	3.3	29
81	Lissajous scanned variable structured illumination for dynamic stereo depth map. *Optics Express*, **2020**, 28, 15173-15180	3.3	1
80	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	7.7	4
79	Rotational Offset Microlens Arrays for Highly Efficient Structured Pattern Projection. *Advanced Optical Materials*, **2020**, 8, 2000395	8.1	6
78	Antireflective structures on highly flexible and large area elastomer membrane for tunable liquid-filled endoscopic lens. *Nanoscale*, **2019**, 11, 856-861	7.7	9
77	Scanning MEMS Mirror for High Definition and High Frame Rate Lissajous Patterns. *Micromachines*, **2019**, 10,	3.3	14

76	Lissajous Scanning Two-photon Endomicroscope for In vivo Tissue Imaging. *Scientific Reports*, **2019**, 9, 3560	4.9	15
75	Nanoislands as plasmonic materials. *Nanoscale*, **2019**, 11, 8651-8664	7.7	19
74	Au/Ag Bimetallic Nanocomposites as a Highly Sensitive Plasmonic Material. *Plasmonics*, **2019**, 14, 407-413	2.4	7
73	Optical MEMS devices for compact 3D surface imaging cameras. *Micro and Nano Systems Letters*, **2019**, 7,	2	6
72	Ag/Au Alloyed Nanoislands for Wafer-Level Plasmonic Color Filter Arrays. *Scientific Reports*, **2019**, 9, 9082	4.9	12
71	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, 1-6	3.5	8
70	Paper-Based Biochip Assays and Recent Developments: A Review. *Biochip Journal*, **2018**, 12, 1-10	4	42
69	Mining the Smartness of Insect Ultrastructures for Advanced Imaging and Illumination. *Advanced Functional Materials*, **2018**, 28, 1705912	15.6	26
68	Structural coloration of transmission light through self-aligned and complementary plasmonic nanostructures. *Nanoscale*, **2018**, 10, 6313-6317	7.7	10
67	1.65 mm diameter forward-viewing confocal endomicroscopic catheter using a flip-chip bonded electrothermal MEMS fiber scanner. *Optics Express*, **2018**, 26, 4780-4785	3.3	18
66	Antireflective glass nanoholes on optical lenses. *Optics Express*, **2018**, 26, 14786-14791	3.3	15
65	Visible range subtractive plasmonic color filter arrays using AG-AU alloyed nanoislands **2018**,		2
64	Nanoplasmonic Alloy of Au/Ag Nanocomposites on Paper Substrate for Biosensing Applications. *ACS Applied Materials & Interfaces*, **2018**, 10, 290-295	9.5	36
63	Xenos peckii vision inspires an ultrathin digital camera. *Light: Science and Applications*, **2018**, 7, 80	16.7	28
62	Compact OCT endomicroscopic catheter using flip-chip bonded Lissajous scanned electrothermal MEMS fiber scanner **2017**,		1
61	Optically Patternable Metamaterial Below Diffraction Limit. *ACS Applied Materials & Interfaces*, **2017**, 9, 18405-18409	9.5	2
60	Plasmonic Schirmer Strip for Human Tear-Based Gouty Arthritis Diagnosis Using Surface-Enhanced Raman Scattering. *ACS Nano*, **2017**, 11, 438-443	16.7	74
59	Frequency selection rule for high definition and high frame rate Lissajous scanning. *Scientific Reports*, **2017**, 7, 14075	4.9	33

58	Bioplasmonic Alloyed Nanoislands Using Dewetting of Bilayer Thin Films. *ACS Applied Materials & Interfaces*, **2017**, 9, 37154-37159	9.5	27
57	Fully packaged video-rate confocal laser scanning endomicroscope using Lissajous fiber scanner **2017**,		2
56	Microscanners for optical endomicroscopic applications. *Micro and Nano Systems Letters*, **2017**, 5,	2	37
55	Extraordinary Figure-of-Merit of Magnetic Resonance from Ultrathin Silicon Nanohole Membrane as All-Dielectric Metamaterial. *Advanced Optical Materials*, **2017**, 5, 1600628	8.1	4
54	Colorimetric Schirmer strip for tear glucose detection. *Biochip Journal*, **2017**, 11, 294-299	4	10
53	Angle-selective optical filter for highly sensitive reflection photoplethysmogram. *Biomedical Optics Express*, **2017**, 8, 4361-4368	3.5	4
52	Batch fabrication of functional optical elements on a fiber facet using DMD based maskless lithography. *Optics Express*, **2017**, 25, 16854-16859	3.3	15
51	Electrothermal MEMS fiber scanner for optical endomicroscopy. *Optics Express*, **2016**, 24, 3903-9	3.3	36
50	Compact stereo endoscopic camera using microprism arrays. *Optics Letters*, **2016**, 41, 1285-8	3	17
49	Biologically Inspired Organic Light-Emitting Diodes. *Nano Letters*, **2016**, 16, 2994-3000	11.5	59
48	Plasmon enhanced photoacoustic generation from volumetric electromagnetic hotspots. *Nanoscale* , **2016**, 8, 757-61	7.7	6
47	Engineering hot spots on plasmonic nanopillar arrays for SERS: A review. *Biochip Journal*, **2016**, 10, 297-309	4	30
46	Strong visible magnetic resonance of size-controlled silicon-nanoblock metasurfaces. *Applied Physics Express*, **2016**, 9, 042001	2.4	5
45	Silver nanoislands on cellulose fibers for chromatographic separation and ultrasensitive detection of small molecules. *Light: Science and Applications*, **2016**, 5, e16009	16.7	52
44	Electrothermal MEMS parallel plate rotation for single-imager stereoscopic endoscopes. *Optics Express*, **2016**, 24, 9667-72	3.3	10
43	Repeated Solid-state Dewetting of Thin Gold Films for Nanogap-rich Plasmonic Nanoislands. *Scientific Reports*, **2015**, 5, 14790	4.9	76
42	Monolithic polymer microlens arrays with high numerical aperture and high packing density. *ACS Applied Materials & Interfaces*, **2015**, 7, 2160-5	9.5	43
41	Electrokinetic preconcentration of small molecules within volumetric electromagnetic hotspots in surface enhanced Raman scattering. *Small*, **2015**, 11, 2487-92	11	20

40	Optofluidic SERS chip with plasmonic nanoprobes self-aligned along microfluidic channels. *Lab on A Chip*, **2014**, 14, 865-8	7.2	44
39	A deformable nanoplasmonic membrane reveals universal correlations between plasmon resonance and surface enhanced Raman scattering. *Advanced Materials*, **2014**, 26, 4510-4	24	46
38	Subwavelength silicon through-hole arrays as an all-dielectric broadband terahertz gradient index metamaterial. *Applied Physics Letters*, **2014**, 105, 091101	3.4	25
37	Nanoplasmonic biopatch for in vivo surface enhanced raman spectroscopy. *Biochip Journal*, **2014**, 8, 289-294	4	10
36	Micromachined tethered silicon oscillator for an endomicroscopic Lissajous fiber scanner. *Optics Letters*, **2014**, 39, 6675-8	3	20
35	Lissajous fiber scanning for forward viewing optical endomicroscopy using asymmetric stiffness modulation. *Optics Express*, **2014**, 22, 5818-25	3.3	36
34	Asymmetric optical microstructures driven by geometry-guided resist reflow. *Optics Express*, **2014**, 22, 22089-94	3.3	10
33	Biologically inspired biophotonic surfaces with self-antireflection. *Small*, **2014**, 10, 2558-63	11	23
32	Fluorescent microscopy beyond diffraction limits using speckle illumination and joint support recovery. *Scientific Reports*, **2013**, 3, 2075	4.9	52
31	Millimeter scale electrostatic mirror with sub-wavelength holes for terahertz wave scanninga). *Applied Physics Letters*, **2013**, 102, 031111	3.4	3
30	Terahertz photoconductive antenna with metal nanoislands. *Optics Express*, **2012**, 20, 25530-5	3.3	81
29	Enhancement of terahertz pulse emission by optical nanoantenna. *ACS Nano*, **2012**, 6, 2026-31	16.7	105
28	Planar emulation of natural compound eyes. *Small*, **2012**, 8, 2169-73, 2130	11	18
27	Planar Micro-Optics: Planar Emulation of Natural Compound Eyes (Small 14/2012). *Small*, **2012**, 8, 2130-2130	11	
26	Glass nanopillar arrays with nanogap-rich silver nanoislands for highly intense surface enhanced Raman scattering. *Advanced Materials*, **2012**, 24, 2234-7	24	177
25	Monolithic polymer microlens arrays with antireflective nanostructures. *Applied Physics Letters*, **2012**, 101, 203102	3.4	25
24	Forward imaging OCT endoscopic catheter based on MEMS lens scanning. *Optics Letters*, **2012**, 37, 2673-5	3	38
23	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, 18674-8	11.5	85

22	In situ dynamic measurements of the enhanced SERS signal using an optoelectrofluidic SERS platform. *Lab on A Chip*, **2011**, 11, 2518-25	7.2	44
21	Beyond the SERS: Raman enhancement of small molecules using nanofluidic channels with localized surface plasmon resonance. *Small*, **2011**, 7, 184-8	11	50
20	Micromachined lens microstages for two-dimensional forward optical scanning. *Optics Express*, **2010**, 18, 16133-8	3.3	15
19	Micropatterned single lens for wide-angle light-emitting diodes. *Optics Letters*, **2010**, 35, 823-5	3	12
18	Concave micropatterned complex optical surfaces for wide angular illumination **2009**,		1
17	Microfabricated ommatidia using a laser induced self-writing process for high resolution artificial compound eye optical systems. *Optics Express*, **2009**, 17, 14761-6	3.3	12
16	Biologically inspired artificial compound eyes. *Science*, **2006**, 312, 557-61	33.3	465
15	Nanogap capacitors: Sensitivity to sample permittivity changes. *Journal of Applied Physics*, **2006**, 99, 024305	2.5	27
14	Artificial ommatidia by self-aligned microlenses and waveguides. *Optics Letters*, **2005**, 30, 5-7	3	56
13	Theoretical and experimental study towards a nanogap dielectric biosensor. *Biosensors and Bioelectronics*, **2005**, 20, 1320-6	11.8	85
12	Direct force measurements of biomolecular interactions by nanomechanical force gauge. *Applied Physics Letters*, **2005**, 86, 193901	3.4	13
11	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	2	29
10	Microfabricated suspensions for electrical connections on the tunable elastomer membrane. *Applied Physics Letters*, **2004**, 85, 6051-6053	3.4	52
9	Tunable microdoublet lens array. *Optics Express*, **2004**, 12, 2494-500	3.3	136
8	Reagentless mechanical cell lysis by nanoscale barbs in microchannels for sample preparation. *Lab on A Chip*, **2003**, 3, 287-91	7.2	199
7	Tunable liquid-filled microlens array integrated with microfluidic network. *Optics Express*, **2003**, 11, 2370-8	3.3	290
6	Wear-life diagram of TiN-coated steels. *Wear*, **1998**, 217, 175-181	3.5	22
5	Polymeric synthesis of biomimetic artificial compound eyes		1

4	A novel fabrication method of a vertical comb drive using a single SOI wafer for optical MEMS applications		5
3	Nanogap-based dielectric immunosensing		3
2	A new method of increasing numerical aperture of microlens for biophotonic MEMS		5
1	Machine-Learned Light-Field Camera that Reads Facial Expression from High-Contrast and Illumination Invariant 3D Facial Images. *Advanced Intelligent Systems*,2100182	6	1