Bruno Christophe

List of Publications by Year
in descending order

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30	1,021	471509 17	477307 29
papers	citations	h-index	g-index

32	32	32	1181
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	MICROSCOPE Mission: First Results of a Space Test of the Equivalence Principle. Physical Review Letters, 2017, 119, 231101.	7.8	276
2	Quantum physics exploring gravity in the outer solar system: the SAGAS project. Experimental Astronomy, 2009, 23, 651-687.	3.7	101
3	Macroscopic Quantum Resonators (MAQRO): 2015 update. EPJ Quantum Technology, 2016, 3, .	6.3	77
4	The science case for an orbital mission to Uranus: Exploring the origins and evolution of ice giant planets. Planetary and Space Science, 2014, 104, 122-140.	1.7	56
5	Space test of the equivalence principle: first results of the MICROSCOPE mission. Classical and Quantum Gravity, 2019, 36, 225006.	4.0	56
6	Odyssey: a solar system mission. Experimental Astronomy, 2009, 23, 529-547.	3.7	49
7	GRACE accelerometer data transplant. Advances in Space Research, 2019, 64, 623-644.	2.6	49
8	A new generation of ultra-sensitive electrostatic accelerometers for GRACE Follow-on and towards the next generation gravity missions. Acta Astronautica, 2015, 117, 1-7.	3.2	45
9	OSS (Outer Solar System): a fundamental and planetary physics mission to Neptune, Triton and the Kuiper Belt. Experimental Astronomy, 2012, 34, 203-242.	3.7	37
10	Neptune and Triton: Essential pieces of the Solar System puzzle. Planetary and Space Science, 2014, 104, 108-121.	1.7	34
11	Matter wave explorer of gravity (MWXG). Experimental Astronomy, 2009, 23, 611-649.	3.7	30
12	Impact of a novel hybrid accelerometer on satellite gravimetry performance. Advances in Space Research, 2019, 63, 3235-3248.	2.6	24
13	CHAMP, GRACE, GOCE Instruments and Beyond. International Association of Geodesy Symposia, 2012, , 215-221.	0.4	23
14	Pioneer 10 Doppler data analysis: Disentangling periodic and secular anomalies. Advances in Space Research, 2009, 43, 1538-1544.	2.6	22
15	Electrostatic accelerometer with bias rejection for gravitation and Solar System physics. Advances in Space Research, 2011, 48, 1248-1257.	2.6	22
16	Gaussian regression and power spectral density estimation with missing data: The MICROSCOPE space mission as a case study. Physical Review D, 2016, 93, .	4.7	20
17	Regression analysis with missing data and unknown colored noise: Application to the MICROSCOPE space mission. Physical Review D, 2015, 91, .	4.7	19
18	Status of Development of the Future Accelerometers for Next Generation Gravity Missions. International Association of Geodesy Symposia, 2018, , 85-89.	0.4	16

#	Article	IF	Citations
19	Earthâ€™s Energy Imbalance Measured From Space. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 32-45.	6.3	11
20	Hybrid Electrostaticâ€“Atomic Accelerometer for Future Space Gravity Missions. Remote Sensing, 2022, 14, 3273.	4.0	11
21	Ultra-sensitive electrostatic planar acceleration gradiometer for airborne geophysical surveys. Measurement Science and Technology, 2014, 25, 105902.	2.6	9
22	Error analysis of a new planar electrostatic gravity gradiometer for airborne surveys. Journal of Geodesy, 2015, 89, 1217-1231.	3.6	9
23	The local dark sector. Experimental Astronomy, 2021, 51, 1737-1766.	3.7	6
24	Unbiased acceleration measurements with an electrostatic accelerometer on a rotating platform. Advances in Space Research, 2013, 51, 188-197.	2.6	5
25	Simulation of Ambiguity Effects in Doppler Tracking ofÂPioneer Probes. Space Science Reviews, 2010, 151, 93-103.	8.1	3
26	A new planar electrostatic gravity gradiometer for airborne surveys. , 2013, , .		3
27	Drag and Attitude Control for the Next Generation Gravity Mission. Remote Sensing, 2022, 14, 2916.	4.0	3
28	ODYSSEY, Orbit Determination Software forÂtheÂPioneer Data Analysis. Space Science Reviews, 2010, 151, 105-121.	8.1	2
29	Experimental demonstration of bias rejection from electrostatic accelerometer measurements. Measurement: Journal of the International Measurement Confederation, 2013, 46, 1411-1420.	5.0	2
30	Open and closed loop guidance for an airbreathing winged launch vehicle. Acta Astronautica, 1995, 35, 83-97.	3.2	1