Sang-In Bae

List of Publications by Year in Descending Order

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	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
58	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
57	Extraordinary sensitivity enhancement of Ag-Au alloy nanohole arrays for label-free detection of. *Biomedical Optics Express*, **2021**, 12, 2734-2743	3.5	2
56	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
55	Biologically Inspired Ultrathin Contact Imager for High-Resolution Imaging of Epidermal Ridges on Human Finger. *Advanced Materials Technologies*, **2021**, 6, 2100090	6.8	1
54	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
53	Ultrathin arrayed camera for high-contrast near-infrared imaging. *Optics Express*, **2021**, 29, 1333-1339	3.3	5
52	Spread spectrum SERS allows label-free detection of attomolar neurotransmitters. *Nature Communications*, **2021**, 12, 159	17.4	14
51	On-chip Paper Electrophoresis for Ultrafast Screening of Infectious Diseases. *Biochip Journal*, **2021**, 15, 305-311	4	2
50	Nanoplasmonic On-Chip PCR for Rapid Precision Molecular Diagnostics. *ACS Applied Materials & Interfaces*, **2020**, 12, 12533-12540	9.5	33
49	Biologically inspired ultrathin arrayed camera for high-contrast and high-resolution imaging. *Light: Science and Applications*, **2020**, 9, 28	16.7	28
48	Lissajous scanning structured illumination microscopy. *Biomedical Optics Express*, **2020**, 11, 5575-5585	3.5	0
47	Multifocal microlens arrays using multilayer photolithography. *Optics Express*, **2020**, 28, 9082-9088	3.3	29
46	Rotational Offset Microlens Arrays for Highly Efficient Structured Pattern Projection. *Advanced Optical Materials*, **2020**, 8, 2000395	8.1	6
45	Antireflective structures on highly flexible and large area elastomer membrane for tunable liquid-filled endoscopic lens. *Nanoscale*, **2019**, 11, 856-861	7.7	9
44	Scanning MEMS Mirror for High Definition and High Frame Rate Lissajous Patterns. *Micromachines*, **2019**, 10,	3.3	14
43	Lissajous Scanning Two-photon Endomicroscope for In vivo Tissue Imaging. *Scientific Reports*, **2019**, 9, 3560	4.9	15

42	Au/Ag Bimetallic Nanocomposites as a Highly Sensitive Plasmonic Material. *Plasmonics*, **2019**, 14, 407-413	2.4	7
41	Ag/Au Alloyed Nanoislands for Wafer-Level Plasmonic Color Filter Arrays. *Scientific Reports*, **2019**, 9, 9082	4.9	12
40	High Resolution 3D Surface Imaging Using Variable Structured Illumination via Lissajous Scanning MEMS Mirror Module **2019**,		1
39	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
38	Paper-Based Biochip Assays and Recent Developments: A Review. *Biochip Journal*, **2018**, 12, 1-10	4	42
37	Mining the Smartness of Insect Ultrastructures for Advanced Imaging and Illumination. *Advanced Functional Materials*, **2018**, 28, 1705912	15.6	26
36	Antireflective glass nanoholes on optical lenses. *Optics Express*, **2018**, 26, 14786-14791	3.3	15
35	Nanoplasmonic Alloy of Au/Ag Nanocomposites on Paper Substrate for Biosensing Applications. *ACS Applied Materials & Interfaces*, **2018**, 10, 290-295	9.5	36
34	Xenos peckii vision inspires an ultrathin digital camera. *Light: Science and Applications*, **2018**, 7, 80	16.7	28
33	Variable Structured Illumination Using Lissajous Scanning MEMS Mirror **2018**,		2
32	Compact OCT endomicroscopic catheter using flip-chip bonded Lissajous scanned electrothermal MEMS fiber scanner **2017**,		1
31	Plasmonic Schirmer Strip for Human Tear-Based Gouty Arthritis Diagnosis Using Surface-Enhanced Raman Scattering. *ACS Nano*, **2017**, 11, 438-443	16.7	74
30	Frequency selection rule for high definition and high frame rate Lissajous scanning. *Scientific Reports*, **2017**, 7, 14075	4.9	33
29	Bioplasmonic Alloyed Nanoislands Using Dewetting of Bilayer Thin Films. *ACS Applied Materials & Interfaces*, **2017**, 9, 37154-37159	9.5	27
28	Fully packaged video-rate confocal laser scanning endomicroscope using Lissajous fiber scanner **2017**,		2
27	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
26	Colorimetric Schirmer strip for tear glucose detection. *Biochip Journal*, **2017**, 11, 294-299	4	10
25	Angle-selective optical filter for highly sensitive reflection photoplethysmogram. *Biomedical Optics Express*, **2017**, 8, 4361-4368	3.5	4

24	Electrothermal MEMS fiber scanner for optical endomicroscopy. *Optics Express*, **2016**, 24, 3903-9	3.3	36
23	High resolution and high frame rate Lissajous scanning using MEMS fiber scanner **2016**,		3
22	Compact stereo endoscopic camera using microprism arrays. *Optics Letters*, **2016**, 41, 1285-8	3	17
21	Biologically Inspired Organic Light-Emitting Diodes. *Nano Letters*, **2016**, 16, 2994-3000	11.5	59
20	Plasmon enhanced photoacoustic generation from volumetric electromagnetic hotspots. *Nanoscale* , **2016**, 8, 757-61	7.7	6
19	Engineering hot spots on plasmonic nanopillar arrays for SERS: A review. *Biochip Journal*, **2016**, 10, 297-309	4	30
18	Electrothermal MEMS fiber scanner with lissajous patterns for endomicroscopic applications **2016**,		2
17	Ultrathin camera inspired by visual system of Xenos peckii **2016**,		1
16	Silver nanoislands on cellulose fibers for chromatographic separation and ultrasensitive detection of small molecules. *Light: Science and Applications*, **2016**, 5, e16009	16.7	52
15	Sensors: Electrokinetic Preconcentration of Small Molecules Within Volumetric Electromagnetic Hotspots in Surface Enhanced Raman Scattering (Small 21/2015). *Small*, **2015**, 11, 2466-2466	11	
14	Repeated Solid-state Dewetting of Thin Gold Films for Nanogap-rich Plasmonic Nanoislands. *Scientific Reports*, **2015**, 5, 14790	4.9	76
13	Monolithic polymer microlens arrays with high numerical aperture and high packing density. *ACS Applied Materials & Interfaces*, **2015**, 7, 2160-5	9.5	43
12	Electrokinetic preconcentration of small molecules within volumetric electromagnetic hotspots in surface enhanced Raman scattering. *Small*, **2015**, 11, 2487-92	11	20
11	High performance label-free biosensing by all dielectric metamaterial **2014**,		1
10	Nanoplasmonic biopatch for in vivo surface enhanced raman spectroscopy. *Biochip Journal*, **2014**, 8, 289-294	4	10
9	Biologically inspired biophotonic surfaces with self-antireflection. *Small*, **2014**, 10, 2558-63	11	23
8	Nanoplasmonics: A Deformable Nanoplasmonic Membrane Reveals Universal Correlations Between Plasmon Resonance and Surface Enhanced Raman Scattering (Adv. Mater. 26/2014). *Advanced Materials*, **2014**, 26, 4509-4509	24	3
7	Millimeter scale electrostatic mirror with sub-wavelength holes for terahertz wave scanninga). *Applied Physics Letters*, **2013**, 102, 031111	3.4	3

6	Planar Micro-Optics: Planar Emulation of Natural Compound Eyes (Small 14/2012). *Small*, **2012**, 8, 2130-2130	11.5	
5	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
4	Monolithic polymer microlens arrays with anti-reflective structures using a metal annealed mask **2011**,		1
3	Concave micropatterned complex optical surfaces for wide angular illumination **2009**,		1
2	Tunable microdoublet lens array. *Optics Express*, **2004**, 12, 2494-500	3.3	136
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