

Jaroslav Dudě-k

List of Publications by Year in descending order

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56
papers

1,300
citations

394421

19
h-index

361022

35
g-index

57
all docs

57
docs citations

57
times ranked

700
citing authors

#	ARTICLE	IF	CITATIONS
1	SLIPPING MAGNETIC RECONNECTION DURING AN X-CLASS SOLAR FLARE OBSERVED BY <i>SDO</i> /AIA. <i>Astrophysical Journal</i> , 2014, 784, 144.	4.5	114
2	SLIPPING MAGNETIC RECONNECTION, CHROMOSPHERIC EVAPORATION, IMPLOSION, AND PRECURSORS IN THE 2014 SEPTEMBER 10 X1.6-CLASS SOLAR FLARE. <i>Astrophysical Journal</i> , 2016, 823, 41.	4.5	89
3	SIMULTANEOUS IRIS AND HINODE/EIS OBSERVATIONS AND MODELING OF THE 2014 OCTOBER 27 X2.0-CLASS FLARE. <i>Astrophysical Journal</i> , 2016, 816, 89.	4.5	70
4	Topological Departures from Translational Invariance along a Filament Observed by THEMIS. <i>Solar Physics</i> , 2008, 248, 29-50.	2.5	66
5	Drifting of the line-tied footpoints of CME flux-ropes. <i>Astronomy and Astrophysics</i> , 2019, 621, A72.	5.1	66
6	Nonequilibrium Processes in the Solar Corona, Transition Region, Flares, and Solar Wind (Invited) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 5</i>	2.5	60
7	MAGNETIC TOPOLOGY OF BUBBLES IN QUIESCENT PROMINENCES. <i>Astrophysical Journal</i> , 2012, 761, 9.	4.5	57
8	KAPPA: A PACKAGE FOR SYNTHESIS OF OPTICALLY THIN SPECTRA FOR THE NON-MAXWELLIAN $\hat{\nu}$ -DISTRIBUTIONS BASED ON THE CHIANTI DATABASE. <i>Astrophysical Journal, Supplement Series</i> , 2015, 217, 14.	7.7	52
9	SOLAR TRANSITION REGION LINES OBSERVED BY THE <i>INTERFACE REGION IMAGING SPECTROGRAPH</i> : DIAGNOSTICS FOR THE O IV AND Si IV LINES. <i>Astrophysical Journal Letters</i> , 2014, 780, L12.	8.3	51
10	Density diagnostics derived from the O ^{iv} and S ^{iv} intercombination lines observed by IRIS. <i>Astronomy and Astrophysics</i> , 2016, 594, A64.	5.1	46
11	H TO Zn IONIZATION EQUILIBRIUM FOR THE NON-MAXWELLIAN ELECTRON $\hat{\nu}$ -DISTRIBUTIONS: UPDATED CALCULATIONS. <i>Astrophysical Journal, Supplement Series</i> , 2013, 206, 6.	7.7	44
12	Broad Non-Gaussian Fe xxiv Line Profiles in the Impulsive Phase of the 2017 September 10 X8.3-class Flare Observed by Hinode/EIS. <i>Astrophysical Journal</i> , 2018, 864, 63.	4.5	44
13	Magnetic field and radiative transfer modelling of a quiescent prominence. <i>Astronomy and Astrophysics</i> , 2014, 567, A123.	5.1	35
14	Non-Maxwellian Analysis of the Transition-region Line Profiles Observed by the Interface Region Imaging Spectrograph. <i>Astrophysical Journal</i> , 2017, 842, 19.	4.5	35
15	Signatures of the non-Maxwellian $\hat{\nu}$ -distributions in optically thin line spectra. <i>Astronomy and Astrophysics</i> , 2014, 570, A124.	5.1	28
16	IMAGING AND SPECTROSCOPIC OBSERVATIONS OF A TRANSIENT CORONAL LOOP: EVIDENCE FOR THE NON-MAXWELLIAN $\hat{\nu}$ -DISTRIBUTIONS. <i>Astrophysical Journal</i> , 2015, 807, 123.	4.5	27
17	The bound-bound and free-free radiative losses for the nonthermal distributions in solar and stellar coronae. <i>Astronomy and Astrophysics</i> , 2011, 529, A103.	5.1	21
18	Fast Magnetoacoustic Waves in a Fan Structure Above a Coronal Magnetic Null Point. <i>Solar Physics</i> , 2013, 283, 473-488.	2.5	21

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19	Observations of a Footpoint Drift of an Erupting Flux Rope. <i>Astrophysical Journal</i> , 2019, 883, 96.	4.5	21
20	Sunspot waves and flare energy release. <i>Astronomy and Astrophysics</i> , 2015, 577, A43.	5.1	20
21	Vortex and Sink Flows in Eruptive Flares as a Model for Coronal Implosions. <i>Astrophysical Journal</i> , 2017, 837, 115.	4.5	20
22	Differential emission measure analysis of active region cores and quiet Sun for the non-Maxwellian n -distributions. <i>Astronomy and Astrophysics</i> , 2014, 564, A130.	5.1	19
23	Observation of All Pre- and Post-reconnection Structures Involved in Three-dimensional Reconnection Geometries in Solar Eruptions. <i>Astrophysical Journal</i> , 2019, 887, 71.	4.5	18
24	EUV filter responses to plasma emission for the nonthermal n -distributions. <i>Astronomy and Astrophysics</i> , 2009, 505, 1255-1264.	5.1	17
25	Manifestations of Three-dimensional Magnetic Reconnection in an Eruption of a Quiescent Filament: Filament Strands Turning to Flare Loops. <i>Astrophysical Journal</i> , 2019, 885, 83.	4.5	17
26	Spectroscopic Diagnostics of the Non-Maxwellian n -distributions Using SDO/EVE Observations of the 2012 March 7 X-class Flare. <i>Astrophysical Journal</i> , 2018, 853, 158.	4.5	16
27	Importance of the $H\alpha$ Visibility and Projection Effects for the Interpretation of Prominence Fine-structure Observations. <i>Astrophysical Journal</i> , 2018, 867, 115.	4.5	16
28	The ionization equilibrium and flare line spectra for the electron distribution with a power-law tail. <i>Astronomy and Astrophysics</i> , 2011, 531, A111.	5.1	15
29	On the Possibility to Diagnose the Non-Maxwellian n -Distributions from the Hinode/EIS EUV Spectra. <i>Solar Physics</i> , 2013, 282, 263-281.	2.5	15
30	The non-Maxwellian continuum in the X-ray, UV, and radio range. <i>Astronomy and Astrophysics</i> , 2012, 539, A107.	5.1	14
31	Expanding and Contracting Coronal Loops as Evidence of Vortex Flows Induced by Solar Eruptions. <i>Astrophysical Journal</i> , 2017, 844, 54.	4.5	14
32	On the physical meaning of n -distributions in solar flares. <i>Astronomy and Astrophysics</i> , 2012, 537, A36.	5.1	14
33	Plasma Diagnostics from Active Region and Quiet-Sun Spectra Observed by Hinode/EIS: Quantifying the Departures from a Maxwellian Distribution. <i>Astrophysical Journal</i> , 2020, 893, 34.	4.5	13
34	ON THE AREA EXPANSION OF MAGNETIC FLUX TUBES IN SOLAR ACTIVE REGIONS. <i>Astrophysical Journal</i> , 2014, 796, 20.	4.5	12
35	Imaging Evidence for Solar Wind Outflows Originating from a Coronal Mass Ejection Footpoint. <i>Astrophysical Journal</i> , 2021, 906, 62.	4.5	12
36	Slipping reconnection in a solar flare observed in high resolution with the GREGOR solar telescope. <i>Astronomy and Astrophysics</i> , 2016, 596, A1.	5.1	10

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37	Non-equilibrium ionization by a periodic electron beam. <i>Astronomy and Astrophysics</i> , 2016, 589, A68.	5.1	9
38	Signatures of the non-Maxwellian κ -distributions in optically thin line spectra. <i>Astronomy and Astrophysics</i> , 2019, 626, A88.	5.1	9
39	Is it possible to model observed active region coronal emission simultaneously in EUV and X-ray filters?. <i>Astronomy and Astrophysics</i> , 2011, 531, A115.	5.1	9
40	Non-equilibrium ionization by a periodic electron beam. <i>Astronomy and Astrophysics</i> , 2018, 610, A67.	5.1	8
41	Velocities of Flare Kernels and the Mapping Norm of Field Line Connectivity. <i>Astrophysical Journal</i> , 2019, 881, 68.	4.5	8
42	KAPPA: A Package for the Synthesis of Optically Thin Spectra for the Non-Maxwellian κ -distributions. II. Major Update to Compatibility with CHIANTI Version 10. <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 62.	7.7	8
43	Diagnostics of Non-Maxwellian Electron Distributions in Solar Active Regions from Fe xii Lines Observed by the Hinode Extreme Ultraviolet Imaging Spectrometer and Interface Region Imaging Spectrograph. <i>Astrophysical Journal</i> , 2022, 930, 61.	4.5	8
44	Synthetic IRIS spectra of the solar transition region: Effect of high-energy tails. <i>Astronomy and Astrophysics</i> , 2017, 603, A14.	5.1	7
45	Electron Densities in the Solar Corona Measured Simultaneously in the Extreme Ultraviolet and Infrared. <i>Astrophysical Journal</i> , 2021, 906, 118.	4.5	7
46	Analytical model of static coronal loops. <i>Astronomy and Astrophysics</i> , 2009, 502, 957-968.	5.1	4
47	Solar Radio Burst Associated with the Falling Bright EUV Blob. <i>Astrophysical Journal Letters</i> , 2018, 854, L29.	8.3	3
48	Dielectronic satellite lines and double layers in solar flares. <i>Astronomy and Astrophysics</i> , 2013, 550, A60.	5.1	3
49	Kappa Distributions and the Solar Spectra. , 2017, , 523-547.		2
50	Saddle-shaped Solar Flare Arcades. <i>Astrophysical Journal Letters</i> , 2021, 909, L4.	8.3	2
51	Diagnostics of Kappa Distributions from Optically Thin Solar Spectra. <i>Astrophysics and Space Science Library</i> , 2021, , 53-87.	2.7	2
52	Ionisation Equilibrium for the Non-Maxwellian Electron n_{κ} -Distributions in Solar Flares: Updated Calculations. <i>Solar Physics</i> , 2015, 290, 3545-3558.	2.5	1
53	Flare Expansion to a Magnetic Rope Accompanied by Rare Radio Bursts. <i>Astrophysical Journal</i> , 2020, 905, 111.	4.5	1
54	GREGOR observations of a small flare above a sunspot. <i>Proceedings of the International Astronomical Union</i> , 2015, 11, 68-73.	0.0	0

#	ARTICLE	IF	CITATIONS
55	Updated calculations of the ionization equilibrium for the non-Maxwellian electron $\langle v \rangle$ -distributions in solar flares. Proceedings of the International Astronomical Union, 2015, 11, 243-245.	0.0	0
56	Diagnostics of non-thermal-distributions from solar flare EUV line spectra. Proceedings of the International Astronomical Union, 2019, 15, 414-417.	0.0	0