

Lei Bi

List of Publications by Year in descending order

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85
papers

3,189
citations

172457

29
h-index

161849

54
g-index

87
all docs

87
docs citations

87
times ranked

4330
citing authors

#	ARTICLE	IF	CITATIONS
1	On-chip optical isolation in monolithically integrated non-reciprocal optical resonators. Nature Photonics, 2011, 5, 758-762.	31.4	766
2	Ultrafast charge transfer in MoS ₂ /WSe ₂ Heterojunction. 2D Materials, 2016, 3, 025020.	4.4	179
3	Structural, magnetic, and optical properties of BiFeO ₃ . Physical Review B, 2008, 78, 041101.	3.2	158
4	Monolithic integration of broadband optical isolators for polarization-diverse silicon photonics. Optica, 2019, 6, 473.	9.3	132
5	Fatigue mechanism of yttrium-doped hafnium oxide ferroelectric thin films fabricated by pulsed laser deposition. Physical Chemistry Chemical Physics, 2017, 19, 3486-3497.	2.8	84
6	Magneto-Optical Thin Films for On-Chip Monolithic Integration of Non-Reciprocal Photonic Devices. Materials, 2013, 6, 5094-5117.	2.9	82
7	Biochemical sensing in graphene-enhanced microfiber resonators with individual molecule sensitivity and selectivity. Light: Science and Applications, 2019, 8, 107.	16.6	70
8	Waveguide-integrated high-performance magneto-optical isolators and circulators on silicon nitride platforms. Optica, 2020, 7, 1555.	9.3	66
9	The magnetic proximity effect and electrical field tunable valley degeneracy in MoS ₂ /EuS van der Waals heterojunctions. Nanoscale, 2017, 9, 9502-9509.	5.6	64
10	Spin-Valley Locking Effect in Defect States of Monolayer MoS ₂ . Nano Letters, 2020, 20, 2129-2136.	9.1	61
11	Photonic amorphous topological insulator. Light: Science and Applications, 2020, 9, 133.	16.6	58
12	Switching the Optical Chirality in Magnetoplasmonic Metasurfaces Using Applied Magnetic Fields. ACS Nano, 2020, 14, 2808-2816.	14.6	57
13	Monolithic On-chip Magneto-optical Isolator with 3 dB Insertion Loss and 40 dB Isolation Ratio. ACS Photonics, 2018, 5, 5010-5016.	6.6	52
14	Observation of an unpaired photonic Dirac point. Nature Communications, 2020, 11, 1873.	12.8	51
15	Ultrahigh Figure-of-Merit in Metal-Insulator-Metal Magnetoplasmonic Sensors Using Low Loss Magneto-optical Oxide Thin Films. ACS Photonics, 2017, 4, 1403-1412.	6.6	45
16	Recent advances in development of magnetic garnet thin films for applications in spintronics and photonics. Journal of Alloys and Compounds, 2021, 860, 158235.	5.5	45
17	Structure, magnetic properties and magnetoelastic anisotropy in epitaxial Sr(Ti _{1-x} Co _x)O ₃ films. New Journal of Physics, 2010, 12, 043044.	2.9	44
18	Magneto-optical Goos-Hänchen effect in a prism-waveguide coupling structure. Optics Express, 2014, 22, 27042.	3.4	42

#	ARTICLE	IF	CITATIONS
19	Electrically Tunable Four-Wave-Mixing in Graphene Heterogeneous Fiber for Individual Gas Molecule Detection. Nano Letters, 2020, 20, 6473-6480.	9.1	42
20	Proximity-Induced Magnetic Order in a Transferred Topological Insulator Thin Film on a Magnetic Insulator. ACS Nano, 2018, 12, 5042-5050.	14.6	41
21	HfO ₂ -Based Highly Stable Radiation-Immune Ferroelectric Memory. IEEE Electron Device Letters, 2017, 38, 330-333.	3.9	39
22	Observation of nonreciprocal magnetophonon effect in nonencapsulated few-layered CrI ₃ . Science Advances, 2020, 6, .	10.3	37
23	Influence of Interface Structure on Magnetic Proximity Effect in Pt/Y ₃ Fe ₅ O ₁₂ Heterostructures. ACS Applied Materials & Interfaces, 2016, 8, 8175-8183.	8.0	36
24	Structural, magnetic, and magneto-optical properties of Co-doped CeO ₂ films. Journal of Applied Physics, 2008, 103, 07D138.	2.5	35
25	Enhanced magneto-optical effect in Y _{1.5} Ce _{1.5} Fe ₅ O ₁₂ thin films deposited on silicon by pulsed laser deposition. Journal of Alloys and Compounds, 2017, 703, 591-599.	5.5	35
26	Valley Polarization of Trions and Magnetoresistance in Heterostructures of MoS ₂ and Yttrium Iron Garnet. ACS Nano, 2017, 11, 12257-12265.	14.6	35
27	Nanophotonic devices based on magneto-optical materials: recent developments and applications. Nanophotonics, 2022, 11, 2639-2659.	6.0	35
28	Broadband thermal tunable infrared absorber based on the coupling between standing wave and magnetic resonance. Optical Materials Express, 2017, 7, 2767.	3.0	33
29	Controlling the magnetic anisotropy in epitaxial Y ₃ Fe ₅ O ₁₂ films	3.2	31
30	Dysprosium substituted Ce:YIG thin films with perpendicular magnetic anisotropy for silicon integrated optical isolator applications. APL Materials, 2019, 7, .	5.1	30
31	Broadband switching of mid-infrared atmospheric windows by VO ₂ -based thermal emitter. Optics Express, 2019, 27, 11537.	3.4	30
32	Self-Assembled Single-Phase Perovskite Nanocomposite Thin Films. Nano Letters, 2010, 10, 597-602.	9.1	29
33	Spin wave propagation in ultrathin magnetic insulators with perpendicular magnetic anisotropy. Applied Physics Letters, 2019, 114, .	3.3	29
34	Enhanced Second Harmonic Generation from Ferroelectric HfO ₂ -Based Hybrid Metasurfaces. ACS Nano, 2019, 13, 1213-1222.	14.6	29
35	Proton Radiation Effects on Y-Doped HfO ₂ -Based Ferroelectric Memory. IEEE Electron Device Letters, 2018, 39, 823-826.	3.9	28
36	Large-scale, power-efficient Au/VO ₂ active metasurfaces for ultrafast optical modulation. Nanophotonics, 2020, 10, 909-918.	6.0	28

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37	First principles calculation on the magnetic, optical properties and oxygen vacancy effect of $Ce_xY_{3-x}Fe_5O_{12}$. Applied Physics Letters, 2015, 106, .	3.3	27
38	Layer dependence of stacking order in nonencapsulated few-layer CrI_3 . Science China Materials, 2020, 63, 413-420.	6.3	27
39	Monolithic integration of chalcogenide glass/iron garnet waveguides and resonators for on-chip nonreciprocal photonic devices. Proceedings of SPIE, 2011, , .	0.8	26
40	Effect of oxygen stoichiometry on the structure, optical and epsilon-near-zero properties of indium tin oxide films. Optics Express, 2019, 27, 28618.	3.4	26
41	Study of the phase evolution, metal-insulator transition, and optical properties of vanadium oxide thin films. Optical Materials Express, 2016, 6, 3609.	3.0	24
42	Enhanced Faraday rotation and magneto-optical figure of merit in gold grating/graphene/silicon hybrid magneto-plasmonic devices. APL Photonics, 2018, 3, .	5.7	22
43	Observation of optical gyromagnetic properties in a magneto-plasmonic metamaterial. Nature Communications, 2022, 13, 1719.	12.8	22
44	Weak measurement of magneto-optical Goos-Hänchen effect. Optics Express, 2019, 27, 17638.	3.4	21
45	Weak measurement of the magneto-optical spin Hall effect of light. Photonics Research, 2019, 7, 1014.	7.0	21
46	Highly sensitive sensors based on magneto-optical surface plasmon resonance in Ag/CeYIG heterostructures. AIP Advances, 2015, 5, .	1.3	20
47	Enhancement of the Faraday Effect and Magneto-optical Figure of Merit in All-Dielectric Metasurfaces. ACS Photonics, 2022, 9, 1240-1247.	6.6	18
48	Optical characterization of $Y_3Al_5O_{12}$ and $Lu_3Al_5O_{12}$ single crystals. Optical Materials Express, 2021, 11, 1218.	3.0	16
49	Growth of Phase Pure Yttrium Iron Garnet Thin Films on Silicon: The Effect of Substrate and Postdeposition Annealing Temperatures. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	15
50	Ultra-sensitive nanometric flat laser prints for binocular stereoscopic image. Nature Communications, 2021, 12, 1154.	12.8	15
51	Orientation control and self-assembled nanopyramid structure of $LaFeO_3$ films epitaxially grown on $SrTiO_3(001)$ substrates. Applied Physics Letters, 2009, 95, 121908.	3.3	14
52	The Effect of A-Site Substitution of Ce and La on the Magnetic and Electronic Properties of $Sr(Ti_{0.6}Fe_{0.4})O_{3-\delta}$ Films. Inorganic Chemistry, 2012, 51, 13245-13253.	4.0	14
53	Design of a compact waveguide optical isolator based on multimode interferometers using magneto-optical oxide thin films grown on silicon-on-insulator substrates. Optics Express, 2016, 24, 12856.	3.4	13
54	Short-Wavelength Spin Waves in Yttrium Iron Garnet Micro-Channels on Silicon. IEEE Magnetics Letters, 2016, 7, 1-4.	1.1	13

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55	Circular Displacement Current Induced Anomalous Magneto-Optical Effects in High Index Mie Resonators. <i>Laser and Photonics Reviews</i> , 2022, 16, .	8.7	13
56	Strain tunable magnetic properties of 3d transition-metal ion doped monolayer MoS ₂ : A first-principles study. <i>AIP Advances</i> , 2018, 8, 055917.	1.3	12
57	Magnetic Proximity Effect and Anomalous Hall Effect in $\text{Pt}/\text{Y}_3\text{Fe}_5\text{O}_{12}$ Hybrid Meta-Atoms. <i>Physical Review Applied</i> , 2018, 10, .	3.8	12
58	Mid-infrared active metasurface based on Si ₃ N ₄ /VO ₂ hybrid meta-atoms. <i>Photonics Research</i> , 2022, 10, 373.	7.0	12
59	Fabrication and characterization of As ₂ S ₃ /Y ₃ Fe ₅ O ₁₂ and Y ₃ Fe ₅ O ₁₂ /SOI strip-loaded waveguides for integrated optical isolator applications. , 2010, , .		11
60	Enhancement of the magneto-optical performance of Sr(Ti _{0.6} ^x GaxFe _{0.4})O ₃ perovskite films by Ga substitution. <i>Applied Physics Letters</i> , 2011, 98, 231909.	3.3	10
61	Nickel-induced enhancement of photoluminescence from Si-rich silica films. <i>Applied Physics Letters</i> , 2006, 88, 031905.	3.3	9
62	High-frequency magnetic properties of [FeCo/FeCo-SiO ₂] _n multilayered films deposited on flexible substrate. <i>Journal of Applied Physics</i> , 2015, 117, 17C110.	2.5	9
63	Bose-Einstein oscillators and the excitation mechanism of free excitons in 2D layered organic-inorganic perovskites. <i>RSC Advances</i> , 2017, 7, 18366-18373.	3.6	9
64	Active macroscale visible plasmonic nanorod self-assembled monolayer. <i>Photonics Research</i> , 2018, 6, 409.	7.0	9
65	Magnetic-brightening and control of dark exciton in CsPbBr ₃ perovskite. <i>Science China Materials</i> , 2020, 63, 1503-1509.	6.3	8
66	On-Chip Nonreciprocal Photonic Devices Based on Hybrid Integration of Magneto-Optical Garnet Thin Films on Silicon. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2022, 28, 1-15.	2.9	7
67	Single-Photon Nonreciprocity with an Integrated Magneto-Optical Isolator. <i>Laser and Photonics Reviews</i> , 2022, 16, .	8.7	7
68	Materials for nonreciprocal photonics. <i>MRS Bulletin</i> , 2018, 43, 408-412.	3.5	6
69	The 50 nm-thick yttrium iron garnet films with perpendicular magnetic anisotropy. <i>Chinese Physics B</i> , 2022, 31, 048503.	1.4	6
70	Enhanced chiral sensing in achiral nanostructures with linearly polarized light. <i>Optics Express</i> , 2022, 30, 26306.	3.4	6
71	Spectral origins of high Faraday rotation at 1.5- μ m wavelength from Fe and Co in SrTiO ₃ films. <i>Journal of Applied Physics</i> , 2011, 109, 07B761.	2.5	5
72	Silicon-Based All-Dielectric Metasurface on an Iron Garnet Film for Efficient Magneto-Optical Light Modulation in Near IR Range. <i>Nanomaterials</i> , 2021, 11, 2926.	4.1	5

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73	Imbert-Fedorov Effect in Kretschmann Configuration with Anisotropic Metamaterial. Plasmonics, 2018, 13, 1425-1432.	3.4	4
74	Dysprosium Substituted Ce:YIG Thin Films for Temperature Insensitive Integrated Optical Isolator Applications. Materials, 2022, 15, 1691.	2.9	4
75	Magneto-Optical Imbert-Fedorov Effect in Prism Coupling Configuration. IEEE Photonics Journal, 2017, 9, 1-7.	2.0	3
76	Compositional dependence of Young's moduli for amorphous FeCoSiO ₂ thin films. Journal of Applied Physics, 2011, 109, 07A929.	2.5	2
77	Generic model of superexchange effects in magnetoelastic oxides. Journal of Applied Physics, 2013, 113, 17A927.	2.5	2
78	Silicon integrated nonreciprocal photonic devices using monolithically integrated magnetic oxides. , 2016, , .		1
79	Magneto-optical enhancement in highly Poly-crystallized Ce substituted YIG thin films by PLD. , 2016, , .		1
80	Graphene enhanced intra-resonator biochemical detection with individual molecule sensitivity and selectivity. , 2019, , .		1
81	Design for a TE Mode Magneto-Optical Circulator Based on Asymmetric Silicon Slot Waveguides. , 2021, , .		1
82	Modern Magnetophotonic Materials and their Applications: introduction to special issue. Optical Materials Express, 2022, 12, 2087.	3.0	1
83	On-chip Integrated Magneto-Optical Nonreciprocal Photonic Devices. , 2021, , .		0
84	Waveguide Integrated Magneto-Optical Isolators on Silicon Nitride Platforms. , 2020, , .		0
85	A Reconfigurable All-Dielectric Metasurface Based on Vanadium Dioxide for Independent Control of the Mie Resonances. , 2020, , .		0