

Gelu M NiÅ£Ç

List of Publications by Year in descending order

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58
papers

1,412
citations

331670

21
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345221

36
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60
all docs

60
docs citations

60
times ranked

922
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic Field Re-configuration Associated With a Slow Rise Eruptive X1.2 Flare in NOAA Active Region 11944. <i>Frontiers in Astronomy and Space Sciences</i> , 2022, 9, .	2.8	2
2	Solar flare accelerates nearly all electrons in a large coronal volume. <i>Nature</i> , 2022, 606, 674-677.	27.8	33
3	Coronal Heating Law Constrained by Microwave Gyroresonant Emission. <i>Astrophysical Journal</i> , 2021, 909, 89.	4.5	8
4	Energy Budget of Plasma Motions, Heating, and Electron Acceleration in a Three-loop Solar Flare. <i>Astrophysical Journal</i> , 2021, 913, 97.	4.5	7
5	Understanding the Initiation of the M2.4 Flare on 2017 July 14. <i>Astrophysical Journal</i> , 2021, 922, 108.	4.5	3
6	Measurement of magnetic field and relativistic electrons along a solar flare current sheet. <i>Nature Astronomy</i> , 2020, 4, 1140-1147.	10.1	87
7	Evolution of Flare-Accelerated Electrons Quantified by Spatially Resolved Analysis. <i>Frontiers in Astronomy and Space Sciences</i> , 2020, 7, .	2.8	6
8	Decay of the coronal magnetic field can release sufficient energy to power a solar flare. <i>Science</i> , 2020, 367, 278-280.	12.6	91
9	Magnetic Reconnection during the Post-impulsive Phase of a Long-duration Solar Flare: Bidirectional Outflows as a Cause of Microwave and X-Ray Bursts. <i>Astrophysical Journal</i> , 2020, 900, 17.	4.5	42
10	Statistical Discrimination of RFI and Astronomical Transients in 2-bit Digitized Time Domain Signals. <i>Journal of Astronomical Instrumentation</i> , 2019, 08, .	1.5	5
11	Dressing the Coronal Magnetic Extrapolations of Active Regions with a Parameterized Thermal Structure. <i>Astrophysical Journal</i> , 2018, 853, 66.	4.5	26
12	Three-dimensional Forward-fit Modeling of the Hard X-Ray and Microwave Emissions of the 2015 June 22 M6.5 Flare. <i>Astrophysical Journal</i> , 2018, 852, 32.	4.5	27
13	STATISTICAL DETECTION AND CLASSIFICATION OF TRANSIENT SIGNALS IN LOW-BIT SAMPLING TIME-DOMAIN SIGNALS. , 2018, , .		0
14	The Coronal Volume of Energetic Particles in Solar Flares as Revealed by Microwave Imaging. <i>Astrophysical Journal</i> , 2018, 867, 81.	4.5	10
15	Revealing the Evolution of Non-thermal Electrons in Solar Flares Using 3D Modeling. <i>Astrophysical Journal</i> , 2018, 859, 17.	4.5	16
16	Microwave and Hard X-Ray Observations of the 2017 September 10 Solar Limb Flare. <i>Astrophysical Journal</i> , 2018, 863, 83.	4.5	141
17	A Large-scale Plume in an X-class Solar Flare. <i>Astrophysical Journal</i> , 2017, 845, 135.	4.5	16
18	An Interactive Multi-instrument Database of Solar Flares. <i>Astrophysical Journal, Supplement Series</i> , 2017, 231, 6.	7.7	13

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19	VALIDATION OF THE CORONAL THICK TARGET SOURCE MODEL. <i>Astrophysical Journal</i> , 2016, 816, 62.	4.5	15
20	NARROWBAND GYROSYNCHROTRON BURSTS: PROBING ELECTRON ACCELERATION IN SOLAR FLARES. <i>Astrophysical Journal</i> , 2016, 826, 38.	4.5	15
21	Measurement of duration and signal-to-noise ratio of astronomical transients using a Spectral Kurtosis spectrometer. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 7353-7366.	2.4	7
22	Spectral kurtosis statistics of quantized signals. , 2016, , .		3
23	EOVSA Implementation of a Spectral Kurtosis Correlator for Transient Detection and Classification. <i>Journal of Astronomical Instrumentation</i> , 2016, 05, .	1.5	27
24	THREE-DIMENSIONAL RADIO AND X-RAY MODELING AND DATA ANALYSIS SOFTWARE: REVEALING FLARE COMPLEXITY. <i>Astrophysical Journal</i> , 2015, 799, 236.	4.5	79
25	ENERGY PARTITIONS AND EVOLUTION IN A PURELY THERMAL SOLAR FLARE. <i>Astrophysical Journal</i> , 2015, 802, 122.	4.5	19
26	FITTING FFT-DERIVED SPECTRA: THEORY, TOOL, AND APPLICATION TO SOLAR RADIO SPIKE DECOMPOSITION. <i>Astrophysical Journal</i> , 2014, 789, 152.	4.5	15
27	PROBING DYNAMICS OF ELECTRON ACCELERATION WITH RADIO AND X-RAY SPECTROSCOPY, IMAGING, AND TIMING IN THE 2002 APRIL 11 SOLAR FLARE. <i>Astrophysical Journal</i> , 2013, 768, 190.	4.5	20
28	Wave transmission approach based on modal analysis for embedded mechanical systems. <i>Journal of Sound and Vibration</i> , 2013, 332, 4940-4947.	3.9	6
29	THREE-DIMENSIONAL SIMULATIONS OF GYROSYNCHROTRON EMISSION FROM MILDLY ANISOTROPIC NONUNIFORM ELECTRON DISTRIBUTIONS IN SYMMETRIC MAGNETIC LOOPS. <i>Astrophysical Journal</i> , 2011, 742, 87.	4.5	40
30	A COLD, TENUOUS SOLAR FLARE: ACCELERATION WITHOUT HEATING. <i>Astrophysical Journal Letters</i> , 2011, 731, L19.	8.3	53
31	THREE-DIMENSIONAL STRUCTURE OF MICROWAVE SOURCES FROM SOLAR ROTATION STEREOSCOPY VERSUS MAGNETIC EXTRAPOLATIONS. <i>Astrophysical Journal</i> , 2011, 737, 82.	4.5	15
32	New interactive solar flare modeling and advanced radio diagnostics tools. <i>Proceedings of the International Astronomical Union</i> , 2010, 6, 280-283.	0.0	2
33	A simple mechanical model for the isotropic harmonic oscillator. <i>European Journal of Physics</i> , 2010, 31, 1031-1035.	0.6	1
34	Statistics of the Spectral Kurtosis Estimator. <i>Publications of the Astronomical Society of the Pacific</i> , 2010, 122, 595-607.	3.1	39
35	A Wideband Spectrometer with RFI Detection. <i>Publications of the Astronomical Society of the Pacific</i> , 2010, 122, 560-572.	3.1	25
36	ELECTRON ENERGY AND MAGNETIC FIELD DERIVED FROM SOLAR MICROWAVE BURST SPECTRA. <i>Astrophysical Journal</i> , 2009, 696, 274-279.	4.5	4

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37	The Korean Solar Radio Burst Locator (KSRBL). Publications of the Astronomical Society of the Pacific, 2009, 121, 512-526.	3.1	18
38	Statistical Hypothesis Testing and Variance Analysis for Radio Frequency Interference Identification in Solar Data. Publications of the Astronomical Society of the Pacific, 2009, 121, 1139-1150.	3.1	1
39	DYNAMIC MAGNETOGRAPHY OF SOLAR FLARING LOOPS. Astrophysical Journal, 2009, 698, L183-L187.	4.5	25
40	Peak Frequency Dynamics in Solar Microwave Bursts. Solar Physics, 2008, 253, 43-73.	2.5	30
41	DeltaE effect for polycrystalline ferromagnetic rods. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2008, 55, 415-420.	3.0	1
42	Radio frequency interference excision in solar dynamic spectra using variance-based spectral statistics. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	0
43	Spike Decomposition Technique: Modeling and Performance Tests. Astrophysical Journal, 2008, 689, 545-562.	4.5	8
44	Collapse of Transient Nucleation Fluxes in a Cold Ising Ferromagnet. Physical Review Letters, 2006, 97, 065703.	7.8	11
45	Spatial Evidence for Transition Radiation in a Solar Radio Burst. Astrophysical Journal, 2005, 629, L65-L68.	4.5	13
46	Evidence for Resonant Transition Radiation in Decimetric Continuum Solar Bursts. Astrophysical Journal, 2005, 620, 506-516.	4.5	20
47	About two cluster generating algorithms. Journal of Computational Physics, 2005, 206, 578-596.	3.8	2
48	On the critical cluster in the two-dimensional Ising model: Computer-assisted exact results. Journal of Chemical Physics, 2004, 121, 11232.	3.0	8
49	Statistics of solar microwave radio burst spectra with implications for operations of microwave radio systems. Space Weather, 2004, 2, n/a-n/a.	3.7	11
50	Pulse propagation in finite elastic inhomogeneous media. Computational Materials Science, 2004, 31, 329-336.	3.0	22
51	Hard X-ray and Microwave Observations of Microflares. Astrophysical Journal, 2004, 612, 530-545.	4.5	44
52	Statistical Study of Two Years of Solar Flare Radio Spectra Obtained with the Owens Valley Solar Array. Astrophysical Journal, 2004, 605, 528-545.	4.5	91
53	Effects of Solar Radio Bursts on Wireless Systems. , 2004, , 203-213.		11
54	Nucleation preexponential in dynamic Ising models at moderately strong fields. Physical Review E, 2003, 68, 021605.	2.1	10

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55	Decimetric Spike Bursts versus Microwave Continuum. <i>Astrophysical Journal</i> , 2003, 593, 571-580.	4.5	52
56	H β , Extreme-Ultraviolet, and Microwave Observations of the 2000 March 22 Solar Flare and Spontaneous Magnetic Reconnection. <i>Astrophysical Journal</i> , 2003, 585, 524-535.	4.5	17
57	Modulation of the Nucleation Rate Preexponential in a Low-Temperature Ising System. <i>Physical Review Letters</i> , 2002, 89, 025701.	7.8	22
58	The Peak Flux Distribution of Solar Radio Bursts. <i>Astrophysical Journal</i> , 2002, 570, 423-438.	4.5	76