

Christophe Le Poncin-Lafitte

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

16,579
citations

136950

32
h-index

123424

61
g-index

70
all docs

70
docs citations

70
times ranked

12233
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>Gaia</i> Data Release 2. <i>Astronomy and Astrophysics</i> , 2018, 616, A1.	5.1	6,364
2	The <i>Gaia</i> mission. <i>Astronomy and Astrophysics</i> , 2016, 595, A1.	5.1	4,509
3	<i>Gaia</i> Data Release 1. <i>Astronomy and Astrophysics</i> , 2016, 595, A2.	5.1	1,590
4	<i>Gaia</i> Data Release 2. <i>Astronomy and Astrophysics</i> , 2018, 616, A10.	5.1	638
5	<i>Gaia</i> Data Release 2. <i>Astronomy and Astrophysics</i> , 2018, 616, A12.	5.1	491
6	<i>Gaia</i> Data Release 2. <i>Astronomy and Astrophysics</i> , 2018, 616, A11.	5.1	323
7	Prospects for fundamental physics with LISA. <i>General Relativity and Gravitation</i> , 2020, 52, 1.	2.0	198
8	STRONG TIDAL DISSIPATION IN SATURN AND CONSTRAINTS ON ENCELADUS' THERMAL STATE FROM ASTROMETRY. <i>Astrophysical Journal</i> , 2012, 752, 14.	4.5	163
9	Test of Special Relativity Using a Fiber Network of Optical Clocks. <i>Physical Review Letters</i> , 2017, 118, 221102.	7.8	155
10	<i>Gaia</i> Data Release 2. <i>Astronomy and Astrophysics</i> , 2018, 616, A14.	5.1	140
11	New constraints on Saturn's interior from Cassini astrometric data. <i>Icarus</i> , 2017, 281, 286-296.	2.5	137
12	Accretion of Saturn's mid-sized moons during the viscous spreading of young massive rings: Solving the paradox of silicate-poor rings versus silicate-rich moons. <i>Icarus</i> , 2011, 216, 535-550.	2.5	123
13	INPOPO8, a 4-D planetary ephemeris: from asteroid and time-scale computations to ESA Mars Express and Venus Express contributions. <i>Astronomy and Astrophysics</i> , 2009, 507, 1675-1686.	5.1	119
14	Gravitational Redshift Test Using Eccentric <i>Galileo</i> Satellites. <i>Physical Review Letters</i> , 2018, 121, 231101.	7.8	115
15	<i>Gaia</i> Data Release 2. <i>Astronomy and Astrophysics</i> , 2019, 623, A110.	5.1	101
16	General post-Minkowskian expansion of time transfer functions. <i>Classical and Quantum Gravity</i> , 2008, 25, 145020.	4.0	87
17	Improved determination of $\hat{\Gamma}^3$ by VLBI. <i>Astronomy and Astrophysics</i> , 2011, 529, A70.	5.1	87
18	New horizons for fundamental physics with LISA. <i>Living Reviews in Relativity</i> , 2022, 25, .	26.7	82

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19	<i>Gaia</i> Data Release 2. <i>Astronomy and Astrophysics</i> , 2018, 616, A13.	5.1	78
20	<i>Gaia</i> Data Release 1. <i>Astronomy and Astrophysics</i> , 2017, 605, A79.	5.1	78
21	<i>Gaia</i> Data Release 1. <i>Astronomy and Astrophysics</i> , 2017, 601, A19.	5.1	77
22	Determining the relativistic parameter $\hat{\gamma}^3$ using very long baseline interferometry. <i>Astronomy and Astrophysics</i> , 2009, 499, 331-335.	5.1	76
23	Tests of Lorentz Symmetry in the Gravitational Sector. <i>Universe</i> , 2016, 2, 30.	2.5	68
24	World function and time transfer: general post-Minkowskian expansions. <i>Classical and Quantum Gravity</i> , 2004, 21, 4463-4483.	4.0	58
25	Testing Lorentz symmetry with planetary orbital dynamics. <i>Physical Review D</i> , 2015, 92, .	4.7	48
26	Testing Lorentz Symmetry with Lunar Laser Ranging. <i>Physical Review Letters</i> , 2016, 117, 241301.	7.8	48
27	Tidal dynamics of extended bodies in planetary systems and multiple stars. <i>Astronomy and Astrophysics</i> , 2009, 497, 889-910.	5.1	44
28	Lorentz Symmetry Violations from Matter-Gravity Couplings with Lunar Laser Ranging. <i>Physical Review Letters</i> , 2017, 119, 201102.	7.8	41
29	Relativistic formulation of coordinate light time, Doppler, and astrometric observables up to the second post-Minkowskian order. <i>Physical Review D</i> , 2014, 89, .	4.7	39
30	Radioscience simulations in general relativity and in alternative theories of gravity. <i>Classical and Quantum Gravity</i> , 2012, 29, 235027.	4.0	38
31	Influence of mass multipole moments on the deflection of a light ray by an isolated axisymmetric body. <i>Physical Review D</i> , 2008, 77, .	4.7	36
32	Impact of the frequency dependence of tidal Q on the evolution of planetary systems. <i>Astronomy and Astrophysics</i> , 2014, 561, L7.	5.1	35
33	The impact of rotation on turbulent tidal friction in stellar and planetary convective regions. <i>Astronomy and Astrophysics</i> , 2016, 592, A33.	5.1	33
34	Evolution of star-planet systems under magnetic braking and tidal interaction. <i>Astronomy and Astrophysics</i> , 2019, 621, A124.	5.1	33
35	Atomic clock ensemble in space (ACES) data analysis. <i>Classical and Quantum Gravity</i> , 2018, 35, 035018.	4.0	32
36	Lorentz symmetry and very long baseline interferometry. <i>Physical Review D</i> , 2016, 94, .	4.7	28

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37	The construction of the large quasar astrometric catalogue (LQAC). <i>Astronomy and Astrophysics</i> , 2009, 494, 799-815.	5.1	27
38	Scaling laws to understand tidal dissipation in fluid planetary regions and stars I. Rotation, stratification and thermal diffusivity. <i>Astronomy and Astrophysics</i> , 2015, 581, A118.	5.1	27
39	Light propagation in the field of a moving axisymmetric body: Theory and applications to the Juno mission. <i>Physical Review D</i> , 2014, 90, .	4.7	25
40	Testing gravity with cold-atom clocks in space. <i>European Physical Journal D</i> , 2020, 74, 1.	1.3	23
41	Gravitational redshift test with the future ACES mission. <i>Classical and Quantum Gravity</i> , 2019, 36, 245004.	4.0	20
42	Exploring the foundations of the physical universe with space tests of the equivalence principle. <i>Experimental Astronomy</i> , 2021, 51, 1695-1736.	3.7	20
43	Time transfer functions as a way to validate light propagation solutions for space astrometry. <i>Classical and Quantum Gravity</i> , 2014, 31, 015021.	4.0	19
44	GETEMME – a mission to explore the Martian satellites and the fundamentals of solar system physics. <i>Experimental Astronomy</i> , 2012, 34, 243-271.	3.7	17
45	Time and frequency transfer with a MicroWave Link in the ACES/PHARAO mission. , 2012, , .		12
46	A new test of gravitational redshift using Galileo satellites: The GREAT experiment. <i>Comptes Rendus Physique</i> , 2019, 20, 176-182.	0.9	11
47	A Universal Tool for Determining the Time Delay and the Frequency Shift of Light: Synge's World function. <i>Astrophysics and Space Science Library</i> , 2008, , 153-180.	2.7	11
48	Constraining velocity-dependent Lorentz and C violations using lunar laser ranging. <i>Physical Review D</i> , 2021, 103, .	4.7	8
49	Impact of dipolar magnetic fields on gravitational wave strain by galactic binaries. <i>Physical Review D</i> , 2022, 105, .	4.7	7
50	Impact analysis of the transponder time delay on radio-tracking observables. <i>Advances in Space Research</i> , 2018, 61, 89-96.	2.6	6
51	Astrometric comparisons of quasar catalogues. <i>Astronomy and Astrophysics</i> , 2008, 485, 299-302.	5.1	6
52	ACES/PHARAO: high-performance space-to-ground and ground-to-ground clock comparison for fundamental physics. <i>GPS Solutions</i> , 2021, 25, 1.	4.3	5
53	Close approaches between Jupiter and quasars with possible application to the scheduled GAIA mission. <i>Astronomy and Astrophysics</i> , 2007, 471, 335-343.	5.1	4
54	Local tests of gravitation with Gaia observations of Solar System Objects. <i>Proceedings of the International Astronomical Union</i> , 2017, 12, 63-66.	0.0	3

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55	Numerical study of relativistic frequency shift for the cold-atom clock experiment in space. <i>Classical and Quantum Gravity</i> , 2007, 24, 801-808.	4.0	2
56	Time and frequency transfer with the ESA/CNES ACES-PHARAO mission. <i>Proceedings of the International Astronomical Union</i> , 2012, 10, 211-212.	0.0	2
57	SIMULATIONS OF SOLAR SYSTEM OBSERVATIONS IN ALTERNATIVE THEORIES OF GRAVITY. , 2015, , .		2
58	Application of time transfer functions to Gaia's global astrometry. <i>Astronomy and Astrophysics</i> , 2017, 608, A83.	5.1	2
59	The NAROO digitization center. <i>Astronomy and Astrophysics</i> , 2021, 652, A3.	5.1	2
60	A comparative study of rigid Earth, non-rigid Earth nutation theories, and observational data. <i>Astronomy and Astrophysics</i> , 2007, 472, 681-689.	5.1	2
61	A NICE TOOL FOR RELATIVISTIC ASTROMETRY: SYNGE'S WORLD FUNCTION. , 2008, , .		1
62	Tidal dissipation in stars and fluid planetary layers and its impact on the evolution of star-planet systems. <i>EPJ Web of Conferences</i> , 2015, 101, 04005.	0.3	1
63	Astrometry for New Reductions: The ANR method. <i>Proceedings of the International Astronomical Union</i> , 2017, 12, 96-97.	0.0	1
64	Use of Geodesy and Geophysics Measurements to Probe the Gravitational Interaction. <i>Fundamental Theories of Physics</i> , 2019, , 317-358.	0.3	1
65	Publisher's Note: Influence of mass multipole moments on the deflection of a light ray by an isolated axisymmetric body [<i>Phys. Rev. D</i> 77, 044029 (2008)]. <i>Physical Review D</i> , 2008, 77, .	4.7	0
66	Practical relativistic clock synchronization for high-accuracy space astrometry. <i>Proceedings of the International Astronomical Union</i> , 2009, 5, 334-336.	0.0	0
67	Scaling laws to understand tidal dissipation in fluid planetary layers and stars. <i>Proceedings of the International Astronomical Union</i> , 2014, 9, 29-32.	0.0	0
68	Tidal interactions in rotating multiple stars and their impact on their evolution. <i>Proceedings of the International Astronomical Union</i> , 2014, 9, 208-210.	0.0	0
69	Could star-planet magnetic interactions lead to planet migration and influence stellar rotation?. <i>Proceedings of the International Astronomical Union</i> , 2019, 15, 295-299.	0.0	0
70	HOW TO TEST THE SME WITH SPACE MISSIONS?. , 2014, , 107-110.		0