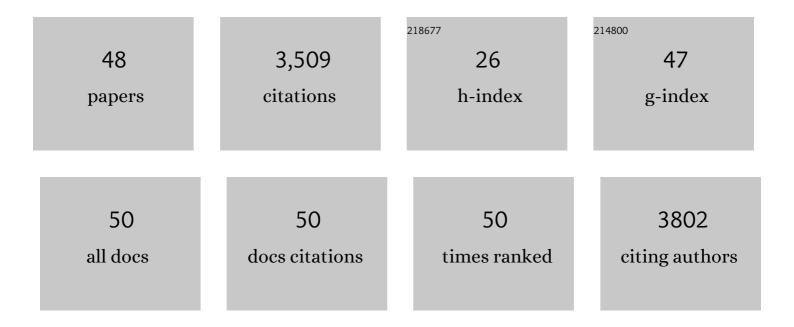
Christopher Fontes

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Understanding how minority relativistic electron populations may dominate charge state balance and radiative cooling of a post-thermal quench tokamak plasma. Physics of Plasmas, 2022, 29, 012504.	1.9	2
2	Interpolating detailed simulations of kilonovae: Adaptive learning and parameter inference applications. Physical Review Research, 2022, 4, .	3.6	13
3	Kilonova Detectability with Wide-field Instruments. Astrophysical Journal, 2022, 927, 163.	4.5	34
4	Charge state distributions in dense plasmas. Physics of Plasmas, 2022, 29, .	1.9	3
5	Sodium tracer measurements of an expanded dense aluminum plasma from e-beam isochoric heating. Physics of Plasmas, 2021, 28, .	1.9	1
6	Angular Distribution of Characteristic Radiation Following the Excitation of He-Like Uranium in Relativistic Collisions. Atoms, 2021, 9, 20.	1.6	3
7	Axisymmetric Radiative Transfer Models of Kilonovae. Astrophysical Journal, 2021, 910, 116.	4.5	67
8	Time-dependent density functional theory applied to average atom opacity. Physical Review E, 2021, 103, 043206.	2.1	6
9	A Broad Grid of 2D Kilonova Emission Models. Astrophysical Journal, 2021, 918, 10.	4.5	38
10	All-Order Full-Coulomb Quantum Spectral Line-Shape Calculations. Physical Review Letters, 2021, 127, 235001.	7.8	13
11	Effect of Electron Capture on Spectral Line Broadening in Hot Dense Plasmas. Physical Review Letters, 2020, 124, 055003.	7.8	16
12	Impact of a minority relativistic electron tail interacting with a thermal plasma containing high-atomic-number impurities. Physics of Plasmas, 2020, 27, 040702.	1.9	6
13	A line-binned treatment of opacities for the spectra and light curves from neutron star mergers. Monthly Notices of the Royal Astronomical Society, 2020, 493, 4143-4171.	4.4	82
14	Composition Effects on Kilonova Spectra and Light Curves. I. Astrophysical Journal, 2020, 899, 24.	4.5	37
15	The Role of Inhomogeneities in Supernova Shock Breakout Emission. Astrophysical Journal, 2020, 898, 123.	4.5	10
16	Impact of Pulsar and Fallback Sources on Multifrequency Kilonova Models. Astrophysical Journal, 2019, 880, 22.	4.5	29
17	Full transport model of GW170817-like disk produces a blue kilonova. Physical Review D, 2019, 100, .	4.7	135
18	Laser-driven production of the antihydrogen molecular ion. Physical Review A, 2019, 100, .	2.5	9

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#	Article	lF	CITATIONS
19	Systematic Study of <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">display="inline"><mml:mi>L</mml:mi></mml:math> -Shell Opacity at Stellar Interior Temperatures. Physical Review Letters, 2019, 122, 235001.	7.8	78
20	Study of laser produced plasma in a longitudinal magnetic field. Physics of Plasmas, 2019, 26, .	1.9	12
21	Electron- and proton-impact excitation of heliumlike uranium in relativistic collisions. Physical Review A, 2019, 99, .	2.5	13
22	60Fe in core-collapse supernovae and prospects for X-ray and gamma-ray detection in supernova remnants. Monthly Notices of the Royal Astronomical Society, 2019, 485, 4287-4310.	4.4	22
23	Impact of ejecta morphology and composition on the electromagnetic signatures of neutron star mergers. Monthly Notices of the Royal Astronomical Society, 2018, 478, 3298-3334.	4.4	145
24	Review of the 9th NLTE code comparison workshop. High Energy Density Physics, 2017, 23, 38-47.	1.5	35
25	The X-ray counterpart to the gravitational-wave event GW170817. Nature, 2017, 551, 71-74.	27.8	627
26	<i>Swift</i> and <i>NuSTAR</i> observations of GW170817: Detection of a blue kilonova. Science, 2017, 358, 1565-1570.	12.6	399
27	The Emergence of a Lanthanide-rich Kilonova Following the Merger of Two Neutron Stars. Astrophysical Journal Letters, 2017, 848, L27.	8.3	507
28	State-resolved Photodissociation and Radiative Association Data for the Molecular Hydrogen Ion. Astrophysical Journal, 2017, 851, 64.	4.5	13
29	A NEW GENERATION OF LOS ALAMOS OPACITY TABLES. Astrophysical Journal, 2016, 817, 116.	4.5	153
30	Self-consistent Large-Scale Collisional-Radiative Modeling. Springer Series on Atomic, Optical, and Plasma Physics, 2016, , 17-50.	0.2	8
31	Wider pulsation instability regions for <i>β</i> Cephei and SPB stars calculated using new Los Alamos opacities. Astronomy and Astrophysics, 2015, 580, L9.	5.1	31
32	Ground-state excitation of heavy highly-charged ions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 144006.	1.5	7
33	The Los Alamos suite of relativistic atomic physics codes. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 144014.	1.5	122
34	A higher-than-predicted measurement of iron opacity at solar interior temperatures. Nature, 2015, 517, 56-59.	27.8	321
35	Collisional-Radiative Modeling of Tungsten at Temperatures of 1200–2400 eV. Atoms, 2015, 3, 76-85.	1.6	7
36	Annotation of Hans Bethe's paper, Zeitschrift für Physik 76, 293 (1932), "Braking Formula for Electrons	0.8	5

of Relativistic Speed― European Physical Journal H, 2014, 39, 517-536.

CHRISTOPHER FONTES

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37	THE LOS ALAMOS SUPERNOVA LIGHT-CURVE PROJECT: COMPUTATIONAL METHODS. Astrophysical Journal, Supplement Series, 2013, 204, 16.	7.7	41
38	Electron- and Proton-Impact Excitation of Hydrogenlike Uranium in Relativistic Collisions. Physical Review Letters, 2013, 110, 213201.	7.8	41
39	Light element opacities of astrophysical interest from ATOMIC. , 2013, , .		0
40	Calculation of the relativistic rise in electron-impact-excitation cross sections for highly charged ions. Physical Review A, 2013, 88, .	2.5	11
41	SPECTRA OF TYPE IA SUPERNOVAE FROM DOUBLE DEGENERATE MERGERS. Astrophysical Journal, 2010, 725, 296-308.	4.5	73
42	A fully relativistic approach for calculating atomic data for highly charged ions. Physics Reports, 2009, 477, 111-214.	25.6	76
43	SPECTRA AND LIGHT CURVES OF FAILED SUPERNOVAE. Astrophysical Journal, 2009, 707, 193-207.	4.5	49
44	Los Alamos Opacities: Transition from LEDCOP to ATOMIC. AIP Conference Proceedings, 2004, , .	0.4	37
45	Differential cross sections and cross-section ratios for the electron-impact excitation of the neon2p53sconfiguration. Physical Review A, 2002, 65, .	2.5	41
46	Fully relativistic calculations of and fits to 1sionization cross sections. Physical Review A, 1999, 59, 1329-1335.	2.5	55
47	Use of the factorized form for the collision strength in exploration of the effect of the generalized Breit interaction. Physical Review A, 1994, 49, 3704-3711.	2.5	14
48	Inclusion of the generalized Breit interaction in excitation of highly charged ions by electron impact. Physical Review A, 1993, 47, 1009-1022.	2.5	62