

# Gelu M NiÅ£Ç

## List of Publications by Year in descending order

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58  
papers

1,412  
citations

331670

21  
h-index

345221

36  
g-index

60  
all docs

60  
docs citations

60  
times ranked

922  
citing authors

#	ARTICLE	IF	CITATIONS
1	Microwave and Hard X-Ray Observations of the 2017 September 10 Solar Limb Flare. <i>Astrophysical Journal</i> , 2018, 863, 83.	4.5	141
2	Statistical Study of Two Years of Solar Flare Radio Spectra Obtained with the Owens Valley Solar Array. <i>Astrophysical Journal</i> , 2004, 605, 528-545.	4.5	91
3	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
4	Measurement of magnetic field and relativistic electrons along a solar flare current sheet. <i>Nature Astronomy</i> , 2020, 4, 1140-1147.	10.1	87
5	THREE-DIMENSIONAL RADIO AND X-RAY MODELING AND DATA ANALYSIS SOFTWARE: REVEALING FLARE COMPLEXITY. <i>Astrophysical Journal</i> , 2015, 799, 236.	4.5	79
6	The Peak Flux Distribution of Solar Radio Bursts. <i>Astrophysical Journal</i> , 2002, 570, 423-438.	4.5	76
7	A COLD, TENUOUS SOLAR FLARE: ACCELERATION WITHOUT HEATING. <i>Astrophysical Journal Letters</i> , 2011, 731, L19.	8.3	53
8	Decimetric Spike Bursts versus Microwave Continuum. <i>Astrophysical Journal</i> , 2003, 593, 571-580.	4.5	52
9	Hard X-Ray and Microwave Observations of Microflares. <i>Astrophysical Journal</i> , 2004, 612, 530-545.	4.5	44
10	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
11	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
12	Statistics of the Spectral Kurtosis Estimator. <i>Publications of the Astronomical Society of the Pacific</i> , 2010, 122, 595-607.	3.1	39
13	Solar flare accelerates nearly all electrons in a large coronal volume. <i>Nature</i> , 2022, 606, 674-677.	27.8	33
14	Peak Frequency Dynamics in Solar Microwave Bursts. <i>Solar Physics</i> , 2008, 253, 43-73.	2.5	30
15	EOVSA Implementation of a Spectral Kurtosis Correlator for Transient Detection and Classification. <i>Journal of Astronomical Instrumentation</i> , 2016, 05, .	1.5	27
16	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
17	Dressing the Coronal Magnetic Extrapolations of Active Regions with a Parameterized Thermal Structure. <i>Astrophysical Journal</i> , 2018, 853, 66.	4.5	26
18	DYNAMIC MAGNETOGRAPHY OF SOLAR FLARING LOOPS. <i>Astrophysical Journal</i> , 2009, 698, L183-L187.	4.5	25

#	ARTICLE	IF	CITATIONS
19	A Wideband Spectrometer with RFI Detection. Publications of the Astronomical Society of the Pacific, 2010, 122, 560-572.	3.1	25
20	Modulation of the Nucleation Rate Preexponential in a Low-Temperature Ising System. Physical Review Letters, 2002, 89, 025701.	7.8	22
21	Pulse propagation in finite elastic inhomogeneous media. Computational Materials Science, 2004, 31, 329-336.	3.0	22
22	Evidence for Resonant Transition Radiation in Decimetric Continuum Solar Bursts. Astrophysical Journal, 2005, 620, 506-516.	4.5	20
23	PROBING DYNAMICS OF ELECTRON ACCELERATION WITH RADIO AND X-RAY SPECTROSCOPY, IMAGING, AND TIMING IN THE 2002 APRIL 11 SOLAR FLARE. Astrophysical Journal, 2013, 768, 190.	4.5	20
24	ENERGY PARTITIONS AND EVOLUTION IN A PURELY THERMAL SOLAR FLARE. Astrophysical Journal, 2015, 802, 122.	4.5	19
25	The Korean Solar Radio Burst Locator (KSRBL). Publications of the Astronomical Society of the Pacific, 2009, 121, 512-526.	3.1	18
26	H $\alpha$ , Extreme-Ultraviolet, and Microwave Observations of the 2000 March 22 Solar Flare and Spontaneous Magnetic Reconnection. Astrophysical Journal, 2003, 585, 524-535.	4.5	17
27	A Large-scale Plume in an X-class Solar Flare. Astrophysical Journal, 2017, 845, 135.	4.5	16
28	Revealing the Evolution of Non-thermal Electrons in Solar Flares Using 3D Modeling. Astrophysical Journal, 2018, 859, 17.	4.5	16
29	THREE-DIMENSIONAL STRUCTURE OF MICROWAVE SOURCES FROM SOLAR ROTATION STEREO SCOPY VERSUS MAGNETIC EXTRAPOLATIONS. Astrophysical Journal, 2011, 737, 82.	4.5	15
30	FITTING FFT-DERIVED SPECTRA: THEORY, TOOL, AND APPLICATION TO SOLAR RADIO SPIKE DECOMPOSITION. Astrophysical Journal, 2014, 789, 152.	4.5	15
31	VALIDATION OF THE CORONAL THICK TARGET SOURCE MODEL. Astrophysical Journal, 2016, 816, 62.	4.5	15
32	NARROWBAND GYROSYNCHROTRON BURSTS: PROBING ELECTRON ACCELERATION IN SOLAR FLARES. Astrophysical Journal, 2016, 826, 38.	4.5	15
33	Spatial Evidence for Transition Radiation in a Solar Radio Burst. Astrophysical Journal, 2005, 629, L65-L68.	4.5	13
34	An Interactive Multi-instrument Database of Solar Flares. Astrophysical Journal, Supplement Series, 2017, 231, 6.	7.7	13
35	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
36	Collapse of Transient Nucleation Fluxes in a Cold Ising Ferromagnet. Physical Review Letters, 2006, 97, 065703.	7.8	11

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37	Effects of Solar Radio Bursts on Wireless Systems. , 2004, , 203-213.		11
38	Nucleation preexponential in dynamic Ising models at moderately strong fields. Physical Review E, 2003, 68, 021605.	2.1	10
39	The Coronal Volume of Energetic Particles in Solar Flares as Revealed by Microwave Imaging. Astrophysical Journal, 2018, 867, 81.	4.5	10
40	On the critical cluster in the two-dimensional Ising model: Computer-assisted exact results. Journal of Chemical Physics, 2004, 121, 11232.	3.0	8
41	Spike Decomposition Technique: Modeling and Performance Tests. Astrophysical Journal, 2008, 689, 545-562.	4.5	8
42	Coronal Heating Law Constrained by Microwave Gyroresonant Emission. Astrophysical Journal, 2021, 909, 89.	4.5	8
43	Measurement of duration and signal-to-noise ratio of astronomical transients using a Spectral Kurtosis spectrometer. Journal of Geophysical Research: Space Physics, 2016, 121, 7353-7366.	2.4	7
44	Energy Budget of Plasma Motions, Heating, and Electron Acceleration in a Three-loop Solar Flare. Astrophysical Journal, 2021, 913, 97.	4.5	7
45	Wave transmission approach based on modal analysis for embedded mechanical systems. Journal of Sound and Vibration, 2013, 332, 4940-4947.	3.9	6
46	Evolution of Flare-Accelerated Electrons Quantified by Spatially Resolved Analysis. Frontiers in Astronomy and Space Sciences, 2020, 7, .	2.8	6
47	Statistical Discrimination of RFI and Astronomical Transients in 2-bit Digitized Time Domain Signals. Journal of Astronomical Instrumentation, 2019, 08, .	1.5	5
48	ELECTRON ENERGY AND MAGNETIC FIELD DERIVED FROM SOLAR MICROWAVE BURST SPECTRA. Astrophysical Journal, 2009, 696, 274-279.	4.5	4
49	Spectral kurtosis statistics of quantized signals. , 2016, , .		3
50	Understanding the Initiation of the M2.4 Flare on 2017 July 14. Astrophysical Journal, 2021, 922, 108.	4.5	3
51	About two cluster generating algorithms. Journal of Computational Physics, 2005, 206, 578-596.	3.8	2
52	New interactive solar flare modeling and advanced radio diagnostics tools. Proceedings of the International Astronomical Union, 2010, 6, 280-283.	0.0	2
53	Magnetic Field Re-configuration Associated With a Slow Rise Eruptive X1.2 Flare in NOAA Active Region 11944. Frontiers in Astronomy and Space Sciences, 2022, 9, .	2.8	2
54	DeltaE effect for polycrystalline ferromagnetic rods. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2008, 55, 415-420.	3.0	1

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55	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
56	A simple mechanical model for the isotropic harmonic oscillator. European Journal of Physics, 2010, 31, 1031-1035.	0.6	1
57	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
58	STATISTICAL DETECTION AND CLASSIFICATION OF TRANSIENT SIGNALS IN LOW-BIT SAMPLING TIME-DOMAIN SIGNALS. , 2018, , .		0