

# John M Laming

## List of Publications by Year in descending order

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63  
papers

2,189  
citations

218677

26  
h-index

223800

46  
g-index

65  
all docs

65  
docs citations

65  
times ranked

1790  
citing authors

#	ARTICLE	IF	CITATIONS
1	Element Abundances in the Upper Atmospheres of the Sun and Stars: Update of Observational Results. <i>Physica Scripta</i> , 2000, 61, 222-252.	2.5	165
2	Collisional Ionization Equilibrium for Optically Thin Plasmas. I. Updated Recombination Rate Coefficients for Bare through Sodium-like Ions. <i>Astrophysical Journal</i> , Supplement Series, 2006, 167, 343-356.	7.7	133
3	Coronal Composition above the Solar Equator and the North Pole as Determined from Spectra Acquired by the SUMER Instrument on SOHO. <i>Astrophysical Journal</i> , 1998, 505, 999-1006.	4.5	126
4	A Deep <i>Chandra</i> Observation of Kepler's Supernova Remnant: A Type Ia Event with Circumstellar Interaction. <i>Astrophysical Journal</i> , 2007, 668, L135-L138.	4.5	116
5	Stellar coronal abundances. 2: The first ionization potential effect and its absence in the corona of procyon. <i>Astrophysical Journal</i> , 1995, 443, 393.	4.5	104
6	Polarization measurements on a magnetic quadrupole line in Ne-like barium. <i>Physical Review A</i> , 1996, 54, 1342-1350.	2.5	99
7	Electron Densities in the Solar Polar Coronal Holes from Density-Sensitive Line Ratios of $[\text{ClC}]/[\text{Si}]$ , $[\text{CSC}]/[\text{CSC}]$ and $[\text{S}]/[\text{S}]$ . <i>Astrophysical Journal</i> , 1997, 482, L109-L112.	4.5	92
8	THE DISTRIBUTION OF RADIOACTIVE $^{44}\text{Ti}$ IN CASSIOPEIA A. <i>Astrophysical Journal</i> , 2017, 834, 19.	4.5	87
9	Efficient Multi-keV Underdense Laser-Produced Plasma Radiators. <i>Physical Review Letters</i> , 2001, 87, 275003.	7.8	85
10	Emission-Line Intensity Ratios in $\text{Fe XVII}$ Observed with a Microcalorimeter on an Electron Beam Ion Trap. <i>Astrophysical Journal</i> , 2000, 545, L161-L164.	4.5	73
11	Element Abundances: A New Diagnostic for the Solar Wind. <i>Astrophysical Journal</i> , 2019, 879, 124.	4.5	62
12	Properties of Solar Polar Coronal Hole Plasmas Observed above the Limb. <i>Astrophysical Journal</i> , 2001, 546, 559-568.	4.5	51
13	The Solar Helium Abundance in the Outer Corona Determined from Observations with SUMER/SOHO. <i>Astrophysical Journal</i> , 2001, 546, 552-558.	4.5	51
14	Electron Density Diagnostics for the Solar Upper Atmosphere from Spectra Obtained by SUMER/SOHO. <i>Astrophysical Journal</i> , 1997, 485, 911-919.	4.5	49
15	On the absence of a relationship between the properties of the $T_e$ greater than or = $10^6$ K and the properties of the $T_e$ less than or = $10^5$ solar plasmas. <i>Astrophysical Journal</i> , 1994, 434, 370.	4.5	49
16	Fe XVII X-RAY LINE RATIOS FOR ACCURATE ASTROPHYSICAL PLASMA DIAGNOSTICS. <i>Astrophysical Journal</i> , 2011, 728, 132.	4.5	42
17	IONIC COMPOSITION STRUCTURE OF CORONAL MASS EJECTIONS IN AXISYMMETRIC MAGNETOHYDRODYNAMIC MODELS. <i>Astrophysical Journal</i> , 2011, 740, 112.	4.5	41
18	The First Ionization Potential Effect from the Ponderomotive Force: On the Polarization and Coronal Origin of Alfvén Waves. <i>Astrophysical Journal</i> , 2017, 844, 153.	4.5	36

#	ARTICLE	IF	CITATIONS
19	Laboratory Astrophysics Survey of Key X-ray Diagnostic Lines Using A Microcalorimeter on an Electron Beam Ion Trap. <i>Astrophysical Journal</i> , 2000, 541, 495-500.	4.5	33
20	Non-Maxwellian Proton Velocity Distributions in Nonradiative Shocks. <i>Astrophysical Journal</i> , 2008, 682, 408-415.	4.5	33
21	A burst model for line emission in the solar atmosphere. I - XUV lines of He I and He II in impulsive flares. <i>Astrophysical Journal</i> , 1992, 386, 364.	4.5	33
22	X-RAY SPECTROSCOPIC DIAGNOSIS OF A WIND-COLLIMATED BLAST WAVE AND METAL-RICH EJECTA FROM THE 2006 EXPLOSION OF RS OPHIUCHI. <i>Astrophysical Journal</i> , 2009, 691, 418-424.	4.5	31
23	Optical Tomography of Chemical Elements Synthesized in Type Ia Supernovae. <i>Physical Review Letters</i> , 2019, 123, 041101.	7.8	31
24	The Si/Ne Abundance Ratio in Polar Coronal Hole and Quiet-Sun Coronal Regions. <i>Astrophysical Journal</i> , 1998, 504, 573-587.	4.5	30
25	Simultaneous observation of Lyman- $\alpha$ and Balmer- $\beta$ transitions in hydrogenic iron, Fe <sup>25+</sup> : A novel technique for 1s Lamb-shift measurement. <i>Physical Review A</i> , 1987, 36, 1515-1518.	2.5	29
26	Measurement of relative oscillator strengths for Ni I. Transitions from levels Formula. <i>Monthly Notices of the Royal Astronomical Society</i> , 1989, 236, 235-245.	4.4	28
27	PONDEROMOTIVE ACCELERATION IN CORONAL LOOPS. <i>Astrophysical Journal</i> , 2016, 831, 160.	4.5	25
28	Global helium abundance measurements in the solar corona. <i>Nature Astronomy</i> , 2020, 4, 1134-1139.	10.1	25
29	Laboratory Identification of Temperature Diagnostic Sixteen Lines Present in the Solar Coronal Spectra Measured by SUMER/SOHO. <i>Astrophysical Journal</i> , 1997, 487, 956-961.	4.5	24
30	A burst model for line emission in the solar atmosphere. II - Coronal extreme ultraviolet lines. <i>Astrophysical Journal</i> , 1992, 398, 692.	4.5	24
31	Transient Inverse-FIP Plasma Composition Evolution within a Solar Flare. <i>Astrophysical Journal</i> , 2019, 875, 35.	4.5	22
32	The Elemental Composition of the Corona of Procyon: Evidence for the Absence of the FIP Effect. <i>Science</i> , 1995, 267, 1470-1473.	12.6	21
33	The Electron Pressure in the Solar Lower Transition Region Determined from Oxygen Density-Sensitive Line Ratios. <i>Astrophysical Journal</i> , 1998, 507, 991-996.	4.5	20
34	Stellar Coronal Abundances at Intermediate Activity Levels: $\approx 1/4$ UMa. <i>Astrophysical Journal</i> , 2005, 634, 1336-1345.	4.5	19
35	The 3C/3D Line Ratio in Ni XIX: New Abundance Theory and Experimental Results. <i>Physical Review Letters</i> , 2006, 97, 143201.	7.8	19
36	Helium Abundance in High-Temperature Solar Flare Plasmas. <i>Astrophysical Journal</i> , 2005, 619, 1142-1152.	4.5	18

#	ARTICLE	ships among the Intensities of $\text{Li}\tilde{\text{a}}\text{E}$ , $\text{Be}\tilde{\text{a}}\text{E}$ , and $\text{Na}\tilde{\text{a}}\text{E}$ like Resonance Lines in Collisionally Ionized	IF	CITATIONS
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#	ARTICLE	IF	CITATIONS
55	The Relationship of Solar Abundance Measurements to the Electron Temperature in a Polar Coronal Hole. <i>Astrophysical Journal</i> , 2000, 539, L71-L74.	4.5	8
56	Analog and digital simulations of Maxwellian plasmas for astrophysics. <i>Canadian Journal of Physics</i> , 2008, 86, 209-216.	1.1	5
57	Magnetic Field Geometry and Composition Variation in Slow Solar Winds: The Case of Sulfur. <i>Astrophysical Journal</i> , 2020, 895, 36.	4.5	5
58	Temperature Measurements in the Solar Transition Region Using Ni III Line Intensity Ratios. <i>Astrophysical Journal</i> , 2003, 590, 1121-1130.	4.5	3
59	A Compact Spectral Range and Matching Extreme-Ultraviolet Spectrometer for the Simultaneous Study of $1 \times 10^4$ – $2 \times 10^7$ K Solar Plasmas. <i>Astrophysical Journal</i> , 1998, 502, 997-1005.	4.5	3
60	The He II 1640 Angstrom Multiplet Observed from Solar Prominences: Erratum. <i>Astrophysical Journal</i> , 1993, 409, 869.	4.5	2
61	More Supernova Surprises. <i>Science</i> , 2010, 329, 1604-1605.	12.6	1
62	Analysis of ion charge states in solar wind and CMEs. <i>Journal of Astrophysics and Astronomy</i> , 2008, 29, 211-215.	1.0	0
63	Waves and Magnetism in the Solar Atmosphere (WAMIS). <i>Proceedings of the International Astronomical Union</i> , 2014, 10, 121-126.	0.0	0