

# 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	Storage-ring study of the mutual neutralization of $Mg^+$ and $D^+$ . <i>Physical Review A</i> , 2022, 105, .	7.8	7
2	Atomic data for the Gaia-ESO Survey. <i>Astronomy and Astrophysics</i> , 2021, 645, A106.	5.1	89
3	Mutual Neutralization in $Li^+ + H^+$ and $Na^+ + H^+$ Collisions: Implications of Experimental Results for Non-LTE Modeling of Stellar Spectra. <i>Astrophysical Journal</i> , 2021, 908, 245.	4.5	11
4	Final-state-resolved mutual neutralization of $Na^+$ and $D^+$ . <i>Physical Review A</i> , 2021, 103, .	2.5	13
5	Diagnostic capabilities of spectropolarimetric observations for understanding solar phenomena. <i>Astronomy and Astrophysics</i> , 2021, 652, A161.	5.1	8
6	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
7	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
8	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
9	Cryogenic merged-ion-beam experiments in DESIREE: Final-state-resolved mutual neutralization of $Li^+$ and $D^+$ . <i>Physical Review A</i> , 2020, 102, .	2.5	18
10	The GALAH Survey: non-LTE departure coefficients for large spectroscopic surveys. <i>Astronomy and Astrophysics</i> , 2020, 642, A62.	5.1	55
11	Excitation and charge transfer in low-energy hydrogen atom collisions with neutral iron. <i>Astronomy and Astrophysics</i> , 2018, 612, A90.	5.1	24
12	Excitation and charge transfer in low-energy hydrogen atom collisions with neutral oxygen. <i>Astronomy and Astrophysics</i> , 2018, 610, A57.	5.1	19
13	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
14	Accurate abundance analysis of late-type stars: advances in atomic physics. <i>Astronomy and Astrophysics Review</i> , 2016, 24, 1.	25.5	77
15	Weak Atomic Diffusion Trends in NGC 6752. <i>Proceedings of the International Astronomical Union</i> , 2013, 9, 406-406.	0.0	0
16	On Atomic Diffusion and the Cosmological Lithium Abundance. <i>Proceedings of the International Astronomical Union</i> , 2013, 9, 407-407.	0.0	0
17	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

#	ARTICLE	IF	CITATIONS
19	LITHIUM ABUNDANCES OF EXTREMELY METAL-POOR TURNOFF STARS. <i>Astrophysical Journal</i> , 2009, 698, 1803-1812.	4.5	141
20	Cross sections for low-energy inelastic $H^+$ collisions. <i>Physical Review A</i> , 2003, 68, .	2.5	94