

Ben Lawrie

List of Publications by Year in descending order

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Version: 2024-02-01

94
papers

1,717
citations

331642

21
h-index

289230

40
g-index

96
all docs

96
docs citations

96
times ranked

1929
citing authors

#	ARTICLE	IF	CITATIONS
19	Engineering Edge States of Graphene Nanoribbons for Narrow-Band Photoluminescence. ACS Nano, 2020, 14, 5090-5098.	14.6	27
20	Colossal photon bunching in quasiparticle-mediated nanodiamond cathodoluminescence. Physical Review B, 2018, 97, .	3.2	26
21	Spatially and spectrally resolved orbital angular momentum interactions in plasmonic vortex generators. Light: Science and Applications, 2019, 8, 33.	16.6	25
22	Coupling of photoluminescent centers in ZnO to localized and propagating surface plasmons. Thin Solid Films, 2010, 518, 4637-4643.	1.8	21
23	Ultrafast Plasmonic Control of Second Harmonic Generation. ACS Photonics, 2016, 3, 1477-1481.	6.6	21
24	Correlated oxide Dirac semimetal in the extreme quantum limit. Science Advances, 2021, 7, eabf9631.	10.3	19
25	Two-Party secret key distribution via a modified quantum secret sharing protocol. Optics Express, 2015, 23, 7300.	3.4	18
26	Evidence of photochromism in a hexagonal boron nitride single-photon emitter. Optica, 2021, 8, 1.	9.3	18
27	Antibunching dynamics of plasmonically mediated entanglement generation. Physical Review A, 2017, 96, .	2.5	17
28	Adsorption-controlled growth of MnTe by molecular beam epitaxy exhibiting stoichiometry-controlled magnetism. Physical Review Materials, 2020, 4, .	2.4	15
29	Robust and compact entanglement generation from diode-laser-pumped four-wave mixing. Applied Physics Letters, 2016, 108, 151107.	3.3	14
30	Advanced architectures for high-performance quantum networking. Journal of Optical Communications and Networking, 2022, 14, 493.	4.8	14
31	Polarization- and wavelength-resolved near-field imaging of complex plasmonic modes in Archimedean nanospirals. Optics Letters, 2018, 43, 927.	3.3	13
32	Selective Purcell enhancement of defect emission in ZnO thin films. Optics Letters, 2012, 37, 1538.	3.3	10
33	Near-field imaging of plasmonic nanopatch antennas with integrated semiconductor quantum dots. APL Photonics, 2021, 6, .	5.7	10
34	Novel Iron-based ternary amorphous oxide semiconductor with very high transparency, electronic conductivity and mobility. Scientific Reports, 2015, 5, 18157.	3.3	9
35	Broadband Plasmonic Photocurrent Enhancement from Photosystem I Assembled with Tailored Arrays of Au and Ag Nanodisks. ACS Applied Nano Materials, 2021, 4, 1209-1219.	5.0	9
36	Squeezing Noise in Microscopy with Quantum Light. Trends in Chemistry, 2020, 2, 683-686.	8.5	8

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37	Extremely large magnetoresistance in high-mobility $\text{SrNbO}_3/\text{SrTiO}_3$ heterostructures. <i>Physical Review B</i> , 2021, 104, .		8
38	Cobalt stabilization of silver extraordinary optical transmission sensing platforms. <i>Applied Physics Letters</i> , 2016, 108, 043101.	3.3	6
39	Optical vortex manipulation for topological quantum computation. <i>Physical Review B</i> , 2021, 104, .	3.2	6
40	Design and Realization of Ohmic and Schottky Interfaces for Oxide Electronics. <i>Small Science</i> , 2022, 2, 2100087.	9.9	6
41	Plasmonic Control of Near-Interface Exciton Dynamics in Defect-Rich ZnO Thin Films. <i>Plasmonics</i> , 2013, 8, 693-697.	3.4	5
42	Coherence area profiling in multi-spatial-mode squeezed states. <i>Journal of Modern Optics</i> , 2016, 63, 989-994.	1.3	5
43	Mesoscale interplay between phonons and crystal electric field excitations in quantum spin liquid candidate CsYbSe_2 . <i>Journal of Materials Chemistry C</i> , 2022, 10, 4148-4156.	5.5	5
44	Coupling dynamics between photoluminescent centers in ZnO and surface plasmons. , 2009, , .		4
45	Waveform analysis of a large-area superconducting nanowire single photon detector. <i>Superconductor Science and Technology</i> , 2021, 34, 035020.	3.5	4
46	Unveiling Complex Plasmonic Resonances in Archimedean Nanospirals through Cathodoluminescence in a Scanning Transmission Electron Microscope. <i>Microscopy and Microanalysis</i> , 2016, 22, 266-267.	0.4	3
47	Self-regulated growth of candidate topological superconducting parkerite by molecular beam epitaxy. <i>APL Materials</i> , 2021, 9, 101110.	5.1	3
48	Magneto-Optical Sensing Beyond the Shot Noise Limit. <i>Advanced Quantum Technologies</i> , 0, , 2100107.	3.9	3
49	Substrate dependence of Purcell enhancement in ZnO-Ag multilayers. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011, 8, 159-162.	0.8	2
50	Quantum Secret Sharing with Phase-Encoded Photons. , 2014, , .		2
51	Compressed sensing for scanning tunnel microscopy imaging of defects and disorder. <i>Physical Review Research</i> , 2021, 3, .	3.6	2
52	Magnetostriction of RuCl_3 Flakes in the Zigzag Phase. <i>Journal of Physical Chemistry C</i> , 2021, 125, 25687-25694.	3.1	2
53	Visualizing Electric and Magnetic Field Coupling in Au-Nanorod Trimer Structures via Stimulated Electron Energy Gain and Cathodoluminescence Spectroscopy: Implications for Meta-Atom Imaging. <i>ACS Applied Nano Materials</i> , 0, , .	5.0	2
54	Surface-Driven Evolution of the Anomalous Hall Effect in Magnetic Topological Insulator MnBi_2Te_4 Thin Films. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	2

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55	Publisher's Note: Antibunching dynamics of plasmonically mediated entanglement generation [Phys. Rev. A 96, 053826 (2017)]. Physical Review A, 2017, 96, .	2.5	1
56	In situ electron-beam processing and cathodoluminescence microscopy for quantum nanophotonics. , 2021, , .		1
57	Multifunctional Superconducting Nanowire Quantum Sensors. Physical Review Applied, 2021, 16, .	3.8	1
58	Resonant plasmon-exciton coupling in zinc oxide quantum well-aluminum nanodisc heterostructure arrays. , 2011, , .		0
59	Ultrafast observation of weak coupling effects in ZnO-Ag heterostructures. , 2011, , .		0
60	Exploring exciton-plasmon coupling in laser- and electron-beam-fabricated nanostructures. , 2012, , .		0
61	Ultrafast Surface-Plasmon Enhancement of Exciton and Defect Luminescence in ZnO Thin Films. EPJ Web of Conferences, 2013, 41, 04016.	0.3	0
62	Quantum Model of Plasmon-Quantum Emitter Interaction in the Strong-Coupling Regime. , 2015, , .		0
63	Secret key generation via a modified quantum secret sharing protocol. Proceedings of SPIE, 2015, , .	0.8	0
64	Observing Nanoscale Orbital Angular Momentum in Plasmon Vortices with Cathodoluminescence. Microscopy and Microanalysis, 2017, 23, 1694-1695.	0.4	0
65	Near-Field Mid-Infrared Plasmonics in Complex Nanostructures with Monochromated Electron Energy Loss Spectroscopy. Microscopy and Microanalysis, 2017, 23, 1532-1533.	0.4	0
66	Cathodoluminescence Microscopies of Color Centers in Bulk and 2D Materials. Microscopy and Microanalysis, 2020, 26, 3028-3028.	0.4	0
67	Free-space confocal magneto-optical spectroscopies at milliKelvin temperatures. , 2021, , .		0
68	Real Time Quantum Imaging via Compressed Sensing. , 2012, , .		0
69	Multi-mode Squeezed Light Transduction via Localized Surface Plasmons. , 2012, , .		0
70	Real Time Quantum Imaging via Compressed Sensing. , 2012, , .		0
71	Transduction and Control of Squeezed Light Sources by Localized and Propagating Surface Plasmons. , 2013, , .		0
72	Ultrasensitive measurement of MEMS cantilever displacement below the photon shot noise limit. , 2014, , .		0

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73	Coherence Area Profiling in Multi-Spatial-Mode Squeezed States. , 2014, , .		0
74	Quantum Nonlinear Plasmonics in the Strong Coupling Regime. , 2015, , .		0
75	Ultrasensitive Quantum Plasmonic Sensing. , 2015, , .		0
76	Nonlinear optical magnetometry with accessible in situ optical squeezing. , 2015, , .		0
77	Novel Iron-Based Amorphous Transparent Conducting Oxide. , 2016, , .		0
78	Plasmonic Sensing with Quantum Noise. , 2016, , .		0
79	Ultrasensitive Plasmonic Sensing below the Shot Noise Limit. , 2016, , .		0
80	Nonlinear Interferometric Plasmonic Sensing. , 2016, , .		0
81	Plasmonic sensing beyond the shot noise limit. , 2017, , .		0
82	Quantum computing over the optical spatial mode comb with cluster states. , 2017, , .		0
83	Nano-chirality detection with vortex plasmon modes. , 2017, , .		0
84	Transduction of Entangled Images by Localized Surface Plasmons. , 2017, , .		0
85	Practical Quantum Sensing at Ultra Trace Levels with Squeezed States of Light. , 2017, , .		0
86	Colossal Bunching in Nanodiamond Cathodoluminescence. , 2017, , .		0
87	Colossal Photon Bunching Driven by Phonon Recombination Dynamics. , 2018, , .		0
88	Quantum-Enhanced Ultrasound Detection with Plasmonic Sensors. , 2018, , .		0
89	Plasmon-Mediated Entanglement Dynamics. , 2018, , .		0
90	Truncated nonlinear interferometric cantilever beam-displacement: accessible quantum sensing. , 2019, , .		0

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91	Phonon-induced multi-color correlations in hBN single-photon emitters. , 2019, , .		0
92	Single photon spectroscopy of excited state structure in hBN quantum emitters. , 2019, , .		0
93	Parallel Quantum Enhanced Plasmonic Sensing through Spatial Quantum Correlations. , 2019, , .		0
94	Remote State Preparation in a Reconfigurable Quantum Local Area Network. , 2021, , .		0