

Frédéric Arenou

List of Publications by Year in descending order

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102
papers

21,714
citations

66343

42
h-index

58581

82
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104
all docs

104
docs citations

104
times ranked

11435
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, A10.	5.1	638
6	<i>Gaia</i> Data Release 2. Astronomy and Astrophysics, 2018, 616, A9.	5.1	564
7	<i>Gaia</i> Data Release 2. Astronomy and Astrophysics, 2018, 616, A17.	5.1	495
8	<i>Gaia</i> Data Release 2. Astronomy and Astrophysics, 2018, 616, A12.	5.1	491
9	<i>Gaia</i> Data Release 2. Astronomy and Astrophysics, 2018, 616, A11.	5.1	323
10	Stellar and substellar companions of nearby stars from <i>Gaia</i> DR2. Astronomy and Astrophysics, 2019, 623, A72.	5.1	260
11	<i>Gaia</i> Early Data Release 3. Astronomy and Astrophysics, 2021, 649, A5.	5.1	246
12	<i>Gaia</i>-2MASS 3D maps of Galactic interstellar dust within 3 kpc. Astronomy and Astrophysics, 2019, 625, A135.	5.1	240
13	Multiplicity among solar-type stars. Astronomy and Astrophysics, 2003, 397, 159-175.	5.1	196
14	<i>Gaia</i> Early Data Release 3. Astronomy and Astrophysics, 2021, 649, A6.	5.1	175
15	The metallicity distribution of bulge clump giants in Baade's window. Astronomy and Astrophysics, 2011, 534, A80.	5.1	169
16	<i>Gaia</i> Data Release 2. Astronomy and Astrophysics, 2019, 622, A205.	5.1	164
17	<i>Gaia</i> Universe model snapshot. Astronomy and Astrophysics, 2012, 543, A100.	5.1	159
18	Insights on the Milky Way bulge formation from the correlations between kinematics and metallicity. Astronomy and Astrophysics, 2010, 519, A77.	5.1	155

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19	<i>Gaia</i> Data Release 2. <i>Astronomy and Astrophysics</i> , 2018, 616, A5.	5.1	149
20	Three-dimensional maps of interstellar dust in the Local Arm: using <i>Gaia</i> , 2MASS, and APOGEE-DR14. <i>Astronomy and Astrophysics</i> , 2018, 616, A132.	5.1	144
21	<i>Gaia</i> Data Release 2. <i>Astronomy and Astrophysics</i> , 2018, 616, A14.	5.1	140
22	<i>Gaia</i> Data Release 2. <i>Astronomy and Astrophysics</i> , 2018, 616, A6.	5.1	106
23	Radial velocities. <i>Astronomy and Astrophysics</i> , 1999, 137, 451-456.	2.1	104
24	Stellar and substellar companions from <i>Gaia</i> EDR3. <i>Astronomy and Astrophysics</i> , 2022, 657, A7.	5.1	103
25	<i>Gaia</i> Data Release 2. <i>Astronomy and Astrophysics</i> , 2019, 623, A110.	5.1	101
26	<i>Gaia</i> Data Release 1. <i>Astronomy and Astrophysics</i> , 2017, 599, A50.	5.1	84
27	<i>Gaia</i> Early Data Release 3. <i>Astronomy and Astrophysics</i> , 2021, 649, A7.	5.1	84
28	Spectroscopic survey of the Galaxy with <i>Gaia</i> - II. The expected science yield from the Radial Velocity Spectrometer. <i>Monthly Notices of the Royal Astronomical Society</i> , 2005, 359, 1306-1335.	4.4	81
29	<i>Gaia</i> Data Release 2. <i>Astronomy and Astrophysics</i> , 2018, 616, A13.	5.1	78
30	<i>Gaia</i> Data Release 1. <i>Astronomy and Astrophysics</i> , 2017, 605, A79.	5.1	78
31	<i>Gaia</i> Data Release 1. <i>Astronomy and Astrophysics</i> , 2017, 601, A19.	5.1	77
32	Spectroscopic survey of the Galaxy with <i>Gaia</i> - I. Design and performance of the Radial Velocity Spectrometer. <i>Monthly Notices of the Royal Astronomical Society</i> , 2004, 354, 1223-1238.	4.4	75
33	High precision astrometry mission for the detection and characterization of nearby habitable planetary systems with the Nearby Earth Astrometric Telescope (NEAT). <i>Experimental Astronomy</i> , 2012, 34, 385-413.	3.7	73
34	Empirical photometric calibration of the <i>Gaia</i> red clump: Colours, effective temperature, and absolute magnitude. <i>Astronomy and Astrophysics</i> , 2018, 609, A116.	5.1	66
35	<i>Gaia</i> Early Data Release 3. <i>Astronomy and Astrophysics</i> , 2021, 649, A8.	5.1	60
36	Astrometric Detection of a Low-Mass Companion Orbiting the Star AB Doradus. <i>Astrophysical Journal</i> , 1997, 490, 835-839.	4.5	57

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37	<i>Gaia</i> Early Data Release 3. <i>Astronomy and Astrophysics</i> , 2021, 649, A9.	5.1	55
38	New light on the <i>Gaia</i> DR2 parallax zero-point: influence of the asteroseismic approach, in and beyond the <i>Kepler</i> field. <i>Astronomy and Astrophysics</i> , 2019, 628, A35.	5.1	50
39	<i>Gaia</i> EDR3 Proper Motions of Milky Way Dwarfs. I. 3D Motions and Orbits. <i>Astrophysical Journal</i> , 2021, 916, 8.	4.5	50
40	The Milky Way Cepheid Leavitt law based on <i>Gaia</i> DR2 parallaxes of companion stars and host open cluster populations. <i>Astronomy and Astrophysics</i> , 2020, 643, A115.	5.1	48
41	Screening the Hipparcos-based astrometric orbits of sub-stellar objects. <i>Astronomy and Astrophysics</i> , 2001, 372, 935-944.	5.1	47
42	Multiplicity of Galactic Cepheids and RR Lyrae stars from <i>Gaia</i> DR2. <i>Astronomy and Astrophysics</i> , 2019, 623, A116.	5.1	45
43	The empirical <i>Gaia</i> G-band extinction coefficient. <i>Astronomy and Astrophysics</i> , 2018, 614, A19.	5.1	44
44	Metallicity and kinematics of the bar in situ. <i>Astronomy and Astrophysics</i> , 2014, 563, A15.	5.1	41
45	Overview and stellar statistics of the expected <i>Gaia</i> Catalogue using the <i>Gaia</i> Object Generator. <i>Astronomy and Astrophysics</i> , 2014, 566, A119.	5.1	39
46	The <i>Gaia</i> -ESO Survey: Extracting diffuse interstellar bands from cool star spectra. <i>Astronomy and Astrophysics</i> , 2015, 573, A35.	5.1	39
47	<i>Gaia</i> Data Release 2. <i>Astronomy and Astrophysics</i> , 2018, 616, E1.	5.1	39
48	Multiplicity of Galactic Cepheids and RR Lyrae stars from <i>Gaia</i> DR2. <i>Astronomy and Astrophysics</i> , 2019, 623, A117.	5.1	34
49	The Influence of Metallicity on the Leavitt Law from Geometrical Distances of Milky Way and Magellanic Cloud Cepheids. <i>Astrophysical Journal</i> , 2021, 913, 38.	4.5	34
50	Orbital inclination and mass of the exoplanet candidate Proxima c. <i>Astronomy and Astrophysics</i> , 2020, 635, L14.	5.1	34
51	Orbital Evidences for Dark-matter-free Milky Way Dwarf Spheroidal Galaxies. <i>Astrophysical Journal</i> , 2020, 892, 3.	4.5	33
52	Astrometric and Light-Travel Time Orbits to Detect Low-Mass Companions: A Case Study of the Eclipsing System R Canis Majoris. <i>Astronomical Journal</i> , 2002, 123, 2033-2041.	4.7	27
53	Galactic Forces Rule the Dynamics of Milky Way Dwarf Galaxies. <i>Astrophysical Journal</i> , 2018, 860, 76.	4.5	21
54	On the Absence of Dark Matter in Dwarf Galaxies Surrounding the Milky Way. <i>Astrophysical Journal</i> , 2019, 883, 171.	4.5	18

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55	Convective core mixing: A metallicity dependence?. <i>Astronomy and Astrophysics</i> , 2002, 392, 169-180.	5.1	15
56	Masses of the components of SB2 binaries observed with Gaia â€“ IV. Accurate SB2 orbits for 14 binaries and masses of three binaries*. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 474, 731-745.	4.4	15
57	FEDReD. <i>Astronomy and Astrophysics</i> , 2020, 641, A79.	5.1	15
58	An updated maximum likelihood approach to open cluster distance determination. <i>Astronomy and Astrophysics</i> , 2014, 564, A49.	5.1	12
59	Masses of the components of SB2s observed with Gaia â€“ II. Masses derived from PIONIER interferometric observations for Gaia validation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 455, 3303-3311.	4.4	12
60	Gaia EDR3 Proper Motions of Milky Way Dwarfs. II Velocities, Total Energy, and Angular Momentum. <i>Astrophysical Journal</i> , 2021, 922, 93.	4.5	12
61	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€“.... <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 445, 2371-2377.	4.4	11
62	Masses of the components of SB2 binaries observed with Gaia â€“ III. Accurate SB2 orbits for 10 binaries and masses of HIPâ€“87895. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 458, 3272-3281.	4.4	11
63	Binaries at the Bottom of the Main Sequence and below. <i>Symposium - International Astronomical Union</i> , 2001, 200, 45-54.	0.1	10
64	SPADES: a stellar parameters determination software. <i>Astronomy and Astrophysics</i> , 2012, 544, A154.	5.1	8
65	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. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 496, 1355-1368.	4.4	8
66	FEDReD. <i>Astronomy and Astrophysics</i> , 2020, 641, A78.	5.1	8
67	FEDReD. <i>Astronomy and Astrophysics</i> , 2021, 655, A68.	5.1	7
68	Gaia Data Release 2. <i>Astronomy and Astrophysics</i> , 2020, 642, C1.	5.1	6
69	Gaia Data Release 1. <i>Astronomy and Astrophysics</i> , 2017, 605, A52.	5.1	5
70	Sequences of Nearby Open Clusters with Hipparcos. <i>Astrophysics and Space Science</i> , 1999, 265, 279-280.	1.4	4
71	Ground-based exploration of the outer Solar system by serendipitous stellar occultationsâ€“.... <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 428, 2661-2667.	4.4	4
72	Gaia Data Release 2. <i>Astronomy and Astrophysics</i> , 2020, 637, C3.	5.1	4

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73	Nearby Open Clusters and HR Diagram Calibration. Highlights of Astronomy, 1998, 11, 579-579.	0.0	4
74	Statistical Effects from Hipparcos Astrometry. Highlights of Astronomy, 2002, 12, 661-664.	0.0	3
75	Duplicity and Masses. EAS Publications Series, 2002, 2, 155-161.	0.3	2
76	Gaia Confirms that SDSS J102915+172927 is a Dwarf Star. Research Notes of the AAS, 2018, 2, 19.	0.7	2
77	The HIPPARCOS INCA Database. Astrophysics and Space Science Library, 1991, , 67-78.	2.7	2
78	ELODIE low-mass companions to solar-type stars. Symposium - International Astronomical Union, 2004, 202, 96-98.	0.1	1
79	Planetary mass limits using Hipparcos astrometry. Symposium - International Astronomical Union, 2004, 202, 60-62.	0.1	1
80	Science with GYES: a multifibre high-resolution spectrograph for the prime focus of the Canada-France-Hawaii Telescope. , 2010, , .		1
81	GYES, A Multifibre Spectrograph for the CFHT. EAS Publications Series, 2010, 45, 219-222.	0.3	1
82	Simulating multiple stars in preparation for Gaia. , 2011, , .		1
83	Sequences of Nearby Open Clusters with Hipparcos. , 1999, , 279-280.		1
84	The Hipparcos Observing Programme. Performances of the Input Catalogue. Highlights of Astronomy, 1992, 9, 388-388.	0.0	0
85	The Printed Version of the Hipparcos Input Catalogue. Highlights of Astronomy, 1992, 9, 397-397.	0.0	0
86	The server of the observatoire de Paris-Meudon-Nançay. New Astronomy Reviews, 1995, 39, 97.	0.3	0
87	Evidence of a Low-Mass Companion to AB Doradus. International Astronomical Union Colloquium, 1998, 164, 325-326.	0.1	0
88	Astrometric demonstrator in optical interferometry with the test siderostats at Paranal. , 2000, , .		0
89	Statistical Properties of Solar-Type Close Binaries. International Astronomical Union Colloquium, 2004, 191, 20-27.	0.1	0
90	The Hipparcos Catalogue: 10th anniversary and its legacy. Proceedings of the International Astronomical Union, 2007, 3, 1-7.	0.0	0

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91	CHAPTER I: TWENTY SIXTH GENERAL ASSEMBLY INAUGURAL CEREMONY. Proceedings of the International Astronomical Union, 2007, 3, 1-12.	0.0	0
92	COMMISSION 26: DOUBLE AND MULTIPLE STARS. Proceedings of the International Astronomical Union, 2011, 7, 150-156.	0.0	0
93	Binaries and distances. Proceedings of the International Astronomical Union, 2012, 8, 70-73.	0.0	0
94	Astrostatistics for luminosity calibration in the Gaia era. EAS Publications Series, 2014, 67-68, 271-274.	0.3	0
95	DIVISION G COMMISSION 26: DOUBLE & MULTIPLE STARS. Proceedings of the International Astronomical Union, 2015, 11, 388-412.	0.0	0
96	Calibration and characterisation of the Gaia Red Clump. Proceedings of the International Astronomical Union, 2017, 12, 313-316.	0.0	0
97	Characterisation of the Gaia Red Clump. EAS Publications Series, 2014, 67-68, 395-396.	0.3	0
98	Comparing Parametric and Nonparametric Statistical Methods for Studying the Velocity Distributions of Population I Stars. , 1993, , 265-269.		0
99	Stochastic Solutions for the Hipparcos Astrometric Data Merging. , 1997, , 455-456.		0
100	Some Considerations in Making Full Use of The Hipparcos Catalogue. Highlights of Astronomy, 1998, 11, 547-548.	0.0	0
101	Binaries in Acceleration and Stochastic Hipparcos Solutions. Highlights of Astronomy, 1998, 11, 549-549.	0.0	0
102	On derivation of masses of the SB2 components with Gaia astrometry. Open Astronomy, 1999, 8, .	0.6	0