

Jorrit Leenaarts

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

3,756
citations

159585

30
h-index

155660

55
g-index

56
all docs

56
docs citations

56
times ranked

1904
citing authors

#	ARTICLE	IF	CITATIONS
1	Heating of the solar chromosphere through current dissipation. <i>Astronomy and Astrophysics</i> , 2022, 661, A59.	5.1	11
2	Mapping solar magnetic fields from the photosphere to the base of the corona. <i>Science Advances</i> , 2021, 7, .	10.3	42
3	An observationally constrained model of strong magnetic reconnection in the solar chromosphere. <i>Astronomy and Astrophysics</i> , 2021, 647, A188.	5.1	18
4	Solar oxygen abundance. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 508, 2236-2253.	4.4	38
5	Line formation of He I D ₃ and He I 10 830 Å... in a small-scale reconnection event. <i>Astronomy and Astrophysics</i> , 2021, 652, A146.	5.1	1
6	Radiation hydrodynamics in simulations of the solar atmosphere. <i>Living Reviews in Solar Physics</i> , 2020, 17, 1.	22.0	19
7	Ion-neutral Interactions and Nonequilibrium Ionization in the Solar Chromosphere. <i>Astrophysical Journal</i> , 2020, 889, 95.	4.5	39
8	Observational constraints on the origin of the elements. <i>Astronomy and Astrophysics</i> , 2020, 634, A55.	5.1	33
9	The multi-thermal chromosphere. <i>Astronomy and Astrophysics</i> , 2020, 634, A56.	5.1	29
10	Physical properties of bright Ca II K fibrils in the solar chromosphere. <i>Astronomy and Astrophysics</i> , 2020, 637, A1.	5.1	18
11	ALMA observations of transient heating in a solar active region. <i>Astronomy and Astrophysics</i> , 2020, 643, A41.	5.1	12
12	New Light on an Old Problem of the Cores of Solar Resonance Lines. <i>Astrophysical Journal</i> , 2020, 901, 32.	4.5	9
13	Three-dimensional modeling of chromospheric spectral lines in a simulated active region. <i>Astronomy and Astrophysics</i> , 2019, 631, A33.	5.1	31
14	Recent advancements in the EST project. <i>Advances in Space Research</i> , 2019, 63, 1389-1395.	2.6	27
15	Chromospheric observations and magnetic configuration of a supergranular structure. <i>Astronomy and Astrophysics</i> , 2019, 621, A1.	5.1	11
16	Chromospheric condensations and magnetic field in a C3.6-class flare studied via He I D ₃ spectro-polarimetry. <i>Astronomy and Astrophysics</i> , 2019, 621, A35.	5.1	37
17	STiC: A multiatom non-LTE PRD inversion code for full-Stokes solar observations. <i>Astronomy and Astrophysics</i> , 2019, 623, A74.	5.1	100
18	Observational constraints on the origin of the elements. <i>Astronomy and Astrophysics</i> , 2019, 631, A80.	5.1	88

#	ARTICLE	IF	CITATIONS
19	Tracing the evolution of radiation-MHD simulations of solar and stellar atmospheres in the Lagrangian frame. <i>Astronomy and Astrophysics</i> , 2018, 616, A136.	5.1	2
20	The chromosphere above a δ -sunspot in the presence of fan-shaped jets. <i>Astronomy and Astrophysics</i> , 2018, 609, A14.	5.1	16
21	Temperature constraints from inversions of synthetic solar optical, UV, and radio spectra. <i>Astronomy and Astrophysics</i> , 2018, 620, A124.	5.1	28
22	Three-dimensional modeling of the Ca II H and K lines in the solar atmosphere. <i>Astronomy and Astrophysics</i> , 2018, 611, A62.	5.1	46
23	Chromospheric heating during flux emergence in the solar atmosphere. <i>Astronomy and Astrophysics</i> , 2018, 612, A28.	5.1	34
24	Partial redistribution in 3D non-LTE radiative transfer in solar-atmosphere models. <i>Astronomy and Astrophysics</i> , 2017, 597, A46.	5.1	39
25	Numerical non-LTE 3D radiative transfer using a multigrid method. <i>Astronomy and Astrophysics</i> , 2017, 599, A118.	5.1	11
26	The Formation of IRIS Diagnostics. IX. The Formation of the C i 135.58 NM Line in the Solar Atmosphere. <i>Astrophysical Journal</i> , 2017, 846, 40.	4.5	10
27	Comparison of Solar Fine Structure Observed Simultaneously in Ly β and Mg ii h. <i>Astrophysical Journal</i> , 2017, 847, 141.	4.5	8
28	A First Comparison of Millimeter Continuum and Mg ii Ultraviolet Line Emission from the Solar Chromosphere. <i>Astrophysical Journal Letters</i> , 2017, 845, L19.	8.3	32
29	Observations of Ellerman bomb emission features in He I λ 1083 nm and He I λ 10830 Å... <i>Astronomy and Astrophysics</i> , 2017, 598, A33.	5.1	28
30	NON-LTE INVERSIONS OF THE Mg ii h & k AND UV TRIPLET LINES. <i>Astrophysical Journal Letters</i> , 2016, 830, L30.	8.3	71
31	A publicly available simulation of an enhanced network region of the Sun. <i>Astronomy and Astrophysics</i> , 2016, 585, A4.	5.1	152
32	The cause of spatial structure in solar He I λ 1083 nm multiplet images. <i>Astronomy and Astrophysics</i> , 2016, 594, A104.	5.1	29
33	NON-EQUILIBRIUM HELIUM IONIZATION IN AN MHD SIMULATION OF THE SOLAR ATMOSPHERE. <i>Astrophysical Journal</i> , 2016, 817, 125.	4.5	43
34	Non-LTE oxygen line formation in 3D hydrodynamic model stellar atmospheres. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 455, 3735-3751.	4.4	91
35	Fan-shaped jets above the light bridge of a sunspot driven by reconnection. <i>Astronomy and Astrophysics</i> , 2016, 590, A57.	5.1	49
36	Chromospheric Layer SpectroPolarimeter (CLASP2). <i>Proceedings of SPIE</i> , 2016, , .	0.8	15

#	ARTICLE	IF	CITATIONS
37	THE FORMATION OF IRIS DIAGNOSTICS. VI. THE DIAGNOSTIC POTENTIAL OF THE C II LINES AT 133.5 nm IN THE SOLAR ATMOSPHERE. <i>Astrophysical Journal</i> , 2015, 811, 81.	4.5	51
38	OBSERVED VARIABILITY OF THE SOLAR Mg II h SPECTRAL LINE. <i>Astrophysical Journal</i> , 2015, 811, 127.	4.5	30
39	THREE-DIMENSIONAL RADIATIVE TRANSFER SIMULATIONS OF THE SCATTERING POLARIZATION OF THE HYDROGEN LY α LINE IN A MAGNETOHYDRODYNAMIC MODEL OF THE CHROMOSPHERE-CORONA TRANSITION REGION. <i>Astrophysical Journal</i> , 2015, 803, 65.	4.5	44
40	WHAT DO IRIS OBSERVATIONS OF Mg II k TELL US ABOUT THE SOLAR PLAGE CHROMOSPHERE?. <i>Astrophysical Journal Letters</i> , 2015, 809, L30.	8.3	59
41	ON FIBRILS AND FIELD LINES: THE NATURE OF H α FIBRILS IN THE SOLAR CHROMOSPHERE. <i>Astrophysical Journal</i> , 2015, 802, 136.	4.5	61
42	DETAILED AND SIMPLIFIED NONEQUILIBRIUM HELIUM IONIZATION IN THE SOLAR ATMOSPHERE. <i>Astrophysical Journal</i> , 2014, 784, 30.	4.5	61
43	The Interface Region Imaging Spectrograph (IRIS). <i>Solar Physics</i> , 2014, 289, 2733-2779.	2.5	948
44	THE EFFECT OF ISOTOPIC SPLITTING ON THE BISECTOR AND INVERSIONS OF THE SOLAR Ca II 854.2 nm LINE. <i>Astrophysical Journal Letters</i> , 2014, 784, L17.	8.3	32
45	THE FORMATION OF IRIS DIAGNOSTICS. II. THE FORMATION OF THE Mg II h&k LINES IN THE SOLAR ATMOSPHERE. <i>Astrophysical Journal</i> , 2013, 772, 90.	4.5	196
46	THE FORMATION OF IRIS DIAGNOSTICS. I. A QUINTESSENTIAL MODEL ATOM OF Mg II AND GENERAL FORMATION PROPERTIES OF THE Mg II h&k LINES. <i>Astrophysical Journal</i> , 2013, 772, 89.	4.5	142
47	A DETAILED COMPARISON BETWEEN THE OBSERVED AND SYNTHESIZED PROPERTIES OF A SIMULATED TYPE II SPICULE. <i>Astrophysical Journal</i> , 2013, 771, 66.	4.5	28
48	THE FORMATION OF IRIS DIAGNOSTICS. III. NEAR-ULTRAVIOLET SPECTRA AND IMAGES. <i>Astrophysical Journal</i> , 2013, 778, 143.	4.5	97
49	THE HANLE EFFECT OF Ly α IN A MAGNETOHYDRODYNAMIC MODEL OF THE SOLAR TRANSITION REGION. <i>Astrophysical Journal Letters</i> , 2012, 758, L43.	8.3	22
50	THE FORMATION OF THE H β LINE IN THE SOLAR CHROMOSPHERE. <i>Astrophysical Journal</i> , 2012, 749, 136.	4.5	201
51	THE QUIET SOLAR ATMOSPHERE OBSERVED AND SIMULATED IN Na I D ₁ . <i>Astrophysical Journal</i> , 2010, 709, 1362-1373.	4.5	47
52	ON-DISK COUNTERPARTS OF TYPE II SPICULES IN THE Ca II 854.2 nm AND H β LINES. <i>Astrophysical Journal</i> , 2009, 705, 272-284.	4.5	160
53	THREE-DIMENSIONAL NON-LTE RADIATIVE TRANSFER COMPUTATION OF THE CA 8542 INFRARED LINE FROM A RADIATION-MHD SIMULATION. <i>Astrophysical Journal</i> , 2009, 694, L128-L131.	4.5	88
54	Star cluster disruption by giant molecular clouds. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006, 371, 793-804.	4.4	211

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55	The Dutch Open Telescope on La Palma. Proceedings of the International Astronomical Union, 2004, 2004, 597-604.	0.0	6