

# Ben King

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9331108/publications.pdf>

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	Measuring vacuum polarization with high-power lasers. High Power Laser Science and Engineering, 2016, 4, .	2.0	128
2	A matterless double slit. Nature Photonics, 2010, 4, 92-94.	15.6	109
3	Extended locally constant field approximation for nonlinear Compton scattering. Physical Review A, 2019, 99, .	1.0	100
4	Photon polarization in electron-seeded pair-creation cascades. Physical Review A, 2013, 87, .	1.0	90
5	Conceptual design report for the LUXE experiment. European Physical Journal: Special Topics, 2021, 230, 2445-2560.	1.2	89
6	Testing numerical implementations of strong-field electrodynamics. Physical Review A, 2015, 91, .	1.0	87
7	Trident pair production in a constant crossed field. Physical Review D, 2013, 88, .	1.6	73
8	Double-slit vacuum polarization effects in ultraintense laser fields. Physical Review A, 2010, 82, .	1.0	65
9	Photon-photon scattering in collisions of intense laser pulses. New Journal of Physics, 2012, 14, 103002.	1.2	62
10	Vacuum birefringence in high-energy laser-electron collisions. Physical Review A, 2016, 94, .	1.0	59
11	Double Compton scattering in a constant crossed field. Physical Review A, 2015, 91, .	1.0	54
12	Spin- and polarization-dependent locally-constant-field-approximation rates for nonlinear Compton and Breit-Wheeler processes. Physical Review A, 2020, 102, .	1.0	53
13	Locally monochromatic approximation to QED in intense laser fields. Physical Review A, 2020, 102, .	1.0	44
14	Three-pulse photon-photon scattering. Physical Review A, 2018, 98, .	1.0	37
15	Uniform locally constant field approximation for photon-seeded pair production. Physical Review A, 2020, 101, .	1.0	35
16	Effect of interference on the trident process in a constant crossed field. Physical Review D, 2018, 98, .	1.6	33
17	Classical and quantum particle dynamics in univariate background fields. Physical Review D, 2016, 94, .	1.6	31
18	Nonlinear Compton scattering of polarized photons in plane-wave backgrounds. Physical Review A, 2020, 102, .	1.0	31

#	ARTICLE	IF	CITATIONS
19	Vacuum high-harmonic generation in the shock regime. <i>Physical Review A</i> , 2015, 92, .	1.0	27
20	Pair production in a plane wave by thermal background photons. <i>Physical Review D</i> , 2012, 86, .	1.6	25
21	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
22	Loop spin effects in intense background fields. <i>Physical Review D</i> , 2020, 102, .	1.6	24
23	Interaction of photons traversing a slowly varying electromagnetic background. <i>Physical Review D</i> , 2014, 90, .	1.6	22
24	Classical Resummation and Breakdown of Strong-Field QED. <i>Physical Review Letters</i> , 2021, 127, 061601.	2.9	22
25	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
26	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
27	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
28	Interference effects in nonlinear Compton scattering due to pulse envelope. <i>Physical Review D</i> , 2021, 103, .	1.6	15
29	Pulse envelope effects in nonlinear Breit-Wheeler pair creation. <i>Physical Review D</i> , 2021, 104, .	1.6	14
30	Absorption cross section in an intense plane wave background. <i>Physical Review D</i> , 2019, 100, .	1.6	13
31	One-photon pair annihilation in pulsed plane-wave backgrounds. <i>Physical Review A</i> , 2019, 100, .	1.0	13
32	ALP production through non-linear Compton scattering in intense fields. <i>European Physical Journal C</i> , 2018, 78, 775.	1.4	12
33	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
34	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
35	On beam models and their paraxial approximation. <i>Laser Physics</i> , 2018, 28, 015003.	0.6	9
36	Axion-like-particle decay in strong electromagnetic backgrounds. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	1.6	9

#	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 scalars: Coherent nonlinear Thomson scattering and detection. Physical Review D, 2019, 99, .	1.6	7
39	Vacuum high-harmonic generation and electromagnetic shock. Journal of Plasma Physics, 2016, 82, .	0.7	4
40	Axion particle production in a laser-induced dynamical spacetime. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 777, 388-393.	1.5	3
41	Vacuum high-harmonic generation in the shock regime and photon-photon scattering dynamics. Journal of Physics: Conference Series, 2016, 691, 012022.	0.3	1
42	Self-absorption of synchrotron radiation in a laser-irradiated plasma. Physics of Plasmas, 2021, 28, .	0.7	1
43	Strong-field QED in intense laser fields. Proceedings of SPIE, 2010, , .	0.8	0
44	Pair production in a plane wave due to a thermal background. Journal of Physics: Conference Series, 2013, 414, 012016.	0.3	0
45	Double Compton scattering in a constant crossed field and approximations used in simulation. Journal of Physics: Conference Series, 2015, 594, 012053.	0.3	0
46	Light-by-light scattering in intense lasers. , 2014, , .		0