

Paul M Walker

List of Publications by Year in descending order

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papers

1,353
citations

516710

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all docs

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docs citations

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	WSe ₂ Light-Emitting Tunneling Transistors with Enhanced Brightness at Room Temperature. Nano Letters, 2015, 15, 8223-8228.	9.1	231
2	Two-Dimensional Metal-Chalcogenide Films in Tunable Optical Microcavities. Nano Letters, 2014, 14, 7003-7008.	9.1	129
3	Nonlinear polaritons in a monolayer semiconductor coupled to optical bound states in the continuum. Light: Science and Applications, 2020, 9, 56.	16.6	124
4	Exciton Polaritons in a Two-Dimensional Lieb Lattice with Spin-Orbit Coupling. Physical Review Letters, 2018, 120, 097401.	7.8	120
5	Highly nonlinear trion-polaritons in a monolayer semiconductor. Nature Communications, 2020, 11, 3589.	12.8	83
6	Spin Textures of Exciton-Polaritons in a Tunable Microcavity with Large TE-TM Splitting. Physical Review Letters, 2015, 115, 246401.	7.8	82
7	Ultra-low-power hybrid light-matter solitons. Nature Communications, 2015, 6, 8317.	12.8	74
8	Dark Solitons in High Velocity Waveguide Polariton Fluids. Physical Review Letters, 2017, 119, 097403.	7.8	61
9	Suppression of Zeeman Splitting of the Energy Levels of Exciton-Polariton Condensates in Semiconductor Microcavities in an External Magnetic Field. Physical Review Letters, 2011, 106, 257401.	7.8	57
10	Exciton polaritons in semiconductor waveguides. Applied Physics Letters, 2013, 102, .	3.3	54
11	Strong exciton-photon coupling in open semiconductor microcavities. Applied Physics Letters, 2014, 104, .	3.3	48
12	Effect of photonic spin-orbit coupling on the topological edge modes of a Su-Schrieffer-Heeger chain. Physical Review B, 2019, 99, .	3.2	34
13	Coherent elastic waves in a one-dimensional polymer hypersonic crystal. Applied Physics Letters, 2010, 97, 073106.	3.3	33
14	Polariton Pattern Formation and Photon Statistics of the Associated Emission. Physical Review X, 2017, 7, .	8.9	23
15	Backward Cherenkov radiation emitted by polariton solitons in a microcavity wire. Nature Communications, 2017, 8, 1554.	12.8	23
16	Tunable polaritonic molecules in an open microcavity system. Applied Physics Letters, 2015, 107, .	3.3	19
17	Spatiotemporal continuum generation in polariton waveguides. Light: Science and Applications, 2019, 8, 6.	16.6	16
18	Electrically pumped WSe ₂ -based light-emitting van der Waals heterostructures embedded in monolithic dielectric microcavities. 2D Materials, 2020, 7, 031006.	4.4	16

#	ARTICLE	IF	CITATIONS
19	Ultrafast-nonlinear ultraviolet pulse modulation in an AlInGaN polariton waveguide operating up to room temperature. <i>Nature Communications</i> , 2021, 12, 3504.	12.8	15
20	Terahertz acoustic oscillations by stimulated phonon emission in an optically pumped superlattice. <i>Physical Review B</i> , 2009, 79, .	3.2	14
21	Spin Domains in One-Dimensional Conservative Polariton Solitons. <i>ACS Photonics</i> , 2018, 5, 5095-5102.	6.6	13
22	Few-photon all-optical phase rotation in a quantum-well micropillar cavity. <i>Nature Photonics</i> , 2022, 16, 566-569.	31.4	13
23	Transition from Propagating Polariton Solitons to a Standing Wave Condensate Induced by Interactions. <i>Physical Review Letters</i> , 2018, 120, 167402.	7.8	12
24	Excitation and detection of high-frequency coherent acoustic phonons in low-symmetry superlattices. <i>Physical Review B</i> , 2008, 78, .	3.2	10
25	Spontaneous vortices in optically shaped potential profiles in semiconductor microcavities. <i>Physical Review B</i> , 2013, 87, .	3.2	10
26	Polarization-resolved strong light-matter coupling in planar GaAs/AlGaAs waveguides. <i>Optics Letters</i> , 2018, 43, 4526.	3.3	10
27	Generation of terahertz monochromatic acoustic phonon pulses by femtosecond optical excitation of a gallium nitride/aluminium nitride superlattice. <i>Applied Physics Letters</i> , 2005, 86, 221915.	3.3	8
28	Fast switching of magnetization in the ferromagnetic semiconductor (Ga,Mn)(As,P) using nonequilibrium phonon pulses. <i>Applied Physics Letters</i> , 2011, 99, .	3.3	8
29	Design and characterization of high optical quality InGaAs/GaAs/AlGaAs-based polariton microcavities. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	8
30	Exciton-polaritons in GaAs-based slab waveguide photonic crystals. <i>Applied Physics Letters</i> , 2021, 119, 181101.	3.3	3
31	Amplification of nonlinear polariton pulses in waveguides. <i>Optics Express</i> , 2019, 27, 10692.	3.4	2
32	Coherent phonons in a doped GaAs/AlAs superlattice. <i>Journal of Physics: Conference Series</i> , 2007, 92, 012014.	0.4	0
33	Ultra-low-power polariton solitons in semiconductor waveguides and microcavities. , 2016, , .		0