

Paul S Barklem

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

659
citations

840776

11
h-index

794594

19
g-index

21
all docs

21
docs citations

21
times ranked

536
citing authors

#	ARTICLE	IF	CITATIONS
1	LITHIUM ABUNDANCES OF EXTREMELY METAL-POOR TURNOFF STARS. <i>Astrophysical Journal</i> , 2009, 698, 1803-1812.	4.5	141
2	Cross sections for low-energy inelastic H+Li collisions. <i>Physical Review A</i> , 2003, 68, .	2.5	94
3	Atomic data for the Gaia-ESO Survey. <i>Astronomy and Astrophysics</i> , 2021, 645, A106.	5.1	89
4	Accurate abundance analysis of late-type stars: advances in atomic physics. <i>Astronomy and Astrophysics Review</i> , 2016, 24, 1.	25.5	77
5	Excitation and charge transfer in low-energy hydrogen-atom collisions with neutral atoms: Theory, comparisons, and application to Ca. <i>Physical Review A</i> , 2016, 93, .	2.5	60
6	The GALAH Survey: non-LTE departure coefficients for large spectroscopic surveys. <i>Astronomy and Astrophysics</i> , 2020, 642, A62.	5.1	55
7	Excitation and charge transfer in low-energy hydrogen atom collisions with neutral iron. <i>Astronomy and Astrophysics</i> , 2018, 612, A90.	5.1	24
8	Excitation and charge transfer in low-energy hydrogen atom collisions with neutral oxygen. <i>Astronomy and Astrophysics</i> , 2018, 610, A57.	5.1	19
9	Cryogenic nitrogen beam experiments in DESIREE: Final state-resolved mutual neutralization of Li^+ and D . <i>Physical Review A</i> , 2021, 103, .	2.5	18
10	Final-state-resolved mutual neutralization of Na^+ and D . <i>Physical Review A</i> , 2021, 103, .	2.5	13
11	Mutual Neutralization in $\text{Li}^+ + \text{H}$ and $\text{Na}^+ + \text{H}$ Collisions: Implications of Experimental Results for Non-LTE Modeling of Stellar Spectra. <i>Astrophysical Journal</i> , 2021, 908, 245.	4.5	11
12	Diagnostic capabilities of spectropolarimetric observations for understanding solar phenomena. <i>Astronomy and Astrophysics</i> , 2021, 652, A161.	5.1	8
13	State-resolved mutual neutralization of Mg^+ and D . <i>Physical Review A</i> , 2021, 103, .	7.8	7
14	Hydrogen Atom Collision Processes in Cool Stellar Atmospheres: Effects on Spectral Line Strengths and Measured Chemical Abundances in Old Stars. <i>Journal of Physics: Conference Series</i> , 2012, 397, 012049.	0.4	6
15	Excitation and charge transfer in low-energy hydrogen atom collisions with neutral manganese and titanium. <i>Astronomy and Astrophysics</i> , 2020, 637, A28.	5.1	6
16	Mutual neutralisation of O^+ with O^+ : investigation of the role of metastable ions in a combined experimental and theoretical study. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 24607-24616.	2.8	5
17	Study of the mutual neutralization of N^+ with D . <i>Physical Review A</i> , 2021, 104, .	2.5	4
18	Correspondence between the surface integral and linear combination of atomic orbitals methods for ionic-covalent interactions in mutual neutralization processes involving H^+ and D . <i>Physical Review A</i> , 2021, 104, .	2.5	1

#	ARTICLE	IF	CITATIONS
19	Weak Atomic Diffusion Trends in NGC 6752. Proceedings of the International Astronomical Union, 2013, 9, 406-406.	0.0	0
20	On Atomic Diffusion and the Cosmological Lithium Abundance. Proceedings of the International Astronomical Union, 2013, 9, 407-407.	0.0	0