

Jordi Portell

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

20,915
citations

218677

26
h-index

254184

43
g-index

55
all docs

55
docs citations

55
times ranked

11363
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>Gaia</i> Data Release 2. Astronomy and Astrophysics, 2018, 616, A1.	5.1	6,364
2	The<i>Gaia</i> mission. Astronomy and Astrophysics, 2016, 595, A1.	5.1	4,509
3	<i>Gaia</i> Early Data Release 3. Astronomy and Astrophysics, 2021, 649, A1.	5.1	2,429
4	<i>Gaia</i> Data Release 1. Astronomy and Astrophysics, 2016, 595, A2.	5.1	1,590
5	<i>Gaia</i> Data Release 2. Astronomy and Astrophysics, 2018, 616, A2.	5.1	1,576
6	<i>Gaia</i> Early Data Release 3. Astronomy and Astrophysics, 2021, 649, A2.	5.1	647
7	<i>Gaia</i> Data Release 2. Astronomy and Astrophysics, 2018, 616, A10.	5.1	638
8	<i>Gaia</i> Data Release 2. Astronomy and Astrophysics, 2018, 616, A4.	5.1	556
9	<i>Gaia</i> Data Release 1. Astronomy and Astrophysics, 2016, 595, A4.	5.1	536
10	<i>Gaia</i> Data Release 2. Astronomy and Astrophysics, 2018, 616, A12.	5.1	491
11	<i>Gaia</i> Data Release 2. Astronomy and Astrophysics, 2018, 616, A11.	5.1	323
12	<i>Gaia</i> Early Data Release 3. Astronomy and Astrophysics, 2021, 649, A6.	5.1	175
13	<i>Gaia</i> Data Release 2. Astronomy and Astrophysics, 2018, 616, A14.	5.1	140
14	<i>Gaia</i> Data Release 2. Astronomy and Astrophysics, 2019, 623, A110.	5.1	101
15	<i>Gaia</i> Data Release 1. Astronomy and Astrophysics, 2016, 595, A3.	5.1	85
16	<i>Gaia</i> Early Data Release 3. Astronomy and Astrophysics, 2021, 649, A7.	5.1	84
17	<i>Gaia</i> Data Release 2. Astronomy and Astrophysics, 2018, 616, A13.	5.1	78
18	<i>Gaia</i> Data Release 1. Astronomy and Astrophysics, 2017, 605, A79.	5.1	78

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19	<i>Gaia</i> Data Release 1. Astronomy and Astrophysics, 2017, 601, A19.	5.1	77
20	<i>Gaia</i> Early Data Release 3. Astronomy and Astrophysics, 2021, 649, A8.	5.1	60
21	<i>Gaia</i> Early Data Release 3. Astronomy and Astrophysics, 2021, 649, A9.	5.1	55
22	<i>Gaia</i> Early Data Release 3. Astronomy and Astrophysics, 2021, 652, A76.	5.1	54
23	<i>Gaia</i> Early Data Release 3. Astronomy and Astrophysics, 2021, 649, A10.	5.1	50
24	<i>Gaia</i> Data Release 1. Astronomy and Astrophysics, 2017, 599, A32.	5.1	47
25	<i>Gaia</i> Early Data Release 3. Astronomy and Astrophysics, 2021, 649, A11.	5.1	32
26	LOFT: the Large Observatory For X-ray Timing. Proceedings of SPIE, 2012, , .	0.8	29
27	Faint objects in motion: the new frontier of high precision astrometry. Experimental Astronomy, 2021, 51, 845-886.	3.7	17
28	The Large Observatory for x-ray timing. Proceedings of SPIE, 2014, , .	0.8	10
29	FAPEC, a versatile and efficient data compressor for space missions. International Journal of Remote Sensing, 2018, 39, 2022-2042.	2.9	10
30	The LOFT mission concept: a status update. Proceedings of SPIE, 2016, , .	0.8	9
31	High-Performance Lossless Compression of Hyperspectral Remote Sensing Scenes Based on Spectral Decorrelation. Remote Sensing, 2020, 12, 2955.	4.0	9
32	Tailored data compression using stream partitioning and prediction: application to Gaia. Experimental Astronomy, 2007, 21, 125-149.	3.7	7
33	Quick outlier-resilient entropy coder for space missions. Journal of Applied Remote Sensing, 2010, 4, 041784.	1.3	7
34	<i>Gaia</i> Data Release 2. Astronomy and Astrophysics, 2020, 642, C1.	5.1	6
35	<title>A resilient and quick data compression method of prediction errors for space missions</title> , 2009, , .		4
36	Efficient data storage of astronomical data using HDF5 and PEC compression. , 2011, , .		4

#	ARTICLE	IF	CITATIONS
37	High-Performance Compression of Multibeam Echosounders Water Column Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 1771-1783.	4.9	4
38	Optimizing GPS data transmission using entropy coding compression. , 2010, , .		3
39	Discrete wavelet transform fully adaptive prediction error coder: image data compression based on CCSDS 122.0 and fully adaptive prediction error coder. Journal of Applied Remote Sensing, 2013, 7, 074592.	1.3	3
40	Compression of Multibeam Echosounders Bathymetry and Water Column Data. Remote Sensing, 2022, 14, 2063.	4.0	3
41	High-performance payload data handling system for Gaia. IEEE Transactions on Aerospace and Electronic Systems, 2006, 42, 421-435.	4.7	2
42	Image data compression with hierarchical pixel averaging and fully adaptive prediction error coder. Journal of Applied Remote Sensing, 2015, 9, 097493.	1.3	2
43	Data Management at Gaia Data Processing Centers. , 2012, , 107-115.		2
44	Outlier-Resilient Entropy Coding. , 2012, , 87-113.		2
45	Optimization of Time Data Codification and Transmission Schemes: Application to Gaia. Experimental Astronomy, 2003, 16, 189-212.	3.7	1
46	Simulating Gaia observations and on-ground reconstruction. Proceedings of the International Astronomical Union, 2007, 3, 278-279.	0.0	1
47	Simple resiliency improvement of the CCSDS standard for lossless data compression. , 2010, , .		1
48	Development of Optimum Lossless Compression Systems for Space Missions. , 2010, , .		1
49	The on-board data handling concept for the LOFT large area detector. Proceedings of SPIE, 2012, , .	0.8	1
50	Prediction Error Coder: a fast lossless compression method for satellite noisy data. Journal of Applied Remote Sensing, 2013, 7, 074593.	1.3	1
51	FAPEC-based lossless and lossy hyperspectral data compression. , 2015, , .		1
52	Assessing the Clock of Gaia: Design and Implementation of A Clock Framework Simulator. Experimental Astronomy, 2004, 18, 133-158.	3.7	0
53	Hardware and networks for Gaia data processing. EAS Publications Series, 2010, 45, 83-88.	0.3	0
54	FAPEC in an FPGA: a simple low-power solution for data compression in space. , 2011, , .		0

#	ARTICLE	IF	CITATIONS
55	Daily processing of Gaia data. EAS Publications Series, 2014, 67-68, 61-64.	0.3	0