

Gregory Desvignes

List of Publications by Year in descending order

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88
papers

14,159
citations

47006

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docs citations

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times ranked

6127
citing authors

#	ARTICLE	IF	CITATIONS
1	First M87 Event Horizon Telescope Results. I. The Shadow of the Supermassive Black Hole. <i>Astrophysical Journal Letters</i> , 2019, 875, L1.	8.3	2,264
2	First M87 Event Horizon Telescope Results. VI. The Shadow and Mass of the Central Black Hole. <i>Astrophysical Journal Letters</i> , 2019, 875, L6.	8.3	897
3	First M87 Event Horizon Telescope Results. V. Physical Origin of the Asymmetric Ring. <i>Astrophysical Journal Letters</i> , 2019, 875, L5.	8.3	814
4	First M87 Event Horizon Telescope Results. IV. Imaging the Central Supermassive Black Hole. <i>Astrophysical Journal Letters</i> , 2019, 875, L4.	8.3	806
5	THE SECOND <i>FERMI</i> LARGE AREA TELESCOPE CATALOG OF GAMMA-RAY PULSARS. <i>Astrophysical Journal, Supplement Series</i> , 2013, 208, 17.	7.7	693
6	First M87 Event Horizon Telescope Results. II. Array and Instrumentation. <i>Astrophysical Journal Letters</i> , 2019, 875, L2.	8.3	618
7	First Sagittarius A* Event Horizon Telescope Results. I. The Shadow of the Supermassive Black Hole in the Center of the Milky Way. <i>Astrophysical Journal Letters</i> , 2022, 930, L12.	8.3	568
8	First M87 Event Horizon Telescope Results. III. Data Processing and Calibration. <i>Astrophysical Journal Letters</i> , 2019, 875, L3.	8.3	519
9	The International Pulsar Timing Array project: using pulsars as a gravitational wave detector. <i>Classical and Quantum Gravity</i> , 2010, 27, 084013.	4.0	494
10	European Pulsar Timing Array limits on an isotropic stochastic gravitational-wave background. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 453, 2577-2599.	4.4	380
11	High-precision timing of 42 millisecond pulsars with the European Pulsar Timing Array. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 458, 3341-3380.	4.4	351
12	A strong magnetic field around the supermassive black hole at the centre of the Galaxy. <i>Nature</i> , 2013, 501, 391-394.	27.8	340
13	The International Pulsar Timing Array: First data release. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 458, 1267-1288.	4.4	332
14	First M87 Event Horizon Telescope Results. VIII. Magnetic Field Structure near The Event Horizon. <i>Astrophysical Journal Letters</i> , 2021, 910, L13.	8.3	297
15	First M87 Event Horizon Telescope Results. VII. Polarization of the Ring. <i>Astrophysical Journal Letters</i> , 2021, 910, L12.	8.3	215
16	First Sagittarius A* Event Horizon Telescope Results. VI. Testing the Black Hole Metric. <i>Astrophysical Journal Letters</i> , 2022, 930, L17.	8.3	215
17	The International Pulsar Timing Array: second data release. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 490, 4666-4687.	4.4	191
18	Gravitational Test beyond the First Post-Newtonian Order with the Shadow of the M87 Black Hole. <i>Physical Review Letters</i> , 2020, 125, 141104.	7.8	190

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19	First Sagittarius A* Event Horizon Telescope Results. V. Testing Astrophysical Models of the Galactic Center Black Hole. <i>Astrophysical Journal Letters</i> , 2022, 930, L16.	8.3	187
20	Common-red-signal analysis with 24-yr high-precision timing of the European Pulsar Timing Array: inferences in the stochastic gravitational-wave background search. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 508, 4970-4993.	4.4	184
21	The Event Horizon General Relativistic Magnetohydrodynamic Code Comparison Project. <i>Astrophysical Journal, Supplement Series</i> , 2019, 243, 26.	7.7	175
22	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.	4.4	174
23	First Sagittarius A* Event Horizon Telescope Results. III. Imaging of the Galactic Center Supermassive Black Hole. <i>Astrophysical Journal Letters</i> , 2022, 930, L14.	8.3	163
24	European Pulsar Timing Array limits on continuous gravitational waves from individual supermassive black hole binaries. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 455, 1665-1679.	4.4	149
25	BlackHoleCam: Fundamental physics of the galactic center. <i>International Journal of Modern Physics D</i> , 2017, 26, 1730001.	2.1	148
26	Generic tests of the existence of the gravitational dipole radiation and the variation of the gravitational constant. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 400, 805-814.	4.4	142
27	First Sagittarius A* Event Horizon Telescope Results. II. EHT and Multiwavelength Observations, Data Processing, and Calibration. <i>Astrophysical Journal Letters</i> , 2022, 930, L13.	8.3	142
28	First Sagittarius A* Event Horizon Telescope Results. IV. Variability, Morphology, and Black Hole Mass. <i>Astrophysical Journal Letters</i> , 2022, 930, L15.	8.3	137
29	THREE MILLISECOND PULSARS IN <i>FERMI</i> LAT UNASSOCIATED BRIGHT SOURCES. <i>Astrophysical Journal Letters</i> , 2011, 727, L16.	8.3	133
30	SEARCHING FOR PULSARS USING IMAGE PATTERN RECOGNITION. <i>Astrophysical Journal</i> , 2014, 781, 117.	4.5	99
31	Strong-Field Gravity Tests with the Double Pulsar. <i>Physical Review X</i> , 2021, 11, .	8.9	97
32	THE BINARY COMPANION OF YOUNG, RELATIVISTIC PULSAR J1906+0746. <i>Astrophysical Journal</i> , 2015, 798, 118.	4.5	82
33	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.	4.4	82
34	Rotation Measure Evolution of the Repeating Fast Radio Burst Source FRB 121102. <i>Astrophysical Journal Letters</i> , 2021, 908, L10.	8.3	80
35	PULSE BROADENING MEASUREMENTS FROM THE GALACTIC CENTER PULSAR J1745-2900. <i>Astrophysical Journal Letters</i> , 2014, 780, L3.	8.3	75
36	Tests of gravitational symmetries with pulsar binary J1713+0747. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 482, 3249-3260.	4.4	73

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37	Polarimetric Properties of Event Horizon Telescope Targets from ALMA. <i>Astrophysical Journal Letters</i> , 2021, 910, L14.	8.3	67
38	AN ASTEROID BELT INTERPRETATION FOR THE TIMING VARIATIONS OF THE MILLISECOND PULSAR B1937+21. <i>Astrophysical Journal</i> , 2013, 766, 5.	4.5	66
39	Event Horizon Telescope observations of the jet launching and collimation in Centaurus A. <i>Nature Astronomy</i> , 2021, 5, 1017-1028.	10.1	65
40	Measuring pulse times of arrival from broad-band pulsar observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 443, 3752-3760.	4.4	56
41	THE PROPER MOTION OF THE GALACTIC CENTER PULSAR RELATIVE TO SAGITTARIUS A*. <i>Astrophysical Journal</i> , 2015, 798, 120.	4.5	56
42	Broadband Multi-wavelength Properties of M87 during the 2017 Event Horizon Telescope Campaign. <i>Astrophysical Journal Letters</i> , 2021, 911, L11.	8.3	56
43	Event Horizon Telescope imaging of the archetypal blazar 3C 279 at an extreme 20 microarcsecond resolution. <i>Astronomy and Astrophysics</i> , 2020, 640, A69.	5.1	54
44	THE EINSTEIN@HOME SEARCH FOR RADIO PULSARS AND PSR J2007+2722 DISCOVERY. <i>Astrophysical Journal</i> , 2013, 773, 91.	4.5	53
45	A pulsar-based time-scale from the International Pulsar Timing Array. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 491, 5951-5965.	4.4	51
46	Monitoring the Morphology of M87* in 2009–2017 with the Event Horizon Telescope. <i>Astrophysical Journal</i> , 2020, 901, 67.	4.5	51
47	Large Magneto-ionic Variations toward the Galactic Center Magnetar, PSR J1745-2900. <i>Astrophysical Journal Letters</i> , 2018, 852, L12.	8.3	50
48	peace: pulsar evaluation algorithm for candidate extraction – a software package for post-analysis processing of pulsar survey candidates. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 433, 688-694.	4.4	48
49	The noise properties of 42 millisecond pulsars from the European Pulsar Timing Array and their impact on gravitational-wave searches. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 457, 4421-4440.	4.4	48
50	Limits on Anisotropy in the Nanohertz Stochastic Gravitational Wave Background. <i>Physical Review Letters</i> , 2015, 115, 041101.	7.8	47
51	THEMIS: A Parameter Estimation Framework for the Event Horizon Telescope. <i>Astrophysical Journal</i> , 2020, 897, 139.	4.5	47
52	Simultaneous multifrequency radio observations of the Galactic Centre magnetar SGR J1745–2900. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2015, 451, L50-L54.	3.3	46
53	Radio emission from a pulsar's magnetic pole revealed by general relativity. <i>Science</i> , 2019, 365, 1013-1017.	12.6	45
54	Verification of Radiative Transfer Schemes for the EHT. <i>Astrophysical Journal</i> , 2020, 897, 148.	4.5	44

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55	An improved test of the strong equivalence principle with the pulsar in a triple star system. <i>Astronomy and Astrophysics</i> , 2020, 638, A24.	5.1	44
56	The Polarized Image of a Synchrotron-emitting Ring of Gas Orbiting a Black Hole. <i>Astrophysical Journal</i> , 2021, 912, 35.	4.5	43
57	Millimeter Light Curves of Sagittarius A* Observed during the 2017 Event Horizon Telescope Campaign. <i>Astrophysical Journal Letters</i> , 2022, 930, L19.	8.3	43
58	A millisecond pulsar in an extremely wide binary system. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 460, 2207-2222.	4.4	41
59	A Massive-born Neutron Star with a Massive White Dwarf Companion. <i>Astrophysical Journal</i> , 2017, 844, 128.	4.5	38
60	The gamma-ray millisecond pulsar deathline, revisited. <i>Astronomy and Astrophysics</i> , 2016, 587, A109.	5.1	37
61	21-year timing of the black-widow pulsar J2051+0827. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, 1029-1038.	4.4	36
62	Studying the Solar system with the International Pulsar Timing Array. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 481, 5501-5516.	4.4	36
63	Detection of the magnetar SGR J1745+2900 up to 291 GHz with evidence of polarized millimetre emission. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 465, 242-247.	4.4	35
64	Spin frequency evolution and pulse profile variations of the recently re-activated radio magnetar XTE J1810-197. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 488, 5251-5258.	4.4	30
65	Noise analysis in the European Pulsar Timing Array data release 2 and its implications on the gravitational-wave background search. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 509, 5538-5558.	4.4	28
66	Improving timing sensitivity in the microhertz frequency regime: limits from PSR J1713+0747 on gravitational waves produced by supermassive black hole binaries. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 478, 218-227.	4.4	22
67	A revisit of PSR J1909+3744 with 15-yr high-precision timing. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 499, 2276-2291.	4.4	22
68	Selective Dynamical Imaging of Interferometric Data. <i>Astrophysical Journal Letters</i> , 2022, 930, L18.	8.3	21
69	High-cadence observations and variable spin behaviour of magnetar Swift J1818.0-1607 after its outburst. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 6044-6056.	4.4	20
70	Characterizing and Mitigating Intraday Variability: Reconstructing Source Structure in Accreting Black Holes with mm-VLBI. <i>Astrophysical Journal Letters</i> , 2022, 930, L21.	8.3	20
71	A Universal Power-law Prescription for Variability from Synthetic Images of Black Hole Accretion Flows. <i>Astrophysical Journal Letters</i> , 2022, 930, L20.	8.3	20
72	PSR J1618+3921: a recycled pulsar in an eccentric orbit. <i>Astronomy and Astrophysics</i> , 2018, 612, A78.	5.1	16

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73	Searching for pulsars in the Galactic centre at 3 and 2 mm. <i>Astronomy and Astrophysics</i> , 2021, 650, A95.	5.1	16
74	Timing of PSR J2055+3829, an eclipsing black widow pulsar discovered with the Nançay Radio Telescope. <i>Astronomy and Astrophysics</i> , 2019, 629, A92.	5.1	14
75	Detection of the magnetar XTE J1810-197 at 150 and 260 GHz with the NIKA2 kinetic inductance detector camera. <i>Astronomy and Astrophysics</i> , 2020, 640, L2.	5.1	14
76	The Discovery of Six Recycled Pulsars from the Arecibo 327 MHz Drift-Scan Pulsar Survey. <i>Astrophysical Journal</i> , 2019, 881, 166.	4.5	14
77	An 86 GHz Search for Pulsars in the Galactic Center with the Atacama Large Millimeter / submillimeter Array. <i>Astrophysical Journal</i> , 2021, 914, 30.	4.5	13
78	Radio and X-ray observations of giant pulses from XTE J1810-197. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 510, 1996-2010.	4.4	13
79	Multi-epoch searches for relativistic binary pulsars and fast transients in the Galactic Centre. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 507, 5053-5068.	4.4	11
80	Understanding and improving the timing of PSR J0737-3039B. <i>Astronomy and Astrophysics</i> , 2020, 643, A143.	5.1	10
81	Detection of Pulses from the Vela Pulsar at Millimeter Wavelengths with Phased ALMA. <i>Astrophysical Journal Letters</i> , 2019, 885, L10.	8.3	9
82	Revisiting the Galactic Double Neutron Star merger and LIGO detection rates. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 507, 5658-5670.	4.4	8
83	Timing stability of three black widow pulsars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 494, 2591-2599.	4.4	7
84	The Variability of the Black Hole Image in M87 at the Dynamical Timescale. <i>Astrophysical Journal</i> , 2022, 925, 13.	4.5	6
85	Long term radio and X-ray evolution of the magnetar Swift J1818.0-1607. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 512, 1687-1695.	4.4	6
86	Submillimeter Pulsations from the Magnetar XTE J1810-197. <i>Astrophysical Journal Letters</i> , 2022, 925, L17.	8.3	5
87	PSR J1906+0746: From relativistic spin-precession to beam modeling. <i>Proceedings of the International Astronomical Union</i> , 2012, 8, 199-202.	0.0	4
88	SPAN512: A new mid-latitude pulsar survey with the Nançay Radio Telescope. <i>Proceedings of the International Astronomical Union</i> , 2012, 8, 375-377.	0.0	1