

# Nicolas Labrosse

## List of Publications by Year in descending order

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53  
papers

1,265  
citations

394421

19  
h-index

361022

35  
g-index

53  
all docs

53  
docs citations

53  
times ranked

829  
citing authors

#	ARTICLE	IF	CITATIONS
1	Physics of Solar Prominences: Spectral Diagnostics and Non-LTE Modelling. <i>Space Science Reviews</i> , 2010, 151, 243-332.	8.1	322
2	Solar Science with the Atacama Large Millimeter/Submillimeter Array—A New View of Our Sun. <i>Space Science Reviews</i> , 2016, 200, 1-73.	8.1	113
3	TRACE, SOHO, and Ground-based Observations of a Quiescent Prominence. <i>Astrophysical Journal</i> , 2008, 686, 1383-1396.	4.5	95
4	Formation of helium spectrum in solar quiescent prominences. <i>Astronomy and Astrophysics</i> , 2001, 380, 323-340.	5.1	44
5	MAGNETIC FIELD IN ATYPICAL PROMINENCE STRUCTURES: BUBBLE, TORNADO, AND ERUPTION. <i>Astrophysical Journal</i> , 2016, 826, 164.	4.5	38
6	First evidence of non-Gaussian solar flare EUV spectral line profiles and accelerated non-thermal ion motion. <i>Astronomy and Astrophysics</i> , 2016, 590, A99.	5.1	37
7	STRUCTURE OF PROMINENCE LEGS: PLASMA AND MAGNETIC FIELD. <i>Astrophysical Journal</i> , 2016, 818, 31.	4.5	35
8	Non-LTE Radiative Transfer in Model Prominences. I. Integrated Intensities of HeI Triplet Lines. <i>Astrophysical Journal</i> , 2004, 617, 614-622.	4.5	32
9	The development of lower-atmosphere turbulence early in a solar flare. <i>Science Advances</i> , 2018, 4, eaav2794.	10.3	31
10	Radiative transfer in cylindrical threads with incident radiation. <i>Astronomy and Astrophysics</i> , 2009, 503, 663-671.	5.1	31
11	Observations of a solar flare and filament eruption in Lyman $\alpha$ and X-rays. <i>Astronomy and Astrophysics</i> , 2009, 507, 1005-1014.	5.1	30
12	A solar tornado observed by EIS. <i>Astronomy and Astrophysics</i> , 2015, 582, A27.	5.1	29
13	Non-Gaussian Velocity Distributions in Solar Flares from Extreme Ultraviolet Lines: A Possible Diagnostic of Ion Acceleration. <i>Astrophysical Journal</i> , 2017, 836, 35.	4.5	26
14	The EVE Doppler Sensitivity and Flare Observations. <i>Solar Physics</i> , 2011, 273, 69-80.	2.5	25
15	Reconstruction of a helical prominence in 3D from IRIS spectra and images. <i>Astronomy and Astrophysics</i> , 2017, 606, A30.	5.1	23
16	Modeling of the Hydrogen Lyman Lines in Solar Flares. <i>Astrophysical Journal</i> , 2018, 862, 59.	4.5	23
17	Automatic Detection of Limb Prominences in 304 Å... EUV Images. <i>Solar Physics</i> , 2010, 262, 449-460.	2.5	21
18	On the Dynamic Nature of a Quiescent Prominence Observed by IRIS and MSDP Spectrographs. <i>Astrophysical Journal</i> , 2018, 865, 123.	4.5	21

#	ARTICLE	IF	CITATIONS
19	EUV lines observed with EIS/Hinode in a solar prominence. <i>Astronomy and Astrophysics</i> , 2011, 531, A69.	5.1	20
20	H $\alpha$ Doppler shifts in a tornado in the solar corona. <i>Astronomy and Astrophysics</i> , 2017, 597, A109.	5.1	20
21	First Spectral Analysis of a Solar Plasma Eruption Using ALMA. <i>Astrophysical Journal</i> , 2019, 875, 163.	4.5	20
22	Plasma diagnostic in eruptive prominences from SDO/AIA observations at 304Å.... <i>Astronomy and Astrophysics</i> , 2012, 537, A100.	5.1	19
23	Effect of motions in prominences on the helium resonance lines in the extreme ultraviolet. <i>Astronomy and Astrophysics</i> , 2007, 463, 1171-1179.	5.1	18
24	Derivation of the Major Properties of Prominences Using NLTE Modelling. <i>Astrophysics and Space Science Library</i> , 2015, , 131-155.	2.7	15
25	Doppler speeds of the hydrogen Lyman lines in solar flares from EVE. <i>Astronomy and Astrophysics</i> , 2016, 596, A51.	5.1	15
26	Modelling of Mg $\epsilon$ lines in solar prominences. <i>Astronomy and Astrophysics</i> , 2019, 625, A30.	5.1	14
27	Solar prominence diagnostics from non-LTE modelling of Mg $\epsilon$ h&k line profiles. <i>Astronomy and Astrophysics</i> , 2021, 653, A5.	5.1	14
28	A ready-made code for the computation of prominence NLTE models. <i>Solar Physics</i> , 2000, 196, 349-355.	2.5	13
29	A global 2.5-dimensional three fluid solar wind model with alpha particles. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	12
30	Comparing UV/EUV line parameters and magnetic field in a quiescent prominence with tornadoes. <i>Astronomy and Astrophysics</i> , 2017, 607, A16.	5.1	12
31	Solar Prominence Modelling and Plasma Diagnostics at ALMA Wavelengths. <i>Solar Physics</i> , 2017, 292, 130.	2.5	11
32	Spectro-imagery of an active tornado-like prominence: Formation and evolution. <i>Astronomy and Astrophysics</i> , 2021, 653, A94.	5.1	10
33	Radiative transfer in cylindrical threads with incident radiation. <i>Astronomy and Astrophysics</i> , 2016, 587, A113.	5.1	9
34	Determining energy balance in the flaring chromosphere from oxygen V line ratios. <i>Astronomy and Astrophysics</i> , 2015, 584, A6.	5.1	8
35	On the Possibility of Detecting Helium D3 Line Polarization with Metis. <i>Astrophysical Journal</i> , 2020, 900, 8.	4.5	8
36	On the Lyman $\alpha$ and $\beta$ lines in solar coronal streamers. <i>Astronomy and Astrophysics</i> , 2006, 455, 719-723.	5.1	7

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37	Diagnostics of active and eruptive prominences through hydrogen and helium lines modelling. <i>Annales Geophysicae</i> , 2008, 26, 2961-2965.	1.6	7
38	Exploration of long-period oscillations in an H<i>Î±</i> prominence. <i>Astronomy and Astrophysics</i> , 2019, 623, A144.	5.1	6
39	SSALMON “The Solar Simulations for the Atacama Large Millimeter Observatory Network. <i>Advances in Space Research</i> , 2015, 56, 2679-2692.	2.6	5
40	First high resolution interferometric observation of a solar prominence with ALMA. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2022, 513, L30-L34.	3.3	5
41	Polarimetric measurements in prominences and “tornadoes” observed by THEMIS. <i>Proceedings of the International Astronomical Union</i> , 2014, 10, 275-281.	0.0	4
42	Visibility of Prominences Using the He&#i%o D3 Line Filter on the PROBA-3/ASPIICS Coronagraph. <i>Solar Physics</i> , 2018, 293, 1.	2.5	4
43	Spectral gradient of the thermal millimetre continuum as a diagnostic for optical thickness in the solar atmosphere. <i>Astronomy and Astrophysics</i> , 2018, 617, L6.	5.1	4
44	ALMA as a Prominence Thermometer: First Observations. <i>Astrophysical Journal Letters</i> , 2022, 927, L29.	8.3	3
45	Supporting Students in the Transition to Postgraduate Taught Study in STEM Subjects. <i>Journal of Perspectives in Applied Academic Practice</i> , 2017, 5, .	0.2	2
46	The role of filament activation in a solar eruption. <i>Astronomy and Astrophysics</i> , 2012, 539, A27.	5.1	1
47	Plasma properties in eruptive prominences. <i>Proceedings of the International Astronomical Union</i> , 2013, 8, 79-84.	0.0	1
48	The Influence of the Solar Coronal Radiation on Coronal Plasma Structures, I: Determination of the Incident Coronal Radiation. <i>Solar Physics</i> , 2018, 293, 35.	2.5	1
49	HiRISE - High-Resolution Imaging and Spectroscopy Explorer - Ultrahigh resolution, interferometric and external occulting coronagraphic science. <i>Experimental Astronomy</i> , 0, , 1.	3.7	1
50	Formation of Helium Lines in Solar Prominences. , 2009, , .		0
51	Solar flares: observations vs simulations. <i>Proceedings of the International Astronomical Union</i> , 2010, 6, 182-184.	0.0	0
52	Prominences in SDO/EVE spectra: contributions from large solar structures. <i>Proceedings of the International Astronomical Union</i> , 2013, 8, 439-440.	0.0	0
53	Spectral gradient of the thermal millimetre continuum as a diagnostic for optical thickness in the solar atmosphere (Corrigendum). <i>Astronomy and Astrophysics</i> , 2019, 623, C3.	5.1	0