

# Brian D Fields

## List of Publications by Year in descending order

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111  
papers

7,007  
citations

66343

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111  
docs citations

111  
times ranked

6183  
citing authors

#	ARTICLE	IF	CITATIONS
1	Simulations of $^{60}\text{Fe}$ entrained in ejecta from a near-Earth supernova: effects of observer motion. Monthly Notices of the Royal Astronomical Society, 2022, 512, 712-727.	4.4	8
2	The impact of new $d(p, \hat{1}^3)3$ rates on Big Bang Nucleosynthesis. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 046.	5.4	48
3	Witnessing history: sky distribution, detectability, and rates of naked-eye Milky Way supernovae. Monthly Notices of the Royal Astronomical Society, 2021, 507, 927-943.	4.4	6
4	r-Process Radioisotopes from Near-Earth Supernovae and Kilonovae. Astrophysical Journal, 2021, 923, 219.	4.5	15
5	The origin of the elements: a century of progress. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190301.	3.4	5
6	Supernova triggers for end-Devonian extinctions. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 21008-21010.	7.1	37
7	Spallation of r-Process Nuclei Ejected from a Neutron Star Merger. Journal of Physics: Conference Series, 2020, 1668, 012049.	0.4	0
8	Magnetic Imprisonment of Dusty Pinballs by a Supernova Remnant. Astrophysical Journal, 2020, 894, 109.	4.5	22
9	Sandblasting the r-process: Spallation of Ejecta from Neutron Star Mergers. Astrophysical Journal, 2020, 893, 92.	4.5	8
10	Climate change via $\text{CO}_2$ drawdown from astrophysically initiated atmospheric ionization?. International Journal of Astrobiology, 2020, 19, 349-352.	1.6	6
11	Big-Bang Nucleosynthesis after Planck. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 010-010.	5.4	221
12	Primordial element production studied beneath a mountain. Nature, 2020, 587, 203-204.	27.8	1
13	Using gamma ray monitoring to avoid missing the next Milky Way Type Ia supernova. Monthly Notices of the Royal Astronomical Society, 2019, 486, 2910-2918.	4.4	8
14	Are starburst galaxies proton calorimeters?. Monthly Notices of the Royal Astronomical Society, 2018, 474, 4073-4088.	4.4	42
15	RADIOACTIVE IRON RAIN: TRANSPORTING $^{60}\text{Fe}$ IN SUPERNOVA DUST TO THE OCEAN FLOOR. Astrophysical Journal, 2016, 827, 48.	4.5	46
16	Big bang nucleosynthesis: Present status. Reviews of Modern Physics, 2016, 88, .	45.6	662
17	Black Hole Window into $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" \rangle \langle \text{mml:mi} \rangle \text{p} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -Wave Dark Matter Annihilation. Physical Review Letters, 2015, 115, 231302.	7.8	26
18	New bounds for axions and axion-like particles with keV-GeV masses. Physical Review D, 2015, 92, .	4.7	67

#	ARTICLE	IF	CITATIONS
19	ASTROPHYSICAL SHRAPNEL: DISCRIMINATING AMONG NEAR-EARTH STELLAR EXPLOSION SOURCES OF LIVE RADIOACTIVE ISOTOPES. <i>Astrophysical Journal</i> , 2015, 800, 71.	4.5	57
20	SPATIAL AND SPECTRAL MODELING OF THE GAMMA-RAY DISTRIBUTION IN THE LARGE MAGELLANIC CLOUD. <i>Astrophysical Journal</i> , 2015, 808, 44.	4.5	8
21	Cosmic-ray induced gamma-ray emission from the starburst galaxy NGC 253. , 2014, , .		2
22	Galactic Center Gamma-Ray Excess from Dark Matter Annihilation: Is There a Black Hole Spike?. <i>Physical Review Letters</i> , 2014, 113, 151302.	7.8	74
23	Gravitino decays and the cosmological lithium problem in light of the LHC Higgs and supersymmetry searches. <i>Journal of Cosmology and Astroparticle Physics</i> , 2013, 2013, 014-014.	5.4	32
24	INVERSE-COMPTON CONTRIBUTION TO THE STAR-FORMING EXTRAGALACTIC GAMMA-RAY BACKGROUND. <i>Astrophysical Journal</i> , 2013, 773, 104.	4.5	23
25	Observation of interstellar lithium in the low-metallicity Small Magellanic Cloud. <i>Nature</i> , 2012, 489, 121-123.	27.8	60
26	THE DIFFUSE GAMMA-RAY BACKGROUND FROM TYPE Ia SUPERNOVAE. <i>Astrophysical Journal</i> , 2012, 747, 120.	4.5	7
27	Resonant destruction as a possible solution to the cosmological lithium problem. <i>Physical Review D</i> , 2011, 83, .	4.7	66
28	THE SEARCH FOR EXTRAGALACTIC LITHIUM HYDRIDE. <i>Astrophysical Journal</i> , 2011, 738, 37.	4.5	11
29	RADIO SUPERNOVAE IN THE GREAT SURVEY ERA. <i>Astrophysical Journal</i> , 2011, 740, 23.	4.5	14
30	Cosmic chemical evolution with an early population of intermediate-mass stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 413, 2987-3002.	4.4	13
31	Enhanced cosmological $^{6}\text{Li}$ abundance as a potential signature of residual dark matter annihilations. <i>Physical Review D</i> , 2011, 84, .	4.7	5
32	The Primordial Lithium Problem. <i>Annual Review of Nuclear and Particle Science</i> , 2011, 61, 47-68.	10.2	319
33	Nuclear reaction uncertainties, massive gravitino decays and the cosmological lithium problem. <i>Journal of Cosmology and Astroparticle Physics</i> , 2010, 2010, 032-032.	5.4	44
34	INVESTIGATING THE COSMIC-RAY IONIZATION RATE NEAR THE SUPERNOVA REMNANT IC 443 THROUGH $\text{H}^+\text{O}^3$ OBSERVATIONS,. <i>Astrophysical Journal</i> , 2010, 724, 1357-1365.	4.5	72
35	COSMIC GAMMA-RAY BACKGROUND FROM STAR-FORMING GALAXIES. <i>Astrophysical Journal Letters</i> , 2010, 722, L199-L203.	8.3	82
36	The deuterium abundance in the local interstellar medium. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, , no-no.	4.4	24

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37	Synoptic sky surveys and the diffuse supernova neutrino background: Removing astrophysical uncertainties and revealing invisible supernovae. <i>Physical Review D</i> , 2010, 81, .	4.7	37
38	THE IMPLICATIONS OF A HIGH COSMIC-RAY IONIZATION RATE IN DIFFUSE INTERSTELLAR CLOUDS. <i>Astrophysical Journal</i> , 2009, 694, 257-267.	4.5	86
39	Cosmic core-collapse supernovae from upcoming sky surveys. <i>Journal of Cosmology and Astroparticle Physics</i> , 2009, 2009, 047-047.	5.4	33
40	Nucleosynthesis constraints on a massive gravitino in neutralino dark matter scenarios. <i>Journal of Cosmology and Astroparticle Physics</i> , 2009, 2009, 021-021.	5.4	81
41	(Un)true deuterium abundance in the Galactic disk. <i>Proceedings of the International Astronomical Union</i> , 2009, 5, 65-70.	0.0	0
42	An update on the big bang nucleosynthesis prediction for ${}^7\text{Li}$ : the problem worsens. <i>Journal of Cosmology and Astroparticle Physics</i> , 2008, 2008, 012.	5.4	262
43	Superluminous Supernovae: No Threat from $i>\hat{I}</i>$ Carinae. <i>Astrobiology</i> , 2008, 8, 9-16.	3.0	18
44	Big Bang Nucleosynthesis in the New Cosmology. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	0
45	FUSE deuterium observations: a strong case for galactic infall. <i>Journal of Cosmology and Astroparticle Physics</i> , 2008, 2008, 003.	5.4	16
46	Supernova Collisions with the Heliosphere. <i>Astrophysical Journal</i> , 2008, 678, 549-562.	4.5	39
47	Cosmological cosmic rays: Sharpening the primordial lithium problem. <i>Physical Review D</i> , 2007, 76, .	4.7	10
48	Probing the Earth's Interior with the LENA Detector. <i>Earth, Moon and Planets</i> , 2007, 99, 253-264.	0.6	13
49	Imaging the Earth's Interior: the Angular Distribution of Terrestrial Neutrinos. <i>Earth, Moon and Planets</i> , 2007, 99, 155-181.	0.6	10
50	Unidentified EGRET sources and the extragalactic gamma-ray background. <i>Astrophysics and Space Science</i> , 2007, 309, 81-87.	1.4	6
51	Population studies of the unidentified EGRET sources. <i>Astrophysics and Space Science</i> , 2007, 309, 43-49.	1.4	2
52	Probing the Earth's interior with a large-volume liquid scintillator detector. <i>Astroparticle Physics</i> , 2007, 27, 21-29.	4.3	13
53	Analytical Models for the Energetics of Cosmic Accretion Shocks, Their Cosmological Evolution, and the Effect of Environment. <i>Astrophysical Journal</i> , 2006, 642, 734-745.	4.5	16
54	Radioactive Probes of the Supernova-contaminated Solar Nebula: Evidence that the Sun Was Born in a Cluster. <i>Astrophysical Journal</i> , 2006, 652, 1755-1762.	4.5	56

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55	Can Galactic Cosmic Rays Account for Solar 6 Li without Overproducing Gamma Rays?. <i>Astrophysical Journal</i> , 2006, 645, L125-L128.	4.5	8
56	Big bang nucleosynthesis. <i>Nuclear Physics A</i> , 2006, 777, 208-225.	1.5	46
57	Bound-state effects on light-element abundances in gravitino dark matter scenarios. <i>Journal of Cosmology and Astroparticle Physics</i> , 2006, 2006, 014-014.	5.4	126
58	Implications of a New Temperature Scale for Halo Dwarfs on LiBeB and Chemical Evolution. <i>Astrophysical Journal</i> , 2005, 623, 1083-1091.	4.5	31
59	6Li and Gamma Rays: Complementary Constraints on Cosmic Ray History. <i>Astrophysical Journal</i> , 2005, 623, 877-888.	4.5	19
60	Lithium-6 and Gamma-Rays: Constraints on Primordial Lithium, Cosmic Rays and Cosmic Star Formation. <i>Nuclear Physics A</i> , 2005, 758, 799-802.	1.5	0
61	New BBN limits on physics beyond the standard model from 4He. <i>Astroparticle Physics</i> , 2005, 23, 313-323.	4.3	308
62	Deep Ocean Crusts as Telescopes: Using Live Radioisotopes to Probe Supernova Nucleosynthesis. <i>Astrophysical Journal</i> , 2005, 621, 902-907.	4.5	45
63	Double distribution of dark matter halos with respect to mass and local overdensity. <i>Physical Review D</i> , 2005, 71, .	4.7	11
64	Solar neutrino constraints on the BBN production of Li. <i>Physical Review D</i> , 2004, 69, .	4.7	74
65	Live radioisotopes as signatures of nearby supernovae. <i>New Astronomy Reviews</i> , 2004, 48, 119-123.	12.8	14
66	The pionic contribution to diffuse $\hat{1}^3$ -rays: upper limits. <i>Astroparticle Physics</i> , 2004, 21, 627-635.	4.3	10
67	The pionic contribution to diffuse $\gamma$ -rays: upper limits. <i>Astroparticle Physics</i> , 2004, 21, 627-627.	4.3	0
68	Probing Primordial and Pre-Galactic Lithium with High-Velocity Clouds. <i>Astrophysical Journal</i> , 2004, 616, L115-L118.	4.5	14
69	Primordial nucleosynthesis in light of WMAP. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2003, 567, 227-234.	4.1	230
70	Updated nucleosynthesis constraints on unstable relic particles. <i>Physical Review D</i> , 2003, 67, .	4.7	307
71	On Nonprimordial Deuterium Production by Accelerated Particles. <i>Astrophysical Journal</i> , 2003, 597, 48-56.	4.5	37
72	On the Baryometric Status of $^3\text{He}$ . <i>Astrophysical Journal</i> , 2003, 585, 611-616.	4.5	57

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73	Constraining strong baryon-dark-matter interactions with primordial nucleosynthesis and cosmic rays. <i>Physical Review D</i> , 2002, 65, .	4.7	52
74	The Guaranteed Gamma-Ray Background. <i>Astrophysical Journal</i> , 2002, 575, L5-L8.	4.5	99
75	Production of Lithium, Beryllium, and Boron by Hypernovae and the Possible Hypernova-Gamma-Ray Burst Connection. <i>Astrophysical Journal</i> , 2002, 581, 389-395.	4.5	23
76	Primordial nucleosynthesis with CMB inputs: probing the early universe and light element astrophysics. <i>Astroparticle Physics</i> , 2002, 17, 87-100.	4.3	68
77	A Simple Model for Process Scatter and Halo Evolution. <i>Astrophysical Journal</i> , 2002, 575, 845-854.	4.5	35
78	A Peculiar Linear Radio Feature in the Supernova Remnant N206. <i>Astronomical Journal</i> , 2002, 124, 2135-2144.	4.7	10
79	Discovery of an Old, Nearby, and Overlooked Supernova Remnant Centered on the Southern Constellation Antlia Pneumatica. <i>Astrophysical Journal</i> , 2002, 576, L41-L44.	4.5	21
80	On the Possible Sources of D/H Dispersion at High Redshift. <i>Astrophysical Journal</i> , 2001, 563, 653-659.	4.5	28
81	Halo star abundances and r-process synthesis. <i>Nuclear Physics A</i> , 2001, 688, 330-339.	1.5	13
82	The NACRE thermonuclear reaction compilation and big bang nucleosynthesis. <i>New Astronomy</i> , 2001, 6, 215-238.	1.8	125
83	Diffuse Gamma Rays from Local Group Galaxies. <i>Astrophysical Journal</i> , 2001, 558, 63-71.	4.5	59
84	Death of Stellar Baryonic Dark Matter. , 2001, , 159-167.		1
85	Death of Stellar Baryonic Dark Matter. , 2001, , .		1
86	Chemical Abundance Constraints on White Dwarfs as Halo Dark Matter. <i>Astrophysical Journal</i> , 2000, 534, 265-276.	4.5	38
87	Primordial Lithium and Big Bang Nucleosynthesis. <i>Astrophysical Journal</i> , 2000, 530, L57-L60.	4.5	265
88	Testing Spallation Processes with Beryllium and Boron. <i>Astrophysical Journal</i> , 2000, 540, 930-945.	4.5	44
89	The Revival of Galactic Cosmic-Ray Nucleosynthesis?. <i>Astrophysical Journal</i> , 1999, 516, 797-810.	4.5	76
90	The evolution of in standard cosmic-ray nucleosynthesis. <i>New Astronomy</i> , 1999, 4, 255-263.	1.8	85

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91	On deep-ocean as a fossil of a near-earth supernova. <i>New Astronomy</i> , 1999, 4, 419-430.	1.8	36
92	Testing the Relation between the Local and Cosmic Star Formation Histories. <i>Astrophysical Journal</i> , 1999, 515, 603-609.	4.5	4
93	Massive compact halo objects viewed from a cosmological perspective: contribution to the baryonic mass density of the universe. <i>New Astronomy</i> , 1998, 3, 347-361.	1.8	30
94	On the Evolution of Helium in Blue Compact Galaxies. <i>Astrophysical Journal</i> , 1998, 506, 177-190.	4.5	95
95	Limits on the Boron Isotopic Ratio in HD 76932. <i>Astrophysical Journal</i> , 1998, 507, 387-397.	4.5	12
96	Nucleosynthesis limits on the mass of long lived tau and muon neutrinos. <i>Astroparticle Physics</i> , 1997, 6, 169-185.	4.3	10
97	Halo White Dwarfs and the Hot Intergalactic Medium. <i>Astrophysical Journal</i> , 1997, 483, 625-637.	4.5	31
98	Model-independent predictions of big bang nucleosynthesis. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1996, 368, 103-111.	4.1	36
99	Model independent predictions of big bang nucleosynthesis from He and Li: consistency and implications. <i>New Astronomy</i> , 1996, 1, 77-96.	1.8	59
100	On the Evolution of the Light Elements. I. D, $^3\text{He}$ , and $^4\text{He}$ . <i>Astrophysical Journal</i> , 1996, 456, 478.	4.5	31
101	Nuclear and Gamma-Ray Production by Supernova Ejecta. <i>Astrophysical Journal</i> , 1996, 462, 276.	4.5	14
102	LiBeB Production by Nuclei and Neutrinos. <i>Astrophysical Journal</i> , 1996, 468, 199.	4.5	54
103	Geological Isotope Anomalies as Signatures of Nearby Supernovae. <i>Astrophysical Journal</i> , 1996, 470, 1227.	4.5	109
104	Implications of a high population 2 B/Be ratio. <i>Astrophysical Journal</i> , 1995, 439, 854.	4.5	7
105	Production of Lithium, Beryllium, and Boron from Baryon inhomogeneous primordial nucleosynthesis. <i>Astrophysical Journal</i> , 1994, 430, 291.	4.5	40
106	Cosmic-ray models for early Galactic Lithium, Beryllium, and Boron production. <i>Astrophysical Journal</i> , 1994, 435, 185.	4.5	34
107	Effect of neutrino heating on primordial nucleosynthesis. <i>Physical Review D</i> , 1993, 47, 4309-4314.	4.7	45
108	Primordial nucleosynthesis and the abundances of beryllium and boron. <i>Astrophysical Journal</i> , 1993, 406, 569.	4.5	80

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109	Population II Li-6 as a probe of nucleosynthesis and stellar structure and evolution. <i>Astrophysical Journal</i> , 1993, 415, L35.	4.5	50
110	Quark matter and cosmology. <i>Nuclear Physics A</i> , 1992, 544, 267-278.	1.5	6
111	Optimal state-determination by mutually unbiased measurements. <i>Annals of Physics</i> , 1989, 191, 363-381.	2.8	1,005