

# Marcio Catelan

## List of Publications by Year in descending order

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128  
papers

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citations

81900

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128  
docs citations

128  
times ranked

4949  
citing authors

#	ARTICLE	IF	CITATIONS
1	Periodic Variable Stars Modulated by Time-varying Parameters. <i>Astrophysical Journal</i> , 2022, 925, 73.	4.5	0
2	Optimization of the Observing Cadence for the Rubin Observatory Legacy Survey of Space and Time: A Pioneering Process of Community-focused Experimental Design. <i>Astrophysical Journal, Supplement Series</i> , 2022, 258, 1.	7.7	40
3	New low mass ratio contact binaries in the Catalina Sky Survey. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 512, 1244-1261.	4.4	22
4	Large-amplitude periodic outbursts and long-period variables in the VVV VIRAC2- $\hat{I}^2$ data base. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 513, 1015-1035.	4.4	11
5	The VVV survey: Long-period variable stars. <i>Astronomy and Astrophysics</i> , 2022, 660, A35.	5.1	6
6	Alert Classification for the ALerCE Broker System: The Light Curve Classifier. <i>Astronomical Journal</i> , 2021, 161, 141.	4.7	48
7	Informative Bayesian model selection for RR Lyrae star classifiers. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 503, 484-497.	4.4	2
8	VVV survey near-infrared colour catalogue of known variable stars. <i>Astronomy and Astrophysics</i> , 2021, 647, A169.	5.1	3
9	Detection of period variations of eclipsing binaries in the Catalina Sky Survey. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 503, 2979-2999.	4.4	9
10	The Automatic Learning for the Rapid Classification of Events (ALerCE) Alert Broker. <i>Astronomical Journal</i> , 2021, 161, 242.	4.7	76
11	Studies of RR Lyrae Variables in Binary Systems. I. Evidence of a Trimodal Companion Mass Distribution. <i>Astrophysical Journal</i> , 2021, 915, 50.	4.5	6
12	Variable stars in the VVV globular clusters. <i>Astronomy and Astrophysics</i> , 2021, 651, A47.	5.1	13
13	Using classical Cepheids to study the far side of the Milky Way disk. <i>Astronomy and Astrophysics</i> , 2021, 654, A138.	5.1	11
14	CAPOS: The bulge Cluster APOgee Survey. <i>Astronomy and Astrophysics</i> , 2021, 652, A157.	5.1	16
15	Alert Classification for the ALerCE Broker System: The Real-time Stamp Classifier. <i>Astronomical Journal</i> , 2021, 162, 231.	4.7	20
16	Period-change rates in Large Magellanic Cloud Cepheids revisited. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 509, 2885-2895.	4.4	5
17	On the optimal calibration of VVV photometry. <i>Experimental Astronomy</i> , 2020, 49, 217-238.	3.7	22
18	Recovering variable stars in large surveys: EAup Algol-type class in the Catalina Survey. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 2833-2844.	4.4	5

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19	A revised view of the Canis Major stellar overdensity with DECam and <i>Gaia</i>: new evidence of a stellar warp of blue stars. Monthly Notices of the Royal Astronomical Society, 2020, 501, 1690-1700.	4.4	5
20	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
21	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
22	The VISTA Variables in the VÅa LÃ¡ctea infrared variability catalogue (VIVA-I). Monthly Notices of the Royal Astronomical Society, 2020, 496, 1730-1756.	4.4	10
23	VVV-WIT-01: highly obscured classical nova or protostellar collision?. Monthly Notices of the Royal Astronomical Society, 2020, 492, 4847-4857.	4.4	3
24	Using classical Cepheids to study the far side of the Milky Way disk. Astronomy and Astrophysics, 2020, 640, A92.	5.1	18
25	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
26	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
27	Into the Darkness: Classical and Type II Cepheids in the Zona Galactica Incognita. Astrophysical Journal, 2019, 883, 58.	4.5	26
28	Physical Parameters of Northern Eclipsing Binaries in the Catalina Sky Survey. Astrophysical Journal, Supplement Series, 2019, 242, 6.	7.7	4
29	Stellar streams around the Magellanic Clouds in 4D. Monthly Notices of the Royal Astronomical Society, 2019, 483, 4160-4174.	4.4	7
30	Long-term stellar variability in the Galactic Centre region. Monthly Notices of the Royal Astronomical Society, 2019, 482, 5567-5586.	4.4	9
31	New type II Cepheids from VVV data towards the Galactic center. Astronomy and Astrophysics, 2019, 625, A151.	5.1	15
32	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
33	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
34	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
35	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
36	The Globular Cluster NGC 6402 (M14). II. Variable Stars*. Astronomical Journal, 2018, 155, 116.	4.7	11

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37	A Data-driven Study of RR Lyrae Near-IR Light Curves: Principal Component Analysis, Robust Fits, and Metallicity Estimates. <i>Astrophysical Journal</i> , 2018, 857, 55.	4.5	25
38	Blazhko modulation in the infrared. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 475, 4208-4222.	4.4	19
39	Discovery of a thin stellar stream in the SLAMS survey. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 480, 5342-5351.	4.4	9
40	An Updated Catalog of 4680 Northern Eclipsing Binaries with Algol-type Light-curve Morphology in the Catalina Sky Surveys. <i>Astrophysical Journal, Supplement Series</i> , 2018, 238, 4.	7.7	20
41	An Automated Tool to Detect Variable Sources in the Vista Variables in the V <sup>A</sup> L <sup>A</sup> i c t e a Survey: The V <sup>V</sup> Variables (V <sup>&lt;sup&gt;4&lt;/sup&gt; Catalog of Tiles d001 and d002. <i>Astrophysical Journal</i>, 2018, 864, 11.</sup>	4.5	12
42	A Near-infrared RR Lyrae Census along the Southern Galactic Plane: The Milky Way's Stellar Fossil Brought to Light. <i>Astrophysical Journal</i> , 2018, 857, 54.	4.5	31
43	The Orbit of the New Milky Way Globular Cluster FSR1716-VV-GC05. <i>Astrophysical Journal</i> , 2018, 863, 78.	4.5	11
44	The globular cluster NGC 7492 and the Sagittarius tidal stream: together but unmixed. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 474, 4766-4771.	4.4	5
45	Milky Way demographics with the VV survey. <i>Astronomy and Astrophysics</i> , 2018, 619, A4.	5.1	55
46	FSR 1716: A New Milky Way Globular Cluster Confirmed Using VV RR Lyrae Stars. <i>Astrophysical Journal Letters</i> , 2017, 838, L14.	8.3	42
47	Characterization of the VV Survey RR Lyrae Population across the Southern Galactic Plane. <i>Astronomical Journal</i> , 2017, 153, 179.	4.7	28
48	Extinction Ratios in the Inner Galaxy as Revealed by the VV Survey. <i>Astrophysical Journal Letters</i> , 2017, 849, L13.	8.3	60
49	The Emergence of the Infrared Transient VV-WIT-06. <i>Astrophysical Journal Letters</i> , 2017, 849, L23.	8.3	8
50	New VV Survey Globular Cluster Candidates in the Milky Way Bulge*. <i>Astrophysical Journal Letters</i> , 2017, 849, L24.	8.3	65
51	The southern leading and trailing wraps of the Sagittarius tidal stream around the globular cluster Whiting 1. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2017, 467, L91-L95.	3.3	6
52	The Catalina Surveys Southern periodic variable star catalogue. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, 3688-3712.	4.4	119
53	The ages of (the oldest) stars. <i>Proceedings of the International Astronomical Union</i> , 2017, 13, 11-20.	0.0	11
54	Variable stars in the VV globular clusters. <i>EPJ Web of Conferences</i> , 2017, 152, 01022.	0.3	0

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55	Near-IR period-luminosity relations for pulsating stars in <i>Centauri</i> (NGC 5139). <i>Astronomy and Astrophysics</i> , 2017, 604, A120.	5.1	15
56	Near-IR period-luminosity relations for pulsating stars in <i>Centauri</i> (NGC 5139) <i>(Corrigendum)</i> . <i>Astronomy and Astrophysics</i> , 2017, 606, C1.	5.1	2
57	THE ARAUCARIA PROJECT: ON THE TIP OF THE RED GIANT BRANCH DISTANCE DETERMINATION TO THE MAGELLANIC CLOUDS. <i>Astronomical Journal</i> , 2016, 151, 167.	4.7	12
58	Pulsating hot O subdwarfs in <i>Centauri</i> : mapping a unique instability strip on the extreme horizontal branch. <i>Astronomy and Astrophysics</i> , 2016, 589, A1.	5.1	16
59	A machine learned classifier for RR Lyrae in the VVV survey. <i>Astronomy and Astrophysics</i> , 2016, 595, A82.	5.1	36
60	Mapping the outer bulge with RRab stars from the VVV Survey. <i>Astronomy and Astrophysics</i> , 2016, 591, A145.	5.1	48
61	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. <i>Astrophysical Journal</i> , 2016, 827, 2.	4.5	35
62	YOUNG STELLAR CLUSTERS CONTAINING MASSIVE YOUNG STELLAR OBJECTS IN THE VVV SURVEY. <i>Astronomical Journal</i> , 2016, 152, 74.	4.7	13
63	Variable stars in the Quintuplet stellar cluster with the VVV survey. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, 1180-1191.	4.4	8
64	AN AO-ASSISTED VARIABILITY STUDY OF FOUR GLOBULAR CLUSTERS*. <i>Astronomical Journal</i> , 2016, 152, 55.	4.7	15
65	Near-Field Cosmology with RR Lyrae Variable Stars: A First View of Substructure in the Southern Sky. <i>Proceedings of the International Astronomical Union</i> , 2015, 11, 338-339.	0.0	1
66	A HOT HORIZONTAL BRANCH STAR WITH A CLOSE K-TYPE MAIN-SEQUENCE COMPANION. <i>Astrophysical Journal Letters</i> , 2015, 812, L31.	8.3	6
67	VVV SURVEY OBSERVATIONS OF A MICROLENSING STELLAR MASS BLACK HOLE CANDIDATE IN THE FIELD OF THE GLOBULAR CLUSTER NGC 6553. <i>Astrophysical Journal Letters</i> , 2015, 810, L20.	8.3	17
68	Bulge RR Lyrae stars in the VVV tile b201. <i>Astronomy and Astrophysics</i> , 2015, 575, A114.	5.1	21
69	THE ARAUCARIA PROJECT: A STUDY OF THE CLASSICAL CEPHEID IN THE ECLIPSING BINARY SYSTEM OGLE LMC562.05.9009 IN THE LARGE MAGELLANIC CLOUD. <i>Astrophysical Journal</i> , 2015, 815, 28.	4.5	29
70	Stellar parameters for stars of the CoRoT exoplanet field. <i>Astronomy and Astrophysics</i> , 2015, 581, A68.	5.1	2
71	Stellar cycles from photometric data: CoRoT stars. <i>Astronomy and Astrophysics</i> , 2015, 583, A134.	5.1	38
72	THE VVV SURVEY REVEALS CLASSICAL CEPHEIDS TRACING A YOUNG AND THIN STELLAR DISK ACROSS THE GALAXY'S BULGE. <i>Astrophysical Journal Letters</i> , 2015, 812, L29.	8.3	42

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73	Variability Survey of $\omega$ Centauri in the Near-IR: Period-Luminosity Relations. Proceedings of the International Astronomical Union, 2015, 12, 351-352.	0.0	0
74	Updated census of RR Lyrae stars in the globular cluster $\omega$ Centauri (NGC 5139). Astronomy and Astrophysics, 2015, 577, A99.	5.1	25
75	DISCOVERY OF A PAIR OF CLASSICAL CEPHEIDS IN AN INVISIBLE CLUSTER BEYOND THE GALACTIC BULGE. Astrophysical Journal Letters, 2015, 799, L11.	8.3	25
76	New RR Lyrae variables in binary systems. Monthly Notices of the Royal Astronomical Society: Letters, 2015, 449, L113-L117.	3.3	31
77	THE ROTATIONAL BEHAVIOR OF KEPLER STARS WITH PLANETS. Astrophysical Journal, 2015, 803, 69.	4.5	39
78	THE ARAUCARIA PROJECT: THE FIRST-OVERTONE CLASSICAL CEPHEID IN THE ECLIPSING SYSTEM OGLE-LMC-CEP-2532. Astrophysical Journal, 2015, 806, 29.	4.5	28
79	VARIABLE STARS IN THE VV GLOBULAR CLUSTERS. I. 2 MASS-GC 02 AND TERZAN 10. Astronomical Journal, 2015, 149, 99.	4.7	57
80	Discovery of $\sim 149000$ new RR Lyrae in the southern Catalina surveys. Monthly Notices of the Royal Astronomical Society, 2015, 446, 2251-2266.	4.4	87
81	The WFCAM multiwavelength Variable Star Catalog. Astronomy and Astrophysics, 2015, 573, A100.	5.1	16
82	Massive open star clusters using the VV survey. Astronomy and Astrophysics, 2014, 564, L9.	5.1	16
83	ULTRA-SHORT PERIOD BINARIES FROM THE CATALINA SURVEYS. Astrophysical Journal, 2014, 790, 157.	4.5	46
84	Symbiotic stars in OGLE data I. Large Magellanic Cloud systems. Monthly Notices of the Royal Astronomical Society, 2014, 438, 35-48.	4.4	14
85	THE CATALINA SURVEYS PERIODIC VARIABLE STAR CATALOG. Astrophysical Journal, Supplement Series, 2014, 213, 9.	7.7	346
86	New galactic star clusters discovered in the VV survey. Candidates projected on the inner disk and bulge. Astronomy and Astrophysics, 2014, 569, A24.	5.1	48
87	The VV Templates Project Towards an automated classification of VV light-curves. Astronomy and Astrophysics, 2014, 567, A100.	5.1	31
88	NEW SUNS IN THE COSMOS?. Astrophysical Journal Letters, 2013, 773, L18.	8.3	13
89	PROBING THE OUTER GALACTIC HALO WITH RR LYRAE FROM THE CATALINA SURVEYS. Astrophysical Journal, 2013, 763, 32.	4.5	197
90	VARIABLE STARS IN THE GLOBULAR CLUSTER NGC 2808. Astronomical Journal, 2013, 145, 33.	4.7	30

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91	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. <i>Astrophysical Journal Letters</i> , 2013, 776, L19.	8.3	129
92	THE RR LYRAE VARIABLES AND HORIZONTAL BRANCH OF NGC 6656 (M22). <i>Astronomical Journal</i> , 2013, 146, 119.	4.7	59
93	THE GLOBULAR CLUSTER NGC 6402 (M14). I. A NEW <i>BV</i> COLOR-MAGNITUDE DIAGRAM. <i>Astronomical Journal</i> , 2013, 146, 57.	4.7	8
94	A near-infrared catalogue of the Galactic novae in the VVV survey area. <i>Astronomy and Astrophysics</i> , 2013, 554, A123.	5.1	21
95	Overview of semi-sinusoidal stellar variability with the CoRoT satellite. <i>Astronomy and Astrophysics</i> , 2013, 555, A63.	5.1	34
96	Particle-physics constraints from the globular cluster M5: neutrino dipole moments. <i>Astronomy and Astrophysics</i> , 2013, 558, A12.	5.1	70
97	Massive open star clusters using the VVV survey. <i>Astronomy and Astrophysics</i> , 2013, 549, A98.	5.1	27
98	UNCLOAKING GLOBULAR CLUSTERS IN THE INNER GALAXY. <i>Astronomical Journal</i> , 2012, 143, 70.	4.7	90
99	Massive open star clusters using the VVV survey. <i>Astronomy and Astrophysics</i> , 2012, 545, A54.	5.1	40
100	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 Via Lactea. <i>Astronomy and Astrophysics</i> , 2012, 537, A107.	5.1	312
101	Structural parameters and blue stragglers in Sagittarius dwarf spheroidal galaxy globular clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 421, 960-970.	4.4	29
102	Milky Way demographics with the VVV survey. <i>Astronomy and Astrophysics</i> , 2012, 544, A147.	5.1	49
103	Three Galactic globular cluster candidates. <i>Astronomy and Astrophysics</i> , 2011, 535, A33.	5.1	57
104	New Galactic star clusters discovered in the VVV survey. <i>Astronomy and Astrophysics</i> , 2011, 532, A131.	5.1	90
105	Discovery of VVACL001. <i>Astronomy and Astrophysics</i> , 2011, 527, A81.	5.1	60
106	Formation of multiple populations in globular clusters: another possible scenario. <i>Astronomy and Astrophysics</i> , 2011, 533, A120.	5.1	70
107	VISTA Variables in the Via Lactea (VVV): The public ESO near-IR variability survey of the Milky Way. <i>New Astronomy</i> , 2010, 15, 433-443.	1.8	698
108	THE GLOBULAR CLUSTER NGC 5286. II. VARIABLE STARS. <i>Astronomical Journal</i> , 2010, 139, 357-371.	4.7	47

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109	TIME-SERIES PHOTOMETRY OF GLOBULAR CLUSTERS: M62 (NGC 6266), THE MOST RR LYRAE-RICH GLOBULAR CLUSTER IN THE GALAXY?. <i>Astronomical Journal</i> , 2010, 140, 1766-1786.	4.7	28
110	THE MASSES OF POPULATION II WHITE DWARFS. <i>Astrophysical Journal</i> , 2009, 705, 408-425.	4.5	107
111	FIRST RESULTS FROM THE CATALINA REAL-TIME TRANSIENT SURVEY. <i>Astrophysical Journal</i> , 2009, 696, 870-884.	4.5	993
112	Properties of RR Lyrae stars in the inner regions of the Large Magellanic Cloud. <i>Astronomy and Astrophysics</i> , 2009, 502, 505-514.	5.1	31
113	Horizontal branch stars: the interplay between observations and theory, and insights into the formation of the Galaxy. <i>Astrophysics and Space Science</i> , 2009, 320, 261-309.	1.4	259
114	Evidence for an Overluminosity of the Variable Star RR Lyrae, and a Revised Distance to the LMC. <i>Astrophysical Journal</i> , 2008, 676, L135-L138.	4.5	56
115	Is a binary fraction-age relation responsible for the lack of EHB binaries in globular clusters?. <i>Astronomy and Astrophysics</i> , 2008, 480, L1-L4.	5.1	26
116	The Period-Luminosity Relation of RR Lyrae Stars in the SDSS Photometric System. <i>Astrophysical Journal</i> , Supplement Series, 2008, 179, 242-248.	7.7	36
117	Image-Subtraction Photometry of Variable Stars in the Globular Clusters NGC 6388 and NGC 6441. <i>Astronomical Journal</i> , 2006, 132, 1014-1022.	4.7	28
118	New Metallicities of RR Lyrae Stars in $\bar{\omega}$ Centauri: Evidence for a Non-He-enhanced Metal-intermediate Population. <i>Astrophysical Journal</i> , 2006, 640, L43-L46.	4.5	50
119	Discovery of More than 200 RR Lyrae Variables in M62: An Oosterhoff I Globular Cluster with a Predominantly Blue Horizontal Branch. <i>Astrophysical Journal</i> , 2005, 623, L117-L120.	4.5	25
120	Searching for merger debris in the Galactic halo: chemodynamical evidence based on local blue HB stars. <i>Astronomy and Astrophysics</i> , 2005, 439, L5-L8.	5.1	14
121	Discovery of a variable star population in NGC 2808. <i>Astronomy and Astrophysics</i> , 2004, 421, 667-672.	5.1	18
122	The Evolutionary Status of M3 RR Lyrae Variable Stars: Breakdown of the Canonical Framework?. <i>Astrophysical Journal</i> , 2004, 600, 409-418.	4.5	51
123	The RR Lyrae Period-Luminosity Relation. I. Theoretical Calibration. <i>Astrophysical Journal</i> , Supplement Series, 2004, 154, 633-649.	7.7	207
124	M75, A Globular Cluster with a Trimodal Horizontal Branch. II. BV Photometry of the RR Lyrae Variables. <i>Astronomical Journal</i> , 2003, 125, 2543-2558.	4.7	20
125	Variable Stars in the Unusual, Metal-rich Globular Cluster NGC 6388. <i>Astronomical Journal</i> , 2002, 124, 949-976.	4.7	81
126	Variable Stars in the Unusual, Metal-rich, Globular Cluster NGC 6441. <i>Astronomical Journal</i> , 2001, 122, 2600-2626.	4.7	62



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127	RR Lyrae Stars in NGC 6388 and NGC 6441: A New Oosterhoff Group?. <i>Astrophysical Journal</i> , 2000, 530, L41-L44.	4.5	64
128	Age differences between old stellar populations from the HB morphology-metallicity diagram. <i>Astronomical Journal</i> , 1993, 106, 1858.	4.7	29