## Stephen B Libby

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Electron Delocalization by a Magnetic Field in Two Dimensions. Physical Review Letters, 1983, 51, 1915-1918.	7.8	296
2	Electron Density Measurements of High Density Plasmas Using Soft X-Ray Laser Interferometry. Physical Review Letters, 1995, 74, 3991-3994.	7.8	193
3	Ultraviolet surprise: Efficient soft x-ray high-harmonic generation in multiply ionized plasmas. Science, 2015, 350, 1225-1231.	12.6	165
4	Jet and lepton-pair production in high-energy lepton-hadron and hadron-hadron scattering. Physical Review D, 1978, 18, 3252-3268.	4.7	147
5	Theory of the quantized Hall effect (I). Nuclear Physics B, 1984, 240, 30-48.	2.5	137
6	Removing orbital debris with lasers. Advances in Space Research, 2012, 49, 1283-1300.	2.6	131
7	Mass divergences in two-particle inelastic scattering. Physical Review D, 1978, 18, 4737-4745.	4.7	72
8	Theory of the quantized hall effect (II). Nuclear Physics B, 1984, 240, 49-70.	2.5	71
9	Theory of the quantized Hall effect (III). Nuclear Physics B, 1984, 240, 71-90.	2.5	67
10	Scaling of conductivities in the fractional quantum Hall effect. Physical Review B, 1985, 32, 1311-1314.	3.2	60
11	Pulsed laser interactions with space debris: Target shape effects. Advances in Space Research, 2013, 52, 895-915.	2.6	46
12	High-energy behavior of jet and lepton-pair production. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1978, 78, 618-622.	4.1	43
13	Observation and Control of Shock Waves in Individual Nanoplasmas. Physical Review Letters, 2014, 112, 115004.	7.8	43
14	Petawatt laser absorption bounded. Nature Communications, 2014, 5, 4149.	12.8	39
15	Versatile laser-free trapped-ion entangling gates. New Journal of Physics, 2019, 21, 033033.	2.9	31
16	The evolution of high-energy-density physics: From nuclear testing to the superlasers. Laser and Particle Beams, 1997, 15, 607-626.	1.0	30
17	Mapping Nanoscale Absorption of Femtosecond Laser Pulses Using Plasma Explosion Imaging. ACS Nano, 2014, 8, 8810-8818.	14.6	30
18	Renormalization of the Î, angle, the quantum Hall effect and the strong CP problem. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1985, 150, 182-186.	4.1	25

Stephen B Libby

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19	Laser-free trapped-ion entangling gates with simultaneous insensitivity to qubit and motional decoherence. Physical Review A, 2020, 101, .	2.5	18
20	Non-abelian monopoles in the three-dimensional chiral spin liquid. Nuclear Physics B, 1991, 348, 693-713.	2.5	17
21	Cancellation of infrared divergences in massive-quark potential scattering. Physical Review D, 1979, 19, 2468-2470.	4.7	15
22	Development of a Bayesian method for the analysis of inertial confinement fusion experiments on the NIF. Nuclear Fusion, 2013, 53, 073032.	3.5	13
23	Application of x-ray-laser interferometry to study high-density laser-produced plasmas. Journal of the Optical Society of America B: Optical Physics, 1996, 13, 447.	2.1	12
24	Bayesian inference of inaccuracies in radiation transport physics from inertial confinement fusion experiments. High Energy Density Physics, 2013, 9, 457-461.	1.5	11
25	Atomic processes in near-equilibrium plasmas. Journal of Quantitative Spectroscopy and Radiative Transfer, 2001, 71, 505-518.	2.3	10
26	Atom Interferometry in the Presence of an External Test Mass. Atoms, 2016, 4, 14.	1.6	10
27	Momentum Transfer by Laser Ablation of Irregularly Shaped Space Debris. , 2010, , .		9
28	Simulating non-native cubic interactions on noisy quantum machines. Physical Review A, 2021, 103, .	2.5	8
29	Removing orbital debris with pulsed lasers. , 2012, , .		6
30	Motional Squeezing for Trapped Ion Transport and Separation. Physical Review Letters, 2021, 127, 083201.	7.8	6
31	Characterization of germanium stripe x-ray lasers. Optical Engineering, 1994, 33, 2434.	1.0	5
32	Gauge theory of the three-dimensional chiral spin liquid. Nuclear Physics B, 1994, 413, 579-604.	2.5	5
33	The viscosity to entropy ratio: From string theory motivated bounds to warm dense matter transport. High Energy Density Physics, 2014, 12, 21-26.	1.5	5
34	A genetic algorithm approach for reconstructing spectral content from filtered x-ray diode array spectrometers. Review of Scientific Instruments, 2020, 91, 083507.	1.3	5
35	Optimal choice of multiple line-of-sight measurements determining plasma hotspot velocity at the National Ignition Facility. Review of Scientific Instruments, 2021, 92, 023513.	1.3	5
36	Edward Teller's Scientific Life. Physics Today, 2004, 57, 45-50.	0.3	4

Stephen B Libby

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37	Masterfields and the phases of quantum chromodynamics in two dimensions with fermions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1982, 115, 477-481.	4.1	3
38	Line overlap measurement for the photopumping of X-ray lasing transitions between n = 3 and n = 2 autoionizing states of lithium-like Al. Optics Communications, 1994, 113, 204-212.	2.1	3
39	Two-dimensional interferogram of an exploding selenium foil using a soft X-ray laser interferometer. IEEE Transactions on Plasma Science, 1996, 24, 31-32.	1.3	3
40	Implosions: An Experimental Testbed for Highâ€Energy Density Physics. Astrophysical Journal, Supplement Series, 2000, 127, 227-232.	7.7	3
41	Derivation of soliton quantization in two gauge models. Nuclear Physics B, 1976, 113, 501-531.	2.5	2
42	Na-like autoionizing levels: Plasma diagnostics and prospects for photopumped soft X-ray lasers. AlP Conference Proceedings, 1995, , .	0.4	2
43	Systematic investigation of NLTE phenomena in the limit of small departures from LTE. , 1997, , .		2
44	Berni Julian Alder, theoretical physicist and inventor of molecular dynamics, 1925–2020. Proceedings of the United States of America, 2021, 118, .	7.1	2
45	Electron Delocalization by a Magnetic Field in Two Dimensions. Physical Review Letters, 1984, 52, 1254-1254.	7.8	1
46	Development of XUV interferometry (155 â,,«) using a soft x-ray laser. , 1995, 2520, 288.		1
47	High density plasma diagnostics utilizing a neon-like yttrium x-ray laser. Journal of Quantitative Spectroscopy and Radiative Transfer, 1995, 54, 97-103.	2.3	1
48	<title>Characterization of germanium stripe x-ray lasers</title> . , 1994, , .		0
49	X-ray laser interferometry for probing high-density plasmas. , 1995, , .		Ο
50	High energy-density physics: From nuclear testing to the superlasers. AIP Conference Proceedings, 1996, , .	0.4	0
51	Atomic processes in inertial fusion plasmas. , 1998, , .		Ο
52	Clarifying Teller's Science Story. Physics Today, 2004, 57, 17-17.	0.3	0
53	EDWARD TELLER BIOGRAPHICAL MEMOIR. , 2010, , .		0
54	Ultrafast Dynamics of Individual, Isolated Nanoparticles and Nanoplasmas in Intense Laser Fields. , 2014, , .		0

#	Article	IF	CITATIONS
55	Realistic Model of Entanglement-Enhanced Sensing in Optical Fiber. Optics Express, 2022, 30, 8652-8666.	3.4	ο