Gregory Desvignes

List of Publications by Year
in descending order

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Version: 2024-02-01

88 papers	14,159 citations	47006 47 h-index	48315 88 g-index
88 all docs	88 docs citations	88 times ranked	6127 citing authors

#	Article	IF	Citations
1	The International Pulsar Timing Array second data release: Search for an isotropic gravitational wave background. Monthly Notices of the Royal Astronomical Society, 2022, 510, 4873-4887.	4.4	174
2	The Variability of the Black Hole Image in M87 at the Dynamical Timescale. Astrophysical Journal, 2022, 925, 13.	4.5	6
3	Submillimeter Pulsations from the Magnetar XTE J1810-197. Astrophysical Journal Letters, 2022, 925, L17.	8.3	5
4	Long term radio and X-ray evolution of the magnetar Swift J1818.0-1607. Monthly Notices of the Royal Astronomical Society, 2022, 512, 1687-1695.	4.4	6
5	First Sagittarius A* Event Horizon Telescope Results. III. Imaging of the Galactic Center Supermassive Black Hole. Astrophysical Journal Letters, 2022, 930, L14.	8.3	163
6	Characterizing and Mitigating Intraday Variability: Reconstructing Source Structure in Accreting Black Holes with mm-VLBI. Astrophysical Journal Letters, 2022, 930, L21.	8.3	20
7	First Sagittarius A* Event Horizon Telescope Results. VI. Testing the Black Hole Metric. Astrophysical Journal Letters, 2022, 930, L17.	8.3	215
8	First Sagittarius A* Event Horizon Telescope Results. II. EHT and Multiwavelength Observations, Data Processing, and Calibration. Astrophysical Journal Letters, 2022, 930, L13.	8.3	142
9	First Sagittarius A* Event Horizon Telescope Results. IV. Variability, Morphology, and Black Hole Mass. Astrophysical Journal Letters, 2022, 930, L15.	8.3	137
10	First Sagittarius A* Event Horizon Telescope Results. I. The Shadow of the Supermassive Black Hole in the Center of the Milky Way. Astrophysical Journal Letters, 2022, 930, L12.	8.3	568
11	Selective Dynamical Imaging of Interferometric Data. Astrophysical Journal Letters, 2022, 930, L18.	8.3	21
12	Millimeter Light Curves of Sagittarius A* Observed during the 2017 Event Horizon Telescope Campaign. Astrophysical Journal Letters, 2022, 930, L19.	8.3	43
13	A Universal Power-law Prescription for Variability from Synthetic Images of Black Hole Accretion Flows. Astrophysical Journal Letters, 2022, 930, L20.	8.3	20
14	First Sagittarius A* Event Horizon Telescope Results. V. Testing Astrophysical Models of the Galactic Center Black Hole. Astrophysical Journal Letters, 2022, 930, L16.	8.3	187
15	Common-red-signal analysis with 24-yr high-precision timing of the European Pulsar Timing Array: inferences in the stochastic gravitational-wave background search. Monthly Notices of the Royal Astronomical Society, 2021, 508, 4970-4993.	4.4	184
16	Rotation Measure Evolution of the Repeating Fast Radio Burst Source FRB 121102. Astrophysical Journal Letters, 2021, 908, L10.	8.3	80
17	First M87 Event Horizon Telescope Results. VII. Polarization of the Ring. Astrophysical Journal Letters, 2021, 910, L12.	8.3	215
18	Polarimetric Properties of Event Horizon Telescope Targets from ALMA. Astrophysical Journal Letters, 2021, 910, L14.	8.3	67

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19	First M87 Event Horizon Telescope Results. VIII. Magnetic Field Structure near The Event Horizon. Astrophysical Journal Letters, 2021, 910, L13.	8.3	297
20	Broadband Multi-wavelength Properties of M87 during the 2017 Event Horizon Telescope Campaign. Astrophysical Journal Letters, 2021, 911, L11.	8.3	56
21	The Polarized Image of a Synchrotron-emitting Ring of Gas Orbiting a Black Hole. Astrophysical Journal, 2021, 912, 35.	4.5	43
22	An 86 GHz Search for Pulsars in the Galactic Center with the Atacama Large Millimeter / submillimeter Array. Astrophysical Journal, 2021, 914, 30.	4.5	13
23	Searching for pulsars in the Galactic centre at 3 and 2 mm. Astronomy and Astrophysics, 2021, 650, A95.	5.1	16
24	Event Horizon Telescope observations of the jet launching and collimation in Centaurus A. Nature Astronomy, 2021, 5, 1017-1028.	10.1	65
25	Revisiting the Galactic Double Neutron Star merger and LIGO detection rates. Monthly Notices of the Royal Astronomical Society, 2021, 507, 5658-5670.	4.4	8
26	Multi-epoch searches for relativistic binary pulsars and fast transients in the Galactic Centre. Monthly Notices of the Royal Astronomical Society, 2021, 507, 5053-5068.	4.4	11
27	Radio and X-ray observations of giant pulses from XTE J1810ÂâˆÂ197. Monthly Notices of the Royal Astronomical Society, 2021, 510, 1996-2010.	4.4	13
28	Strong-Field Gravity Tests with the Double Pulsar. Physical Review X, 2021, 11, .	8.9	97
29	Noise analysis in the European Pulsar Timing Array data release 2 and its implications on the gravitational-wave background search. Monthly Notices of the Royal Astronomical Society, 2021, 509, 5538-5558.	4.4	28
30	Gravitational Test beyond the First Post-Newtonian Order with the Shadow of the M87 Black Hole. Physical Review Letters, 2020, 125, 141104.	7.8	190
31	Verification of Radiative Transfer Schemes for the EHT. Astrophysical Journal, 2020, 897, 148.	4.5	44
32	High-cadence observations and variable spin behaviour of magnetar Swift J1818.0âˆ'1607 after its outburst. Monthly Notices of the Royal Astronomical Society, 2020, 498, 6044-6056.	4.4	20
33	A revisit of PSR J1909âˆ'3744 with 15-yr high-precision timing. Monthly Notices of the Royal Astronomical Society, 2020, 499, 2276-2291.	4.4	22
34	Timing stability of three black widow pulsars. Monthly Notices of the Royal Astronomical Society, 2020, 494, 2591-2599.	4.4	7
35	An improved test of the strong equivalence principle with the pulsar in a triple star system. Astronomy and Astrophysics, 2020, 638, A24.	5.1	44
36	THEMIS: A Parameter Estimation Framework for the Event Horizon Telescope. Astrophysical Journal, 2020, 897, 139.	4.5	47

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37	Event Horizon Telescope imaging of the archetypal blazar 3C 279 at an extreme 20 microarcsecond resolution. Astronomy and Astrophysics, 2020, 640, A69.	5.1	54
38	A pulsar-based time-scale from the International Pulsar Timing Array. Monthly Notices of the Royal Astronomical Society, 2020, 491, 5951-5965.	4.4	51
39	Detection of the magnetar XTEâ€†J1810â^'197 at 150 and 260â€†GHz with the NIKA2 kinetic inductance detector camera. Astronomy and Astrophysics, 2020, 640, L2.	5.1	14
40	Monitoring the Morphology of M87* in 2009â€“2017 with the Event Horizon Telescope. Astrophysical Journal, 2020, 901, 67.	4.5	51
41	Understanding and improving the timing of PSR J0737â^'3039B. Astronomy and Astrophysics, 2020, 643, A143.	5.1	10
42	Spin frequency evolution and pulse profile variations of the recently re-activated radio magnetar XTE J1810â€“197. Monthly Notices of the Royal Astronomical Society, 2019, 488, 5251-5258.	4.4	30
43	The Event Horizon General Relativistic Magnetohydrodynamic Code Comparison Project. Astrophysical Journal, Supplement Series, 2019, 243, 26.	7.7	175
44	The International Pulsar Timing Array: second data release. Monthly Notices of the Royal Astronomical Society, 2019, 490, 4666-4687.	4.4	191
45	Radio emission from a pulsarâ€™s magnetic pole revealed by general relativity. Science, 2019, 365, 1013-1017.	12.6	45
46	First M87 Event Horizon Telescope Results. III. Data Processing and Calibration. Astrophysical Journal Letters, 2019, 875, L3.	8.3	519
47	First M87 Event Horizon Telescope Results. II. Array and Instrumentation. Astrophysical Journal Letters, 2019, 875, L2.	8.3	618
48	First M87 Event Horizon Telescope Results. IV. Imaging the Central Supermassive Black Hole. Astrophysical Journal Letters, 2019, 875, L4.	8.3	806
49	First M87 Event Horizon Telescope Results. I. The Shadow of the Supermassive Black Hole. Astrophysical Journal Letters, 2019, 875, L1.	8.3	2,264
50	First M87 Event Horizon Telescope Results. V. Physical Origin of the Asymmetric Ring. Astrophysical Journal Letters, 2019, 875, L5.	8.3	814
51	First M87 Event Horizon Telescope Results. VI. The Shadow and Mass of the Central Black Hole. Astrophysical Journal Letters, 2019, 875, L6.	8.3	897
52	Timing of PSR J2055+3829, an eclipsing black widow pulsar discovered with the NanÃ§ay Radio Telescope. Astronomy and Astrophysics, 2019, 629, A92.	5.1	14
53	Detection of Pulses from the Vela Pulsar at Millimeter Wavelengths with Phased ALMA. Astrophysical Journal Letters, 2019, 885, L10.	8.3	9
54	Tests of gravitational symmetries with pulsar binary J1713+0747. Monthly Notices of the Royal Astronomical Society, 2019, 482, 3249-3260.	4.4	73

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55	The Discovery of Six Recycled Pulsars from the Arecibo 327 MHz Drift-Scan Pulsar Survey. Astrophysical Journal, 2019, 881, 166.	4.5	14
56	Large Magneto-ionic Variations toward the Galactic Center Magnetar, PSR J1745-2900. Astrophysical Journal Letters, 2018, 852, L12.	8.3	50
57	Improving timing sensitivity in the microhertz frequency regime: limits from PSR J1713+0747 on gravitational waves produced by supermassive black hole binaries. Monthly Notices of the Royal Astronomical Society, 2018, 478, 218-227.	4.4	22
58	PSR J1618â^'3921: a recycled pulsar in an eccentric orbit. Astronomy and Astrophysics, 2018, 612, A78.	5.1	16
59	Studying the Solar system with the International Pulsar Timing Array. Monthly Notices of the Royal Astronomical Society, 2018, 481, 5501-5516.	4.4	36
60	A Massive-born Neutron Star with a Massive White Dwarf Companion. Astrophysical Journal, 2017, 844, 128.	4.5	38
61	BlackHoleCam: Fundamental physics of the galactic center. International Journal of Modern Physics D, 2017, 26, 1730001.	2.1	148
62	Detection of the magnetar SGR J1745â^'2900 up to 291â€‰GHz with evidence of polarized millimetre emission. Monthly Notices of the Royal Astronomical Society, 2017, 465, 242-247.	4.4	35
63	21Âyear timing of the black-widow pulsar J2051â^'0827. Monthly Notices of the Royal Astronomical Society, 2016, 462, 1029-1038.	4.4	36
64	High-precision timing of 42 millisecond pulsars with the European Pulsar Timing Array. Monthly Notices of the Royal Astronomical Society, 2016, 458, 3341-3380.	4.4	351
65	The International Pulsar Timing Array: First data release. Monthly Notices of the Royal Astronomical Society, 2016, 458, 1267-1288.	4.4	332
66	The gamma-ray millisecond pulsar deathline, revisited. Astronomy and Astrophysics, 2016, 587, A109.	5.1	37
67	A millisecond pulsar in an extremely wide binary system. Monthly Notices of the Royal Astronomical Society, 2016, 460, 2207-2222.	4.4	41
68	From spin noise to systematics: stochastic processes in the first International Pulsar Timing Array data release. Monthly Notices of the Royal Astronomical Society, 2016, 458, 2161-2187.	4.4	82
69	The noise properties of 42 millisecond pulsars from the European Pulsar Timing Array and their impact on gravitational-wave searches. Monthly Notices of the Royal Astronomical Society, 2016, 457, 4421-4440.	4.4	48
70	European Pulsar Timing Array limits on continuous gravitational waves from individual supermassive black hole binaries. Monthly Notices of the Royal Astronomical Society, 2016, 455, 1665-1679.	4.4	149
71	Simultaneous multifrequency radio observations of the Galactic Centre magnetar SGR J1745â^'2900. Monthly Notices of the Royal Astronomical Society: Letters, 2015, 451, L50-L54.	3.3	46
72	THE PROPER MOTION OF THE GALACTIC CENTER PULSAR RELATIVE TO SAGITTARIUS A*. Astrophysical Journal, 2015, 798, 120.	4.5	56

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73	THE BINARY COMPANION OF YOUNG, RELATIVISTIC PULSAR J1906+0746. Astrophysical Journal, 2015, 798, 118.	4.5	82
74	Limits on Anisotropy in the Nanohertz Stochastic Gravitational Wave Background. Physical Review Letters, 2015, 115, 041101.	7.8	47
75	European Pulsar Timing Array limits on an isotropic stochastic gravitational-wave background. Monthly Notices of the Royal Astronomical Society, 2015, 453, 2577-2599.	4.4	380
76	Measuring pulse times of arrival from broad-band pulsar observations. Monthly Notices of the Royal Astronomical Society, 2014, 443, 3752-3760.	4.4	56
77	SEARCHING FOR PULSARS USING IMAGE PATTERN RECOGNITION. Astrophysical Journal, 2014, 781, 117.	4.5	99
78	PULSE BROADENING MEASUREMENTS FROM THE GALACTIC CENTER PULSAR J1745-2900. Astrophysical Journal Letters, 2014, 780, L3.	8.3	75
79	A strong magnetic field around the supermassive black hole at the centre of the Galaxy. Nature, 2013, 501, 391-394.	27.8	340
80	THE SECOND FERMI LARGE AREA TELESCOPE CATALOG OF GAMMA-RAY PULSARS. Astrophysical Journal, Supplement Series, 2013, 208, 17.	7.7	693
81	THEEINSTEIN@HOMESEARCH FOR RADIO PULSARS AND PSR J2007+2722 DISCOVERY. Astrophysical Journal, 2013, 773, 91.	4.5	53
82	peace: pulsar evaluation algorithm for candidate extraction â€“ a software package for post-analysis processing of pulsar survey candidates. Monthly Notices of the Royal Astronomical Society, 2013, 433, 688-694.	4.4	48
83	AN ASTEROID BELT INTERPRETATION FOR THE TIMING VARIATIONS OF THE MILLISECOND PULSAR B1937+21. Astrophysical Journal, 2013, 766, 5.	4.5	66
84	PSR J1906+0746: From relativistic spin-precession to beam modeling. Proceedings of the International Astronomical Union, 2012, 8, 199-202.	0.0	4
85	SPAN512: A new mid-latitude pulsar survey with the NanÃ§ay Radio Telescope. Proceedings of the International Astronomical Union, 2012, 8, 375-377.	0.0	1
86	THREE MILLISECOND PULSARS IN FERMI LAT UNASSOCIATED BRIGHT SOURCES. Astrophysical Journal Letters, 2011, 727, L16.	8.3	133
87	The International Pulsar Timing Array project: using pulsars as a gravitational wave detector. Classical and Quantum Gravity, 2010, 27, 084013.	4.0	494
88	Generic tests of the existence of the gravitational dipole radiation and the variation of the gravitational constant. Monthly Notices of the Royal Astronomical Society, 2009, 400, 805-814.	4.4	142