

# Beom-Hoan O

## List of Publications by Year in descending order

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68  
papers

689  
citations

759233

12  
h-index

580821

25  
g-index

68  
all docs

68  
docs citations

68  
times ranked

666  
citing authors

#	ARTICLE	IF	CITATIONS
1	Symmetric nonconfocal Fabry-Perot cavity with a stable long optical path length and improved tolerance for angular alignment. <i>Optical Engineering</i> , 2022, 60, .	1.0	1
2	Combined soft lithographic transfer- $\mu$ printing and patterning method of highly fluorinated polymers as a facile surface treatment protocol. <i>Journal of Applied Polymer Science</i> , 2017, 134, 45184.	2.6	3
3	Near-Field Imaging of Cell Membranes in Liquid Enabled by Active Scanning Probe Mechanical Resonance Control. <i>Journal of Physical Chemistry C</i> , 2016, 120, 21138-21144.	3.1	5
4	Simple thermal diverging model of the thin epitaxial layer of InP laser diodes. <i>Journal of the Korean Physical Society</i> , 2015, 67, 1175-1178.	0.7	1
5	Lift-off patterning of Ag nanowire/PEDOT:PSS composite films for transparent electrodes using a fluoropolymer structure. <i>Thin Solid Films</i> , 2015, 587, 100-105.	1.8	18
6	Lift-off patterning of multi-walled carbon nanotube and PEDOT:PSS composite films with fluorinated polymer templates. <i>Microelectronic Engineering</i> , 2015, 145, 160-165.	2.4	2
7	Existence of a stable resonance zone with nearly unchanging vibration characteristics for a near-field scanning optical microscope probe dipped partially into a liquid. <i>Journal of the Korean Physical Society</i> , 2014, 64, 366-370.	0.7	1
8	Preparation of fluoropolymer structures for orthogonal processing of diverse material by Micro-Contact Printing. <i>Microelectronic Engineering</i> , 2014, 123, 33-37.	2.4	9
9	Analysis of ZnO nanorod growth from inclined columnar seed layer. <i>Microelectronic Engineering</i> , 2013, 110, 446-449.	2.4	0
10	Optimized process of metal assisted silicon wet etching for antireflection layer. <i>Microelectronic Engineering</i> , 2012, 98, 395-399.	2.4	5
11	Laterally grown ZnO nanorod arrays on an obliquely deposited seed layer and its UV photocurrent response. <i>Microelectronic Engineering</i> , 2012, 97, 130-133.	2.4	10
12	Measurement of the Internal Structure of an Optical Waveguide Embedded in a Flexible Optical Circuit Board by Enhancing the Signal Contrast of a Confocal Microscope. <i>Journal of the Optical Society of Korea</i> , 2011, 15, 9-14.	0.6	2
13	Fabrication of tapered waveguide by ashed photoresist. <i>Microelectronic Engineering</i> , 2011, 88, 2721-2724.	2.4	1
14	Antireflective silicon subwavelength structure formed by self-aggregated gold nano particle as a catalyst. <i>Microelectronic Engineering</i> , 2011, 88, 2597-2600.	2.4	8
15	Durability of nitrated fluorocarbon polymer films for nanoimprint lithography. <i>Thin Solid Films</i> , 2011, 519, 5490-5493.	1.8	3
16	Novel fabrication of various size ZnO nanorods using hydrothermal method. <i>Microelectronic Engineering</i> , 2010, 87, 1534-1536.	2.4	27
17	Fabrication of novel double microlens using two step soft lithography. <i>Microelectronic Engineering</i> , 2010, 87, 1033-1036.	2.4	12
18	Enhancement of electroluminescence in GaN-based light-emitting diodes by metallic nanoparticles. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	38

#	ARTICLE	IF	CITATIONS
19	Enhanced coupling efficiency into photonic crystal waveguides using modification of inlet holes. , 2010, , .		0
20	A new method of Q factor optimization by introducing two nodal wedges in a tuning-fork/fiber probe distance sensor. Review of Scientific Instruments, 2010, 81, 093702.	1.3	11
21	VLSI Photonics: How Can We Approach Using Micro/Nano-Materials?. Molecular Crystals and Liquid Crystals, 2010, 522, 159/[459]-171/[471].	0.9	0
22	Novel elastic scattering model for the understanding of the Anomalous transmittance for Au nanoparticle layer. Optics Express, 2010, 18, 13418.	3.4	5
23	Noise-robust Phase Gradient Retrieval Formulation for Phase-shifting Interferometry. Journal of the Optical Society of Korea, 2010, 14, 131-136.	0.6	1
24	Electro-optic modulator mediated by metal-insulator-metal plasmonic waveguides. , 2009, , .		1
25	Drude Model for the Optical Properties of a Nano-Scale Thin Metal Film Revisited. Journal of the Korean Physical Society, 2009, 55, 2552-2555.	0.7	18
26	Novel Grating Design for Out-of-Plane Coupling With Nonuniform Duty Cycle. IEEE Photonics Technology Letters, 2008, 20, 730-732.	2.5	7
27	Passivation Effect during the C4F8 + N2 Etch Process for SiOCH Low-k Films. Journal of the Korean Physical Society, 2008, 52, 1786-1791.	0.7	3
28	Photonic Crystal Electro-Optic Modulator Incorporating Hybrid Silicon/Polymer Material. , 2007, , .		0
29	Residual Layer Distribution on Embossing Process for Photonic Devices. , 2007, , .		0
30	Design of a silicon optical modulator using photonic crystal Mach-Zehnder interferometer. , 2007, , .		0
31	Design and Fabrication of a Polymer Optical Bench for VCSEL array by UV Embossing. , 2007, , .		0
32	Design and characterization of an out-of-plane polymer waveguide grating coupler. , 2007, , .		5
33	Design of Photonic Crystal-Based THz Devices: Power Splitter and Demultiplexer. , 2007, , .		0
34	Design of mask grating for obtaining the effect of an off-axis illumination in optical lithography. , 2007, , .		0
35	Fabrication of vertical optical interconnecting structure using photoresist reflowed mold structures. Microelectronic Engineering, 2007, 84, 1092-1095.	2.4	0
36	Fabrication of a polymeric photonic crystal wavelength splitter using ultra violet embossing technology. Microelectronic Engineering, 2007, 84, 994-998.	2.4	1

#	ARTICLE	IF	CITATIONS
37	Optimal Design and Analysis of the Multi-Mode Interference Based Photonic Crystal Demultiplexer. , 2007, , .		1
38	Novel fabrication of a curved micro-mirror for optical interconnection. Microelectronic Engineering, 2006, 83, 1343-1346.	2.4	4
39	Reduction of an insertion loss in an interleaver with Gires-Tournois etalons by asymmetric input-output port configuration. Microwave and Optical Technology Letters, 2006, 48, 2024-2028.	1.4	2
40	Wavelength tunable thermo-optic filter using buckling effect of etalon composed poly-Si/SiO <sub>2</sub> multi-layers. Optical Materials, 2005, 27, 787-791.	3.6	11
41	Ray Model of an Incident Gaussian Beam for Analyzing a Micro-Optical Communication Device with a GRIN Lens System. Optical Review, 2005, 12, 233-236.	2.0	9
42	Transmittance Characteristics of Buckled Fabry-Perot Tunable Filter with Membrane Structure. Optical Review, 2005, 12, 472-475.	2.0	0
43	NSOM-based characterization method applicable to optical channel waveguide with a solid-state cladding. IEEE Photonics Technology Letters, 2005, 17, 846-848.	2.5	6
44	Fabrication and surface treatment of silicon mold for polymer microarray. Surface and Coatings Technology, 2004, 188-189, 452-458.	4.8	11
45	A Nonunitary Transfer Matrix Method for Practical Analysis of Racetrack Microresonator Waveguide. IEEE Photonics Technology Letters, 2004, 16, 1086-1088.	2.5	9
46	Self-imaging phenomena in multi-mode photonic crystal line-defect waveguides: application to wavelength de-multiplexing. Optics Express, 2004, 12, 5625.	3.4	78
47	Effect of time-varying axial magnetic field on high aspect ratio contact hole etching. Thin Solid Films, 2003, 435, 247-251.	1.8	1
48	Vapor sensor realized in an ultracompact polarization interferometer built of a freestanding porous-silicon form birefringent film. IEEE Photonics Technology Letters, 2003, 15, 834-836.	2.5	13
49	Design and fabrication of a significantly shortened multimode interference coupler for polarization splitter application. IEEE Photonics Technology Letters, 2003, 15, 72-74.	2.5	118
50	Design and fabrication of polarization-insensitive hybrid solgel arrayed waveguide gratings. Optics Letters, 2003, 28, 381.	3.3	10
51	Novel design concept of waveguide mode adapter for low-loss mode conversion. IEEE Photonics Technology Letters, 2001, 13, 675-677.	2.5	20
52	Effect of time-varying axial magnetic field on photoresist ashing in an inductively coupled plasma. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2001, 19, 1841.	1.6	8
53	Superfluid and normal-fluid densities in the high-T <sub>c</sub> superconductors. Physica C: Superconductivity and Its Applications, 2000, 341-348, 2193-2196.	1.2	7
54	Improved etching characteristics of silicon-dioxide by enhanced inductively coupled plasma. Surface and Coatings Technology, 2000, 133-134, 589-592.	4.8	4

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55	Doping-induced change of optical properties in underdoped cuprate superconductors. Journal of Physics Condensed Matter, 1999, 11, 239-264.	1.8	63
56	Improvement of linewidth enhancement factor in 1.55- $\mu$ m multiple-quantum-well laser diodes. IEEE Photonics Technology Letters, 1998, 10, 645-647.	2.5	10
57	Fabrication of sidelobe-suppressed InP-InGaAsP vertical coupler optical filter using pair grating structure. IEEE Photonics Technology Letters, 1998, 10, 1593-1595.	2.5	5
58	Cavity length dependence of high-speed 1.55- $\mu$ m multiple-quantum-well laser diode characteristics. IEEE Photonics Technology Letters, 1997, 9, 164-166.	2.5	3
59	Spin dynamics in the $\text{Nd}_{2-x}\text{Ce}_x\text{CuO}_4$ system: Estimation of the rate of spin fluctuations. Physical Review B, 1996, 54, 16254-16258.	3.2	3
60	Sign change of Hall coefficients for amorphous $\text{Ni}_{0.80-x}\text{Cr}_x\text{P}_{0.20}$ alloys. Physical Review B, 1994, 49, 12688-12694.	3.2	1
61	The role of oxygen in the electron-doped superconducting system $\text{Nd}_{2-x}\text{Ce}_x\text{CuO}_4$ . Hyperfine Interactions, 1994, 93, 1721-1726.	0.5	5
62	Normal-state anisotropic resistivity of $\text{Nd}_{2-x}\text{Ce}_x\text{CuO}_4$ : Evidence for scattering by anisotropic spin fluctuations. Physical Review B, 1993, 47, 8373-8376.	3.2	36
63	Superparamagnetic behavior in $\text{Nd}_{2-x}\text{Ce}_x\text{Cu}(\text{57Co})\text{O}_4$ . Physical Review Letters, 1993, 70, 3355-3358.	7.8	36
64	Side-jump effect in paramagnetic amorphous metals. Physical Review B, 1993, 48, 5973-5982.	3.2	12
65	Improved etching technique of E-ICP (Enhanced Inductively Coupled Plasma). , 0, , .		0
66	A novel design of waveguide adaptor for low loss mode conversion. , 0, , .		0
67	Novel design of polarization splitter based on a quasi-state multimode interference coupler. , 0, , .		4
68	Polarization-insensitive design and fabrication of hybrid sol-gel arrayed waveguide gratings. , 0, , .		1