

Bruno Christophe

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

1,021
citations

471509

17
h-index

477307

29
g-index

32
all docs

32
docs citations

32
times ranked

1181
citing authors

#	ARTICLE	IF	CITATIONS
1	Drag and Attitude Control for the Next Generation Gravity Mission. <i>Remote Sensing</i> , 2022, 14, 2916.	4.0	3
2	Hybrid Electrostatic Atomic Accelerometer for Future Space Gravity Missions. <i>Remote Sensing</i> , 2022, 14, 3273.	4.0	11
3	The local dark sector. <i>Experimental Astronomy</i> , 2021, 51, 1737-1766.	3.7	6
4	Earth's Energy Imbalance Measured From Space. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019, 57, 32-45.	6.3	11
5	Space test of the equivalence principle: first results of the MICROSCOPE mission. <i>Classical and Quantum Gravity</i> , 2019, 36, 225006.	4.0	56
6	Impact of a novel hybrid accelerometer on satellite gravimetry performance. <i>Advances in Space Research</i> , 2019, 63, 3235-3248.	2.6	24
7	GRACE accelerometer data transplant. <i>Advances in Space Research</i> , 2019, 64, 623-644.	2.6	49
8	Status of Development of the Future Accelerometers for Next Generation Gravity Missions. <i>International Association of Geodesy Symposia</i> , 2018, , 85-89.	0.4	16
9	<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
10	Macroscopic Quantum Resonators (MAQRO): 2015 update. <i>EPJ Quantum Technology</i> , 2016, 3, .	6.3	77
11	Gaussian regression and power spectral density estimation with missing data: The MICROSCOPE space mission as a case study. <i>Physical Review D</i> , 2016, 93, .	4.7	20
12	Regression analysis with missing data and unknown colored noise: Application to the MICROSCOPE space mission. <i>Physical Review D</i> , 2015, 91, .	4.7	19
13	A new generation of ultra-sensitive electrostatic accelerometers for GRACE Follow-on and towards the next generation gravity missions. <i>Acta Astronautica</i> , 2015, 117, 1-7.	3.2	45
14	Error analysis of a new planar electrostatic gravity gradiometer for airborne surveys. <i>Journal of Geodesy</i> , 2015, 89, 1217-1231.	3.6	9
15	Ultra-sensitive electrostatic planar acceleration gradiometer for airborne geophysical surveys. <i>Measurement Science and Technology</i> , 2014, 25, 105902.	2.6	9
16	The science case for an orbital mission to Uranus: Exploring the origins and evolution of ice giant planets. <i>Planetary and Space Science</i> , 2014, 104, 122-140.	1.7	56
17	Neptune and Triton: Essential pieces of the Solar System puzzle. <i>Planetary and Space Science</i> , 2014, 104, 108-121.	1.7	34
18	Experimental demonstration of bias rejection from electrostatic accelerometer measurements. <i>Measurement: Journal of the International Measurement Confederation</i> , 2013, 46, 1411-1420.	5.0	2

#	ARTICLE	IF	CITATIONS
19	Unbiased acceleration measurements with an electrostatic accelerometer on a rotating platform. <i>Advances in Space Research</i> , 2013, 51, 188-197.	2.6	5
20	A new planar electrostatic gravity gradiometer for airborne surveys. , 2013, , .		3
21	OSS (Outer Solar System): a fundamental and planetary physics mission to Neptune, Triton and the Kuiper Belt. <i>Experimental Astronomy</i> , 2012, 34, 203-242.	3.7	37
22	CHAMP, GRACE, GOCE Instruments and Beyond. <i>International Association of Geodesy Symposia</i> , 2012, , 215-221.	0.4	23
23	Electrostatic accelerometer with bias rejection for gravitation and Solar System physics. <i>Advances in Space Research</i> , 2011, 48, 1248-1257.	2.6	22
24	Simulation of Ambiguity Effects in Doppler Tracking of Pioneer Probes. <i>Space Science Reviews</i> , 2010, 151, 93-103.	8.1	3
25	ODYSSEY, Orbit Determination Software for Pioneer Data Analysis. <i>Space Science Reviews</i> , 2010, 151, 105-121.	8.1	2
26	Pioneer 10 Doppler data analysis: Disentangling periodic and secular anomalies. <i>Advances in Space Research</i> , 2009, 43, 1538-1544.	2.6	22
27	Odyssey: a solar system mission. <i>Experimental Astronomy</i> , 2009, 23, 529-547.	3.7	49
28	Quantum physics exploring gravity in the outer solar system: the SAGAS project. <i>Experimental Astronomy</i> , 2009, 23, 651-687.	3.7	101
29	Matter wave explorer of gravity (MWXG). <i>Experimental Astronomy</i> , 2009, 23, 611-649.	3.7	30
30	Open and closed loop guidance for an airbreathing winged launch vehicle. <i>Acta Astronautica</i> , 1995, 35, 83-97.	3.2	1