

Timothy J Sumner

List of Publications by Year in descending order

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84
papers

2,943
citations

257450

24
h-index

168389

53
g-index

86
all docs

86
docs citations

86
times ranked

6004
citing authors

#	ARTICLE	IF	CITATIONS
1	Sub-Femto- $\langle g \rangle$ Free Fall for Space-Based Gravitational Wave Observatories: LISA Pathfinder Results. <i>Physical Review Letters</i> , 2016, 116, 231101.	7.8	454
2	<i>MICROSCOPE</i> Mission: First Results of a Space Test of the Equivalence Principle. <i>Physical Review Letters</i> , 2017, 119, 231101.	7.8	276
3	Simplified models for dark matter searches at the LHC. <i>Physics of the Dark Universe</i> , 2015, 9-10, 8-23.	4.9	250
4	Beyond the Required LISA Free-Fall Performance: New LISA Pathfinder Results down to $20 \times 10^{-14} \text{ m/s}^2$. <i>Physical Review Letters</i> , 2018, 120, 061101.	7.8	233
5	The European Large Area ISO Survey – I. Goals, definition and observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2000, 316, 749-767.	4.4	173
6	The European Large-Area ISO Survey (ELAIS): the final band-merged catalogue. <i>Monthly Notices of the Royal Astronomical Society</i> , 2004, 351, 1290-1306.	4.4	121
7	Gravitational sensor for LISA and its technology demonstration mission. <i>Classical and Quantum Gravity</i> , 2003, 20, S99-S108.	4.0	111
8	The LTP experiment on the LISA Pathfinder mission. <i>Classical and Quantum Gravity</i> , 2005, 22, S125-S138.	4.0	92
9	The European Large Area ISO Survey – II. Mid-infrared extragalactic source counts. <i>Monthly Notices of the Royal Astronomical Society</i> , 2000, 316, 768-778.	4.4	86
10	STEP (satellite test of the equivalence principle). <i>Advances in Space Research</i> , 2007, 39, 254-258.	2.6	72
11	The European Large Area ISO Survey – III. 90- μm extragalactic source counts. <i>Monthly Notices of the Royal Astronomical Society</i> , 2000, 319, 1169-1177.	4.4	60
12	LISA and its in-flight test precursor SMART-2. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2002, 110, 209-216.	0.4	58
13	Space test of the equivalence principle: first results of the <i>MICROSCOPE</i> mission. <i>Classical and Quantum Gravity</i> , 2019, 36, 225006.	4.0	56
14	Experimental results from the ST7 mission on LISA Pathfinder. <i>Physical Review D</i> , 2018, 98, .	4.7	48
15	Table-top neutron source for characterization and calibration of dark matter detectors. <i>Applied Physics Letters</i> , 2002, 80, 3009-3011.	3.3	46
16	Single electron emission in two-phase xenon with application to the detection of coherent neutrino-nucleus scattering. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.	4.7	42
17	LISA Pathfinder platform stability and drag-free performance. <i>Physical Review D</i> , 2019, 99, .	4.7	41
18	Interplay and characterization of Dark Matter searches at colliders and in direct detection experiments. <i>Physics of the Dark Universe</i> , 2015, 9-10, 51-58.	4.9	40

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19	The European Large Area ISO Survey – IV. The preliminary 90-Åm luminosity function. Monthly Notices of the Royal Astronomical Society, 2001, 322, 262-268.	4.4	34
20	Experimental Searches for Dark Matter. Living Reviews in Relativity, 2002, 5, 4.	26.7	31
21	Precision charge control for isolated free-falling test masses: LISA pathfinder results. Physical Review D, 2018, 98, .	4.7	31
22	Astrodynamical Space Test of Relativity Using Optical Devices I (ASTROD I)â€™A class-M fundamental physics mission proposal for Cosmic Vision 2015â€™2025. Experimental Astronomy, 2009, 23, 491-527.	3.7	30
23	The LISA Pathfinder Mission. Journal of Physics: Conference Series, 2015, 610, 012005.	0.4	26
24	Characteristics and Energy Dependence of Recurrent Galactic Cosmic-Ray Flux Depressions and of a Forbush Decrease with LISA Pathfinder. Astrophysical Journal, 2018, 854, 113.	4.5	26
25	Sensor Noise in <i>LISA Pathfinder</i> : In-Flight Performance of the Optical Test Mass Readout. Physical Review Letters, 2021, 126, 131103.	7.8	25
26	Neutron damage of chemical vapour deposition diamond. Journal Physics D: Applied Physics, 1995, 28, 1279-1283.	2.8	24
27	LISA Pathfinder micronewton cold gas thrusters: In-flight characterization. Physical Review D, 2019, 99, .	4.7	23
28	ASTROD I: Mission concept and Venus flybys. Acta Astronautica, 2006, 59, 598-607.	3.2	21
29	Calibrating the system dynamics of LISA Pathfinder. Physical Review D, 2018, 97, .	4.7	20
30	Exploring the foundations of the physical universe with space tests of the equivalence principle. Experimental Astronomy, 2021, 51, 1695-1736.	3.7	20
31	Near- and mid-infrared colours of star-forming galaxies in European Large Area ISO Survey fields. Monthly Notices of the Royal Astronomical Society, 2002, 337, 1043-1058.	4.4	19
32	Solar And Cosmic Ray Physics And The Space Environment: Studies For And With LISA. AIP Conference Proceedings, 2006, , .	0.4	19
33	Charge induced acceleration noise in the LISA gravitational reference sensor. Classical and Quantum Gravity, 2020, 37, 045010.	4.0	19
34	Effective decrease of photoelectric emission threshold from gold plated surfaces. Review of Scientific Instruments, 2019, 90, 064501.	1.3	18
35	First Constraints on Source Counts at 350 Î¼m. Astrophysical Journal, 2007, 665, 973-979.	4.5	17
36	Constraints on LISA Pathfinderâ€™s self-gravity: design requirements, estimates and testing procedures. Classical and Quantum Gravity, 2016, 33, 235015.	4.0	17

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37	Temperature stability in the sub-milliHertz band with LISA Pathfinder. Monthly Notices of the Royal Astronomical Society, 2019, 486, 3368-3379.	4.4	17
38	Investigation of charge management using UV LED device with a torsion pendulum for TianQin. Classical and Quantum Gravity, 2020, 37, 115005.	4.0	16
39	GAUGE: the GrAnd Unification and Gravity Explorer. Experimental Astronomy, 2009, 23, 549-572.	3.7	15
40	Micrometeoroid Events in LISA Pathfinder. Astrophysical Journal, 2019, 883, 53.	4.5	15
41	Spacecraft and interplanetary contributions to the magnetic environment on-board LISA Pathfinder. Monthly Notices of the Royal Astronomical Society, 2020, 494, 3014-3027.	4.4	14
42	Measuring the Galactic Cosmic Ray flux with the LISA Pathfinder radiation monitor. Astroparticle Physics, 2018, 98, 28-37.	4.3	13
43	In-flight testing of the injection of the LISA Pathfinder test mass into a geodesic. Advances in Space Research, 2021, 67, 504-520.	2.6	12
44	A charge control method for space-mission inertial sensor using differential UV LED emission. Review of Scientific Instruments, 2020, 91, 124502.	1.3	12
45	Forbush Decreases and ~ 2 Day GCR Flux Non-recurrent Variations Studied with LISA Pathfinder. Astrophysical Journal, 2019, 874, 167.	4.5	11
46	A Charge Management System for Gravitational Reference Sensors " Design and Instrument Testing. , 2021, , .		10
47	Charging of isolated proof masses in satellite experiments such as LISA. , 2003, , .		9
48	THE OBSERVATION OF GRAVITATIONAL WAVES FROM SPACE USING LISA. Modern Physics Letters A, 2004, 19, 785-800.	1.2	9
49	On the Discovery of the First Galaxy Selected at 350 Microns. Astrophysical Journal, 2005, 631, L9-L12.	4.5	9
50	ASTROD and ASTROD I: Progress Report. Journal of Physics: Conference Series, 2006, 32, 154-160.	0.4	9
51	Testing of the UV discharge system for LISA Pathfinder. AIP Conference Proceedings, 2006, , .	0.4	9
52	Estimating accuracy of electrostatic finite element models. Communications in Numerical Methods in Engineering, 2004, 20, 313-321.	1.3	8
53	Further computation of the test mass charging and disturbances in ASTROD I. Nuclear Physics, Section B, Proceedings Supplements, 2007, 166, 246-248.	0.4	8
54	Analysis of the accuracy of actuation electronics in the laser interferometer space antenna pathfinder. Review of Scientific Instruments, 2020, 91, 045003.	1.3	8

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55	Electrostatic modeling for LISA. , 2003, , .		6
56	LISA Pathfinder Performance Confirmed in an Open-Loop Configuration: Results from the Free-Fall Actuation Mode. Physical Review Letters, 2019, 123, 111101.	7.8	6
57	The local dark sector. Experimental Astronomy, 2021, 51, 1737-1766.	3.7	6
58	Novel methods to measure the gravitational constant in space. Physical Review D, 2019, 100, .	4.7	5
59	Space-based detectors. General Relativity and Gravitation, 2014, 46, 1.	2.0	4
60	Disentangling the magnetic force noise contribution in LISA Pathfinder. Journal of Physics: Conference Series, 2015, 610, 012024.	0.4	4
61	Soft-electron background in x-ray telescopes using Wolter I grazing-incidence optics in near-Earth orbits. Optical Engineering, 1990, 29, 1291.	1.0	3
62	Equivalence Principle Measurements. General Relativity and Gravitation, 2004, 36, 2331-2339.	2.0	3
63	The LISA Pathfinder Radiation Monitor. AIP Conference Proceedings, 2006, , .	0.4	3
64	The STEP and GAUGE Missions. Space Science Reviews, 2009, 148, 475-487.	8.1	3
65	In-flight thermal experiments for LISA Pathfinder: Simulating temperature noise at the Inertial Sensors. Journal of Physics: Conference Series, 2015, 610, 012023.	0.4	3
66	<title>Recent developments using GaAs as an x-ray detector</title>. , 1991, 1549, 256.		2
67	ON THE NATURE OF THE FIRST GALAXIES SELECTED AT 350 $\hat{1}$ / ₄ m. Astrophysical Journal, 2009, 706, 319-327.	4.5	2
68	Direct dark matter searches - recent highlights. Journal of Physics: Conference Series, 2011, 312, 072003.	0.4	2
69	Bayesian statistics for the calibration of the LISA Pathfinder experiment. Journal of Physics: Conference Series, 2015, 610, 012027.	0.4	2
70	LISA Pathfinder. , 2020, , .		2
71	SEP flux mapping with PHOEBUS. Journal of Physics: Conference Series, 2006, 32, 6-11.	0.4	1
72	Free-flight experiments in LISA Pathfinder. Journal of Physics: Conference Series, 2015, 610, 012006.	0.4	1

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73	A Strategy to Characterize the LISA-Pathfinder Cold Gas Thruster System. Journal of Physics: Conference Series, 2015, 610, 012026.	0.4	1
74	Development of a Two-Phase Xenon Discriminating Detector for Use in Dark Matter Searches at the Boulby Underground Laboratory. , 2001, , 461-468.		1
75	The Potential of the Wide Field Camera on ROSAT for Investigations of the XUV Background. Symposium - International Astronomical Union, 1990, 139, 463-464.	0.1	0
76	<title>Low-temperature operation of silicon drift detectors</title>. , 1991, 1549, 265.		0
77	<title>Performance of milliKelvin Si bolometers as x-ray and exotic particle detectors</title>. , 1991, , .		0
78	New estimates of test-mass charging in the LISA mission. , 2004, 5500, 174.		0
79	Dark matter. , 2004, , .		0
80	Position sensitive detectors for astroparticle physics. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 573, 208-211.	1.6	0
81	A noise simulator for eLISA: Migrating LISA Pathfinder knowledge to the eLISA mission. Journal of Physics: Conference Series, 2015, 610, 012036.	0.4	0
82	The STEP and GAUGE Missions. Space Sciences Series of ISSI, 2009, , 527-539.	0.0	0
83	A fundamental test of gravity with LISA pathfinder. , 2017, , .		0
84	A five-dimensional approach to dark matter and dark energy. , 2022, , .		0