

Sang-In Bae

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.

59
papers

1,129
citations

20
h-index

32
g-index

87
ext. papers

1,481
ext. citations

7.7
avg, IF

4.96
L-index

#	Paper	IF	Citations
59	Tunable microdoublet lens array. <i>Optics Express</i> , 2004 , 12, 2494-500	3.3	136
58	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
57	Repeated Solid-state Dewetting of Thin Gold Films for Nanogap-rich Plasmonic Nanoislands. <i>Scientific Reports</i> , 2015 , 5, 14790	4.9	76
56	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
55	Biologically Inspired Organic Light-Emitting Diodes. <i>Nano Letters</i> , 2016 , 16, 2994-3000	11.5	59
54	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
53	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
52	Paper-Based Biochip Assays and Recent Developments: A Review. <i>Biochip Journal</i> , 2018 , 12, 1-10	4	42
51	Electrothermal MEMS fiber scanner for optical endomicroscopy. <i>Optics Express</i> , 2016 , 24, 3903-9	3.3	36
50	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
49	Frequency selection rule for high definition and high frame rate Lissajous scanning. <i>Scientific Reports</i> , 2017 , 7, 14075	4.9	33
48	Nanoplasmonic On-Chip PCR for Rapid Precision Molecular Diagnostics. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 12533-12540	9.5	33
47	Engineering hot spots on plasmonic nanopillar arrays for SERS: A review. <i>Biochip Journal</i> , 2016 , 10, 297-309	3.0	30
46	Multifocal microlens arrays using multilayer photolithography. <i>Optics Express</i> , 2020 , 28, 9082-9088	3.3	29
45	Biologically inspired ultrathin arrayed camera for high-contrast and high-resolution imaging. <i>Light: Science and Applications</i> , 2020 , 9, 28	16.7	28
44	Xenos peckii vision inspires an ultrathin digital camera. <i>Light: Science and Applications</i> , 2018 , 7, 80	16.7	28
43	Bioplasmonic Alloyed Nanoislands Using Dewetting of Bilayer Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 37154-37159	9.5	27

42	Mining the Smartness of Insect Ultrastructures for Advanced Imaging and Illumination. <i>Advanced Functional Materials</i> , 2018 , 28, 1705912	15.6	26
41	Biologically inspired biophotonic surfaces with self-antireflection. <i>Small</i> , 2014 , 10, 2558-63	11	23
40	Electrokinetic preconcentration of small molecules within volumetric electromagnetic hotspots in surface enhanced Raman scattering. <i>Small</i> , 2015 , 11, 2487-92	11	20
39	Compact stereo endoscopic camera using microprism arrays. <i>Optics Letters</i> , 2016 , 41, 1285-8	3	17
38	Lissajous Scanning Two-photon Endomicroscope for In vivo Tissue Imaging. <i>Scientific Reports</i> , 2019 , 9, 3560	4.9	15
37	Antireflective glass nanoholes on optical lenses. <i>Optics Express</i> , 2018 , 26, 14786-14791	3.3	15
36	Scanning MEMS Mirror for High Definition and High Frame Rate Lissajous Patterns. <i>Micromachines</i> , 2019 , 10,	3.3	14
35	Spread spectrum SERS allows label-free detection of attomolar neurotransmitters. <i>Nature Communications</i> , 2021 , 12, 159	17.4	14
34	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
33	Ag/Au Alloyed Nanoislands for Wafer-Level Plasmonic Color Filter Arrays. <i>Scientific Reports</i> , 2019 , 9, 9082	4.9	12
32	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
31	Colorimetric Schirmer strip for tear glucose detection. <i>Biochip Journal</i> , 2017 , 11, 294-299	4	10
30	Nanoplasmonic biopatch for in vivo surface enhanced raman spectroscopy. <i>Biochip Journal</i> , 2014 , 8, 289-294	4	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	Rotational Offset Microlens Arrays for Highly Efficient Structured Pattern Projection. <i>Advanced Optical Materials</i> , 2020 , 8, 2000395	8.1	6

24	Ultrathin arrayed camera for high-contrast near-infrared imaging. <i>Optics Express</i> , 2021 , 29, 1333-1339	3.3	5
23	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
22	Angle-selective optical filter for highly sensitive reflection photoplethysmogram. <i>Biomedical Optics Express</i> , 2017 , 8, 4361-4368	3.5	4
21	High resolution and high frame rate Lissajous scanning using MEMS fiber scanner 2016 ,		3
20	Nanoplasmonics: A Deformable Nanoplasmonic Membrane Reveals Universal Correlations Between Plasmon Resonance and Surface Enhanced Raman Scattering (Adv. Mater. 26/2014). <i>Advanced Materials</i> , 2014 , 26, 4509-4509	24	3
19	Millimeter scale electrostatic mirror with sub-wavelength holes for terahertz wave scanning). <i>Applied Physics Letters</i> , 2013 , 102, 031111	3.4	3
18	Fully packaged video-rate confocal laser scanning endomicroscope using Lissajous fiber scanner 2017 ,		2
17	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
16	Electrothermal MEMS fiber scanner with lissajous patterns for endomicroscopic applications 2016 ,		2
15	Variable Structured Illumination Using Lissajous Scanning MEMS Mirror 2018 ,		2
14	On-chip Paper Electrophoresis for Ultrafast Screening of Infectious Diseases. <i>Biochip Journal</i> , 2021 , 15, 305-311	4	2
13	Compact OCT endomicroscopic catheter using flip-chip bonded Lissajous scanned electrothermal MEMS fiber scanner 2017 ,		1
12	High Resolution 3D Surface Imaging Using Variable Structured Illumination via Lissajous Scanning MEMS Mirror Module 2019 ,		1
11	High performance label-free biosensing by all dielectric metamaterial 2014 ,		1
10	Concave micropatterned complex optical surfaces for wide angular illumination 2009 ,		1
9	Monolithic polymer microlens arrays with anti-reflective structures using a metal annealed mask 2011 ,		1
8	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
7	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

6	Ultrathin camera inspired by visual system of <i>Xenos peckii</i> 2016 ,		1
5	Machine-Learned Light-Field Camera that Reads Facial Expression from High-Contrast and Illumination Invariant 3D Facial Images. <i>Advanced Intelligent Systems</i> , 2100182	6	1
4	Lissajous scanning structured illumination microscopy. <i>Biomedical Optics Express</i> , 2020 , 11, 5575-5585	3.5	0
3	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
2	Sensors: Electrokinetic Preconcentration of Small Molecules Within Volumetric Electromagnetic Hotspots in Surface Enhanced Raman Scattering (Small 21/2015). <i>Small</i> , 2015 , 11, 2466-2466	11	
1	Planar Micro-Optics: Planar Emulation of Natural Compound Eyes (Small 14/2012). <i>Small</i> , 2012 , 8, 2130-2130		