

Emmanuel Fonseca

List of Publications by Year in descending order

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78
papers

9,551
citations

57631

44
h-index

66788

78
g-index

78
all docs

78
docs citations

78
times ranked

4260
citing authors

#	ARTICLE	IF	CITATIONS
1	The International Pulsar Timing Array second data release: Search for an isotropic gravitational wave background. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 510, 4873-4887.	1.6	174
2	Study of 72 Pulsars Discovered in the PALFA Survey: Timing Analysis, Glitch Activity, Emission Variability, and a Pulsar in an Eccentric Binary. <i>Astrophysical Journal</i> , 2022, 924, 135.	1.6	15
3	Localizing FRBs through VLBI with the Algonquin Radio Observatory 10 m Telescope. <i>Astronomical Journal</i> , 2022, 163, 65.	1.9	12
4	Burst timescales and luminosities as links between young pulsars and fast radio bursts. <i>Nature Astronomy</i> , 2022, 6, 393-401.	4.2	46
5	A repeating fast radio burst source in a globular cluster. <i>Nature</i> , 2022, 602, 585-589.	13.7	110
6	The NANOGrav 12.5 yr Data Set: Polarimetry and Faraday Rotation Measures from Observations of Millisecond Pulsars with the Green Bank Telescope. <i>Astrophysical Journal</i> , 2022, 926, 168.	1.6	9
7	A Sudden Period of High Activity from Repeating Fast Radio Burst 20201124A. <i>Astrophysical Journal</i> , 2022, 927, 59.	1.6	31
8	Modeling Fast Radio Burst Dispersion and Scattering Properties in the First CHIME/FRB Catalog. <i>Astrophysical Journal</i> , 2022, 927, 35.	1.6	29
9	Bayesian Solar Wind Modeling with Pulsar Timing Arrays. <i>Astrophysical Journal</i> , 2022, 929, 39.	1.6	8
10	Sub-second periodicity in a fast radio burst. <i>Nature</i> , 2022, 607, 256-259.	13.7	37
11	The 60 pc Environment of FRB 20180916B. <i>Astrophysical Journal Letters</i> , 2021, 908, L12.	3.0	67
12	A Nearby Repeating Fast Radio Burst in the Direction of M81. <i>Astrophysical Journal Letters</i> , 2021, 910, L18.	3.0	124
13	Astrophysics Milestones for Pulsar Timing Array Gravitational-wave Detection. <i>Astrophysical Journal Letters</i> , 2021, 911, L34.	3.0	66
14	LOFAR Detection of 110–188 MHz Emission and Frequency-dependent Activity from FRB 20180916B. <i>Astrophysical Journal Letters</i> , 2021, 911, L3.	3.0	99
15	The CHIME Pulsar Project: System Overview. <i>Astrophysical Journal, Supplement Series</i> , 2021, 255, 5.	3.0	40
16	The NANOGrav 11 yr Data Set: Limits on Supermassive Black Hole Binaries in Galaxies within 500 Mpc. <i>Astrophysical Journal</i> , 2021, 914, 121.	1.6	21
17	Refined Mass and Geometric Measurements of the High-mass PSR J0740+6620. <i>Astrophysical Journal Letters</i> , 2021, 915, L12.	3.0	416
18	The NANOGrav 12.5 Year Data Set: Monitoring Interstellar Scattering Delays. <i>Astrophysical Journal</i> , 2021, 917, 10.	1.6	7

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19	The Radius of PSR J0740+6620 from NICER and XMM-Newton Data. <i>Astrophysical Journal Letters</i> , 2021, 918, L28.	3.0	556
20	A Local Universe Host for the Repeating Fast Radio Burst FRB 20181030A. <i>Astrophysical Journal Letters</i> , 2021, 919, L24.	3.0	46
21	A NICER View of the Massive Pulsar PSR J0740+6620 Informed by Radio Timing and XMM-Newton Spectroscopy. <i>Astrophysical Journal Letters</i> , 2021, 918, L27.	3.0	544
22	The NANOGrav 12.5 yr Data Set: Observations and Narrowband Timing of 47 Millisecond Pulsars. <i>Astrophysical Journal, Supplement Series</i> , 2021, 252, 4.	3.0	98
23	The NANOGrav 12.5 yr Data Set: Wideband Timing of 47 Millisecond Pulsars. <i>Astrophysical Journal, Supplement Series</i> , 2021, 252, 5.	3.0	64
24	The Orbital-decay Test of General Relativity to the 2% Level with 6 yr VLBA Astrometry of the Double Neutron Star PSR J1537+1155. <i>Astrophysical Journal Letters</i> , 2021, 921, L19.	3.0	3
25	CHIME/FRB Catalog 1 Results: Statistical Cross-correlations with Large-scale Structure. <i>Astrophysical Journal</i> , 2021, 922, 42.	1.6	40
26	The Green Bank Northern Celestial Cap Pulsar Survey. VI. Discovery and Timing of PSR J1759+5036: A Double Neutron Star Binary Pulsar. <i>Astrophysical Journal</i> , 2021, 922, 35.	1.6	14
27	First Discovery of New Pulsars and RRATs with CHIME/FRB. <i>Astrophysical Journal</i> , 2021, 922, 43.	1.6	14
28	Searching for Gravitational Waves from Cosmological Phase Transitions with the NANOGrav 12.5-Year Dataset. <i>Physical Review Letters</i> , 2021, 127, 251302.	2.9	62
29	Fast Radio Burst Morphology in the First CHIME/FRB Catalog. <i>Astrophysical Journal</i> , 2021, 923, 1.	1.6	109
30	No Evidence for Galactic Latitude Dependence of the Fast Radio Burst Sky Distribution. <i>Astrophysical Journal</i> , 2021, 923, 2.	1.6	20
31	The First CHIME/FRB Fast Radio Burst Catalog. <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 59.	3.0	199
32	The NANOGrav 12.5-year Data Set: Search for Non-Einsteinian Polarization Modes in the Gravitational-wave Background. <i>Astrophysical Journal Letters</i> , 2021, 923, L22.	3.0	30
33	Relativistic Shapiro delay measurements of an extremely massive millisecond pulsar. <i>Nature Astronomy</i> , 2020, 4, 72-76.	4.2	1,065
34	A repeating fast radio burst source localized to a nearby spiral galaxy. <i>Nature</i> , 2020, 577, 190-194.	13.7	297
35	Periodic activity from a fast radio burst source. <i>Nature</i> , 2020, 582, 351-355.	13.7	231
36	Nine New Repeating Fast Radio Burst Sources from CHIME/FRB. <i>Astrophysical Journal Letters</i> , 2020, 891, L6.	3.0	178

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37	Faraday rotation measures of Northern hemisphere pulsars using CHIME/Pulsar. Monthly Notices of the Royal Astronomical Society, 2020, 496, 2836-2848.	1.6	17
38	The NANOGrav 11 yr Data Set: Evolution of Gravitational-wave Background Statistics. Astrophysical Journal, 2020, 890, 108.	1.6	28
39	The NANOGrav 11 yr Data Set: Limits on Gravitational Wave Memory. Astrophysical Journal, 2020, 889, 38.	1.6	36
40	Modeling the Uncertainties of Solar System Ephemerides for Robust Gravitational-wave Searches with Pulsar-timing Arrays. Astrophysical Journal, 2020, 893, 112.	1.6	49
41	Searching for optical companions to four binary millisecond pulsars with the Gran Telescopio Canarias. Monthly Notices of the Royal Astronomical Society, 2020, 492, 3032-3040.	1.6	4
42	The NANOGrav 11 yr Data Set: Constraints on Planetary Masses Around 45 Millisecond Pulsars. Astrophysical Journal Letters, 2020, 893, L8.	3.0	6
43	Multimessenger Gravitational-wave Searches with Pulsar Timing Arrays: Application to 3C 66B Using the NANOGrav 11-year Data Set. Astrophysical Journal, 2020, 900, 102.	1.6	30
44	The Discovery of Nulling and Mode-switching Pulsars with CHIME/Pulsar. Astrophysical Journal, 2020, 903, 81.	1.6	8
45	First Discovery of a Fast Radio Burst at 350 MHz by the GBNCC Survey. Astrophysical Journal, 2020, 904, 92.	1.6	21
46	Detection of Repeating FRB 180916.J0158+65 Down to Frequencies of 300 MHz. Astrophysical Journal Letters, 2020, 896, L41.	3.0	70
47	The NANOGrav 12.5-yr Data Set: Search for an Isotropic Stochastic Gravitational-wave Background. Astrophysical Journal Letters, 2020, 905, L34.	3.0	528
48	The NANOGrav 11 yr Data Set: Limits on Gravitational Waves from Individual Supermassive Black Hole Binaries. Astrophysical Journal, 2019, 880, 116.	1.6	102
49	The International Pulsar Timing Array: second data release. Monthly Notices of the Royal Astronomical Society, 2019, 490, 4666-4687.	1.6	191
50	CHIME/FRB Discovery of Eight New Repeating Fast Radio Burst Sources. Astrophysical Journal Letters, 2019, 885, L24.	3.0	302
51	CHIME/FRB Detection of the Original Repeating Fast Radio Burst Source FRB 121102. Astrophysical Journal Letters, 2019, 882, L18.	3.0	98
52	The Green Bank North Celestial Cap Pulsar Survey. IV. Four New Timing Solutions. Astrophysical Journal, 2019, 875, 19.	1.6	8
53	The NANOGrav 12.5 yr Data Set: The Frequency Dependence of Pulse Jitter in Precision Millisecond Pulsars. Astrophysical Journal, 2019, 872, 193.	1.6	28
54	The NANOGrav 11 yr Data Set: Solar Wind Sounding through Pulsar Timing. Astrophysical Journal, 2019, 872, 150.	1.6	22

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55	PSR J2234+0611: A New Laboratory for Stellar Evolution. <i>Astrophysical Journal</i> , 2019, 870, 74.	1.6	32
56	High-precision X-Ray Timing of Three Millisecond Pulsars with NICER: Stability Estimates and Comparison with Radio. <i>Astrophysical Journal</i> , 2019, 874, 160.	1.6	20
57	Tests of gravitational symmetries with pulsar binary J1713+0747. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 482, 3249-3260.	1.6	73
58	The NANOGrav 11-year Data Set: High-precision Timing of 45 Millisecond Pulsars. <i>Astrophysical Journal, Supplement Series</i> , 2018, 235, 37.	3.0	448
59	The Green Bank Northern Celestial Cap Pulsar Survey. II. The Discovery and Timing of 10 Pulsars. <i>Astrophysical Journal</i> , 2018, 857, 131.	1.6	14
60	A Second Chromatic Timing Event of Interstellar Origin toward PSR J1713+0747. <i>Astrophysical Journal</i> , 2018, 861, 132.	1.6	51
61	The NANOGrav 11 yr Data Set: Arecibo Observatory Polarimetry and Pulse Microcomponents. <i>Astrophysical Journal</i> , 2018, 862, 47.	1.6	18
62	The NANOGrav 11-year Data Set: Pulse Profile Variability. <i>Astrophysical Journal</i> , 2018, 868, 122.	1.6	15
63	Studying the Solar system with the International Pulsar Timing Array. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 481, 5501-5516.	1.6	36
64	The NANOGrav 11 Year Data Set: Pulsar-timing Constraints on the Stochastic Gravitational-wave Background. <i>Astrophysical Journal</i> , 2018, 859, 47.	1.6	331
65	The CHIME Fast Radio Burst Project: System Overview. <i>Astrophysical Journal</i> , 2018, 863, 48.	1.6	215
66	The Green Bank North Celestial Cap Pulsar Survey. III. 45 New Pulsar Timing Solutions. <i>Astrophysical Journal</i> , 2018, 859, 93.	1.6	72
67	THE NANOGRAV NINE-YEAR DATA SET: EXCESS NOISE IN MILLISECOND PULSAR ARRIVAL TIMES. <i>Astrophysical Journal</i> , 2017, 834, 35.	1.6	54
68	The NANOGrav Nine-year Data Set: Measurement and Analysis of Variations in Dispersion Measures. <i>Astrophysical Journal</i> , 2017, 841, 125.	1.6	76
69	THE NANOGRAV NINE-YEAR DATA SET: MASS AND GEOMETRIC MEASUREMENTS OF BINARY MILLISECOND PULSARS. <i>Astrophysical Journal</i> , 2016, 832, 167.	1.6	466
70	The International Pulsar Timing Array: First data release. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 458, 1267-1288.	1.6	332
71	THE NANOGRAV NINE-YEAR DATA SET: LIMITS ON THE ISOTROPIC STOCHASTIC GRAVITATIONAL WAVE BACKGROUND. <i>Astrophysical Journal</i> , 2016, 821, 13.	1.6	227
72	From spin noise to systematics: stochastic processes in the first International Pulsar Timing Array data release. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 458, 2161-2187.	1.6	82

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73	THE NANOGRV NINE-YEAR DATA SET: MONITORING INTERSTELLAR SCATTERING DELAYS. <i>Astrophysical Journal</i> , 2016, 818, 166.	1.6	57
74	THE NANOGRV NINE-YEAR DATA SET: ASTROMETRIC MEASUREMENTS OF 37 MILLISECOND PULSARS. <i>Astrophysical Journal</i> , 2016, 818, 92.	1.6	54
75	PSR J1024+0719: A MILLISECOND PULSAR IN AN UNUSUAL LONG-PERIOD ORBIT. <i>Astrophysical Journal</i> , 2016, 826, 86.	1.6	45
76	THE NANOGRV NINE-YEAR DATA SET: OBSERVATIONS, ARRIVAL TIME MEASUREMENTS, AND ANALYSIS OF 37 MILLISECOND PULSARS. <i>Astrophysical Journal</i> , 2015, 813, 65.	1.6	185
77	TESTING THEORIES OF GRAVITATION USING 21-YEAR TIMING OF PULSAR BINARY J1713+0747. <i>Astrophysical Journal</i> , 2015, 809, 41.	1.6	105
78	A COMPREHENSIVE STUDY OF RELATIVISTIC GRAVITY USING PSR B1534+12. <i>Astrophysical Journal</i> , 2014, 787, 82.	1.6	114