

Antonio Claret

List of Publications by Year in descending order

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137
papers

5,942
citations

94269

37
h-index

79541

73
g-index

137
all docs

137
docs citations

137
times ranked

3526
citing authors

#	ARTICLE	IF	CITATIONS
1	Gravity and limb-darkening coefficients for the <i>Kepler</i> , <i>CoRoT</i> , <i>Spitzer</i> , <i>uvby</i> , <i>UBVRJHK</i> , and Sloan photometric systems. <i>Astronomy and Astrophysics</i> , 2011, 529, A75.	2.1	855
2	A new non-linear limb-darkening law for LTE stellar atmosphere models III. <i>Astronomy and Astrophysics</i> , 2004, 428, 1001-1005.	2.1	374
3	New grids of stellar models including tidal-evolution constants up to carbon burning. <i>Astronomy and Astrophysics</i> , 2004, 424, 919-925.	2.1	262
4	CAPELLA (ϵ AURIGAE) REVISITED: NEW BINARY ORBIT, PHYSICAL PROPERTIES, AND EVOLUTIONARY STATE. <i>Astrophysical Journal</i> , 2015, 807, 26.	1.6	223
5	Limb and gravity-darkening coefficients for the TESS satellite at several metallicities, surface gravities, and microturbulent velocities. <i>Astronomy and Astrophysics</i> , 2017, 600, A30.	2.1	203
6	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2018, 612, A49.	2.1	173
7	New limb-darkening coefficients for PHOENIX/1D model atmospheres. <i>Astronomy and Astrophysics</i> , 2012, 546, A14.	2.1	171
8	The Rossiter-McLaughlin effect of <i>CoRoT</i> -3b and HD 189733b. <i>Astronomy and Astrophysics</i> , 2009, 506, 377-384.	2.1	139
9	New limb-darkening coefficients for Phoenix/1d model atmospheres. <i>Astronomy and Astrophysics</i> , 2013, 552, A16.	2.1	138
10	CARMENES instrument overview. <i>Proceedings of SPIE</i> , 2014, , .	0.8	132
11	Detection of titanium oxide in the atmosphere of a hot Jupiter. <i>Nature</i> , 2017, 549, 238-241.	13.7	129
12	Absolute dimensions of detached eclipsing binaries -- I. The metallic-lined system WW Aurigae. <i>Monthly Notices of the Royal Astronomical Society</i> , 2005, 363, 529-542.	1.6	119
13	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2018, 609, A117.	2.1	103
14	Comprehensive tables for the interpretation and modeling of the light curves of eclipsing binaries. <i>Astronomy and Astrophysics</i> , 1998, 131, 395-400.	2.1	102
15	Does convective core overshooting depend on stellar mass?. <i>Astronomy and Astrophysics</i> , 2007, 475, 1019-1025.	2.1	95
16	A new method to compute limb-darkening coefficients for stellar atmosphere models with spherical symmetry: the space missions TESS, Kepler, CoRoT, and MOST. <i>Astronomy and Astrophysics</i> , 2018, 618, A20.	2.1	95
17	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2019, 627, A49.	2.1	95
18	The dependence of convective core overshooting on stellar mass. <i>Astronomy and Astrophysics</i> , 2016, 592, A15.	2.1	83

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19	Fundamental Properties and Distances of Large Magellanic Cloud Eclipsing Binaries. IV. HV 5936. <i>Astrophysical Journal</i> , 2003, 587, 685-700.	1.6	80
20	The Dependence of Convective Core Overshooting on Stellar Mass: A Semi-empirical Determination Using the Diffusive Approach with Two Different Element Mixtures. <i>Astrophysical Journal</i> , 2017, 849, 18.	1.6	79
21	The limb-darkening for spherically symmetric NextGen model atmospheres: A ⁺ G main-sequence and sub-giant stars. <i>Astronomy and Astrophysics</i> , 2003, 412, 241-248.	2.1	78
22	A giant exoplanet orbiting a very-low-mass star challenges planet formation models. <i>Science</i> , 2019, 365, 1441-1445.	6.0	78
23	The Dependence of Convective Core Overshooting on Stellar Mass: Additional Binary Systems and Improved Calibration. <i>Astrophysical Journal</i> , 2018, 859, 100.	1.6	69
24	Probing the stellar surface of HD 209458 from multicolor transit observations. <i>New Astronomy</i> , 2001, 6, 51-60.	0.8	67
25	The Dependence of Convective Core Overshooting on Stellar Mass: Reality Check and Additional Evidence. <i>Astrophysical Journal</i> , 2019, 876, 134.	1.6	60
26	CARMENES: an overview six months after first light. <i>Proceedings of SPIE</i> , 2016, , .	0.8	59
27	Absolute dimensions of solar-type eclipsing binaries. <i>Astronomy and Astrophysics</i> , 2009, 502, 253-265.	2.1	56
28	New results on the apsidal-motion test to stellar structure and evolution including the effects of dynamic tides. <i>Astronomy and Astrophysics</i> , 2002, 388, 518-530.	2.1	53
29	CARMENES: Calar Alto high-resolution search for M dwarfs with exo-earths with a near-infrared Echelle spectrograph. <i>Proceedings of SPIE</i> , 2010, , .	0.8	47
30	The apsidal-motion test of stellar structure and evolution: an update. <i>Astronomy and Astrophysics</i> , 2010, 519, A57.	2.1	46
31	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2018, 609, L5.	2.1	46
32	The ExoTETHyS Package: Tools for Exoplanetary Transits around Host Stars. <i>Astronomical Journal</i> , 2020, 159, 75.	1.9	45
33	CARMENES. I: instrument and survey overview. <i>Proceedings of SPIE</i> , 2012, , .	0.8	43
34	Orbital Decay in a 20 Minute Orbital Period Detached Binary with a Hydrogen-poor Low-mass White Dwarf. <i>Astrophysical Journal Letters</i> , 2019, 886, L12.	3.0	42
35	New grids of stellar models including tidal-evolution constants up to carbon burning. <i>Astronomy and Astrophysics</i> , 2007, 467, 1389-1396.	2.1	40
36	Does the HD 209458 planetary system pose a challenge to the stellar atmosphere models?. <i>Astronomy and Astrophysics</i> , 2009, 506, 1335-1340.	2.1	39

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37	BINARY ORBIT, PHYSICAL PROPERTIES, AND EVOLUTIONARY STATE OF CAPELLA (ϵ AURIGAE). <i>Astrophysical Journal</i> , 2009, 700, 1349-1381.	1.6	38
38	Probing the atmosphere of a solar-like star by galactic microlensing at high magnification. <i>Astronomy and Astrophysics</i> , 2003, 411, L493-L496.	2.1	37
39	CARMENES: high-resolution spectra and precise radial velocities in the red and infrared. , 2018, , .		37
40	Absolute Properties of the Eclipsing Binary Star RW Lacertae. <i>Astronomical Journal</i> , 2005, 130, 2838-2846.	1.9	36
41	New grids of stellar models including tidal-evolution constants up to carbon burning. <i>Astronomy and Astrophysics</i> , 2006, 453, 769-771.	2.1	36
42	A new non-linear limb-darkening law for LTE stellar atmosphere models II. <i>Astronomy and Astrophysics</i> , 2003, 401, 657-660.	2.1	34
43	Testing the limb-darkening coefficients measured from eclipsing binaries. <i>Astronomy and Astrophysics</i> , 2008, 482, 259-266.	2.1	33
44	Gravity and limb-darkening coefficients for compact stars: DA, DB, and DBA eclipsing white dwarfs. <i>Astronomy and Astrophysics</i> , 2020, 634, A93.	2.1	32
45	Absolute Dimensions of the Unevolved B-Type Eclipsing Binary GG Orionis. <i>Astronomical Journal</i> , 2000, 120, 3226-3243.	1.9	32
46	The EChO science case. <i>Experimental Astronomy</i> , 2015, 40, 329-391.	1.6	31
47	Early Pleistocene <i>hominid remains</i> from southern Spain and the taxonomic assignment of the Cueva Victoria phalanx. <i>Journal of Human Evolution</i> , 2005, 48, 517-523.	1.3	30
48	New grids of stellar models including tidal-evolution constants up to carbon burning. <i>Astronomy and Astrophysics</i> , 2005, 440, 647-651.	2.1	30
49	ABSOLUTE PROPERTIES OF THE ECLIPSING BINARY SYSTEM AQ SERPENTIS: A STRINGENT TEST OF CONVECTIVE CORE OVERSHOOTING IN STELLAR EVOLUTION MODELS. <i>Astronomical Journal</i> , 2014, 147, 36.	1.9	29
50	Transmission spectroscopy of the inflated exo-Saturn HAT-P-19b. <i>Astronomy and Astrophysics</i> , 2015, 580, A60.	2.1	29
51	Absolute Properties of the Main-Sequence Eclipsing Binary Star WW Camelopardalis. <i>Astronomical Journal</i> , 2002, 123, 1013-1022.	1.9	29
52	ABSOLUTE PROPERTIES OF THE MAIN-SEQUENCE ECLIPSING BINARY STAR GX GEMINORUM: CONSTRAINTS ON CONVECTIVE CORE OVERSHOOTING. <i>Astronomical Journal</i> , 2008, 135, 1757-1765.	1.9	27
53	On the deviations of the classical von Zeipel's theorem at the upper layers of rotating stars. <i>Astronomy and Astrophysics</i> , 2012, 538, A3.	2.1	27
54	Updating the theoretical tidal evolution constants: Apsidal motion and the moment of inertia. <i>Astronomy and Astrophysics</i> , 2019, 628, A29.	2.1	26

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55	The evolution of the theoretical bolometric albedo in close binary systems. <i>Monthly Notices of the Royal Astronomical Society</i> , 2001, 327, 989-994.	1.6	25
56	Stellar models for a wide range of initial chemical compositions until helium burning. <i>Astronomy and Astrophysics</i> , 1998, 133, 123-127.	2.1	25
57	Relativistic apsidal motion in eccentric eclipsing binaries. <i>Astronomy and Astrophysics</i> , 2010, 509, A18.	2.1	23
58	DIÂHerculis as a test of internal stellar structure and general relativity. <i>Astronomy and Astrophysics</i> , 2010, 515, A4.	2.1	22
59	Physical Orbit for Î» Virginis and a Test of Stellar Evolution Models. <i>Astrophysical Journal</i> , 2007, 659, 626-641.	1.6	21
60	A STRICT TEST OF STELLAR EVOLUTION MODELS: THE ABSOLUTE DIMENSIONS OF THE MASSIVE BENCHMARK ECLIPSING BINARY V578 MON. <i>Astronomical Journal</i> , 2014, 148, 39.	1.9	20
61	Absolute dimensions of eclipsing binaries. <i>Astronomy and Astrophysics</i> , 2007, 469, 285-296.	2.1	20
62	Stellar models for a wide range of initial chemical compositions until helium burning. <i>Astronomy and Astrophysics</i> , 1997, 125, 439-443.	2.1	20
63	Absolute Dimensions of the A-Type Eclipsing Binary V364 Lacertae. <i>Astronomical Journal</i> , 1999, 118, 1831-1844.	1.9	20
64	CCD photometric search for peculiar stars in open clusters. <i>Astronomy and Astrophysics</i> , 2007, 462, 591-597.	2.1	19
65	Absolute dimensions of solar-type eclipsing binaries. <i>Astronomy and Astrophysics</i> , 2012, 540, A64.	2.1	19
66	Analysis of apsidal motion in eclipsing binaries using TESS data. <i>Astronomy and Astrophysics</i> , 2021, 654, A17.	2.1	19
67	Studies on stellar rotation. <i>Astronomy and Astrophysics</i> , 2003, 406, 623-628.	2.1	19
68	Absolute Properties of the Eclipsing Binary Star FS Monocerotis. <i>Astronomical Journal</i> , 2000, 119, 1389-1397.	1.9	18
69	Absolute Properties of the Eclipsing Binary Star V459 Cassiopeiae. <i>Astronomical Journal</i> , 2004, 128, 1340-1347.	1.9	18
70	Preparing the COROT space mission: Incidence and characterisation of pulsation in the lower instability strip. <i>Astronomy and Astrophysics</i> , 2003, 406, 203-211.	2.1	17
71	Absolute Properties of the Main-Sequence Eclipsing Binary Star BP Vulpeculae. <i>Astronomical Journal</i> , 2003, 126, 1905-1915.	1.9	16
72	Absolute Properties of the Upper Main-Sequence Eclipsing Binary Star MU Cassiopeiae. <i>Astronomical Journal</i> , 2004, 128, 1840-1846.	1.9	16

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73	ABSOLUTE PROPERTIES OF THE HIGHLY ECCENTRIC ECLIPSING BINARY STAR LV HERCULIS. <i>Astronomical Journal</i> , 2009, 138, 1622-1633.	1.9	16
74	CCD photometric search for peculiar stars in open clusters. <i>Astronomy and Astrophysics</i> , 2005, 443, 157-162.	2.1	16
75	ABSOLUTE PROPERTIES OF THE ECLIPSING TRIPLE STAR CO ANDROMEDAE: CONSTRAINTS ON CONVECTIVE CORE OVERSHOOTING. <i>Astronomical Journal</i> , 2010, 139, 2347-2359.	1.9	15
76	The moment of inertia of low mass stars. <i>Astrophysics and Space Science</i> , 1990, 169, 215-217.	0.5	14
77	ABSOLUTE PROPERTIES OF THE ECLIPSING BINARY STAR BF DRACONIS. <i>Astronomical Journal</i> , 2012, 143, 129.	1.9	14
78	Absolute dimensions of eclipsing binaries. <i>Astronomy and Astrophysics</i> , 2012, 537, A117.	2.1	14
79	Gravity-darkening exponents and apsidal-motion constants for pre-main-sequence models. <i>Astronomy and Astrophysics</i> , 2012, 541, A113.	2.1	14
80	First orbital elements for the α Bootis spectroscopic binary systems HD 84948 and HD 171948. <i>Astronomy and Astrophysics</i> , 2002, 381, 914-922.	2.1	14
81	Rotating stellar models and dynamic tides in close binaries: A first approach. <i>Astronomy and Astrophysics</i> , 2003, 410, 289-297.	2.1	14
82	Determination of stellar shape in microlensing event MOA 2002-BLG-33. <i>Astronomy and Astrophysics</i> , 2005, 439, 645-650.	2.1	14
83	Theoretical isochrones for the α photometric system. <i>Astronomy and Astrophysics</i> , 2003, 412, 91-95.	2.1	13
84	CCD photometric search for peculiar stars in open clusters. <i>Astronomy and Astrophysics</i> , 2006, 454, 171-178.	2.1	13
85	Theoretical gravity and limb-darkening coefficients for the MOST satellite photometric system. <i>Astronomy and Astrophysics</i> , 2014, 567, A3.	2.1	12
86	Analysis of apsidal motion in eclipsing binaries using TESS data. <i>Astronomy and Astrophysics</i> , 2021, 649, A64.	2.1	12
87	The massive and evolved EBS V380 Cygni: A case of critical evolution. <i>Astronomy and Astrophysics</i> , 2003, 399, 1115-1119.	2.1	12
88	The evolutionary status of EK Cephei: rotating and standard models. <i>Astronomy and Astrophysics</i> , 2006, 445, 1061-1067.	2.1	12
89	Absolute dimensions of eclipsing binaries. <i>Astronomy and Astrophysics</i> , 2010, 510, A91.	2.1	11
90	Absolute dimensions of solar-type eclipsing binaries. <i>Astronomy and Astrophysics</i> , 2010, 511, A22.	2.1	11

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91	Early optical follow-up of the nearby active star DG CVn during its 2014 superflare. Monthly Notices of the Royal Astronomical Society, 2015, 452, 4195-4202.	1.6	11
92	Theoretical gravity darkening as a function of optical depth. Astronomy and Astrophysics, 2016, 588, A15.	2.1	11
93	Infrared Light Curves and Absolute Parameters of the Active Binary RT Andromedae. Astronomical Journal, 1995, 110, 1376.	1.9	11
94	Is the orbit of the exoplanet WASP-43b really decaying? <i>TESS</i> and MuSCAT2 observations confirm no detection. Monthly Notices of the Royal Astronomical Society, 2021, 508, 5514-5523.	1.6	11
95	Infrared light curves and absolute stellar parameters of the Algol system \hat{A} Librae: is \hat{A} Librae really an overmassive Algol binary?. Monthly Notices of the Royal Astronomical Society, 2002, 334, 542-552.	1.6	10
96	Rapid apsidal motion in eccentric eclipsing binaries: OX \hat{A} Cassiopeia, PV \hat{A} Cassiopeia, and CO \hat{A} Lacertae. Astronomy and Astrophysics, 2008, 477, 615-620.	2.1	10
97	The widest broadband transmission spectrum (0.38 \hat{A} –1.71 μ m) of HD 189733b from ground-based chromatic Rossiter \hat{A} McLaughlin observations. Astronomy and Astrophysics, 2020, 643, A64.	2.1	10
98	Absolute Properties of the Main-Sequence Eclipsing Binary Star EY Cephei. Astronomical Journal, 2006, 131, 2664-2672.	1.9	9
99	The influence of dynamic tides on the apsidal-motion rate in close binaries with an evolved main-sequence star. Astronomy and Astrophysics, 2002, 382, 1009-1015.	2.1	9
100	uvby \hat{A} photometry of the short-period binary VV Ursae Majoris. Monthly Notices of the Royal Astronomical Society, 2001, 325, 617-630.	1.6	8
101	Absolute Properties of the Eclipsing Binary Star V396 Cassiopeiae. Astronomical Journal, 2004, 128, 3005-3011.	1.9	8
102	On the incidence of chemically peculiar stars in the Large Magellanic Cloud. Monthly Notices of the Royal Astronomical Society, 2005, 362, 1025-1030.	1.6	8
103	CCD- \hat{A} and BV R photometry of NGC 7296. Astronomische Nachrichten, 2005, 326, 734-737.	0.6	8
104	Chemically peculiar stars in the Large Magellanic Cloud. Astronomy and Astrophysics, 2006, 459, 871-874.	2.1	8
105	ABSOLUTE PROPERTIES OF THE TRIPLE STAR CF TAURI. Astronomical Journal, 2012, 144, 167.	1.9	8
106	Stellar activity consequence on the retrieved transmission spectra through chromatic Rossiter-McLaughlin observations. Astronomy and Astrophysics, 2020, 635, A123.	2.1	8
107	On the irradiated stellar atmospheres in close binary systems: Improvements and uncertainties. Astronomy and Astrophysics, 2004, 422, 665-673.	2.1	8
108	Absolute Properties of the Main-Sequence Eclipsing Binary Star V885 Cygni. Astronomical Journal, 2004, 128, 1324-1330.	1.9	7

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109	Reply to Gibert etÅal. (2008) on the supposed human phalanx from Cueva Victoria (Cartagena, Spain). <i>Journal of Human Evolution</i> , 2008, 54, 157-161.	1.3	7
110	ABSOLUTE PROPERTIES OF THE ECLIPSING BINARY STAR V335 SERPENTIS. <i>Astronomical Journal</i> , 2012, 144, 63.	1.9	7
111	Peculiar rotation in evolved binary systems: stellar and tidal evolution of TZ Fornacis. <i>Astronomy and Astrophysics</i> , 2011, 526, A157.	2.1	6
112	Gravity-darkening exponents for neutron and non-relativistic stars. <i>Astronomy and Astrophysics</i> , 2015, 577, A87.	2.1	6
113	Limb and Gravity-darkening Coefficients for the Space Mission CHEOPS. <i>Research Notes of the AAS</i> , 2021, 5, 13.	0.3	6
114	Doppler beaming factors for white dwarfs, main sequence stars, and giant stars. <i>Astronomy and Astrophysics</i> , 2020, 641, A157.	2.1	6
115	An approach to the limb darkening of irradiated stellar atmospheres. <i>Astronomy and Astrophysics</i> , 2007, 470, 1099-1103.	2.1	5
116	Tables of Limb-darkening and Gravity-darkening Coefficients for the Space Mission Gaia. <i>Research Notes of the AAS</i> , 2019, 3, 17.	0.3	5
117	ABSOLUTE PROPERTIES OF THE ECCENTRIC ECLIPSING BINARY STAR FT ORIONIS. <i>Astronomical Journal</i> , 2011, 141, 195.	1.9	4
118	The internal structure of neutron stars and white dwarfs, and the Jacobi virial equation. <i>Astronomy and Astrophysics</i> , 2012, 543, A67.	2.1	4
119	Neutron, quark, and proto-neutron stars at the onset of formation of black-holes: the memory effect. <i>Astronomy and Astrophysics</i> , 2014, 562, A31.	2.1	4
120	High-precision photometry with Ariel. <i>Experimental Astronomy</i> , 2022, 53, 607-634.	1.6	4
121	Rapidly rotating stars and their transiting planets: KELT-17b, KELT-19Ab, and KELT-21b in the CHEOPS and TESS era. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 513, 2822-2840.	1.6	4
122	Photometric survey of marginally investigated open clusters. <i>Astronomy and Astrophysics</i> , 2006, 454, 179-184.	2.1	3
123	The internal structure of neutron stars and white dwarfs, and the Jacobi virial equation. II.. <i>Astronomy and Astrophysics</i> , 2013, 552, A29.	2.1	3
124	Rotationally and tidally distorted compact stars. <i>Astronomy and Astrophysics</i> , 2021, 648, A111.	2.1	2
125	A Study of the Irradiation of Secondaries of Algol Binaries. , 1989, , 343-343.		2
126	Using binaries containing giants to constrain theories of stellar and tidal evolution. <i>Astronomy and Astrophysics</i> , 2009, 507, 377-384.	2.1	2

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127	The effect of stellar compressibility and non-resonant dynamic tides on the apsidal-motion rate in close binaries. <i>Astronomy and Astrophysics</i> , 2003, 398, 1111-1115.	2.1	2
128	The role of the stellar rotation on the internal constitution of PVÂCassiopeiae. <i>Astronomy and Astrophysics</i> , 2008, 490, 1103-1107.	2.1	2
129	Limb-darkening for cool stars: Standard and irradiated models. <i>Astrophysics and Space Science</i> , 1990, 169, 223-225.	0.5	1
130	Some applications of Jacobi dynamics to the stellar evolution. <i>Astrophysics and Space Science</i> , 1992, 193, 185-200.	0.5	1
131	BOOTES-IR: a robotic nIR astronomical observatory devoted to follow-up of transient phenomena. , 2006, , .		1
132	BOOTES-IR: The extension of BOOTES towards the near-IR. <i>AIP Conference Proceedings</i> , 2006, , .	0.3	1
133	uvbylight curves of the eclipsing binary system V2154 Cyg. <i>Astronomy and Astrophysics</i> , 2001, 372, 588-593.	2.1	1
134	Physical Processes in Close Binary Systems. <i>Lecture Notes in Physics</i> , 2001, , 1-47.	0.3	1
135	A study of the irradiation of secondaries of Algol binaries. <i>Space Science Reviews</i> , 1989, 50, 343-343.	3.7	0
136	The stars in the Main Sequence and their dynamical parameters. <i>Astrophysics and Space Science</i> , 1992, 193, 235-246.	0.5	0
137	Installation and first light of the BOOTES-IR near-IR camera. , 2008, , .		0