

Ki-Hun Jeong

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Biologically inspired artificial compound eyes. <i>Science</i> , 2006 , 312, 557-61	33.3	465
92	Tunable liquid-filled microlens array integrated with microfluidic network. <i>Optics Express</i> , 2003 , 11, 2370-8	3.8	290
91	Reagentless mechanical cell lysis by nanoscale barbs in microchannels for sample preparation. <i>Lab on A Chip</i> , 2003 , 3, 287-91	7.2	199
90	Glass nanopillar arrays with nanogap-rich silver nanoislands for highly intense surface enhanced Raman scattering. <i>Advanced Materials</i> , 2012 , 24, 2234-7	24	177
89	Tunable microdoublet lens array. <i>Optics Express</i> , 2004 , 12, 2494-500	3.3	136
88	Enhancement of terahertz pulse emission by optical nanoantenna. <i>ACS Nano</i> , 2012 , 6, 2026-31	16.7	105
87	Biologically inspired LED lens from cuticular nanostructures of firefly lantern. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 18674-8	11.5	85
86	Theoretical and experimental study towards a nanogap dielectric biosensor. <i>Biosensors and Bioelectronics</i> , 2005 , 20, 1320-6	11.8	85
85	Terahertz photoconductive antenna with metal nanoislands. <i>Optics Express</i> , 2012 , 20, 25530-5	3.3	81
84	Repeated Solid-state Dewetting of Thin Gold Films for Nanogap-rich Plasmonic Nanoislands. <i>Scientific Reports</i> , 2015 , 5, 14790	4.9	76
83	Plasmonic Schirmer Strip for Human Tear-Based Gouty Arthritis Diagnosis Using Surface-Enhanced Raman Scattering. <i>ACS Nano</i> , 2017 , 11, 438-443	16.7	74
82	Biologically Inspired Organic Light-Emitting Diodes. <i>Nano Letters</i> , 2016 , 16, 2994-3000	11.5	59
81	Artificial ommatidia by self-aligned microlenses and waveguides. <i>Optics Letters</i> , 2005 , 30, 5-7	3	56
80	Fluorescent microscopy beyond diffraction limits using speckle illumination and joint support recovery. <i>Scientific Reports</i> , 2013 , 3, 2075	4.9	52
79	Microfabricated suspensions for electrical connections on the tunable elastomer membrane. <i>Applied Physics Letters</i> , 2004 , 85, 6051-6053	3.4	52
78	Silver nanoislands on cellulose fibers for chromatographic separation and ultrasensitive detection of small molecules. <i>Light: Science and Applications</i> , 2016 , 5, e16009	16.7	52
77	Beyond the SERS: Raman enhancement of small molecules using nanofluidic channels with localized surface plasmon resonance. <i>Small</i> , 2011 , 7, 184-8	11	50

76	A deformable nanoplasmonic membrane reveals universal correlations between plasmon resonance and surface enhanced Raman scattering. <i>Advanced Materials</i> , 2014 , 26, 4510-4	24	46
75	Optofluidic SERS chip with plasmonic nanoprobe self-aligned along microfluidic channels. <i>Lab on A Chip</i> , 2014 , 14, 865-8	7.2	44
74	In situ dynamic measurements of the enhanced SERS signal using an optoelectrofluidic SERS platform. <i>Lab on A Chip</i> , 2011 , 11, 2518-25	7.2	44
73	Monolithic polymer microlens arrays with high numerical aperture and high packing density. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 2160-5	9.5	43
72	Paper-Based Biochip Assays and Recent Developments: A Review. <i>Biochip Journal</i> , 2018 , 12, 1-10	4	42
71	Forward imaging OCT endoscopic catheter based on MEMS lens scanning. <i>Optics Letters</i> , 2012 , 37, 2673-5	3	38
70	Microscanners for optical endomicroscopic applications. <i>Micro and Nano Systems Letters</i> , 2017 , 5,	2	37
69	Electrothermal MEMS fiber scanner for optical endomicroscopy. <i>Optics Express</i> , 2016 , 24, 3903-9	3.3	36
68	Lissajous fiber scanning for forward viewing optical endomicroscopy using asymmetric stiffness modulation. <i>Optics Express</i> , 2014 , 22, 5818-25	3.3	36
67	Nanoplasmonic Alloy of Au/Ag Nanocomposites on Paper Substrate for Biosensing Applications. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 290-295	9.5	36
66	Frequency selection rule for high definition and high frame rate Lissajous scanning. <i>Scientific Reports</i> , 2017 , 7, 14075	4.9	33
65	Nanoplasmonic On-Chip PCR for Rapid Precision Molecular Diagnostics. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 12533-12540	9.5	33
64	Engineering hot spots on plasmonic nanopillar arrays for SERS: A review. <i>Biochip Journal</i> , 2016 , 10, 297-309	3	30
63	A novel microfabrication of a self-aligned vertical comb drive on a single SOI wafer for optical MEMS applications. <i>Journal of Micromechanics and Microengineering</i> , 2005 , 15, 277-281	2	29
62	Multifocal microlens arrays using multilayer photolithography. <i>Optics Express</i> , 2020 , 28, 9082-9088	3.3	29
61	Biologically inspired ultrathin arrayed camera for high-contrast and high-resolution imaging. <i>Light: Science and Applications</i> , 2020 , 9, 28	16.7	28
60	Xenos peckii vision inspires an ultrathin digital camera. <i>Light: Science and Applications</i> , 2018 , 7, 80	16.7	28
59	Bioplasmonic Alloyed Nanoislands Using Dewetting of Bilayer Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 37154-37159	9.5	27

58	Nanogap capacitors: Sensitivity to sample permittivity changes. <i>Journal of Applied Physics</i> , 2006 , 99, 024305	27
57	Mining the Smartness of Insect Ultrastructures for Advanced Imaging and Illumination. <i>Advanced Functional Materials</i> , 2018 , 28, 1705912	15.6 26
56	Subwavelength silicon through-hole arrays as an all-dielectric broadband terahertz gradient index metamaterial. <i>Applied Physics Letters</i> , 2014 , 105, 091101	3-4 25
55	Monolithic polymer microlens arrays with antireflective nanostructures. <i>Applied Physics Letters</i> , 2012 , 101, 203102	3-4 25
54	Biologically inspired biophotonic surfaces with self-antireflection. <i>Small</i> , 2014 , 10, 2558-63	11 23
53	Wear-life diagram of TiN-coated steels. <i>Wear</i> , 1998 , 217, 175-181	3-5 22
52	Electrokinetic preconcentration of small molecules within volumetric electromagnetic hotspots in surface enhanced Raman scattering. <i>Small</i> , 2015 , 11, 2487-92	11 20
51	Micromachined tethered silicon oscillator for an endoscopic Lissajous fiber scanner. <i>Optics Letters</i> , 2014 , 39, 6675-8	3 20
50	Nanoislands as plasmonic materials. <i>Nanoscale</i> , 2019 , 11, 8651-8664	7-7 19
49	1.65 mm diameter forward-viewing confocal endoscopic catheter using a flip-chip bonded electrothermal MEMS fiber scanner. <i>Optics Express</i> , 2018 , 26, 4780-4785	3-3 18
48	Planar emulation of natural compound eyes. <i>Small</i> , 2012 , 8, 2169-73, 2130	11 18
47	Compact stereo endoscopic camera using microprism arrays. <i>Optics Letters</i> , 2016 , 41, 1285-8	3 17
46	Lissajous Scanning Two-photon Endomicroscope for In vivo Tissue Imaging. <i>Scientific Reports</i> , 2019 , 9, 3560	4-9 15
45	Antireflective glass nanoholes on optical lenses. <i>Optics Express</i> , 2018 , 26, 14786-14791	3-3 15
44	Batch fabrication of functional optical elements on a fiber facet using DMD based maskless lithography. <i>Optics Express</i> , 2017 , 25, 16854-16859	3-3 15
43	Micromachined lens microstages for two-dimensional forward optical scanning. <i>Optics Express</i> , 2010 , 18, 16133-8	3-3 15
42	Scanning MEMS Mirror for High Definition and High Frame Rate Lissajous Patterns. <i>Micromachines</i> , 2019 , 10,	3-3 14
41	Spread spectrum SERS allows label-free detection of attomolar neurotransmitters. <i>Nature Communications</i> , 2021 , 12, 159	17.4 14

40	Direct force measurements of biomolecular interactions by nanomechanical force gauge. <i>Applied Physics Letters</i> , 2005 , 86, 193901	3.4	13
39	Ultrafast and Real-Time Nanoplasmonic On-Chip Polymerase Chain Reaction for Rapid and Quantitative Molecular Diagnostics. <i>ACS Nano</i> , 2021 , 15, 10194-10202	16.7	13
38	Ag/Au Alloyed Nanoislands for Wafer-Level Plasmonic Color Filter Arrays. <i>Scientific Reports</i> , 2019 , 9, 9082	4.9	12
37	Micropatterned single lens for wide-angle light-emitting diodes. <i>Optics Letters</i> , 2010 , 35, 823-5	3	12
36	Microfabricated ommatidia using a laser induced self-writing process for high resolution artificial compound eye optical systems. <i>Optics Express</i> , 2009 , 17, 14761-6	3.3	12
35	High Contrast Ultrathin Light-Field Camera Using Inverted Microlens Arrays with Metal Insulator Metal Optical Absorber. <i>Advanced Optical Materials</i> , 2021 , 9, 2001657	8.1	12
34	Structural coloration of transmission light through self-aligned and complementary plasmonic nanostructures. <i>Nanoscale</i> , 2018 , 10, 6313-6317	7.7	10
33	Colorimetric Schirmer strip for tear glucose detection. <i>Biochip Journal</i> , 2017 , 11, 294-299	4	10
32	Nanoplasmonic biopatch for in vivo surface enhanced raman spectroscopy. <i>Biochip Journal</i> , 2014 , 8, 289-294	4	10
31	Asymmetric optical microstructures driven by geometry-guided resist reflow. <i>Optics Express</i> , 2014 , 22, 22089-94	3.3	10
30	Electrothermal MEMS parallel plate rotation for single-imager stereoscopic endoscopes. <i>Optics Express</i> , 2016 , 24, 9667-72	3.3	10
29	Antireflective structures on highly flexible and large area elastomer membrane for tunable liquid-filled endoscopic lens. <i>Nanoscale</i> , 2019 , 11, 856-861	7.7	9
28	Fiber-optic plasmonic probe with nanogap-rich Au nanoislands for on-site surface-enhanced Raman spectroscopy using repeated solid-state dewetting. <i>Journal of Biomedical Optics</i> , 2019 , 24, 1-6	3.5	8
27	Au/Ag Bimetallic Nanocomposites as a Highly Sensitive Plasmonic Material. <i>Plasmonics</i> , 2019 , 14, 407-413	3.4	7
26	Plasmon enhanced photoacoustic generation from volumetric electromagnetic hotspots. <i>Nanoscale</i> , 2016 , 8, 757-61	7.7	6
25	Optical MEMS devices for compact 3D surface imaging cameras. <i>Micro and Nano Systems Letters</i> , 2019 , 7,	2	6
24	Rotational Offset Microlens Arrays for Highly Efficient Structured Pattern Projection. <i>Advanced Optical Materials</i> , 2020 , 8, 2000395	8.1	6
23	A novel fabrication method of a vertical comb drive using a single SOI wafer for optical MEMS applications		5

22	A new method of increasing numerical aperture of microlens for biophotonic MEMS		5
21	Strong visible magnetic resonance of size-controlled silicon-nanoblock metasurfaces. <i>Applied Physics Express</i> , 2016 , 9, 042001	2.4	5
20	Extraordinary Figure-of-Merit of Magnetic Resonance from Ultrathin Silicon Nanohole Membrane as All-Dielectric Metamaterial. <i>Advanced Optical Materials</i> , 2017 , 5, 1600628	8.1	4
19	Angle-selective optical filter for highly sensitive reflection photoplethysmogram. <i>Biomedical Optics Express</i> , 2017 , 8, 4361-4368	3.5	4
18	Handheld endomicroscope using a fiber-optic harmonograph enables real-time and in vivo confocal imaging of living cell morphology and capillary perfusion. <i>Microsystems and Nanoengineering</i> , 2020 , 6, 72	7.7	4
17	Millimeter scale electrostatic mirror with sub-wavelength holes for terahertz wave scanning). <i>Applied Physics Letters</i> , 2013 , 102, 031111	3.4	3
16	Nanogap-based dielectric immunosensing		3
15	Optically Patternable Metamaterial Below Diffraction Limit. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 18405-18409	9.5	2
14	Visible range subtractive plasmonic color filter arrays using Ag-Au alloyed nanoislands 2018 ,		2
13	Fully packaged video-rate confocal laser scanning endomicroscope using Lissajous fiber scanner 2017 ,		2
12	Extraordinary sensitivity enhancement of Ag-Au alloy nanohole arrays for label-free detection of. <i>Biomedical Optics Express</i> , 2021 , 12, 2734-2743	3.5	2
11	On-chip Paper Electrophoresis for Ultrafast Screening of Infectious Diseases. <i>Biochip Journal</i> , 2021 , 15, 305-311	4	2
10	Compact OCT endomicroscopic catheter using flip-chip bonded Lissajous scanned electrothermal MEMS fiber scanner 2017 ,		1
9	Concave micropatterned complex optical surfaces for wide angular illumination 2009 ,		1
8	Polymeric synthesis of biomimetic artificial compound eyes		1
7	Handheld laser scanning microscope catheter for real-time and confocal microscopy using a high definition high frame rate Lissajous MEMS mirror.. <i>Biomedical Optics Express</i> , 2022 , 13, 1497-1505	3.5	1
6	Lissajous scanned variable structured illumination for dynamic stereo depth map. <i>Optics Express</i> , 2020 , 28, 15173-15180	3.3	1
5	Biologically Inspired Ultrathin Contact Imager for High-Resolution Imaging of Epidermal Ridges on Human Finger. <i>Advanced Materials Technologies</i> , 2021 , 6, 2100090	6.8	1

4	Machine-Learned Light-Field Camera that Reads Facial Expression from High-Contrast and Illumination Invariant 3D Facial Images. <i>Advanced Intelligent Systems</i> , 2020, 1, 100182	6	1
3	Lissajous scanning structured illumination microscopy. <i>Biomedical Optics Express</i> , 2020, 11, 5575-5585	3.5	0
2	Tailoring Single Plasmonic Resonance for RGB-NIR Imaging Using Nanoimprinted Complementary Plasmonic Structures of Nanohole and Nanodisk Arrays. <i>Advanced Optical Materials</i> , 2021, 9, 2002036	8.1	0
1	Planar Micro-Optics: Planar Emulation of Natural Compound Eyes (Small 14/2012). <i>Small</i> , 2012, 8, 2130-2130	4.1	0