

# Antonio Claret

## List of Publications by Year in descending order

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137  
papers

5,942  
citations

94269

37  
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79541

73  
g-index

137  
all docs

137  
docs citations

137  
times ranked

3526  
citing authors

#	ARTICLE	IF	CITATIONS
1	High-precision photometry with Ariel. <i>Experimental Astronomy</i> , 2022, 53, 607-634.	1.6	4
2	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
3	Limb and Gravity-darkening Coefficients for the Space Mission CHEOPS. <i>Research Notes of the AAS</i> , 2021, 5, 13.	0.3	6
4	Rotationally and tidally distorted compact stars. <i>Astronomy and Astrophysics</i> , 2021, 648, A111.	2.1	2
5	Analysis of apsidal motion in eclipsing binaries using TESS data. <i>Astronomy and Astrophysics</i> , 2021, 649, A64.	2.1	12
6	Analysis of apsidal motion in eclipsing binaries using TESS data. <i>Astronomy and Astrophysics</i> , 2021, 654, A17.	2.1	19
7	Is the orbit of the exoplanet WASP-43b really decaying? TESS and MuSCAT2 observations confirm no detection. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 508, 5514-5523.	1.6	11
8	The ExoTETHyS Package: Tools for Exoplanetary Transits around Host Stars. <i>Astronomical Journal</i> , 2020, 159, 75.	1.9	45
9	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
10	Stellar activity consequence on the retrieved transmission spectra through chromatic Rossiter-McLaughlin observations. <i>Astronomy and Astrophysics</i> , 2020, 635, A123.	2.1	8
11	Doppler beaming factors for white dwarfs, main sequence stars, and giant stars. <i>Astronomy and Astrophysics</i> , 2020, 641, A157.	2.1	6
12	The widest broadband transmission spectrum ( $0.38\text{--}1.71\ \mu\text{m}$ ) of HD 189733b from ground-based chromatic Rossiter-McLaughlin observations. <i>Astronomy and Astrophysics</i> , 2020, 643, A64.	2.1	10
13	The Dependence of Convective Core Overshooting on Stellar Mass: Reality Check and Additional Evidence. <i>Astrophysical Journal</i> , 2019, 876, 134.	1.6	60
14	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2019, 627, A49.	2.1	95
15	A giant exoplanet orbiting a very-low-mass star challenges planet formation models. <i>Science</i> , 2019, 365, 1441-1445.	6.0	78
16	Updating the theoretical tidal evolution constants: Apsidal motion and the moment of inertia. <i>Astronomy and Astrophysics</i> , 2019, 628, A29.	2.1	26
17	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
18	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

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19	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2018, 609, A117.	2.1	103
20	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2018, 609, L5.	2.1	46
21	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
22	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2018, 612, A49.	2.1	173
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	CARMENES: high-resolution spectra and precise radial velocities in the red and infrared. , 2018, , .		37
25	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
26	Detection of titanium oxide in the atmosphere of a hot Jupiter. <i>Nature</i> , 2017, 549, 238-241.	13.7	129
27	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
28	The dependence of convective core overshooting on stellar mass. <i>Astronomy and Astrophysics</i> , 2016, 592, A15.	2.1	83
29	CARMENES: an overview six months after first light. <i>Proceedings of SPIE</i> , 2016, , .	0.8	59
30	Theoretical gravity darkening as a function of optical depth. <i>Astronomy and Astrophysics</i> , 2016, 588, A15.	2.1	11
31	Early optical follow-up of the nearby active star DG CVn during its 2014 superflare. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 452, 4195-4202.	1.6	11
32	The EChO science case. <i>Experimental Astronomy</i> , 2015, 40, 329-391.	1.6	31
33	Transmission spectroscopy of the inflated exo-Saturn HAT-P-19b. <i>Astronomy and Astrophysics</i> , 2015, 580, A60.	2.1	29
34	Gravity-darkening exponents for neutron and non-relativistic stars. <i>Astronomy and Astrophysics</i> , 2015, 577, A87.	2.1	6
35	CAPELLA ( $\epsilon$ AURIGAE) REVISITED: NEW BINARY ORBIT, PHYSICAL PROPERTIES, AND EVOLUTIONARY STATE. <i>Astrophysical Journal</i> , 2015, 807, 26.	1.6	223
36	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

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37	Theoretical gravity and limb-darkening coefficients for the MOST satellite photometric system. <i>Astronomy and Astrophysics</i> , 2014, 567, A3.	2.1	12
38	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
39	CARMENES instrument overview. <i>Proceedings of SPIE</i> , 2014, , .	0.8	132
40	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
41	New limb-darkening coefficients for Phoenix/1d model atmospheres. <i>Astronomy and Astrophysics</i> , 2013, 552, A16.	2.1	138
42	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
43	ABSOLUTE PROPERTIES OF THE ECLIPSING BINARY STAR V335 SERPENTIS. <i>Astronomical Journal</i> , 2012, 144, 63.	1.9	7
44	ABSOLUTE PROPERTIES OF THE TRIPLE STAR CF TAURI. <i>Astronomical Journal</i> , 2012, 144, 167.	1.9	8
45	ABSOLUTE PROPERTIES OF THE ECLIPSING BINARY STAR BF DRACONIS. <i>Astronomical Journal</i> , 2012, 143, 129.	1.9	14
46	Absolute dimensions of solar-type eclipsing binaries. <i>Astronomy and Astrophysics</i> , 2012, 540, A64.	2.1	19
47	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
48	CARMENES. I: instrument and survey overview. <i>Proceedings of SPIE</i> , 2012, , .	0.8	43
49	New limb-darkening coefficients for PHOENIX/1D model atmospheres. <i>Astronomy and Astrophysics</i> , 2012, 546, A14.	2.1	171
50	Absolute dimensions of eclipsing binaries. <i>Astronomy and Astrophysics</i> , 2012, 537, A117.	2.1	14
51	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
52	Gravity-darkening exponents and apsidal-motion constants for pre-main-sequence models. <i>Astronomy and Astrophysics</i> , 2012, 541, A113.	2.1	14
53	Peculiar rotation in evolved binary systems: stellar and tidal evolution of TZ Fornacis. <i>Astronomy and Astrophysics</i> , 2011, 526, A157.	2.1	6
54	Gravity and limb-darkening coefficients for the Kepler, CoRoT, Spitzer, uvby, UBVRIJHK, and Sloan photometric systems. <i>Astronomy and Astrophysics</i> , 2011, 529, A75.	2.1	855

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55	ABSOLUTE PROPERTIES OF THE ECCENTRIC ECLIPSING BINARY STAR FT ORIONIS. <i>Astronomical Journal</i> , 2011, 141, 195.	1.9	4
56	Absolute dimensions of eclipsing binaries. <i>Astronomy and Astrophysics</i> , 2010, 510, A91.	2.1	11
57	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
58	DIÂHerculis as a test of internal stellar structure and general relativity. <i>Astronomy and Astrophysics</i> , 2010, 515, A4.	2.1	22
59	The apsidal-motion test of stellar structure and evolution: an update. <i>Astronomy and Astrophysics</i> , 2010, 519, A57.	2.1	46
60	Absolute dimensions of solar-type eclipsing binaries. <i>Astronomy and Astrophysics</i> , 2010, 511, A22.	2.1	11
61	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
62	Relativistic apsidal motion in eccentric eclipsing binaries. <i>Astronomy and Astrophysics</i> , 2010, 509, A18.	2.1	23
63	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
64	BINARY ORBIT, PHYSICAL PROPERTIES, AND EVOLUTIONARY STATE OF CAPELLA (Î± AURIGAE). <i>Astrophysical Journal</i> , 2009, 700, 1349-1381.	1.6	38
65	ABSOLUTE PROPERTIES OF THE HIGHLY ECCENTRIC ECLIPSING BINARY STAR LV HERCULIS. <i>Astronomical Journal</i> , 2009, 138, 1622-1633.	1.9	16
66	The Rossiter-McLaughlin effect ofÂCoRoT-3b and HDâ€%189733b. <i>Astronomy and Astrophysics</i> , 2009, 506, 377-384.	2.1	139
67	Using binaries containing giants to constrain theories of stellar and tidal evolution. <i>Astronomy and Astrophysics</i> , 2009, 507, 377-384.	2.1	2
68	Absolute dimensions of solar-type eclipsing binaries. <i>Astronomy and Astrophysics</i> , 2009, 502, 253-265.	2.1	56
69	Reply to Gibert etÂal. (2008) on the supposed human phalanx from Cueva Victoria (Cartagena, Spain). <i>Journal of Human Evolution</i> , 2008, 54, 157-161.	1.3	7
70	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
71	Installation and first light of the BOOTES-IR near-IR camera. , 2008, , .		0
72	Rapid apsidal motion in eccentric eclipsing binaries: OXÂCassiopeia, PVÂCassiopeia, and COÂLacertae. <i>Astronomy and Astrophysics</i> , 2008, 477, 615-620.	2.1	10

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73	Testing the limb-darkening coefficients measured from eclipsing binaries. <i>Astronomy and Astrophysics</i> , 2008, 482, 259-266.	2.1	33
74	The role of the stellar rotation on the internal constitution of PVÂCassiopeiae. <i>Astronomy and Astrophysics</i> , 2008, 490, 1103-1107.	2.1	2
75	Physical Orbit for Î» Virginis and a Test of Stellar Evolution Models. <i>Astrophysical Journal</i> , 2007, 659, 626-641.	1.6	21
76	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
77	CCD photometric search for peculiar stars in open clusters. <i>Astronomy and Astrophysics</i> , 2007, 462, 591-597.	2.1	19
78	Does convective core overshooting depend on stellar mass?. <i>Astronomy and Astrophysics</i> , 2007, 475, 1019-1025.	2.1	95
79	Absolute dimensions of eclipsing binaries. <i>Astronomy and Astrophysics</i> , 2007, 469, 285-296.	2.1	20
80	An approach to the limb darkening of irradiated stellar atmospheres. <i>Astronomy and Astrophysics</i> , 2007, 470, 1099-1103.	2.1	5
81	Chemically peculiar stars in the Large Magellanic Cloud. <i>Astronomy and Astrophysics</i> , 2006, 459, 871-874.	2.1	8
82	Photometric survey of marginally investigated open clusters. <i>Astronomy and Astrophysics</i> , 2006, 454, 179-184.	2.1	3
83	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
84	CCD photometric search for peculiar stars in open clusters. <i>Astronomy and Astrophysics</i> , 2006, 454, 171-178.	2.1	13
85	Absolute Properties of the Main-Sequence Eclipsing Binary Star EY Cephei. <i>Astronomical Journal</i> , 2006, 131, 2664-2672.	1.9	9
86	BOOTES-IR: a robotic nIR astronomical observatory devoted to follow-up of transient phenomena. , 2006, , .		1
87	BOOTES-IR: The extension of BOOTES towards the near-IR. <i>AIP Conference Proceedings</i> , 2006, , .	0.3	1
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 Properties of the Eclipsing Binary Star RW Lacertae. <i>Astronomical Journal</i> , 2005, 130, 2838-2846.	1.9	36
90	On the incidence of chemically peculiar stars in the Large Magellanic Cloud. <i>Monthly Notices of the Royal Astronomical Society</i> , 2005, 362, 1025-1030.	1.6	8

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91	Absolute dimensions of detached eclipsing binaries -- I. The metallic-lined system WW Aurigae. Monthly Notices of the Royal Astronomical Society, 2005, 363, 529-542.	1.6	119
92	Early Pleistocene hominid remains from southern Spain and the taxonomic assignment of the Cueva Victoria phalanx. Journal of Human Evolution, 2005, 48, 517-523.	1.3	30
93	CCD and BV R photometry of NGC 7296. Astronomische Nachrichten, 2005, 326, 734-737.	0.6	8
94	Determination of stellar shape in microlensing event MOA 2002-BLG-33. Astronomy and Astrophysics, 2005, 439, 645-650.	2.1	14
95	New grids of stellar models including tidal-evolution constants up to carbon burning. Astronomy and Astrophysics, 2005, 440, 647-651.	2.1	30
96	CCD photometric search for peculiar stars in open clusters. Astronomy and Astrophysics, 2005, 443, 157-162.	2.1	16
97	Absolute Properties of the Main-Sequence Eclipsing Binary Star V885 Cygni. Astronomical Journal, 2004, 128, 1324-1330.	1.9	7
98	Absolute Properties of the Eclipsing Binary Star V396 Cassiopeiae. Astronomical Journal, 2004, 128, 3005-3011.	1.9	8
99	Absolute Properties of the Eclipsing Binary Star V459 Cassiopeiae. Astronomical Journal, 2004, 128, 1340-1347.	1.9	18
100	Absolute Properties of the Upper Main-Sequence Eclipsing Binary Star MU Cassiopeiae. Astronomical Journal, 2004, 128, 1840-1846.	1.9	16
101	New grids of stellar models including tidal-evolution constants up to carbon burning. Astronomy and Astrophysics, 2004, 424, 919-925.	2.1	262
102	A new non-linear limb-darkening law for LTE stellar atmosphere models III. Astronomy and Astrophysics, 2004, 428, 1001-1005.	2.1	374
103	On the irradiated stellar atmospheres in close binary systems: Improvements and uncertainties. Astronomy and Astrophysics, 2004, 422, 665-673.	2.1	8
104	Fundamental Properties and Distances of Large Magellanic Cloud Eclipsing Binaries. IV. HV 5936. Astrophysical Journal, 2003, 587, 685-700.	1.6	80
105	Absolute Properties of the Main-Sequence Eclipsing Binary Star BP Vulpeculae. Astronomical Journal, 2003, 126, 1905-1915.	1.9	16
106	Probing the atmosphere of a solar-like star by galactic microlensing at high magnification. Astronomy and Astrophysics, 2003, 411, L493-L496.	2.1	37
107	The limb-darkening for spherically symmetric NextGen model atmospheres: A G main-sequence and sub-giant stars. Astronomy and Astrophysics, 2003, 412, 241-248.	2.1	78
108	Theoretical isochrones for the photometric system. Astronomy and Astrophysics, 2003, 412, 91-95.	2.1	13

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109	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
110	The massive and evolved EBS V380 Cygni: A case of critical evolution. <i>Astronomy and Astrophysics</i> , 2003, 399, 1115-1119.	2.1	12
111	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
112	Studies on stellar rotation. <i>Astronomy and Astrophysics</i> , 2003, 406, 623-628.	2.1	19
113	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
114	Rotating stellar models and dynamic tides in close binaries: A first approach. <i>Astronomy and Astrophysics</i> , 2003, 410, 289-297.	2.1	14
115	Infrared light curves and absolute stellar parameters of the Algol system $\hat{A}$ Librae: is $\hat{A}$ Librae really an overmassive Algol binary?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2002, 334, 542-552.	1.6	10
116	First orbital elements for the $\hat{A}$ Bootis spectroscopic binary systems HD 84948 and HD 171948. <i>Astronomy and Astrophysics</i> , 2002, 381, 914-922.	2.1	14
117	The influence of dynamic tides on the apsidal-motion rate in close binaries with an evolved main-sequence star. <i>Astronomy and Astrophysics</i> , 2002, 382, 1009-1015.	2.1	9
118	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
119	Absolute Properties of the Main-Sequence Eclipsing Binary Star WW Camelopardalis. <i>Astronomical Journal</i> , 2002, 123, 1013-1022.	1.9	29
120	uvby photometry of the short-period binary VV Ursae Majoris. <i>Monthly Notices of the Royal Astronomical Society</i> , 2001, 325, 617-630.	1.6	8
121	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
122	Probing the stellar surface of HD 209458 from multicolor transit observations. <i>New Astronomy</i> , 2001, 6, 51-60.	0.8	67
123	uvbylight curves of the eclipsing binary system V2154 Cyg. <i>Astronomy and Astrophysics</i> , 2001, 372, 588-593.	2.1	1
124	Physical Processes in Close Binary Systems. <i>Lecture Notes in Physics</i> , 2001, , 1-47.	0.3	1
125	Absolute Properties of the Eclipsing Binary Star FS Monocerotis. <i>Astronomical Journal</i> , 2000, 119, 1389-1397.	1.9	18
126	Absolute Dimensions of the Unevolved B-Type Eclipsing Binary GG Orionis. <i>Astronomical Journal</i> , 2000, 120, 3226-3243.	1.9	32



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127	Absolute Dimensions of the A-Type Eclipsing Binary V364 Lacertae. <i>Astronomical Journal</i> , 1999, 118, 1831-1844.	1.9	20
128	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
129	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
130	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
131	Infrared Light Curves and Absolute Parameters of the Active Binary RT Andromedae. <i>Astronomical Journal</i> , 1995, 110, 1376.	1.9	11
132	Some applications of Jacobi dynamics to the stellar evolution. <i>Astrophysics and Space Science</i> , 1992, 193, 185-200.	0.5	1
133	The stars in the Main Sequence and their dynamical parameters. <i>Astrophysics and Space Science</i> , 1992, 193, 235-246.	0.5	0
134	The moment of inertia of low mass stars. <i>Astrophysics and Space Science</i> , 1990, 169, 215-217.	0.5	14
135	Limb-darkening for cool stars: Standard and irradiated models. <i>Astrophysics and Space Science</i> , 1990, 169, 223-225.	0.5	1
136	A study of the irradiation of secondaries of Algol binaries. <i>Space Science Reviews</i> , 1989, 50, 343-343.	3.7	0
137	A Study of the Irradiation of Secondaries of Algol Binaries. , 1989, , 343-343.		2