Beom-Hoan O

List of Publications by Year
in descending order

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68	689	759233	580821
papers	citations	12 h-index	25 g-index

68	68	68	666
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	Self-imaging phenomena in multi-mode photonic crystal line-defect waveguides: application to wavelength de-multiplexing. Optics Express, 2004, 12, 5625.	3.4	78
3	Doping-induced change of optical properties in underdoped cuprate superconductors. Journal of Physics Condensed Matter, 1999, 11, 239-264.	1.8	63
4	Enhancement of electroluminescence in GaN-based light-emitting diodes by metallic nanoparticles. Applied Physics Letters, 2010, 96, .	3.3	38
5	Normal-state anisotropic resistivity ofNd2â^'xCexCuO4â^'y: Evidence for scattering by anisotropic spin fluctuations. Physical Review B, 1993, 47, 8373-8376.	3.2	36
6	Superparamagnetic behavior inNd2â^'xCexCu(57Co)O4. Physical Review Letters, 1993, 70, 3355-3358.	7.8	36
7	Novel fabrication of various size ZnO nanorods using hydrothermal method. Microelectronic Engineering, 2010, 87, 1534-1536.	2.4	27
8	Novel design concept of waveguide mode adapter for low-loss mode conversion. IEEE Photonics Technology Letters, 2001, 13, 675-677.	2.5	20
9	Lift-off patterning of Ag nanowire/PEDOT:PSS composite films for transparent electrodes using a fluoropolymer structure. Thin Solid Films, 2015, 587, 100-105.	1.8	18
10	Drude Model for the Optical Properties of a Nano-Scale Thin Metal Film Revisted. Journal of the Korean Physical Society, 2009, 55, 2552-2555.	0.7	18
11	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
12	Side-jump effect in paramagnetic amorphous metals. Physical Review B, 1993, 48, 5973-5982.	3.2	12
13	Fabrication of novel double microlens using two step soft lithography. Microelectronic Engineering, 2010, 87, 1033-1036.	2.4	12
14	Fabrication and surface treatment of silicon mold for polymer microarray. Surface and Coatings Technology, 2004, 188-189, 452-458.	4.8	11
15	Wavelength tunable thermo-optic filter using buckling effect of etalon composed poly-Si/SiO2 multi-layers. Optical Materials, 2005, 27, 787-791.	3.6	11
16	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
17	Improvement of linewidth enhancement factor in 1.55-Î¼m multiple-quantum-well laser diodes. IEEE Photonics Technology Letters, 1998, 10, 645-647.	2.5	10
18	Design and fabrication of polarization-insensitive hybrid solgel arrayed waveguide gratings. Optics Letters, 2003, 28, 381.	3.3	10

#	Article	IF	Citations
19	Laterally grown ZnO nanorod arrays on an obliquely deposited seed layer and its UV photocurrent response. Microelectronic Engineering, 2012, 97, 130-133.	2.4	10
20	A Nonunitary Transfer Matrix Method for Practical Analysis of Racetrack Microresonator Waveguide. IEEE Photonics Technology Letters, 2004, 16, 1086-1088.	2.5	9
21	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
22	Preparation of fluoropolymer structures for orthogonal processing of diverse material by Micro-Contact Printing. Microelectronic Engineering, 2014, 123, 33-37.	2.4	9
23	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
24	Antireflective silicon subwavelength structure formed by self-aggregated gold nano particle as a catalyst. Microelectronic Engineering, 2011, 88, 2597-2600.	2.4	8
25	Superfluid and normal-fluid densities in the high-Tc superconductors. Physica C: Superconductivity and Its Applications, 2000, 341-348, 2193-2196.	1.2	7
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	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
28	The role of oxygen in the electron-doped superconducting system Nd2â^'x Ce x CuO4. Hyperfine Interactions, 1994, 93, 1721-1726.	0.5	5
29	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
30	Design and characterization of an out-of-plane polymer waveguide grating coupler. , 2007, , .		5
31	Novel elastic scattering model for the understanding of the Anomalous transmittance for Au nanoparticle layer. Optics Express, 2010, 18, 13418.	3.4	5
32	Optimized process of metal assisted silicon wet etching for antireflection layer. Microelectronic Engineering, 2012, 98, 395-399.	2.4	5
33	Near-Field Imaging of Cell Membranes in Liquid Enabled by Active Scanning Probe Mechanical Resonance Control. Journal of Physical Chemistry C, 2016, 120, 21138-21144.	3.1	5
34	Improved etching characteristics of silicon-dioxide by enhanced inductively coupled plasma. Surface and Coatings Technology, 2000, 133-134, 589-592.	4.8	4
35	Novel design of polarization splitter based on a quasi-state multimode interference coupler. , 0, , .		4
36	Novel fabrication of a curved micro-mirror for optical interconnection. Microelectronic Engineering, 2006, 83, 1343-1346.	2.4	4

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37	Spin dynamics in theNd2â^'xCexCuO4system: Estimation of the rate of spin fluctuations. Physical Review B, 1996, 54, 16254-16258.	3.2	3
38	Cavity length dependence of high-speed 1.55-Î¼m multiple-quantum-well laser diode characteristics. IEEE Photonics Technology Letters, 1997, 9, 164-166.	2.5	3
39	Durability of nitrided fluorocarbon polymer films for nanoimprint lithography. Thin Solid Films, 2011, 519, 5490-5493.	1.8	3
40	Combined soft lithographic transferâ€printing and patterning method of highly fluorinated polymers as a facile surface treatment protocol. Journal of Applied Polymer Science, 2017, 134, 45184.	2.6	3
41	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
42	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
43	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. Journal of the Optical Society of Korea, 2011, 15, 9-14.	0.6	2
44	Lift-off patterning of multi-walled carbon nanotube and PEDOT:PSS composite films with fluorinated polymer templates. Microelectronic Engineering, 2015, 145, 160-165.	2.4	2
45	Sign change of Hall coefficients for amorphousNi0.80â^'xCrxP0.20alloys. Physical Review B, 1994, 49, 12688-12694.	3.2	1
46	Polarization-insensitive design and fabrication of hybrid sol-gel arrayed waveguide gratings. , 0, , .		1
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	Fabrication of a polymeric photonic crystal wavelength splitter using ultra violet embossing technology. Microelectronic Engineering, 2007, 84, 994-998.	2.4	1
49	Electro-optic modulator meditated by metal-insulator-metal plasmonic waveguides. , 2009, , .		1
50	Noise-robust Phase Gradient Retrieval Formulation for Phase-shifting Interferometry. Journal of the Optical Society of Korea, 2010, 14, 131-136.	0.6	1
51	Fabrication of tapered waveguide by ashed photoresist. Microelectronic Engineering, 2011, 88, 2721-2724.	2.4	1
52	Existence of a stable resonance zone with nearly unchanging vibration characteristics for a near-field scanning optical microscope probe dipped partially into a liquid. Journal of the Korean Physical Society, 2014, 64, 366-370.	0.7	1
53	Simple thermal diverging model of the thin epitaxial layer of InP laser diodes. Journal of the Korean Physical Society, 2015, 67, 1175-1178.	0.7	1
54	Optimal Design and Analysis of the Multi-Mode Interference Based Photonic Crystal Demultiplexer. , 2007, , .		1

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55	Symmetric nonconfocal Fabryâ€“Perot cavity with a stable long optical path length and improved tolerance for angular alignment. Optical Engineering, 2022, 60, .	1.0	1
56	Improved etching technique of E-ICP (Enhanced Inductively Coupled Plasma). , 0, , .		0
57	A novel design of waveguide adaptor for low loss mode conversion. , 0, , .		0
58	Transmittance Characteristics of Buckled Fabry–Perot Tunable Filter with Membrane Structure. Optical Review, 2005, 12, 472-475.	2.0	0
59	Photonic Crystal Electro-Optic Modulator Incorporating Hybrid Silicon/Polymer Material. , 2007, , .		0
60	Residual Layer Distribution on Embossing Process for Photonic Devices. , 2007, , .		0
61	Design of a silicon optical modulator using photonic crystal Mach-Zehnder interferometer. , 2007, , .		0
62	Design and Fabrication of a Polymer Optical Bench for VCSEL array by UV Embossing. , 2007, , .		0
63	Design of Photonic Crystal-Based THz Devices: Power Splitter and Demultiplexer. , 2007, , .		0
64	Design of mask grating for obtaining the effect of an off-axis illumination in optical lithography. , 2007, , .		0
65	Fabrication of vertical optical interconnecting structure using photoresist reflowed mold structures. Microelectronic Engineering, 2007, 84, 1092-1095.	2.4	0
66	Enhanced coupling efficiency into photonic crystal waveguides using modification of inlet holes. , 2010, , .		0
67	VLSI Photonics: How Can We Approach Using Micro/Nano-Materials?. Molecular Crystals and Liquid Crystals, 2010, 522, 159/[459]-171/[471].	0.9	0
68	Analysis of ZnO nanorod growth from inclined columnar seed layer. Microelectronic Engineering, 2013, 110, 446-449.	2.4	0