Jan Rybak

List of Publications by Year in descending order

79 papers	1,279 citations	361413 20 h-index	361022 35 g-index
88 all docs	88 docs citations	88 times ranked	892 citing authors

#	Article	IF	Citations
1	Acceleration in Fast Halo CMEs and Synchronized Flare HXR Bursts. Astrophysical Journal, 2008, 673, L95-L98.	4.5	173
2	Hemispheric sunspot numbers ${R_{n}}$ and ${R_{s}}$ from 1945â€“2004: catalogue and N-S asymmetry analysis for solar cycles 18â€“23. Astronomy and Astrophysics, 2006, 447, 735-743.	5.1	158
3	Time Evolution of low-Frequency Periodicities in Cosmic ray Intensity. Solar Physics, 2002, 205, 165-175.	2.5	88
4	Temporal variability of the flare index (1966â€“2001). Solar Physics, 2003, 214, 375-396.	2.5	82
5	Dynamics of isolated magnetic bright points derived from Hinode/SOT G-band observations. Astronomy and Astrophysics, 2010, 511, A39.	5.1	48
6	Magnetic loop emergence within a granule. Astronomy and Astrophysics, 2010, 511, A14.	5.1	48
7	TADPOLES IN WAVELET SPECTRA OF A SOLAR DECIMETRIC RADIO BURST. Astrophysical Journal, 2009, 697, L108-L110.	4.5	42
8	MULTIWAVELENGTH IMAGING AND SPECTROSCOPY OF CHROMOSPHERIC EVAPORATION IN AN M-CLASS SOLAR FLARE. Astrophysical Journal, 2010, 719, 655-670.	4.5	36
9	Manifestations of the Northâ€‰â€“â€‰South Asymmetry inÂtheÂPhotosphere and in the Green Line Corona. Solar Physics, 2010, 261, 321-335.	2.5	34
10	Evaluation of the short-term periodicities in the flare index between the years 1966â€“2002. Solar Physics, 2004, 223, 287-304.	2.5	32
11	The Wavelet Analysis of the Solar and Cosmic-Ray Data. Space Science Reviews, 2001, 97, 359-362.	8.1	27
12	TEMPORAL VARIABILITY OF THE CORONAL GREEN-LINE INDEX (1947â€“1998). Solar Physics, 2002, 205, 177-187.	2.5	26
13	Rotational characteristics of the green solar corona: 1964?1989. Solar Physics, 1994, 152, 161-166.	2.5	24
14	Radio spectra generated during coalescence processes ofÂplasmoids in a flare current sheet. Astronomy and Astrophysics, 2010, 514, A28.	5.1	24
15	Magnetoacoustic Wave Trains in the 11 July 2005 Radio Event with Fiber Bursts. Solar Physics, 2011, 273, 393-402.	2.5	22
16	MAGNETOACOUSTIC WAVES PROPAGATING ALONG A DENSE SLAB AND HARRIS CURRENT SHEET AND THEIR WAVELET SPECTRA. Astrophysical Journal, 2014, 788, 44.	4.5	22
17	Flare index variability in the ascending branch of solar cycle 23. Journal of Geophysical Research, 2002, 107, SSH 11-1.	3.3	21
18	Long period variations of dm-radio and X-ray fluxes in three X-class flares. Astronomy and Astrophysics, 2006, 460, 865-874.	5.1	21

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19	Coronal manifestations of solar variability. Advances in Space Research, 2005, 35, 393-399.	2.6	20
20	Quasibiennial Oscillations of the Northâ€“South Asymmetry. Astronomy Reports, 2005, 49, 659.	0.9	20
21	Temporal Expertise Profiling. Lecture Notes in Computer Science, 2014, , 540-546.	1.3	20
22	â€œDrifting tadpolesâ€•in wavelet spectra of decimetric radio emission of fiber bursts. Astronomy and Astrophysics, 2009, 502, L13-L15.	5.1	20
23	Multi-wavelength fine structure and mass flows in solar microflares. Astronomy and Astrophysics, 2009, 505, 811-823.	5.1	19
24	Precise reduction of solar spectra obtained with large CCD arrays. Astronomy and Astrophysics, 2002, 394, 1077-1091.	5.1	18
25	Analyses of magnetic field structures for active region 10720 using a data-driven 3D MHD model. Advances in Space Research, 2009, 44, 46-53.	2.6	17
26	Spectroscopic Inversions of the Ca ii 8542 â„« Line in a C-class Solar Flare. Astrophysical Journal, 2017, 846, 9.	4.5	17
27	Drifting Pulsation Structure at the Very Beginning of the 2017 September 10 Limb Flare. Astrophysical Journal, 2020, 889, 72.	4.5	16
28	Periodicities in Irradiance and in other Solar Activity Indices During Cycle 23. Solar Physics, 2006, 237, 433-444.	2.5	14
29	On Dynamics of G-Band Bright Points. Solar Physics, 2014, 289, 1543-1556.	2.5	13
30	Indications of shock waves in the solar photosphere. Astronomy and Astrophysics, 2004, 420, 1141-1152.	5.1	12
31	Overview of the flare index during the maximum phase of the solar cycle 23. Advances in Space Research, 2005, 35, 400-405.	2.6	11
32	Coronal fast wave trains of the decimetric type IV radio event observed during the decay phase of the June 6, 2000 flare. Advances in Space Research, 2009, 43, 1479-1483.	2.6	10
33	Oscillation Maps in the Broadband Radio Spectrum of the 1 August 2010 Event. Solar Physics, 2017, 292, 1.	2.5	10
34	The Solar and Cosmic-Ray Synodic Periodicity (1969â€“1998). Space Science Reviews, 2001, 97, 355-358.	8.1	9
35	Separation of drifting pulsating structures in aÂcomplex radio spectrum of the 2001ÂAprilÂ11 event. Astronomy and Astrophysics, 2011, 525, A88.	5.1	9
36	Broadband microwave sub-second pulsations in an expanding coronal loop of the 2011 August 10 flare. Astronomy and Astrophysics, 2016, 593, A80.	5.1	9

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37	SOHO/CDS observations of waves above the network. Astronomy and Astrophysics, 2006, 448, 1169-1175.	5.1	9
38	On the 24-day period observed in solar flare occurrence. Solar Physics, 2004, 221, 325-335.	2.5	8
39	Intermittence of the short-term periodicities of the flare index. Advances in Space Research, 2005, 35, 406-409.	2.6	7
40	Electron Densities in the Solar Corona Measured Simultaneously in the Extreme Ultraviolet and Infrared. Astrophysical Journal, 2021, 906, 118.	4.5	7
41	Narrowband Spikes Observed during the 2013 November 7 Flare. Astrophysical Journal, 2021, 910, 108.	4.5	5
42	The 2017 September 6 Flare: Radio Bursts and Pulsations in the 22â€“5000 MHz Range and Associated Phenomena. Astrophysical Journal, Supplement Series, 2020, 250, 31.	7.7	5
43	ExperTime. , 2014, , .		4
44	Waves and Magnetism in the Solar Atmosphere (WAMIS). Frontiers in Astronomy and Space Sciences, 2016, 3, .	2.8	4
45	Oscillations in the 45â€‰â€“â€‰5000 MHz Radio Spectrum of the 18 April 2014 Flare. Solar Physics, 2017, 292, 1.	2.5	4
46	Oscillations and Waves in Radio Source of Drifting Pulsation Structures. Solar Physics, 2018, 293, 1.	2.5	4
47	Observation of Turbulence in Solar Surface Convection: I. Line Parameter Correlations. Solar Physics, 2008, 249, 293-306.	2.5	3
48	NLTE modeling of a small active region filament observed with the VTT. Astronomische Nachrichten, 2016, 337, 1045-1049.	1.2	3
49	What causes the 24-day period observed in solar flares?. Astronomy and Astrophysics, 2005, 433, 707-712.	5.1	3
50	Photospheric modeling through spectral line inversion. Astronomy and Astrophysics, 2006, 458, 941-951.	5.1	3
51	Periodical patterns in major flare occurrence and their relation to magnetically complex active regions. Advances in Space Research, 2006, 38, 886-890.	2.6	2
52	Spectral Characteristics of the Heâ€‰i D3 Line in a Quiescent Prominence Observed by THEMIS. Solar Physics, 2017, 292, 1.	2.5	2
53	Fourier Power Spectra of Solar Noise Storms. Solar Physics, 2018, 293, 1.	2.5	2
54	Gradient Path Labelling method and tracking method for calculation of solar differential rotation using coronal bright points. Astronomy and Computing, 2018, 25, 168-175.	1.7	2

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55	Narrowband Spikes Observed During the 13 June 2012 Flare in the 800â€‰â€“â€‰2000 MHz Range. Solar Physics, 2022, 297, .	2.5	2
56	On the correlation between daily GCR intensity values and LDE-type flare index (1987, 1988, 1990 and) Tj ETQq0 0 0 rgBT /Overlock 10	2.6	1
57	Two-dimensional spectroscopic time series of solar granulation. Solar Physics, 2004, 223, 13-26.	2.5	1
58	Coronal Multi-channel Polarimeter at the Lomnicky Peak Observatory. Proceedings of the International Astronomical Union, 2013, 8, 521-522.	0.0	1
59	â€˜Universal Freedomâ€™ and the Balfour declaration: watershed moments for radical Jewish politics. European Review of History/Revue Europeenne D'Histoire, 2019, 26, 783-806.	0.2	1
60	The SLED project and the dynamics of coronal flux ropes. Advances in Space Research, 2021, , .	2.6	1
61	The Location of Solar Oscillations in the Photosphere. Astrophysics and Space Science Library, 2001, , 267-270.	2.7	1
62	Influence of the 5-min oscillations on solar photospheric layers. Astronomy and Astrophysics, 2005, 444, 257-264.	5.1	1
63	The horizontal solar telescope with spectrograph at StarÃ¡ LesnÃ¡ Observatory. Astrophysics and Space Science, 1990, 171, 279-281.	1.4	0
64	Hot mass transport in the solar active prominence. AIP Conference Proceedings, 1992, , .	0.4	0
65	Cosmic-ray modulation and long-duration solar flare events. Solar Physics, 1994, 154, 371-376.	2.5	0
66	Daily values of the solar SXR background and modulation of GCRs (1987, 1988, 1990 and 1992). Advances in Space Research, 1995, 16, 237-240.	2.6	0
67	Evolution of temperature in granule and intergranular space. Astronomische Nachrichten, 2003, 324, 349-351.	1.2	0
68	Dynamics and turbulence of the chromospheric layers of a flaring atmosphere. Astronomische Nachrichten, 2003, 324, 366-366.	1.2	0
69	Evidence of the fundamental periodicity in the flare index between the years 1966-2002. Proceedings of the International Astronomical Union, 2004, 2004, 557-558.	0.0	0
70	Separation of solar radio bursts in a complex spectrum. Proceedings of the International Astronomical Union, 2010, 6, 150-152.	0.0	0
71	Transmission profile of the Dutch Open Telescope HÎ± Lyot filter. Astronomische Nachrichten, 2014, 335, 409-416.	1.2	0
72	Waves and Magnetism in the Solar Atmosphere (WAMIS). Proceedings of the International Astronomical Union, 2014, 10, 121-126.	0.0	0

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73	Riga at War 1914â€“1919. War and Wartime Experience in a Multi-ethnic Metropolis. Europe-Asia Studies, 2016, 68, 1086-1088.	0.5	0
74	CBPTracker - a web tool to detect and track Solar features from SDO/ AIA images. , 2019, , .		0
75	The Solar Line Emission Dopplerometer project. Experimental Astronomy, 0, , 1.	3.7	0
76	Chromospheric Dynamics as Can Be Inferred from Sumer/SOHO Observations. Astrophysics and Space Science Library, 2001, , 247-250.	2.7	0
77	FeXIV Line Emission Polarization of the July 11, 1991 Solar Corona. International Astronomical Union Colloquium, 1994, 144, 541-547.	0.1	0
78	Long Duration Solar Flare Events and Cosmic Ray Modulation (1969-1992). International Astronomical Union Colloquium, 1994, 144, 499-502.	0.1	0
79	Correlation of Velocity Fields at Different Heights in the Solar Photosphere. Astrophysics and Space Science Library, 1999, , 219-222.	2.7	0