FrÃ©dÃ©ric Arenou

List of Publications by Year
in descending order

Version: 2024-02-01

102 papers	21,714 citations	66343 42 h-index	58581 82 g-index
104 all docs	104 docs citations	104 times ranked	11435 citing authors

#	Article	IF	Citations
1	Stellar and substellar companions from Gaia EDR3. Astronomy and Astrophysics, 2022, 657, A7.	5.1	103
2	Gaia Early Data Release 3. Astronomy and Astrophysics, 2021, 649, A6.	5.1	175
3	GaiaEarly Data Release 3. Astronomy and Astrophysics, 2021, 649, A9.	5.1	55
4	GaiaEarly Data Release 3. Astronomy and Astrophysics, 2021, 649, A5.	5.1	246
5	GaiaEarly Data Release 3. Astronomy and Astrophysics, 2021, 649, A8.	5.1	60
6	Gaia Early Data Release 3. Astronomy and Astrophysics, 2021, 649, A7.	5.1	84
7	GaiaEarly Data Release 3. Astronomy and Astrophysics, 2021, 649, A1.	5.1	2,429
8	The Influence of Metallicity on the Leavitt Law from Geometrical Distances of Milky Way and Magellanic Cloud Cepheids. Astrophysical Journal, 2021, 913, 38.	4.5	34
9	Gaia EDR3 Proper Motions of Milky Way Dwarfs. I. 3D Motions and Orbits. Astrophysical Journal, 2021, 916, 8.	4.5	50
10	FEDReD. Astronomy and Astrophysics, 2021, 655, A68.	5.1	7
11	Gaia EDR3 Proper Motions of Milky Way Dwarfs. II Velocities, Total Energy, and Angular Momentum. Astrophysical Journal, 2021, 922, 93.	4.5	12
12	Masses of the components of SB2 binaries observed with Gaia â€“ V. Accurate SB2 orbits for 10 binaries and masses of the components of 5 binaries. Monthly Notices of the Royal Astronomical Society, 2020, 496, 1355-1368.	4.4	8
13	Orbital Evidences for Dark-matter-free Milky Way Dwarf Spheroidal Galaxies. Astrophysical Journal, 2020, 892, 3.	4.5	33
14	Gaia Data Release 2. Astronomy and Astrophysics, 2020, 637, C3.	5.1	4
15	Orbital inclination and mass of the exoplanet candidate Proxima c. Astronomy and Astrophysics, 2020, 635, L14.	5.1	34
16	FEDReD. Astronomy and Astrophysics, 2020, 641, A79.	5.1	15
17	The Milky Way Cepheid Leavitt law based on Gaia DR2 parallaxes of companion stars and host open cluster populations. Astronomy and Astrophysics, 2020, 643, A115.	5.1	48
18	Gaia Data Release 2. Astronomy and Astrophysics, 2020, 642, C1.	5.1	6

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19	FEDReD. Astronomy and Astrophysics, 2020, 641, A78.	5.1	8
20	Multiplicity of Galactic Cepheids and RR Lyrae stars from Gaia DR2. Astronomy and Astrophysics, 2019, 623, A116.	5.1	45
21	Multiplicity of Galactic Cepheids and RR Lyrae stars from Gaia DR2. Astronomy and Astrophysics, 2019, 623, A117.	5.1	34
22	New light on the Gaia DR2 parallax zero-point: influence of the asteroseismic approach, in and beyond the Kepler field. Astronomy and Astrophysics, 2019, 628, A35.	5.1	50
23	On the Absence of Dark Matter in Dwarf Galaxies Surrounding the Milky Way. Astrophysical Journal, 2019, 883, 171.	4.5	18
24	Stellar and substellar companions of nearby stars from Gaia DR2. Astronomy and Astrophysics, 2019, 623, A72.	5.1	260
25	Gaia-2MASS 3D maps of Galactic interstellar dust within 3 kpc. Astronomy and Astrophysics, 2019, 625, A135.	5.1	240
26	GaiaData Release 2. Astronomy and Astrophysics, 2019, 623, A110.	5.1	101
27	Gaia Data Release 2. Astronomy and Astrophysics, 2019, 622, A205.	5.1	164
28	Masses of the components of SB2 binaries observed with Gaia â€“ IV. Accurate SB2 orbits for 14 binaries and masses of three binaries*. Monthly Notices of the Royal Astronomical Society, 2018, 474, 731-745.	4.4	15
29	Gaia Data Release 2. Astronomy and Astrophysics, 2018, 616, A17.	5.1	495
30	GaiaData Release 2. Astronomy and Astrophysics, 2018, 616, A11.	5.1	323
31	Empirical photometric calibration of the Gaia red clump: Colours, effective temperature, and absolute magnitude. Astronomy and Astrophysics, 2018, 609, A116.	5.1	66
32	GaiaData Release 2. Astronomy and Astrophysics, 2018, 616, A9.	5.1	564
33	Three-dimensional maps of interstellar dust in the Local Arm: using Gaia, 2MASS, and APOGEE-DR14. Astronomy and Astrophysics, 2018, 616, A132.	5.1	144
34	GaiaData Release 2. Astronomy and Astrophysics, 2018, 616, A13.	5.1	78
35	Gaia Data Release 2. Astronomy and Astrophysics, 2018, 616, A14.	5.1	140
36	GaiaData Release 2. Astronomy and Astrophysics, 2018, 616, A5.	5.1	149

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37	The empirical Gaia G-band extinction coefficient. Astronomy and Astrophysics, 2018, 614, A19.	5.1	44
38	Gaia Data Release 2. Astronomy and Astrophysics, 2018, 616, A10.	5.1	638
39	Gaia Data Release 2. Astronomy and Astrophysics, 2018, 616, A6.	5.1	106
40	Gaia Data Release 2. Astronomy and Astrophysics, 2018, 616, A1.	5.1	6,364
41	Gaia Data Release 2. Astronomy and Astrophysics, 2018, 616, E1.	5.1	39
42	Galactic Forces Rule the Dynamics of Milky Way Dwarf Galaxies. Astrophysical Journal, 2018, 860, 76.	4.5	21
43	GaiaData Release 2. Astronomy and Astrophysics, 2018, 616, A12.	5.1	491
44	Gaia Confirms that SDSSâ€‰J102915+172927 is a Dwarf Star. Research Notes of the AAS, 2018, 2, 19.	0.7	2
45	Gaia Data Release 1. Astronomy and Astrophysics, 2017, 605, A52.	5.1	5
46	GaiaData Release 1. Astronomy and Astrophysics, 2017, 599, A50.	5.1	84
47	Calibration and characterisation of the Gaia Red Clump. Proceedings of the International Astronomical Union, 2017, 12, 313-316.	0.0	0
48	Gaia Data Release 1. Astronomy and Astrophysics, 2017, 605, A79.	5.1	78
49	Gaia Data Release 1. Astronomy and Astrophysics, 2017, 601, A19.	5.1	77
50	TheGaiamission. Astronomy and Astrophysics, 2016, 595, A1.	5.1	4,509
51	GaiaData Release 1. Astronomy and Astrophysics, 2016, 595, A2.	5.1	1,590
52	Masses of the components of SB2s observed withGaiaâ€“ II. Masses derived from PIONIER interferometric observations forGaiavalidation. Monthly Notices of the Royal Astronomical Society, 2016, 455, 3303-3311.	4.4	12
53	Masses of the components of SB2 binaries observed withGaiaâ€“ III. Accurate SB2 orbits for 10 binaries and masses of HIPÂ87895. Monthly Notices of the Royal Astronomical Society, 2016, 458, 3272-3281.	4.4	11
54	DIVISION G COMMISSION 26: DOUBLE & MULTIPLE STARS. Proceedings of the International Astronomical Union, 2015, 11, 388-412.	0.0	0

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55	TheGaia-ESO Survey: Extracting diffuse interstellar bands from cool star spectra. Astronomy and Astrophysics, 2015, 573, A35.	5.1	39
56	An updated maximum likelihood approach to open cluster distance determination. Astronomy and Astrophysics, 2014, 564, A49.	5.1	12
57	Overview and stellar statistics of the expectedGaiaCatalogue using theGaiaObject Generator. Astronomy and Astrophysics, 2014, 566, A119.	5.1	39
58	Astrostatistics for luminosity calibration in the Gaia era. EAS Publications Series, 2014, 67-68, 271-274.	0.3	0
59	Masses of the components of SB2 binaries observed with Gaia â€“ I. Selection of the sample and mass ratios of 20 new SB2s discovered with Sophieâ˜…. Monthly Notices of the Royal Astronomical Society, 2014, 445, 2371-2377.	4.4	11
60	Metallicity and kinematics of the bar in situ. Astronomy and Astrophysics, 2014, 563, A15.	5.1	41
61	Characterisation of the Gaia Red Clump. EAS Publications Series, 2014, 67-68, 395-396.	0.3	0
62	Ground-based exploration of the outer Solar system by serendipitous stellar occultationsâ˜…. Monthly Notices of the Royal Astronomical Society, 2013, 428, 2661-2667.	4.4	4
63	Binaries and distances. Proceedings of the International Astronomical Union, 2012, 8, 70-73.	0.0	0
64	High precision astrometry mission for the detection and characterization of nearby habitable planetary systems with the Nearby Earth Astrometric Telescope (NEAT). Experimental Astronomy, 2012, 34, 385-413.	3.7	73
65	GaiaUniverse model snapshot. Astronomy and Astrophysics, 2012, 543, A100.	5.1	159
66	SPADES: a stellar parameters determination software. Astronomy and Astrophysics, 2012, 544, A154.	5.1	8
67	The metallicity distribution of bulge clump giants in Baadeâ€™s window. Astronomy and Astrophysics, 2011, 534, A80.	5.1	169
68	COMMISSION 26: DOUBLE AND MULTIPLE STARS. Proceedings of the International Astronomical Union, 2011, 7, 150-156.	0.0	0
69	Simulating multiple stars in preparation for Gaia. , 2011, , .		1
70	Science with GYES: a multifibre high-resolution spectrograph for the prime focus of the Canada-France-Hawaii Telescope. , 2010, , .		1
71	Insights on the Milky Way bulge formation from the correlations between kinematics and metallicity. Astronomy and Astrophysics, 2010, 519, A77.	5.1	155
72	GYES, A Multifibre Spectrograph for the CFHT. EAS Publications Series, 2010, 45, 219-222.	0.3	1

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73	The Hipparcos Catalogue: 10th anniversary and its legacy. Proceedings of the International Astronomical Union, 2007, 3, 1-7.	0.0	0
74	CHAPTER I: TWENTY SIXTH GENERAL ASSEMBLY INAUGURAL CEREMONY. Proceedings of the International Astronomical Union, 2007, 3, 1-12.	0.0	0
75	Spectroscopic survey of the Galaxy withGaia- II. The expected science yield from the Radial Velocity Spectrometer. Monthly Notices of the Royal Astronomical Society, 2005, 359, 1306-1335.	4.4	81
76	ELODIE low-mass companions to solar-type stars. Symposium - International Astronomical Union, 2004, 202, 96-98.	0.1	1
77	Planetary mass limits using Hipparcos astrometry. Symposium - International Astronomical Union, 2004, 202, 60-62.	0.1	1
78	Statistical Properties of Solar-Type Close Binaries. International Astronomical Union Colloquium, 2004, 191, 20-27.	0.1	0
79	Spectroscopic survey of the Galaxy with Gaia- I. Design and performance of the Radial Velocity Spectrometer. Monthly Notices of the Royal Astronomical Society, 2004, 354, 1223-1238.	4.4	75
80	Multiplicity among solarâ€“type stars. Astronomy and Astrophysics, 2003, 397, 159-175.	5.1	196
81	Statistical Effects from Hipparcos Astrometry. Highlights of Astronomy, 2002, 12, 661-664.	0.0	3
82	Astrometric and Light-Travel Time Orbits to Detect Low-Mass Companions: A Case Study of the Eclipsing System R Canis Majoris. Astronomical Journal, 2002, 123, 2033-2041.	4.7	27
83	Convective core mixing: A metallicity dependence?. Astronomy and Astrophysics, 2002, 392, 169-180.	5.1	15
84	Duplicity and Masses. EAS Publications Series, 2002, 2, 155-161.	0.3	2
85	Binaries at the Bottom of the Main Sequence and below. Symposium - International Astronomical Union, 2001, 200, 45-54.	0.1	10
86	Screening the Hipparcos-based astrometric orbits of sub-stellar objects. Astronomy and Astrophysics, 2001, 372, 935-944.	5.1	47
87	Astrometric demonstrator in optical interferometry with the test siderostats at Paranal. , 2000, , .		0
88	Sequences of Nearby Open Clusters with Hipparcos. Astrophysics and Space Science, 1999, 265, 279-280.	1.4	4
89	Sequences of Nearby Open Clusters with Hipparcos. , 1999, , 279-280.		1
90	Radial velocities. Astronomy and Astrophysics, 1999, 137, 451-456.	2.1	104

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91	On derivation of masses of the SB2 components with Gaia astrometry. Open Astronomy, 1999, 8, .	0.6	0
92	Evidence of a Low-Mass Companion to AB Doradus. International Astronomical Union Colloquium, 1998, 164, 325-326.	0.1	0
93	Some Considerations in Making Full Use of The Hipparcos Catalogue. Highlights of Astronomy, 1998, 11, 547-548.	0.0	0
94	Binaries in Acceleration and Stochastic Hipparcos Solutions. Highlights of Astronomy, 1998, 11, 549-549.	0.0	0
95	Nearby Open Clusters and HR Diagram Calibration. Highlights of Astronomy, 1998, 11, 579-579.	0.0	4
96	Astrometric Detection of a Lowâ€Mass Companion Orbiting the Star AB Doradus. Astrophysical Journal, 1997, 490, 835-839.	4.5	57
97	Stochastic Solutions for the Hipparcos Astrometric Data Merging. , 1997, , 455-456.		0
98	The server of the observatoire de Paris-Meudon-NanÃ§ay. New Astronomy Reviews, 1995, 39, 97.	0.3	0
99	Comparing Parametric and Nonparametric Statistical Methods for Studying the Velocity Distributions of Population I Stars. , 1993, , 265-269.		0
100	The Hipparcos Observing Programme. Performances of the Input Catalogue. Highlights of Astronomy, 1992, 9, 388-388.	0.0	0
101	The Printed Version of the Hipparcos Input Catalogue. Highlights of Astronomy, 1992, 9, 397-397.	0.0	0
102	The HIPPARCOS INCA Database. Astrophysics and Space Science Library, 1991, , 67-78.	2.7	2