

Ben Lawrie

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

55
papers

1,016
citations

17
h-index

31
g-index

96
ext. papers

1,396
ext. citations

6.5
avg, IF

4.88
L-index

#	Paper	IF	Citations
55	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	7.1	0
54	Evidence of photochromism in a hexagonal boron nitride single-photon emitter. <i>Optica</i> , 2021 , 8, 1	8.6	8
53	Magnetostriction of RuCl ₃ Flakes in the Zigzag Phase. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 25687-25694	3.86	1
52	Near-field imaging of plasmonic nanopatch antennas with integrated semiconductor quantum dots. <i>APL Photonics</i> , 2021 , 6, 106103	5.2	2
51	Extremely large magnetoresistance in high-mobility SrNbO ₃ /SrTiO ₃ heterostructures. <i>Physical Review B</i> , 2021 , 104,	3.3	3
50	Reconfigurable Quantum Local Area Network Over Deployed Fiber. <i>PRX Quantum</i> , 2021 , 2,	6.1	9
49	Self-regulated growth of candidate topological superconducting parkerite by molecular beam epitaxy. <i>APL Materials</i> , 2021 , 9, 101110	5.7	0
48	Compressed sensing for scanning tunnel microscopy imaging of defects and disorder. <i>Physical Review Research</i> , 2021 , 3,	3.9	1
47	Quantum Plasmonic Sensors. <i>Chemical Reviews</i> , 2021 , 121, 4743-4804	68.1	16
46	Broadband Plasmonic Photocurrent Enhancement from Photosystem I Assembled with Tailored Arrays of Au and Ag Nanodisks. <i>ACS Applied Nano Materials</i> , 2021 , 4, 1209-1219	5.6	5
45	Waveform analysis of a large-area superconducting nanowire single photon detector. <i>Superconductor Science and Technology</i> , 2021 , 34, 035020	3.1	0
44	Correlated oxide Dirac semimetal in the extreme quantum limit. <i>Science Advances</i> , 2021 , 7, eabf9631	14.3	4
43	Observation of Unconventional Charge Density Wave without Acoustic Phonon Anomaly in Kagome Superconductors AV ₃ Sb ₅ (A=Rb, Cs). <i>Physical Review X</i> , 2021 , 11,	9.1	29
42	Truncated Nonlinear Interferometry for Quantum-Enhanced Atomic Force Microscopy. <i>Physical Review Letters</i> , 2020 , 124, 230504	7.4	12
41	Engineering Edge States of Graphene Nanoribbons for Narrow-Band Photoluminescence. <i>ACS Nano</i> , 2020 , 14, 5090-5098	16.7	12
40	Adsorption-controlled growth of MnTe(Bi ₂ Te ₃) _n by molecular beam epitaxy exhibiting stoichiometry-controlled magnetism. <i>Physical Review Materials</i> , 2020 , 4,	3.2	7
39	Squeezing Noise in Microscopy with Quantum Light. <i>Trends in Chemistry</i> , 2020 , 2, 683-686	14.8	3

38	Cathodoluminescence Microscopies of Color Centers in Bulk and 2D Materials. <i>Microscopy and Microanalysis</i> , 2020 , 26, 3028-3028	0.5	
37	Quantum Sensing with Squeezed Light. <i>ACS Photonics</i> , 2019 , 6, 1307-1318	6.3	51
36	Spatially and spectrally resolved orbital angular momentum interactions in plasmonic vortex generators. <i>Light: Science and Applications</i> , 2019 , 8, 33	16.7	15
35	Phonon-induced multicolor correlations in hBN single-photon emitters. <i>Physical Review B</i> , 2019 , 99,	3.3	23
34	Colossal photon bunching in quasiparticle-mediated nanodiamond cathodoluminescence. <i>Physical Review B</i> , 2018 , 97,	3.3	13
33	Quantum-enhanced plasmonic sensing. <i>Optica</i> , 2018 , 5, 628	8.6	57
32	Polarization- and wavelength-resolved near-field imaging of complex plasmonic modes in Archimedean nanospirals. <i>Optics Letters</i> , 2018 , 43, 927-930	3	8
31	Observing Nanoscale Orbital Angular Momentum in Plasmon Vortices with Cathodoluminescence. <i>Microscopy and Microanalysis</i> , 2017 , 23, 1694-1695	0.5	
30	Antibunching dynamics of plasmonically mediated entanglement generation. <i>Physical Review A</i> , 2017 , 96,	2.6	9
29	Near-Field Mid-Infrared Plasmonics in Complex Nanostructures with Monochromated Electron Energy Loss Spectroscopy. <i>Microscopy and Microanalysis</i> , 2017 , 23, 1532-1533	0.5	
28	Ultrafast Plasmonic Control of Second Harmonic Generation. <i>ACS Photonics</i> , 2016 , 3, 1477-1481	6.3	18
27	Bisphenol A Sensors on Polyimide Fabricated by Laser Direct Writing for Onsite River Water Monitoring at Attomolar Concentration. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 17784-92	9.5	76
26	Coherence area profiling in multi-spatial-mode squeezed states. <i>Journal of Modern Optics</i> , 2016 , 63, 989-994	1.9	5
25	Plasmonic Trace Sensing below the Photon Shot Noise Limit. <i>ACS Photonics</i> , 2016 , 3, 8-13	6.3	65
24	Toward quantum plasmonic networks. <i>Optica</i> , 2016 , 3, 985	8.6	34
23	Unveiling Complex Plasmonic Resonances in Archimedean Nanospirals through Cathodoluminescence in a Scanning Transmission Electron Microscope. <i>Microscopy and Microanalysis</i> , 2016 , 22, 266-267	0.5	3
22	Robust and compact entanglement generation from diode-laser-pumped four-wave mixing. <i>Applied Physics Letters</i> , 2016 , 108, 151107	3.4	11
21	Cobalt stabilization of silver extraordinary optical transmission sensing platforms. <i>Applied Physics Letters</i> , 2016 , 108, 043101	3.4	4

20	Zero-dimensional to three-dimensional nanojoining: current status and potential applications. <i>RSC Advances</i> , 2016 , 6, 75916-75936	3.7	29
19	Two-party secret key distribution via a modified quantum secret sharing protocol. <i>Optics Express</i> , 2015 , 23, 7300-11	3.3	12
18	Ultrasensitive measurement of microcantilever displacement below the shot-noise limit. <i>Optica</i> , 2015 , 2, 393	8.6	111
17	Quantum plasmonic sensing. <i>Physical Review A</i> , 2015 , 92,	2.6	50
16	Novel Iron-based ternary amorphous oxide semiconductor with very high transparency, electronic conductivity, and mobility. <i>Scientific Reports</i> , 2015 , 5, 18157	4.9	4
15	Quantum Secret Sharing with Phase-Encoded Photons 2014 ,		1
14	Nonlinear optical magnetometry with accessible in situ optical squeezing. <i>Optics Letters</i> , 2014 , 39, 6533-6		42
13	Plasmonic Control of Near-Interface Exciton Dynamics in Defect-Rich ZnO Thin Films. <i>Plasmonics</i> , 2013 , 8, 693-697	2.4	4
12	Extraordinary optical transmission of multimode quantum correlations via localized surface plasmons. <i>Physical Review Letters</i> , 2013 , 110, 156802	7.4	52
11	Toward real-time quantum imaging with a single pixel camera. <i>Optics Express</i> , 2013 , 21, 7549-59	3.3	26
10	Ultrafast Surface-Plasmon Enhancement of Exciton and Defect Luminescence in ZnO Thin Films. <i>EPJ Web of Conferences</i> , 2013 , 41, 04016	0.3	
9	Plasmon-exciton hybridization in ZnO quantum-well Al nanodisc heterostructures. <i>Nano Letters</i> , 2012 , 12, 6152-7	11.5	63
8	Selective Purcell enhancement of defect emission in ZnO thin films. <i>Optics Letters</i> , 2012 , 37, 1538-40	3	10
7	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		2
6	Coupling of photoluminescent centers in ZnO to localized and propagating surface plasmons. <i>Thin Solid Films</i> , 2010 , 518, 4637-4643	2.2	19
5	Enhancement of ZnO photoluminescence by localized and propagating surface plasmons. <i>Optics Express</i> , 2009 , 17, 2565-72	3.3	78
4	Coupling dynamics between photoluminescent centers in ZnO and surface plasmons 2009 ,		4
3	Design and Realization of Ohmic and Schottky Interfaces for Oxide Electronics. <i>Small Science</i> , 2100087		1

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|---|---|------|---|
| 2 | Magneto-Optical Sensing Beyond the Shot Noise Limit. <i>Advanced Quantum Technologies</i> ,2100107 | 4.3 | 0 |
| 1 | Surface-Driven Evolution of the Anomalous Hall Effect in Magnetic Topological Insulator MnBi ₂ Te ₄ Thin Films. <i>Advanced Functional Materials</i> ,2202234 | 15.6 | 1 |