

# Ben King

## List of Publications by Year in descending order

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Version: 2024-02-01

46  
papers

1,515  
citations

304368

22  
h-index

301761

39  
g-index

47  
all docs

47  
docs citations

47  
times ranked

423  
citing authors

#	ARTICLE	IF	CITATIONS
1	Higher fidelity simulations of nonlinear Breit-Wheeler pair creation in intense laser pulses. <i>European Physical Journal C</i> , 2022, 82, 1.	1.4	16
2	Interference effects in nonlinear Compton scattering due to pulse envelope. <i>Physical Review D</i> , 2021, 103, .	1.6	15
3	Self-absorption of synchrotron radiation in a laser-irradiated plasma. <i>Physics of Plasmas</i> , 2021, 28, .	0.7	1
4	Classical Resummation and Breakdown of Strong-Field QED. <i>Physical Review Letters</i> , 2021, 127, 061601.	2.9	22
5	From local to nonlocal: higher fidelity simulations of photon emission in intense laser pulses. <i>New Journal of Physics</i> , 2021, 23, 085008.	1.2	17
6	Conceptual design report for the LUXE experiment. <i>European Physical Journal: Special Topics</i> , 2021, 230, 2445-2560.	1.2	89
7	Pulse envelope effects in nonlinear Breit-Wheeler pair creation. <i>Physical Review D</i> , 2021, 104, .	1.6	14
8	Nonlinear Compton scattering of polarized photons in plane-wave backgrounds. <i>Physical Review A</i> , 2020, 102, .	1.0	31
9	Locally monochromatic approximation to QED in intense laser fields. <i>Physical Review A</i> , 2020, 102, .	1.0	44
10	Highly polarised gamma photons from electron-laser collisions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2020, 809, 135701.	1.5	25
11	Spin- and polarization-dependent locally-constant-field-approximation rates for nonlinear Compton and Breit-Wheeler processes. <i>Physical Review A</i> , 2020, 102, .	1.0	53
12	Loop spin effects in intense background fields. <i>Physical Review D</i> , 2020, 102, .	1.6	24
13	Uniform locally constant field approximation for photon-seeded pair production. <i>Physical Review A</i> , 2020, 101, .	1.0	35
14	Toward the observation of interference effects in nonlinear Compton scattering. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2020, 804, 135410.	1.5	12
15	Absorption cross section in an intense plane wave background. <i>Physical Review D</i> , 2019, 100, .	1.6	13
16	Extended locally constant field approximation for nonlinear Compton scattering. <i>Physical Review A</i> , 2019, 99, .	1.0	100
17	Light scalars: Coherent nonlinear Thomson scattering and detection. <i>Physical Review D</i> , 2019, 99, .	1.6	7
18	Axion-like-particle decay in strong electromagnetic backgrounds. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	1.6	9

#	ARTICLE	IF	CITATIONS
19	One-photon pair annihilation in pulsed plane-wave backgrounds. <i>Physical Review A</i> , 2019, 100, .	1.0	13
20	On beam models and their paraxial approximation. <i>Laser Physics</i> , 2018, 28, 015003.	0.6	9
21	Axion particle production in a laser-induced dynamical spacetime. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018, 777, 388-393.	1.5	3
22	ALP production through non-linear Compton scattering in intense fields. <i>European Physical Journal C</i> , 2018, 78, 775.	1.4	12
23	Electron-seeded ALP production and ALP decay in an oscillating electromagnetic field. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018, 782, 737-743.	1.5	10
24	Effect of interference on the trident process in a constant crossed field. <i>Physical Review D</i> , 2018, 98, .	1.6	33
25	Three-pulse photon-photon scattering. <i>Physical Review A</i> , 2018, 98, .	1.0	37
26	Vacuum high-harmonic generation in the shock regime and photon-photon scattering dynamics. <i>Journal of Physics: Conference Series</i> , 2016, 691, 012022.	0.3	1
27	Vacuum birefringence in high-energy laser-electron collisions. <i>Physical Review A</i> , 2016, 94, .	1.0	59
28	Classical and quantum dynamics of a charged scalar particle in a background of two counterpropagating plane waves. <i>Physical Review D</i> , 2016, 94, .	1.6	21
29	Vacuum high-harmonic generation and electromagnetic shock. <i>Journal of Plasma Physics</i> , 2016, 82, .	0.7	4
30	Measuring vacuum polarization with high-power lasers. <i>High Power Laser Science and Engineering</i> , 2016, 4, .	2.0	128
31	Classical and quantum particle dynamics in univariate background fields. <i>Physical Review D</i> , 2016, 94, .	1.6	31
32	Vacuum high-harmonic generation in the shock regime. <i>Physical Review A</i> , 2015, 92, .	1.0	27
33	Double Compton scattering in a constant crossed field and approximations used in simulation. <i>Journal of Physics: Conference Series</i> , 2015, 594, 012053.	0.3	0
34	Testing numerical implementations of strong-field electrodynamics. <i>Physical Review A</i> , 2015, 91, .	1.0	87
35	Double Compton scattering in a constant crossed field. <i>Physical Review A</i> , 2015, 91, .	1.0	54
36	Interaction of photons traversing a slowly varying electromagnetic background. <i>Physical Review D</i> , 2014, 90, .	1.6	22

#	ARTICLE	IF	CITATIONS
37	Investigating the QED vacuum with ultra-intense laser fields. European Physical Journal: Special Topics, 2014, 223, 1063-1068.	1.2	7
38	Light-by-light scattering in intense lasers. , 2014, , .		0
39	Pair production in a plane wave due to a thermal background. Journal of Physics: Conference Series, 2013, 414, 012016.	0.3	0
40	Photon polarization in electron-seeded pair-creation cascades. Physical Review A, 2013, 87, .	1.0	90
41	Trident pair production in a constant crossed field. Physical Review D, 2013, 88, .	1.6	73
42	Photonâ€“photon scattering in collisions of intense laser pulses. New Journal of Physics, 2012, 14, 103002.	1.2	62
43	Pair production in a plane wave by thermal background photons. Physical Review D, 2012, 86, .	1.6	25
44	Strong-field QED in intense laser fields. Proceedings of SPIE, 2010, , .	0.8	0
45	Double-slit vacuum polarization effects in ultraintense laser fields. Physical Review A, 2010, 82, .	1.0	65
46	A matterless double slit. Nature Photonics, 2010, 4, 92-94.	15.6	109