Gregory D Fleishman

List of Publications by Year
in descending order

109	2,830	172207	214527
papers	citations	29 h-index	47 g-index

118	118	118	1322
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	Solar flare accelerates nearly all electrons in a large coronal volume. Nature, 2022, 606, 674-677.	13.7	33
3	Electron Acceleration during Macroscale Magnetic Reconnection. Physical Review Letters, 2021, 126, 135101.	2.9	65
4	Coronal Heating Law Constrained by Microwave Gyroresonant Emission. Astrophysical Journal, 2021, 909, 89.	1.6	8
5	Energy Budget of Plasma Motions, Heating, and Electron Acceleration in a Three-loop Solar Flare. Astrophysical Journal, 2021, 913, 97.	1.6	7
6	Gyroresonance and Freeâ€“Free Radio Emissions from Multithermal Multicomponent Plasma. Astrophysical Journal, 2021, 914, 52.	1.6	8
7	Ultimate Fast Gyrosynchrotron Codes. Astrophysical Journal, 2021, 922, 103.	1.6	10
8	Measurement of magnetic field and relativistic electrons along a solar flare current sheet. Nature Astronomy, 2020, 4, 1140-1147.	4.2	87
9	Evolution of Flare-Accelerated Electrons Quantified by Spatially Resolved Analysis. Frontiers in Astronomy and Space Sciences, 2020, 7, .	1.1	6
10	Spatiotemporal Energy Partitioning in a Nonthermally Dominated Two-loop Solar Flare. Astrophysical Journal, 2020, 890, 75.	1.6	10
11	Decay of the coronal magnetic field can release sufficient energy to power a solar flare. Science, 2020, 367, 278-280.	6.0	91
12	Estimating the Temperature and Density of a Spicule from 100 GHz Data Obtained with ALMA. Astrophysical Journal Letters, 2020, 888, L28.	3.0	15
13	Magnetic Reconnection during the Post-impulsive Phase of a Long-duration Solar Flare: Bidirectional Outflows as a Cause of Microwave and X-Ray Bursts. Astrophysical Journal, 2020, 900, 17.	1.6	42
14	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
15	X-ray and gamma-ray emission from solar flares. Physics-Uspekhi, 2020, 63, 818-832.	0.8	9
16	Record-breaking Coronal Magnetic Field in Solar Active Region 12673. Astrophysical Journal Letters, 2019, 880, L29.	3.0	41
17	Gamma-Ray Emission from the Impulsive Phase of the 2017 September 6 X9.3 Flare. Astrophysical Journal, 2019, 877, 145.	1.6	20
18	Force-free Field Reconstructions Enhanced by Chromospheric Magnetic Field Data. Astrophysical Journal, 2019, 870, 101.	1.6	13

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19	Rapid Variability in the SOL2011-08-04 Flare: Implications for Electron Acceleration. Astrophysical Journal, 2019, 883, 38.	1.6	11
20	Ion Traps at the Sun: Implications for Elemental Fractionation. Astrophysical Journal, 2018, 857, 85.	1.6	1
21	Dressing the Coronal Magnetic Extrapolations of Active Regions with a Parameterized Thermal Structure. Astrophysical Journal, 2018, 853, 66.	1.6	26
22	Statistics of â€œColdâ€•Early Impulsive Solar Flares in X-Ray and Microwave Domains. Astrophysical Journal, 2018, 856, 111.	1.6	23
23	Three-dimensional Forward-fit Modeling of the Hard X-Ray and Microwave Emissions of the 2015 June 22 M6.5 Flare. Astrophysical Journal, 2018, 852, 32.	1.6	27
24	Electron Acceleration and Jet-facilitated Escape in an M-class Solar Flare on 2002 August 19. Astrophysical Journal, 2018, 867, 84.	1.6	23
25	The Coronal Volume of Energetic Particles in Solar Flares as Revealed by Microwave Imaging. Astrophysical Journal, 2018, 867, 81.	1.6	10
26	Revealing the Evolution of Non-thermal Electrons in Solar Flares Using 3D Modeling. Astrophysical Journal, 2018, 859, 17.	1.6	16
27	Microwave and Hard X-Ray Observations of the 2017 September 10 Solar Limb Flare. Astrophysical Journal, 2018, 863, 83.	1.6	141
28	Casting the Coronal Magnetic Field Reconstruction Tools in 3D Using the MHD Bifrost Model. Astrophysical Journal, 2017, 839, 30.	1.6	29
29	Millimeter radiation from a 3D model of the solar atmosphere. Astronomy and Astrophysics, 2017, 601, A43.	2.1	28
30	High-resolution observations of flare precursors in the low solar atmosphere. Nature Astronomy, 2017, 1, .	4.2	74
31	A Large-scale Plume in an X-class Solar Flare. Astrophysical Journal, 2017, 845, 135.	1.6	16
32	Flare SOL2012-07-06: On the Origin of the Circular Polarization Reversal Between 17 GHz and 34 GHz. Solar Physics, 2017, 292, 1.	1.0	8
33	Observing the Sun with the Atacama Large Millimeter/submillimeter Array (ALMA): High-Resolution Interferometric Imaging. Solar Physics, 2017, 292, 1.	1.0	57
34	VALIDATION OF THE CORONAL THICK TARGET SOURCE MODEL. Astrophysical Journal, 2016, 816, 62.	1.6	15
35	NARROWBAND GYROSYNCHROTRON BURSTS: PROBING ELECTRON ACCELERATION IN SOLAR FLARES. Astrophysical Journal, 2016, 826, 38.	1.6	15
36	A COLD FLARE WITH DELAYED HEATING. Astrophysical Journal, 2016, 822, 71.	1.6	28

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37	Solar Science with the Atacama Large Millimeter/Submillimeter Arrayâ€"A New View of Our Sun. Space Science Reviews, 2016, 200, 1-73.	3.7	113
38	CORONAL MAGNETOGRAPHY OF A SIMULATED SOLAR ACTIVE REGION FROM MICROWAVE IMAGING SPECTROPOLARIMETRY. Astrophysical Journal, 2015, 805, 93.	1.6	25
39	THREE-DIMENSIONAL RADIO AND X-RAY MODELING AND DATA ANALYSIS SOFTWARE: REVEALING FLARE COMPLEXITY. Astrophysical Journal, 2015, 799, 236.	1.6	79
40	SSALMON â€" The Solar Simulations for the Atacama Large Millimeter Observatory Network. Advances in Space Research, 2015, 56, 2679-2692.	1.2	5
41	ENERGY PARTITIONS AND EVOLUTION IN A PURELY THERMAL SOLAR FLARE. Astrophysical Journal, 2015, 802, 122.	1.6	19
42	FITTING FFT-DERIVED SPECTRA: THEORY, TOOL, AND APPLICATION TO SOLAR RADIO SPIKE DECOMPOSITION. Astrophysical Journal, 2014, 789, 152.	1.6	15
43	THEORY OF GYRORESONANCE AND FREE-FREE EMISSIONS FROM NON-MAXWELLIAN QUASI-STEADY-STATE ELECTRON DISTRIBUTIONS. Astrophysical Journal, 2014, 781, 77.	1.6	20
44	Magnetography of Solar Flaring Loops with Microwave Imaging Spectropolarimetry. Solar Physics, 2013, 288, 549-565.	1.0	40
45	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.	1.6	20
46	Stochastic particle acceleration by helical turbulence in solar flares. Monthly Notices of the Royal Astronomical Society, 2013, 429, 2515-2526.	1.6	12
47	Emission Processes. Astrophysics and Space Science Library, 2013, , 371-444.	1.0	0
48	Microwave Signature of Relativistic Positrons in Solar Flares. Publication of the Astronomical Society of Japan, 2013, 65, S7.	1.0	8
49	Cosmic Electrodynamics. Astrophysics and Space Science Library, 2013, , .	1.0	27
50	THERMAL TO NONTHERMAL ENERGY PARTITION AT THE EARLY RISE PHASE OF SOLAR FLARES. Astrophysical Journal, 2012, 758, 138.	1.6	24
51	MODELING OF GYROSYNCHROTRON RADIO EMISSION PULSATIONS PRODUCED BY MAGNETOHYDRODYNAMIC LOOP OSCILLATIONS IN SOLAR FLARES. Astrophysical Journal, 2012, 748, 140.	1.6	26
52	THREE-DIMENSIONAL SIMULATIONS OF GYROSYNCHROTRON EMISSION FROM MILDLY ANISOTROPIC NONUNIFORM ELECTRON DISTRIBUTIONS IN SYMMETRIC MAGNETIC LOOPS. Astrophysical Journal, 2011, 742, 87.	1.6	40
53	A COLD, TENUOUS SOLAR FLARE: ACCELERATION WITHOUT HEATING. Astrophysical Journal Letters, 2011, 731, L19.	3.0	53
54	THREE-DIMENSIONAL STRUCTURE OF MICROWAVE SOURCES FROM SOLAR ROTATION STEREOSCOPY VERSUS MAGNETIC EXTRAPOLATIONS. Astrophysical Journal, 2011, 737, 82.	1.6	15

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55	GRB spectral parameter modeling. Proceedings of the International Astronomical Union, 2010, 6, 243-245.	0.0	0
56	New interactive solar flare modeling and advanced radio diagnostics tools. Proceedings of the International Astronomical Union, 2010, 6, 280-283.	0.0	2
57	FAST GYROSYNCHROTRON CODES. Astrophysical Journal, 2010, 721, 1127-1141.	1.6	113
58	SUB-THz RADIATION MECHANISMS IN SOLAR FLARES. Astrophysical Journal Letters, 2010, 709, L127-L132.	3.0	46
59	Radio Emission from Masuda Sources. Solar Physics, 2010, 266, 323-335.	1.0	3
60	Gamma-ray burst spectral parameters within the fireball model. Monthly Notices of the Royal Astronomical Society, 2010, 406, 644-655.	1.6	8
61	Optimized gyrosynchrotron algorithms and fast codes. Proceedings of the International Astronomical Union, 2010, 6, 314-316.	0.0	0
62	RADIO EMISSION FROM ACCELERATION SITES OF SOLAR FLARES. Astrophysical Journal, 2009, 701, L52-L58.	1.6	12
63	Evaluating Mean Magnetic Field in Flare Loops. Solar Physics, 2009, 255, 107-118.	1.0	19
64	Modeling the frequency dependence of the durations of solar radio spikes. Astronomy Reports, 2009, 53, 369-379.	0.2	7
65	PARTICLE ACCELERATION BY STRONG TURBULENCE IN SOLAR FLARES: THEORY OF SPECTRUM EVOLUTION. Astrophysical Journal, 2009, 692, L45-L49.	1.6	32
66	DYNAMIC MAGNETOGRAPHY OF SOLAR FLARING LOOPS. Astrophysical Journal, 2009, 698, L183-L187.	1.6	25
67	Title is missing!. Physics-Uspekhi, 2008, 51, 363.	0.8	16
68	A Broadband Microwave Burst Produced by Electron Beams. Astrophysical Journal, 2008, 677, 1367-1377.	1.6	46
69	Spike Decomposition Technique: Modeling and Performance Tests. Astrophysical Journal, 2008, 689, 545-562.	1.6	8
70	Millisecond Microwave Spikes: Statistical Study and Application for Plasma Diagnostics. Astrophysical Journal, 2008, 681, 1688-1697.	1.6	31
71	Broadband Quasiâ€periodic Radio and Xâ€Ray Pulsations in a Solar Flare. Astrophysical Journal, 2008, 684, 1433-1447.	1.6	50
72	Diffusive radiation in one-dimensional Langmuir turbulence. Physical Review E, 2007, 76, 017401.	0.8	8

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73	Radio Spectral Evolution of an Xâ€Rayâ€“poor Impulsive Solar Flare: Implications for Plasma Heating and Electron Acceleration. Astrophysical Journal, 2007, 666, 1256-1267.	1.6	45
74	Diffusive synchrotron radiation from pulsar wind nebulae. Monthly Notices of the Royal Astronomical Society, 2007, 376, 625-633.	1.6	26
75	Diffusive radiation in Langmuir turbulence produced by jet shocks. Monthly Notices of the Royal Astronomical Society, 2007, 381, 1473-1481.	1.6	13
76	Diffusive Synchrotron Radiation from Relativistic Shocks in Gammaâ€Ray Burst Sources. Astrophysical Journal, 2006, 638, 348-353.	1.6	39
77	Diffusive synchrotron radiation from extragalactic jets. Monthly Notices of the Royal Astronomical Society: Letters, 2006, 365, L11-L15.	1.2	8
78	Resonant transition radiation in plamsa with magnetic inhomogeneities. Journal of Experimental and Theoretical Physics, 2006, 102, 84-90.	0.2	0
79	Spatial Evidence for Transition Radiation in a Solar Radio Burst. Astrophysical Journal, 2005, 629, L65-L68.	1.6	13
80	Evidence for Resonant Transition Radiation in Decimetric Continuum Solar Bursts. Astrophysical Journal, 2005, 620, 506-516.	1.6	20
81	Cyclotron instability in solar flares. Astronomy Reports, 2004, 48, 65-79.	0.2	0
82	Natural spectral bandwidth of electron cyclotron maser emission. Astronomy Letters, 2004, 30, 603-614.	0.1	13
83	Effect of Random Inhomogeneities on Electron Cyclotron Maser Emission. Astrophysical Journal, 2004, 601, 559-564.	1.6	12
84	Gyrosynchrotron Emission from Anisotropic Electron Distributions. Astrophysical Journal, 2003, 587, 823-835.	1.6	105
85	Decimetric Spike Bursts versus Microwave Continuum. Astrophysical Journal, 2003, 593, 571-580.	1.6	52
86	Optically Thick Gyrosynchrotron Emission from Anisotropic Electron Distributions. Astrophysical Journal, 2003, 584, 1071-1083.	1.6	36
87	Birefringence Effect as a Tool for Astrophysical Plasma Study. Physical Review Letters, 2002, 88, 251101.	2.9	15
88	Transition radiation in media with random inhomogeneities. Physics-Uspekhi, 2002, 45, 235-291.	0.8	32
89	Discovery of unusual large group delay in microwave millisecond oscillating events. Astronomy and Astrophysics, 2002, 385, 671-685.	2.1	29
90	Flare-plasma diagnostics from millisecond pulsations of the solar radio emission. Astronomy Reports, 2002, 46, 497-514.	0.2	4

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91	Broadening of electron cyclotron maser emission lines in a nonuniform magnetic field. Astronomy Reports, 2001, 45, 203-211.	0.2	3
92	Generation of resonance transition emissions in the solar atmosphere. Astronomy Letters, 2001, 27, 254-259.	0.1	12
93	Periodic and irregular modes of the nonlinear plasma radio emission mechanism. Radiophysics and Quantum Electronics, 1998, 41, 28-38.	0.1	6
94	Millisecond solar radio spikes. Physics-Uspekhi, 1998, 41, 1157-1189.	0.8	87
95	Reabsorption of resonant transition radiation. Radiophysics and Quantum Electronics, 1997, 40, 629-635.	0.1	1
96	On polarization of transition bremsstrahlung in a weakly gyrotropic plasma. Radiophysics and Quantum Electronics, 1995, 38, 577-580.	0.1	0
97	Microwave burst of November 17, 1991: Evidence of fragmented particle injection into a coronal loop. Space Science Reviews, 1994, 68, 205-210.	3.7	6
98	Transition radio emission of mildly relativistic particles. Space Science Reviews, 1994, 68, 243-244.	3.7	1
99	On the harmonic structure of solar radio spikes. Solar Physics, 1994, 154, 361-369.	1.0	34
100	Nonlinear treatment for solar radio spikes. Solar Physics, 1994, 153, 367-388.	1.0	11
101	Nonlinear treatment for solar radio spikes. Solar Physics, 1994, 153, 389-402.	1.0	16
102	Radio signature of fragmented electron injection into a coronal loop. Solar Physics, 1994, 153, 403-417.	1.0	27
103	On non-thermal particle generation in superbubbles. Monthly Notices of the Royal Astronomical Society, 1992, 255, 269-275.	1.6	93
104	On the saturation of electron-cyclotron masers in solar flares. Solar Physics, 1992, 139, 387-399.	1.0	6
105	Microwave transition radiation in solar flares and in astrophysics. Astrophysical Journal, 1992, 394, 688.	1.6	18
106	Transition radiation of a relativistic particle moving along a curve. Uspekhi Fizicheskikh Nauk, 1991, 34, 86-96.	0.3	4
107	Emission of radiation by particles in media with inhomogeneities and coherent bremsstrahlung. Uspekhi Fizicheskikh Nauk, 1990, 33, 289-295.	0.3	5
108	A role of cosmic rays in generation of radio and optical radiation by plasma mechanisms. Astrophysics and Space Science, 1987, 132, 213-248.	0.5	38

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109	Theory of synchrotron radiation in the presence of random magnetic and electric fields. Radiophysics and Quantum Electronics, 1987, 30, 260-267.	0.1	5