Marcio Catelan

List of Publications by Year
in descending order

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128 papers	6,557 citations	81900 39 h-index	66911 78 g-index
128 all docs	128 docs citations	128 times ranked	4949 citing authors

#	Article	IF	Citations
1	FIRST RESULTS FROM THE CATALINA REAL-TIME TRANSIENT SURVEY. Astrophysical Journal, 2009, 696, 870-884.	4.5	993
2	VISTA Variables in the Via Lactea (VVV): The public ESO near-IR variability survey of the Milky Way. New Astronomy, 2010, 15, 433-443.	1.8	698
3	THE CATALINA SURVEYS PERIODIC VARIABLE STAR CATALOG. Astrophysical Journal, Supplement Series, 2014, 213, 9.	7.7	346
4	VVV DR1: The first data release of the Milky Way bulge and southern plane from the near-infrared ESO public survey VISTA variables in the VÃa LÃ¡ctea. Astronomy and Astrophysics, 2012, 537, A107.	5.1	312
5	Horizontal branch stars: the interplay between observations andÂtheory, and insights into the formation of the Galaxy. Astrophysics and Space Science, 2009, 320, 261-309.	1.4	259
6	The RR Lyrae Periodâ€Łuminosity Relation. I. Theoretical Calibration. Astrophysical Journal, Supplement Series, 2004, 154, 633-649.	7.7	207
7	PROBING THE OUTER GALACTIC HALO WITH RR LYRAE FROM THE CATALINA SURVEYS. Astrophysical Journal, 2013, 763, 32.	4.5	197
8	VVV SURVEY NEAR-INFRARED PHOTOMETRY OF KNOWN BULGE RR LYRAE STARS: THE DISTANCE TO THE GALACTIC CENTER AND ABSENCE OF A BARRED DISTRIBUTION OF THE METAL-POOR POPULATION. Astrophysical Journal Letters, 2013, 776, L19.	8.3	129
9	The Catalina Surveys Southern periodic variable star catalogue. Monthly Notices of the Royal Astronomical Society, 2017, 469, 3688-3712.	4.4	119
10	THE MASSES OF POPULATION II WHITE DWARFS. Astrophysical Journal, 2009, 705, 408-425.	4.5	107
11	New Galactic star clusters discovered in the VVV survey. Astronomy and Astrophysics, 2011, 532, A131.	5.1	90
12	UNCLOAKING GLOBULAR CLUSTERS IN THE INNER GALAXY. Astronomical Journal, 2012, 143, 70.	4.7	90
13	Discovery of â^¼9000 new RR Lyrae in the southern Catalina surveys. Monthly Notices of the Royal Astronomical Society, 2015, 446, 2251-2266.	4.4	87
14	Variable Stars in the Unusual, Metal-rich Globular Cluster NGC 6388. Astronomical Journal, 2002, 124, 949-976.	4.7	81
15	The Automatic Learning for the Rapid Classification of Events (ALeRCE) Alert Broker. Astronomical Journal, 2021, 161, 242.	4.7	76
16	Particle-physics constraints from the globular cluster M5: neutrino dipole moments. Astronomy and Astrophysics, 2013, 558, A12.	5.1	70
17	Formation of multiple populations in globular clusters: another possible scenario. Astronomy and Astrophysics, 2011, 533, A120.	5.1	70
18	New VVV Survey Globular Cluster Candidates in the Milky Way Bulge*. Astrophysical Journal Letters, 2017, 849, L24.	8.3	65

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19	RR Lyrae Stars in NGC 6388 and NGC 6441: A New Oosterhoff Group?. Astrophysical Journal, 2000, 530, L41-L44.	4.5	64
20	Variable Stars in the Unusual, Metal-rich, Globular Cluster NGC 6441. Astronomical Journal, 2001, 122, 2600-2626.	4.7	62
21	Discovery of VVVÂCL001. Astronomy and Astrophysics, 2011, 527, A81.	5.1	60
22	Extinction Ratios in the Inner Galaxy as Revealed by the VVV Survey. Astrophysical Journal Letters, 2017, 849, L13.	8.3	60
23	THE RR LYRAE VARIABLES AND HORIZONTAL BRANCH OF NGC 6656 (M22)[,]. Astronomical Journal, 2013, 146, 119.	4.7	59
24	Three Galactic globular cluster candidates. Astronomy and Astrophysics, 2011, 535, A33.	5.1	57
25	VARIABLE STARS IN THE VVV GLOBULAR CLUSTERS. I. 2MASS-GC 02 AND TERZAN 10. Astronomical Journal, 2015, 149, 99.	4.7	57
26	Evidence for an Overluminosity of the Variable Star RR Lyrae, and a Revised Distance to the LMC. Astrophysical Journal, 2008, 676, L135-L138.	4.5	56
27	Milky Way demographics with the VVV survey. Astronomy and Astrophysics, 2018, 619, A4.	5.1	55
28	The Evolutionary Status of M3 RR Lyrae Variable Stars: Breakdown of the Canonical Framework?. Astrophysical Journal, 2004, 600, 409-418.	4.5	51
29	New Metallicities of RR Lyrae Stars in Ï‰ Centauri: Evidence for a Non-He-enhanced Metal-intermediate Population. Astrophysical Journal, 2006, 640, L43-L46.	4.5	50
30	Milky Way demographics with the VVV survey. Astronomy and Astrophysics, 2012, 544, A147.	5.1	49
31	Mapping the outer bulge with RRab stars from the VVV Survey. Astronomy and Astrophysics, 2016, 591, A145.	5.1	48
32	Alert Classification for the ALeRCE Broker System: The Light Curve Classifier. Astronomical Journal, 2021, 161, 141.	4.7	48
33	New galactic star clusters discovered in the VVV survey. Candidates projected on the inner disk and bulge. Astronomy and Astrophysics, 2014, 569, A24.	5.1	48
34	THE GLOBULAR CLUSTER NGC 5286. II. VARIABLE STARS. Astronomical Journal, 2010, 139, 357-371.	4.7	47
35	ULTRA-SHORT PERIOD BINARIES FROM THE CATALINA SURVEYS. Astrophysical Journal, 2014, 790, 157.	4.5	46
36	THE VVV SURVEY REVEALS CLASSICAL CEPHEIDS TRACING A YOUNG AND THIN STELLAR DISK ACROSS THE GALAXYâ€™S BULGE. Astrophysical Journal Letters, 2015, 812, L29.	8.3	42

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37	FSR 1716: A New Milky Way Globular Cluster Confirmed Using VVV RR Lyrae Stars. Astrophysical Journal Letters, 2017, 838, L14.	8.3	42
38	Massive open star clusters using the VVV survey. Astronomy and Astrophysics, 2012, 545, A54.	5.1	40
39	Optimization of the Observing Cadence for the Rubin Observatory Legacy Survey of Space and Time: A Pioneering Process of Community-focused Experimental Design. Astrophysical Journal, Supplement Series, 2022, 258, 1.	7.7	40
40	THE ROTATIONAL BEHAVIOR OFKEPLERSTARS WITH PLANETS. Astrophysical Journal, 2015, 803, 69.	4.5	39
41	Stellar cycles from photometric data: CoRoT stars. Astronomy and Astrophysics, 2015, 583, A134.	5.1	38
42	Tails and streams around the Galactic globular clusters NGCâ€‰1851, NGCâ€‰1904, NGCâ€‰2298 and NGCâ€‰2808. Monthly Notices of the Royal Astronomical Society, 2018, 474, 683-695.	4.4	37
43	A machine learned classifier for RR Lyrae in the VVV survey. Astronomy and Astrophysics, 2016, 595, A82.	5.1	36
44	The Periodâ€Łuminosity Relation of RR Lyrae Stars in the SDSS Photometric System. Astrophysical Journal, Supplement Series, 2008, 179, 242-248.	7.7	36
45	New Constraints on the Nuclear Equation of State from the Thermal Emission of Neutron Stars in Quiescent Low-mass X-Ray Binaries. Astrophysical Journal, 2019, 887, 48.	4.5	36
46	CONSTRAINTS ON THE DISTANCE MODULI, HELIUM AND METAL ABUNDANCES, AND AGES OF GLOBULAR CLUSTERS FROM THEIR RR LYRAE AND NON-VARIABLE HORIZONTAL-BRANCH STARS. I. M3, M15, AND M92. Astrophysical Journal, 2016, 827, 2.	4.5	35
47	Overview of semi-sinusoidal stellar variability with the CoRoT satellite. Astronomy and Astrophysics, 2013, 555, A63.	5.1	34
48	Properties of RR Lyrae stars in the inner regions of the Large Magellanic Cloud. Astronomy and Astrophysics, 2009, 502, 505-514.	5.1	31
49	New RR Lyrae variables in binary systems. Monthly Notices of the Royal Astronomical Society: Letters, 2015, 449, L113-L117.	3.3	31
50	A Near-infrared RR Lyrae Census along the Southern Galactic Plane: The Milky Wayâ€™s Stellar Fossil Brought to Light. Astrophysical Journal, 2018, 857, 54.	4.5	31
51	The VVV Templates Project Towards an automated classification of VVV light-curves. Astronomy and Astrophysics, 2014, 567, A100.	5.1	31
52	VARIABLE STARS IN THE GLOBULAR CLUSTER NGC 2808. Astronomical Journal, 2013, 145, 33.	4.7	30
53	Structural parameters and blue stragglers in Sagittarius dwarf spheroidal galaxy globular clusters^{â˜…}. Monthly Notices of the Royal Astronomical Society, 2012, 421, 960-970.	4.4	29
54	THE ARAUCARIA PROJECT: A STUDY OF THE CLASSICAL CEPHEID IN THE ECLIPSING BINARY SYSTEM OGLE LMC562.05.9009 IN THE LARGE MAGELLANIC CLOUD. Astrophysical Journal, 2015, 815, 28.	4.5	29

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55	Age differences between old stellar populations from the HB morphology-metallicity diagram. Astronomical Journal, 1993, 106, 1858.	4.7	29
56	Image-Subtraction Photometry of Variable Stars in the Globular Clusters NGC 6388 and NGC 6441. Astronomical Journal, 2006, 132, 1014-1022.	4.7	28
57	TIME-SERIES PHOTOMETRY OF GLOBULAR CLUSTERS: M62 (NGC 6266), THE MOST RR LYRAE-RICH GLOBULAR CLUSTER IN THE GALAXY?. Astronomical Journal, 2010, 140, 1766-1786.	4.7	28
58	THE ARAUCARIA PROJECT: THE FIRST-OVERTONE CLASSICAL CEPHEID IN THE ECLIPSING SYSTEM OGLE-LMC-CEP-2532. Astrophysical Journal, 2015, 806, 29.	4.5	28
59	Characterization of the VVV Survey RR Lyrae Population across the Southern Galactic Plane. Astronomical Journal, 2017, 153, 179.	4.7	28
60	Scalable end-to-end recurrent neural network for variable star classification. Monthly Notices of the Royal Astronomical Society, 2020, 493, 2981-2995.	4.4	27
61	Massive open star clusters using the VVV survey. Astronomy and Astrophysics, 2013, 549, A98.	5.1	27
62	Into the Darkness: Classical and Type II Cepheids in the Zona Galactica Incognita. Astrophysical Journal, 2019, 883, 58.	4.5	26
63	Is a binary fraction-age relation responsible for the lack of EHB binaries in globular clusters?. Astronomy and Astrophysics, 2008, 480, L1-L4.	5.1	26
64	Discovery of More than 200 RR Lyrae Variables in M62: An Oosterhoff I Globular Cluster with a Predominantly Blue Horizontal Branch. Astrophysical Journal, 2005, 623, L117-L120.	4.5	25
65	Updated census of RR Lyrae stars in the globular clusterÏ‰Centauri (NGCâ€‰5139). Astronomy and Astrophysics, 2015, 577, A99.	5.1	25
66	DISCOVERY OF A PAIR OF CLASSICAL CEPHEIDS IN AN INVISIBLE CLUSTER BEYOND THE GALACTIC BULGE. Astrophysical Journal Letters, 2015, 799, L11.	8.3	25
67	A Data-driven Study of RR Lyrae Near-IR Light Curves: Principal Component Analysis, Robust Fits, and Metallicity Estimates. Astrophysical Journal, 2018, 857, 55.	4.5	25
68	On the optimal calibration of VVV photometry. Experimental Astronomy, 2020, 49, 217-238.	3.7	22
69	New low mass ratio contact binaries in the Catalina Sky Survey. Monthly Notices of the Royal Astronomical Society, 2022, 512, 1244-1261.	4.4	22
70	A near-infrared catalogue of the Galactic novae in the VVV survey area. Astronomy and Astrophysics, 2013, 554, A123.	5.1	21
71	Bulge RR Lyrae stars in the VVV tile b201. Astronomy and Astrophysics, 2015, 575, A114.	5.1	21
72	M75, A Globular Cluster with a Trimodal Horizontal Branch. II.BVPhotometry of the RR Lyrae Variables. Astronomical Journal, 2003, 125, 2543-2558.	4.7	20

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73	An Updated Catalog of 4680 Northern Eclipsing Binaries with Algol-type Light-curve Morphology in the Catalina Sky Surveys. Astrophysical Journal, Supplement Series, 2018, 238, 4.	7.7	20
74	Alert Classification for the ALeRCE Broker System: The Real-time Stamp Classifier. Astronomical Journal, 2021, 162, 231.	4.7	20
75	Blazhko modulation in the infrared. Monthly Notices of the Royal Astronomical Society, 2018, 475, 4208-4222.	4.4	19
76	Discovery of a variable star population in NGC 2808. Astronomy and Astrophysics, 2004, 421, 667-672.	5.1	18
77	Using classical Cepheids to study the far side of the Milky Way disk. Astronomy and Astrophysics, 2020, 640, A92.	5.1	18
78	VVV SURVEY OBSERVATIONS OF A MICROLENSING STELLAR MASS BLACK HOLE CANDIDATE IN THE FIELD OF THE GLOBULAR CLUSTER NGC 6553. Astrophysical Journal Letters, 2015, 810, L20.	8.3	17
79	Massive open star clusters using the VVV survey. Astronomy and Astrophysics, 2014, 564, L9.	5.1	16
80	Pulsating hot O subdwarfs inÏ‰Centauri: mapping a unique instability strip on the extreme horizontal branch. Astronomy and Astrophysics, 2016, 589, A1.	5.1	16
81	CAPOS: The bulge Cluster APOgee Survey. Astronomy and Astrophysics, 2021, 652, A157.	5.1	16
82	The WFCAM multiwavelength Variable Star Catalog. Astronomy and Astrophysics, 2015, 573, A100.	5.1	16
83	AN AO-ASSISTED VARIABILITY STUDY OF FOUR GLOBULAR CLUSTERS*. Astronomical Journal, 2016, 152, 55.	4.7	15
84	Near-IR period-luminosity relations for pulsating stars inÏ‰Centauri (NGCâ€‰5139). Astronomy and Astrophysics, 2017, 604, A120.	5.1	15
85	New type II Cepheids from VVV data towards the Galactic center. Astronomy and Astrophysics, 2019, 625, A151.	5.1	15
86	Symbiotic stars in OGLE data â€“ I. Large Magellanic Cloud systems. Monthly Notices of the Royal Astronomical Society, 2014, 438, 35-48.	4.4	14
87	Searching for merger debris in the Galactic halo: chemodynamical evidence based on local blue HB stars. Astronomy and Astrophysics, 2005, 439, L5-L8.	5.1	14
88	NEW SUNS IN THE COSMOS?. Astrophysical Journal Letters, 2013, 773, L18.	8.3	13
89	YOUNG STELLAR CLUSTERS CONTAINING MASSIVE YOUNG STELLAR OBJECTS IN THE VVV SURVEY. Astronomical Journal, 2016, 152, 74.	4.7	13
90	Variable stars in the VVV globular clusters. Astronomy and Astrophysics, 2021, 651, A47.	5.1	13

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91	THE ARAUCARIA PROJECT: ON THE TIP OF THE RED GIANT BRANCH DISTANCE DETERMINATION TO THE MAGELLANIC CLOUDS. Astronomical Journal, 2016, 151, 167.	4.7	12
92	An Automated Tool to Detect Variable Sources in the Vista Variables in the VÃa LÃ¡ctea Survey: The VVV Variables (V⁴) Catalog of Tiles d001 and d002. Astrophysical Journal, 2018, 864, 11.	4.5	12
93	The ages of (the oldest) stars. Proceedings of the International Astronomical Union, 2017, 13, 11-20.	0.0	11
94	The Globular Cluster NGC 6402 (M14). II. Variable Stars*. Astronomical Journal, 2018, 155, 116.	4.7	11
95	The Orbit of the New Milky Way Globular Cluster FSR1716Â=ÂVVV-GC05^{âˆ—}. Astrophysical Journal, 2018, 863, 78.	4.5	11
96	Using classical Cepheids to study the far side of the Milky Way disk. Astronomy and Astrophysics, 2021, 654, A138.	5.1	11
97	Large-amplitude periodic outbursts and long-period variables in the VVV VIRAC2-Î² data base. Monthly Notices of the Royal Astronomical Society, 2022, 513, 1015-1035.	4.4	11
98	The VISTA Variables in the VÃa LÃ¡ctea infrared variability catalogue (VIVA-I). Monthly Notices of the Royal Astronomical Society, 2020, 496, 1730-1756.	4.4	10
99	Discovery of a thin stellar stream in the SLAMS survey. Monthly Notices of the Royal Astronomical Society, 2018, 480, 5342-5351.	4.4	9
100	Long-term stellar variability in the Galactic Centre region. Monthly Notices of the Royal Astronomical Society, 2019, 482, 5567-5586.	4.4	9
101	Detection of period variations of eclipsing binaries in the Catalina Sky Survey. Monthly Notices of the Royal Astronomical Society, 2021, 503, 2979-2999.	4.4	9
102	THE GLOBULAR CLUSTER NGC 6402 (M14). I. A NEWBVCOLOR-MAGNITUDE DIAGRAM. Astronomical Journal, 2013, 146, 57.	4.7	8
103	Variable stars in the Quintuplet stellar cluster with the VVV survey. Monthly Notices of the Royal Astronomical Society, 2016, 462, 1180-1191.	4.4	8
104	The Emergence of the Infrared Transient VVV-WIT-06[*]. Astrophysical Journal Letters, 2017, 849, L23.	8.3	8
105	Results of a systematic search for outburst events in 1.4 million galaxies. Monthly Notices of the Royal Astronomical Society, 2019, 482, 98-117.	4.4	8
106	On the Oosterhoff dichotomy in the Galactic bulge â€“ II. Kinematical distribution. Monthly Notices of the Royal Astronomical Society, 2019, 487, 3270-3278.	4.4	7
107	Stellar streams around the Magellanic Clouds in 4D. Monthly Notices of the Royal Astronomical Society, 2019, 483, 4160-4174.	4.4	7
108	VVV-WIT-07: another Boyajianâ€™s star or a Mamajekâ€™s object?. Monthly Notices of the Royal Astronomical Society, 2019, 482, 5000-5006.	4.4	7

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109	A HOT HORIZONTAL BRANCH STAR WITH A CLOSE K-TYPE MAIN-SEQUENCE COMPANION. Astrophysical Journal Letters, 2015, 812, L31.	8.3	6
110	The southern leading and trailing wraps of the Sagittarius tidal stream around the globular cluster Whiting 1. Monthly Notices of the Royal Astronomical Society: Letters, 2017, 467, L91-L95.	3.3	6
111	Studies of RR Lyrae Variables in Binary Systems. I. Evidence of a Trimodal Companion Mass Distribution. Astrophysical Journal, 2021, 915, 50.	4.5	6
112	The VVV survey: Long-period variable stars. Astronomy and Astrophysics, 2022, 660, A35.	5.1	6
113	The globular cluster NGCâ€‰7492 and the Sagittarius tidal stream: together but unmixed. Monthly Notices of the Royal Astronomical Society, 2018, 474, 4766-4771.	4.4	5
114	Recovering variable stars in large surveys: EAup Algol-type class in the Catalina Survey. Monthly Notices of the Royal Astronomical Society, 2020, 498, 2833-2844.	4.4	5
115	A revised view of the Canis Major stellar overdensity with DECam and Gaia: new evidence of a stellar warp of blue stars. Monthly Notices of the Royal Astronomical Society, 2020, 501, 1690-1700.	4.4	5
116	Period-change rates in Large Magellanic Cloud Cepheids revisited. Monthly Notices of the Royal Astronomical Society, 2021, 509, 2885-2895.	4.4	5
117	Physical Parameters of Northern Eclipsing Binaries in the Catalina Sky Survey. Astrophysical Journal, Supplement Series, 2019, 242, 6.	7.7	4
118	Humps and bumps: the effects of shocks on the optical light curves of fundamental-mode RR Lyrae stars. Astronomy and Astrophysics, 2020, 635, A66.	5.1	4
119	VVV-WIT-01: highly obscured classical nova or protostellar collision?. Monthly Notices of the Royal Astronomical Society, 2020, 492, 4847-4857.	4.4	3
120	VVV survey near-infrared colour catalogue of known variable stars. Astronomy and Astrophysics, 2021, 647, A169.	5.1	3
121	Stellar parameters for stars of the CoRoT exoplanet field. Astronomy and Astrophysics, 2015, 581, A68.	5.1	2
122	Near-IR period-luminosity relations for pulsating stars in Ï‰ Centauri (NGCâ€‰5139) (Corrigendum). Astronomy and Astrophysics, 2017, 606, C1.	5.1	2
123	Informative Bayesian model selection for RR Lyrae star classifiers. Monthly Notices of the Royal Astronomical Society, 2021, 503, 484-497.	4.4	2
124	A Speckle Interferometric Search for a Companion to the RR Lyrae Star UV Oct. Research Notes of the AAS, 2020, 4, 143.	0.7	2
125	Near-Field Cosmology with RR Lyrae Variable Stars: A First View of Substructure in the Southern Sky. Proceedings of the International Astronomical Union, 2015, 11, 338-339.	0.0	1
126	Variability Survey of Ï‰ Centauri in the Near-IR: Period-Luminosity Relations. Proceedings of the International Astronomical Union, 2015, 12, 351-352.	0.0	0

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127	Variable stars in the VVV globular clusters. EPJ Web of Conferences, 2017, 152, 01022.	0.3	0
128	Periodic Variable Stars Modulated by Time-varying Parameters. Astrophysical Journal, 2022, 925, 73.	4.5	0