

# Jon Grumer

## List of Publications by Year in descending order

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31  
papers

445  
citations

687363

13  
h-index

752698

20  
g-index

32  
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32  
docs citations

32  
times ranked

341  
citing authors

#	ARTICLE	IF	CITATIONS
1	A NOVEL METHOD TO DETERMINE MAGNETIC FIELDS IN LOW-DENSITY PLASMA FACILITATED THROUGH ACCIDENTAL DEGENERACY OF QUANTUM STATES IN Fe <sup>9+</sup> . <i>Astrophysical Journal</i> , 2015, 807, 69.	4.5	37
2	ATOMIC-LEVEL PSEUDO-DEGENERACY OF ATOMIC LEVELS GIVING TRANSITIONS INDUCED BY MAGNETIC FIELDS, OF IMPORTANCE FOR DETERMINING THE FIELD STRENGTHS IN THE SOLAR CORONA. <i>Astrophysical Journal</i> , 2016, 826, 219.	4.5	35
3	Experimental and theoretical study of the ground-state $M \rightarrow 1$ transition in Ag-like tungsten. <i>Physical Review A</i> , 2012, 86, .	2.5	34
4	Forbidden-line spectroscopy of the ground-state configuration of Cd-like W. <i>Physical Review A</i> , 2014, 90, .	2.5	32
5	A First Spectroscopic Measurement of the Magnetic-field Strength for an Active Region of the Solar Corona. <i>Astrophysical Journal Letters</i> , 2020, 898, L34.	8.3	26
6	On the validity of steady-state for nebular phase kilonovae. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 510, 3806-3837.	4.4	23
7	NLTE effects on kilonova expansion opacities. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 513, 5174-5197.	4.4	21
8	Coronal lines and the importance of deep-core valence correlation in Ag-like ions. <i>Physical Review A</i> , 2014, 89, .	2.5	20
9	Unexpected transitions induced by spin-dependent, hyperfine and external magnetic-field interactions. <i>Physica Scripta</i> , 2014, 89, 114002.	2.5	20
10	Effect of an external magnetic field on the determination of E1M1 two-photon decay rates in Be-like ions. <i>Physical Review A</i> , 2013, 88, .	2.5	18
11	Cryogenic merger-ion-beam experiments in DESIREE: Final-state-resolved mutual neutralization of $Li^+ + D^-$ and $D^- + D^-$ . <i>Physical Review A</i> , 2020, 102, .	2.5	18
12	Hfszeeman95: A program for computing weak and intermediate magnetic-field- and hyperfine-induced transition rates. <i>Computer Physics Communications</i> , 2020, 253, 107211.	7.5	18
13	Theoretical investigation of magnetic-field-induced $2p \rightarrow 5p$ transitions in $Li^+ + D^-$ . <i>Physical Review A</i> , 2020, 102, .	2.5	16
14	The 3D non-LTE solar nitrogen abundance from atomic lines. <i>Astronomy and Astrophysics</i> , 2020, 636, A120.	5.1	15
15	Energy levels and radiative data for Kr-like $W^{38+}$ from MCDHF and RMBPT calculations. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016, 49, 135003.	1.5	13
16	Final-state-resolved mutual neutralization of $Na^+ + D^-$ and $D^- + D^-$ . <i>Physical Review A</i> , 2021, 103, .	2.5	13
17	Mutual Neutralization in $Li^+ + H^-$ and $Na^+ + H^-$ . <i>Astrophysical Journal</i> , 2021, 908, 245.	4.5	11
18	Carbon monoxide formation and cooling in supernovae. <i>Astronomy and Astrophysics</i> , 2020, 642, A135.	5.1	11

#	ARTICLE	IF	CITATIONS
19	Resolving a discrepancy between experimental and theoretical lifetimes in atomic negative ions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 025001.	1.5	10
20	Analysis of the competition between forbidden and hyperfine-induced transitions in Ne-like ions. Physical Review A, 2016, 93, .	2.5	7
21	Neutralization of $Mg^{+}$ and $Mg^{2+}$ ions by $D$ atoms. Physical Review A, 2016, 93, .	7.8	7
22	HYPERFINE-DEPENDENT gf-VALUES OF Mn I LINES IN THE 1.49-1.80 $\mu$ m H BAND. Astrophysical Journal, Supplement Series, 2015, 216, 2.	7.7	6
23	Excitation and charge transfer in low-energy hydrogen atom collisions with neutral manganese and titanium. Astronomy and Astrophysics, 2020, 637, A28.	5.1	6
24	Experimental and theoretical studies of excited states in $Ar^{+}$ . Physical Review A, 2021, 103, .	2.5	1
25	Hyperfine induced intensity redistribution in In $h\nu$ . Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 074012.	1.5	5
26	The M1 ground state fine structure transition in Ag-like Yb. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 185004.	1.5	5
27	Mutual neutralisation of $O^{+}$ with $O^{\sim}$ : investigation of the role of metastable ions in a combined experimental and theoretical study. Physical Chemistry Chemical Physics, 2021, 23, 24607-24616.	2.8	5
28	Storage-ring study of the mutual neutralization of $N^{+}$ with $O^{\sim}$ . Physical Review A, 2022, 105, .	2.5	4
29	A spectral study of Te V from MCDHF calculations. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 095001.	1.5	1
30	Magnetic field induced transition rates in Ne- and Be-like ions for plasma diagnostics and E1M1 two-photon decay rate determination. Journal of Physics: Conference Series, 2014, 488, 152005.	0.4	1
31	Negative ion relaxation and reactions in a cryogenic storage ring. Journal of Physics: Conference Series, 2020, 1412, 062006.	0.4	1