

Gregory D Fleishman

List of Publications by Year in descending order

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109
papers

2,830
citations

172207

29
h-index

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47
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118
all docs

118
docs citations

118
times ranked

1322
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.	1.6	141
2	FAST GYROSYNCHROTRON CODES. <i>Astrophysical Journal</i> , 2010, 721, 1127-1141.	1.6	113
3	Solar Science with the Atacama Large Millimeter/Submillimeter Array—A New View of Our Sun. <i>Space Science Reviews</i> , 2016, 200, 1-73.	3.7	113
4	Gyrosynchrotron Emission from Anisotropic Electron Distributions. <i>Astrophysical Journal</i> , 2003, 587, 823-835.	1.6	105
5	On non-thermal particle generation in superbubbles. <i>Monthly Notices of the Royal Astronomical Society</i> , 1992, 255, 269-275.	1.6	93
6	Decay of the coronal magnetic field can release sufficient energy to power a solar flare. <i>Science</i> , 2020, 367, 278-280.	6.0	91
7	Millisecond solar radio spikes. <i>Physics-Uspekhi</i> , 1998, 41, 1157-1189.	0.8	87
8	Measurement of magnetic field and relativistic electrons along a solar flare current sheet. <i>Nature Astronomy</i> , 2020, 4, 1140-1147.	4.2	87
9	THREE-DIMENSIONAL RADIO AND X-RAY MODELING AND DATA ANALYSIS SOFTWARE: REVEALING FLARE COMPLEXITY. <i>Astrophysical Journal</i> , 2015, 799, 236.	1.6	79
10	High-resolution observations of flare precursors in the low solar atmosphere. <i>Nature Astronomy</i> , 2017, 1, .	4.2	74
11	Electron Acceleration during Macroscale Magnetic Reconnection. <i>Physical Review Letters</i> , 2021, 126, 135101.	2.9	65
12	Observing the Sun with the Atacama Large Millimeter/submillimeter Array (ALMA): High-Resolution Interferometric Imaging. <i>Solar Physics</i> , 2017, 292, 1.	1.0	57
13	A COLD, TENUOUS SOLAR FLARE: ACCELERATION WITHOUT HEATING. <i>Astrophysical Journal Letters</i> , 2011, 731, L19.	3.0	53
14	Decimetric Spike Bursts versus Microwave Continuum. <i>Astrophysical Journal</i> , 2003, 593, 571-580.	1.6	52
15	Broadband Quasi-Periodic Radio and X-Ray Pulsations in a Solar Flare. <i>Astrophysical Journal</i> , 2008, 684, 1433-1447.	1.6	50
16	A Broadband Microwave Burst Produced by Electron Beams. <i>Astrophysical Journal</i> , 2008, 677, 1367-1377.	1.6	46
17	SUB-THz RADIATION MECHANISMS IN SOLAR FLARES. <i>Astrophysical Journal Letters</i> , 2010, 709, L127-L132.	3.0	46
18	Radio Spectral Evolution of an X-Ray-poor Impulsive Solar Flare: Implications for Plasma Heating and Electron Acceleration. <i>Astrophysical Journal</i> , 2007, 666, 1256-1267.	1.6	45

#	ARTICLE	IF	CITATIONS
19	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.	1.6	42
20	Record-breaking Coronal Magnetic Field in Solar Active Region 12673. <i>Astrophysical Journal Letters</i> , 2019, 880, L29.	3.0	41
21	THREE-DIMENSIONAL SIMULATIONS OF GYROSYNCHROTRON EMISSION FROM MILDLY ANISOTROPIC NONUNIFORM ELECTRON DISTRIBUTIONS IN SYMMETRIC MAGNETIC LOOPS. <i>Astrophysical Journal</i> , 2011, 742, 87.	1.6	40
22	Magnetography of Solar Flaring Loops with Microwave Imaging Spectropolarimetry. <i>Solar Physics</i> , 2013, 288, 549-565.	1.0	40
23	Diffusive Synchrotron Radiation from Relativistic Shocks in Gamma-Ray Burst Sources. <i>Astrophysical Journal</i> , 2006, 638, 348-353.	1.6	39
24	A role of cosmic rays in generation of radio and optical radiation by plasma mechanisms. <i>Astrophysics and Space Science</i> , 1987, 132, 213-248.	0.5	38
25	Optically Thick Gyrosynchrotron Emission from Anisotropic Electron Distributions. <i>Astrophysical Journal</i> , 2003, 584, 1071-1083.	1.6	36
26	On the harmonic structure of solar radio spikes. <i>Solar Physics</i> , 1994, 154, 361-369.	1.0	34
27	Solar flare accelerates nearly all electrons in a large coronal volume. <i>Nature</i> , 2022, 606, 674-677.	13.7	33
28	Transition radiation in media with random inhomogeneities. <i>Physics-Usppekhi</i> , 2002, 45, 235-291.	0.8	32
29	PARTICLE ACCELERATION BY STRONG TURBULENCE IN SOLAR FLARES: THEORY OF SPECTRUM EVOLUTION. <i>Astrophysical Journal</i> , 2009, 692, L45-L49.	1.6	32
30	Millisecond Microwave Spikes: Statistical Study and Application for Plasma Diagnostics. <i>Astrophysical Journal</i> , 2008, 681, 1688-1697.	1.6	31
31	Discovery of unusual large group delay in microwave millisecond oscillating events. <i>Astronomy and Astrophysics</i> , 2002, 385, 671-685.	2.1	29
32	Casting the Coronal Magnetic Field Reconstruction Tools in 3D Using the MHD Bifrost Model. <i>Astrophysical Journal</i> , 2017, 839, 30.	1.6	29
33	A COLD FLARE WITH DELAYED HEATING. <i>Astrophysical Journal</i> , 2016, 822, 71.	1.6	28
34	Millimeter radiation from a 3D model of the solar atmosphere. <i>Astronomy and Astrophysics</i> , 2017, 601, A43.	2.1	28
35	Radio signature of fragmented electron injection into a coronal loop. <i>Solar Physics</i> , 1994, 153, 403-417.	1.0	27
36	Cosmic Electrodynamics. <i>Astrophysics and Space Science Library</i> , 2013, , .	1.0	27

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37	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.	1.6	27
38	Diffusive synchrotron radiation from pulsar wind nebulae. <i>Monthly Notices of the Royal Astronomical Society</i> , 2007, 376, 625-633.	1.6	26
39	MODELING OF GYROSYNCHROTRON RADIO EMISSION PULSATIONS PRODUCED BY MAGNETOHYDRODYNAMIC LOOP OSCILLATIONS IN SOLAR FLARES. <i>Astrophysical Journal</i> , 2012, 748, 140.	1.6	26
40	Dressing the Coronal Magnetic Extrapolations of Active Regions with a Parameterized Thermal Structure. <i>Astrophysical Journal</i> , 2018, 853, 66.	1.6	26
41	DYNAMIC MAGNETOGRAPHY OF SOLAR FLARING LOOPS. <i>Astrophysical Journal</i> , 2009, 698, L183-L187.	1.6	25
42	CORONAL MAGNETOGRAPHY OF A SIMULATED SOLAR ACTIVE REGION FROM MICROWAVE IMAGING SPECTROPOLARIMETRY. <i>Astrophysical Journal</i> , 2015, 805, 93.	1.6	25
43	THERMAL TO NONTHERMAL ENERGY PARTITION AT THE EARLY RISE PHASE OF SOLAR FLARES. <i>Astrophysical Journal</i> , 2012, 758, 138.	1.6	24
44	Statistics of "Cold" Early Impulsive Solar Flares in X-Ray and Microwave Domains. <i>Astrophysical Journal</i> , 2018, 856, 111.	1.6	23
45	Electron Acceleration and Jet-facilitated Escape in an M-class Solar Flare on 2002 August 19. <i>Astrophysical Journal</i> , 2018, 867, 84.	1.6	23
46	Evidence for Resonant Transition Radiation in Decimetric Continuum Solar Bursts. <i>Astrophysical Journal</i> , 2005, 620, 506-516.	1.6	20
47	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.	1.6	20
48	THEORY OF GYRORESONANCE AND FREE-FREE EMISSIONS FROM NON-MAXWELLIAN QUASI-STEADY-STATE ELECTRON DISTRIBUTIONS. <i>Astrophysical Journal</i> , 2014, 781, 77.	1.6	20
49	Gamma-Ray Emission from the Impulsive Phase of the 2017 September 6 X9.3 Flare. <i>Astrophysical Journal</i> , 2019, 877, 145.	1.6	20
50	Evaluating Mean Magnetic Field in Flare Loops. <i>Solar Physics</i> , 2009, 255, 107-118.	1.0	19
51	ENERGY PARTITIONS AND EVOLUTION IN A PURELY THERMAL SOLAR FLARE. <i>Astrophysical Journal</i> , 2015, 802, 122.	1.6	19
52	Microwave transition radiation in solar flares and in astrophysics. <i>Astrophysical Journal</i> , 1992, 394, 688.	1.6	18
53	Nonlinear treatment for solar radio spikes. <i>Solar Physics</i> , 1994, 153, 389-402.	1.0	16
54	Title is missing!. <i>Physics-Uspokhi</i> , 2008, 51, 363.	0.8	16

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55	A Large-scale Plume in an X-class Solar Flare. <i>Astrophysical Journal</i> , 2017, 845, 135.	1.6	16
56	Revealing the Evolution of Non-thermal Electrons in Solar Flares Using 3D Modeling. <i>Astrophysical Journal</i> , 2018, 859, 17.	1.6	16
57	Birefringence Effect as a Tool for Astrophysical Plasma Study. <i>Physical Review Letters</i> , 2002, 88, 251101.	2.9	15
58	THREE-DIMENSIONAL STRUCTURE OF MICROWAVE SOURCES FROM SOLAR ROTATION STEREOSCOPY VERSUS MAGNETIC EXTRAPOLATIONS. <i>Astrophysical Journal</i> , 2011, 737, 82.	1.6	15
59	FITTING FFT-DERIVED SPECTRA: THEORY, TOOL, AND APPLICATION TO SOLAR RADIO SPIKE DECOMPOSITION. <i>Astrophysical Journal</i> , 2014, 789, 152.	1.6	15
60	VALIDATION OF THE CORONAL THICK TARGET SOURCE MODEL. <i>Astrophysical Journal</i> , 2016, 816, 62.	1.6	15
61	NARROWBAND CYROSYNCHROTRON BURSTS: PROBING ELECTRON ACCELERATION IN SOLAR FLARES. <i>Astrophysical Journal</i> , 2016, 826, 38.	1.6	15
62	Estimating the Temperature and Density of a Spicule from 100 GHz Data Obtained with ALMA. <i>Astrophysical Journal Letters</i> , 2020, 888, L28.	3.0	15
63	Natural spectral bandwidth of electron cyclotron maser emission. <i>Astronomy Letters</i> , 2004, 30, 603-614.	0.1	13
64	Spatial Evidence for Transition Radiation in a Solar Radio Burst. <i>Astrophysical Journal</i> , 2005, 629, L65-L68.	1.6	13
65	Diffusive radiation in Langmuir turbulence produced by jet shocks. <i>Monthly Notices of the Royal Astronomical Society</i> , 2007, 381, 1473-1481.	1.6	13
66	Force-free Field Reconstructions Enhanced by Chromospheric Magnetic Field Data. <i>Astrophysical Journal</i> , 2019, 870, 101.	1.6	13
67	Generation of resonance transition emissions in the solar atmosphere. <i>Astronomy Letters</i> , 2001, 27, 254-259.	0.1	12
68	Effect of Random Inhomogeneities on Electron Cyclotron Maser Emission. <i>Astrophysical Journal</i> , 2004, 601, 559-564.	1.6	12
69	RADIO EMISSION FROM ACCELERATION SITES OF SOLAR FLARES. <i>Astrophysical Journal</i> , 2009, 701, L52-L58.	1.6	12
70	Stochastic particle acceleration by helical turbulence in solar flares. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 429, 2515-2526.	1.6	12
71	Nonlinear treatment for solar radio spikes. <i>Solar Physics</i> , 1994, 153, 367-388.	1.0	11
72	Rapid Variability in the SOL2011-08-04 Flare: Implications for Electron Acceleration. <i>Astrophysical Journal</i> , 2019, 883, 38.	1.6	11

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73	The Coronal Volume of Energetic Particles in Solar Flares as Revealed by Microwave Imaging. <i>Astrophysical Journal</i> , 2018, 867, 81.	1.6	10
74	Spatiotemporal Energy Partitioning in a Nonthermally Dominated Two-loop Solar Flare. <i>Astrophysical Journal</i> , 2020, 890, 75.	1.6	10
75	Ultimate Fast Gyrosynchrotron Codes. <i>Astrophysical Journal</i> , 2021, 922, 103.	1.6	10
76	X-ray and gamma-ray emission from solar flares. <i>Physics-Usppekhi</i> , 2020, 63, 818-832.	0.8	9
77	Diffusive synchrotron radiation from extragalactic jets. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2006, 365, L11-L15.	1.2	8
78	Diffusive radiation in one-dimensional Langmuir turbulence. <i>Physical Review E</i> , 2007, 76, 017401.	0.8	8
79	Spike Decomposition Technique: Modeling and Performance Tests. <i>Astrophysical Journal</i> , 2008, 689, 545-562.	1.6	8
80	Gamma-ray burst spectral parameters within the fireball model. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, 406, 644-655.	1.6	8
81	Microwave Signature of Relativistic Positrons in Solar Flares. <i>Publication of the Astronomical Society of Japan</i> , 2013, 65, S7.	1.0	8
82	Flare SOL2012-07-06: On the Origin of the Circular Polarization Reversal Between 17 GHz and 34 GHz. <i>Solar Physics</i> , 2017, 292, 1.	1.0	8
83	Coronal Heating Law Constrained by Microwave Gyroresonant Emission. <i>Astrophysical Journal</i> , 2021, 909, 89.	1.6	8
84	Gyroresonance and Free-Free Radio Emissions from Multithermal Multicomponent Plasma. <i>Astrophysical Journal</i> , 2021, 914, 52.	1.6	8
85	Modeling the frequency dependence of the durations of solar radio spikes. <i>Astronomy Reports</i> , 2009, 53, 369-379.	0.2	7
86	Energy Budget of Plasma Motions, Heating, and Electron Acceleration in a Three-loop Solar Flare. <i>Astrophysical Journal</i> , 2021, 913, 97.	1.6	7
87	On the saturation of electron-cyclotron masers in solar flares. <i>Solar Physics</i> , 1992, 139, 387-399.	1.0	6
88	Microwave burst of November 17, 1991: Evidence of fragmented particle injection into a coronal loop. <i>Space Science Reviews</i> , 1994, 68, 205-210.	3.7	6
89	Periodic and irregular modes of the nonlinear plasma radio emission mechanism. <i>Radiophysics and Quantum Electronics</i> , 1998, 41, 28-38.	0.1	6
90	Evolution of Flare-Accelerated Electrons Quantified by Spatially Resolved Analysis. <i>Frontiers in Astronomy and Space Sciences</i> , 2020, 7, .	1.1	6

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91	Theory of synchrotron radiation in the presence of random magnetic and electric fields. Radiophysics and Quantum Electronics, 1987, 30, 260-267.	0.1	5
92	Emission of radiation by particles in media with inhomogeneities and coherent bremsstrahlung. Uspekhi Fizicheskikh Nauk, 1990, 33, 289-295.	0.3	5
93	SSALMON "The Solar Simulations for the Atacama Large Millimeter Observatory Network. Advances in Space Research, 2015, 56, 2679-2692.	1.2	5
94	Transition radiation of a relativistic particle moving along a curve. Uspekhi Fizicheskikh Nauk, 1991, 34, 86-96.	0.3	4
95	Flare-plasma diagnostics from millisecond pulsations of the solar radio emission. Astronomy Reports, 2002, 46, 497-514.	0.2	4
96	Broadening of electron cyclotron maser emission lines in a nonuniform magnetic field. Astronomy Reports, 2001, 45, 203-211.	0.2	3
97	Radio Emission from Masuda Sources. Solar Physics, 2010, 266, 323-335.	1.0	3
98	New interactive solar flare modeling and advanced radio diagnostics tools. Proceedings of the International Astronomical Union, 2010, 6, 280-283.	0.0	2
99	Energetics of X-Class Flares at the Minima of 22, 23, and 24 Solar Cycles. Geomagnetism and Aeronomy, 2020, 60, 929-935.	0.2	2
100	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, .	1.1	2
101	Transition radio emission of mildly relativistic particles. Space Science Reviews, 1994, 68, 243-244.	3.7	1
102	Reabsorption of resonant transition radiation. Radiophysics and Quantum Electronics, 1997, 40, 629-635.	0.1	1
103	Ion Traps at the Sun: Implications for Elemental Fractionation. Astrophysical Journal, 2018, 857, 85.	1.6	1
104	On polarization of transition bremsstrahlung in a weakly gyrotropic plasma. Radiophysics and Quantum Electronics, 1995, 38, 577-580.	0.1	0
105	Cyclotron instability in solar flares. Astronomy Reports, 2004, 48, 65-79.	0.2	0
106	Resonant transition radiation in plasma with magnetic inhomogeneities. Journal of Experimental and Theoretical Physics, 2006, 102, 84-90.	0.2	0
107	GRB spectral parameter modeling. Proceedings of the International Astronomical Union, 2010, 6, 243-245.	0.0	0
108	Optimized gyrosynchrotron algorithms and fast codes. Proceedings of the International Astronomical Union, 2010, 6, 314-316.	0.0	0

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109	Emission Processes. Astrophysics and Space Science Library, 2013, , 371-444.	1.0	0