Carlo Zanoni

List of Publications by Year
in descending order

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26	749	933447 10	610901 24
papers	citations	h-index	g-index

26	26	26	866
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Sub-Femto-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>g</mml:mi></mml:mrow></mml:math>Free Fall for Space-Based Gravitational Wave Observatories: LISA Pathfinder Results. Physical Review Letters, 2016, 116, 231101.	7.8	454
2	Charge-Induced Force Noise on Free-Falling Test Masses: Results from LISA Pathfinder. Physical Review Letters, 2017, 118, 171101.	7.8	62
3	Capacitive sensing of test mass motion with nanometer precision over millimeter-wide sensing gaps for space-borne gravitational reference sensors. Physical Review D, 2017, 96, .	4.7	40
4	The LISA Pathfinder Mission. Journal of Physics: Conference Series, 2015, 610, 012005.	0.4	26
5	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
6	Prediction of the LISA-Pathfinder release mechanism in-flight performance. Advances in Space Research, 2013, 51, 1145-1156.	2.6	18
7	Experimental-Analytical Qualification of a Piezoelectric Mechanism for a Critical Space Application. IEEE/ASME Transactions on Mechatronics, 2015, 20, 427-437.	5.8	17
8	Constraints on LISA Pathfinderâ€™s self-gravity: design requirements, estimates and testing procedures. Classical and Quantum Gravity, 2016, 33, 235015.	4.0	17
9	Micrometeoroid Events in LISA Pathfinder. Astrophysical Journal, 2019, 883, 53.	4.5	15
10	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
11	On-ground testing of the role of adhesion in the LISA-Pathfinder test mass injection phase. Advances in Space Research, 2017, 59, 2572-2582.	2.6	10
12	Summary of the results of the LISA-Pathfinder Test Mass release. Journal of Physics: Conference Series, 2015, 610, 012022.	0.4	9
13	Improvements in the measurement of metallic adhesion dynamics. Mechanical Systems and Signal Processing, 2015, 52-53, 600-613.	8.0	9
14	Design and vertical tests of double-quarter wave cavity prototypes for the high-luminosity LHC crab cavity system. Physical Review Accelerators and Beams, 2018, 21, .	1.6	8
15	The crab cavities cryomodule for SPS test. Journal of Physics: Conference Series, 2017, 874, 012092.	0.4	7
16	Disentangling the magnetic force noise contribution in LISA Pathfinder. Journal of Physics: Conference Series, 2015, 610, 012024.	0.4	4
17	Non-linear Mechanical Behaviour of Metallic Micro-wires under Dynamic Axial Loads. Experimental Mechanics, 2012, 52, 215-228.	2.0	3
18	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

#	Article	IF	Citations
19	Bayesian statistics for the calibration of the LISA Pathfinder experiment. Journal of Physics: Conference Series, 2015, 610, 012027.	0.4	2
20	Preliminary Mechanical Design Study of the Hollow Electron Lens for HL-LHC. Journal of Physics: Conference Series, 2017, 874, 012102.	0.4	2
21	Free-flight experiments in LISA Pathfinder. Journal of Physics: Conference Series, 2015, 610, 012006.	0.4	1
22	A Strategy to Characterize the LISA-Pathfinder Cold Gas Thruster System. Journal of Physics: Conference Series, 2015, 610, 012026.	0.4	1
23	Assessment of thermal loads in the CERN SPS crab cavities cryomodule¹. Journal of Physics: Conference Series, 2017, 874, 012005.	0.4	1
24	Estimation of the electrostatic effects in the LISA-Pathfinder critical test mass dynamics via the method of moments. IEEE/ASME Transactions on Mechatronics, 2021, , 1-1.	5.8	1
25	Design studies of a compact superconducting rf crab cavity for future colliders using Nb/Cu technology. Physical Review Accelerators and Beams, 2019, 22, .	1.6	1
26	A noise simulator for eLISA: Migrating LISA Pathfinder knowledge to the eLISA mission. Journal of Physics: Conference Series, 2015, 610, 012036.	0.4	0