

# Vinicius M Placco

## List of Publications by Citations

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105  
papers

4,952  
citations

33  
h-index

69  
g-index

114  
ext. papers

6,190  
ext. citations

5.2  
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5.09  
L-index

#	Paper	IF	Citations
105	Multi-messenger Observations of a Binary Neutron Star Merger. <i>Astrophysical Journal Letters</i> , <b>2017</b> , 848, L12	7.9	1935
104	CARBON-ENHANCED METAL-POOR STAR FREQUENCIES IN THE GALAXY: CORRECTIONS FOR THE EFFECT OF EVOLUTIONARY STATUS ON CARBON ABUNDANCES. <i>Astrophysical Journal</i> , <b>2014</b> , 797, 21	4.7	181
103	Early spectra of the gravitational wave source GW170817: Evolution of a neutron star merger. <i>Science</i> , <b>2017</b> , 358, 1574-1578	33.3	170
102	The case for electron re-acceleration at galaxy cluster shocks. <i>Nature Astronomy</i> , <b>2017</b> , 1,	12.1	114
101	CARBON-ENHANCED METAL-POOR STARS IN SDSS/SEGUE. I. CARBON ABUNDANCE ESTIMATION AND FREQUENCY OF CEMP STARS. <i>Astronomical Journal</i> , <b>2013</b> , 146, 132	4.9	107
100	OBSERVATIONAL CONSTRAINTS ON FIRST-STAR NUCLEOSYNTHESIS. I. EVIDENCE FOR MULTIPLE PROGENITORS OF CEMP-NO STARS. <i>Astrophysical Journal</i> , <b>2016</b> , 833, 20	4.7	103
99	AN ELEMENTAL ASSAY OF VERY, EXTREMELY, AND ULTRA-METAL-POOR STARS. <i>Astrophysical Journal</i> , <b>2015</b> , 807, 173	4.7	85
98	The role of binaries in the enrichment of the early Galactic halo. <i>Astronomy and Astrophysics</i> , <b>2016</b> , 588, A3	5.1	85
97	The R-process Alliance: First Release from the Southern Search for R-process-enhanced Stars in the Galactic Halo. <i>Astrophysical Journal</i> , <b>2018</b> , 858, 92	4.7	76
96	Observations of the First Electromagnetic Counterpart to a Gravitational-wave Source by the TOROS Collaboration. <i>Astrophysical Journal Letters</i> , <b>2017</b> , 848, L29	7.9	69
95	EXPLORING THE ORIGIN OF LITHIUM, CARBON, STRONTIUM, AND BARIUM WITH FOUR NEW ULTRA METAL-POOR STARS. <i>Astrophysical Journal</i> , <b>2014</b> , 787, 162	4.7	60
94	J-PLUS: The Javalambre Photometric Local Universe Survey. <i>Astronomy and Astrophysics</i> , <b>2019</b> , 622, A176	6.1	59
93	The role of binaries in the enrichment of the early Galactic halo. <i>Astronomy and Astrophysics</i> , <b>2016</b> , 586, A160	5.1	59
92	The R-Process Alliance: First Release from the Northern Search for r-process-enhanced Metal-poor Stars in the Galactic Halo. <i>Astrophysical Journal</i> , <b>2018</b> , 868, 110	4.7	58
91	APOGEE Chemical Abundances of the Sagittarius Dwarf Galaxy. <i>Astrophysical Journal</i> , <b>2017</b> , 845, 162	4.7	57
90	SD 13130019: ANOTHER SECOND-GENERATION STAR WITH $[Fe/H] = 8.0$ , OBSERVED WITH THE MAGELLAN TELESCOPE. <i>Astrophysical Journal Letters</i> , <b>2015</b> , 810, L27	7.9	57
89	CARBON-ENHANCED METAL-POOR STARS: CEMP-s and CEMP-no SUBCLASSES IN THE HALO SYSTEM OF THE MILKY WAY. <i>Astrophysical Journal</i> , <b>2014</b> , 788, 180	4.7	57

88	POPULATION STUDIES. XIII. A NEW ANALYSIS OF THE BIDELMAN-MACCONNELL WEAK-METAL STARS: CONFIRMATION OF METAL-POOR STARS IN THE THICK DISK OF THE GALAXY. <i>Astrophysical Journal</i> , <b>2014</b> , 794, 58	4.7	55
87	Atypical Mg-poor Milky Way Field Stars with Globular Cluster Second-generation-like Chemical Patterns. <i>Astrophysical Journal Letters</i> , <b>2017</b> , 846, L2	7.9	54
86	Radioactive Ion beams in Brazil (RIBRAS)?. <i>European Physical Journal A</i> , <b>2005</b> , 25, 733-736	2.5	52
85	METAL-POOR STARS OBSERVED WITH THE MAGELLAN TELESCOPE. I. CONSTRAINTS ON PROGENITOR MASS AND METALLICITY OF AGB STARS UNDERGOING s-PROCESS NUCLEOSYNTHESIS. <i>Astrophysical Journal</i> , <b>2013</b> , 770, 104	4.7	49
84	Dynamical Relics of the Ancient Galactic Halo. <i>Astrophysical Journal</i> , <b>2020</b> , 891, 39	4.7	49
83	OBSERVATIONAL CONSTRAINTS ON FIRST-STAR NUCLEOSYNTHESIS. II. SPECTROSCOPY OF AN ULTRA METAL-POOR CEMP-no STAR. <i>Astrophysical Journal</i> , <b>2016</b> , 833, 21	4.7	46
82	METAL-POOR STARS OBSERVED WITH THE MAGELLAN TELESCOPE. III. NEW EXTREMELY AND ULTRA METAL-POOR STARS FROM SDSS/SEGUE AND INSIGHTS ON THE FORMATION OF ULTRA METAL-POOR STARS. <i>Astrophysical Journal</i> , <b>2015</b> , 809, 136	4.7	45
81	THE FRACTIONS OF INNER- AND OUTER-HALO STARS IN THE LOCAL VOLUME. <i>Astrophysical Journal Letters</i> , <b>2015</b> , 813, L28	7.9	45
80	METAL-POOR STARS OBSERVED WITH THE MAGELLAN TELESCOPE. II. DISCOVERY OF FOUR STARS WITH $[Fe/H] \approx -5$ . <i>Astrophysical Journal</i> , <b>2014</b> , 781, 40	4.7	42
79	The R-Process Alliance: 2MASS J09544277+5246414, the Most Actinide-enhanced R-II Star Known. <i>Astrophysical Journal Letters</i> , <b>2018</b> , 859, L24	7.9	40
78	The Southern Photometric Local Universe Survey (S-PLUS): improved SEDs, morphologies, and redshifts with 12 optical filters. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2019</b> , 489, 241-267	4.3	36
77	BRIGHT METAL-POOR STARS FROM THE HAMBURG/ESO SURVEY. II. A CHEMODYNAMICAL ANALYSIS. <i>Astrophysical Journal</i> , <b>2017</b> , 835, 81	4.7	35
76	On-sky commissioning of Hamamatsu CCDs in GMOS-S <b>2016</b> ,		35
75	RAVE J203843.2-02333: The First Highly R-process-enhanced Star Identified in the RAVE Survey. <i>Astrophysical Journal</i> , <b>2017</b> , 844, 18	4.7	35
74	Abundances of carbon-enhanced metal-poor stars as constraints on their formation. <i>Astronomy and Astrophysics</i> , <b>2016</b> , 588, A37	5.1	35
73	Galactic Archeology with the AEGIS Survey: The Evolution of Carbon and Iron in the Galactic Halo. <i>Astrophysical Journal</i> , <b>2018</b> , 861, 146	4.7	34
72	HUBBLE SPACE TELESCOPE NEAR-ULTRAVIOLET SPECTROSCOPY OF THE BRIGHT CEMP-NO STAR BD+44°493. <i>Astrophysical Journal</i> , <b>2014</b> , 790, 34	4.7	32
71	IDENTIFICATION OF NEODYMIUM IN THE APOGEE H-BAND SPECTRA. <i>Astrophysical Journal</i> , <b>2016</b> , 833, 81	4.7	32

70	The age structure of the Milky Way's halo. <i>Nature Physics</i> , <b>2016</b> , 12, 1170-1176	16.2	32
69	Evidence for an Aspherical Population III Supernova Explosion Inferred from the Hyper-metal-poor Star HE 1327-326. <i>Astrophysical Journal</i> , <b>2019</b> , 876, 97	4.7	31
68	G64-12 AND G64-37 ARE CARBON-ENHANCED METAL-POOR STARS. <i>Astrophysical Journal Letters</i> , <b>2016</b> , 829, L24	7.9	31
67	The r -process Pattern of a Bright, Highly r -process-enhanced Metal-poor Halo Star at $[\text{Fe}/\text{H}] \sim -2$ . <i>Astrophysical Journal Letters</i> , <b>2018</b> , 854, L20	7.9	29
66	SEARCHES FOR METAL-POOR STARS FROM THE HAMBURG/ESO SURVEY USING THE CHGBAND. <i>Astronomical Journal</i> , <b>2011</b> , 142, 188	4.9	29
65	Abundances and kinematics of carbon-enhanced metal-poor stars in the Galactic halo. <i>Astronomy and Astrophysics</i> , <b>2019</b> , 623, A128	5.1	27
64	HUBBLE SPACE TELESCOPE NEAR-ULTRAVIOLET SPECTROSCOPY OF BRIGHT CEMP-s STARS. <i>Astrophysical Journal</i> , <b>2015</b> , 812, 109	4.7	26
63	The R-Process Alliance: A Comprehensive Abundance Analysis of HD 222925, a Metal-poor Star with an Extreme R-process Enhancement of $[\text{Eu}/\text{H}] = 0.14$ . <i>Astrophysical Journal</i> , <b>2018</b> , 865, 129	4.7	26
62	Constraining cosmic scatter in the Galactic halo through a differential analysis of metal-poor stars. <i>Astronomy and Astrophysics</i> , <b>2017</b> , 608, A46	5.1	25
61	Chemical Cartography. I. A Carbonicity Map of the Galactic Halo. <i>Astrophysical Journal</i> , <b>2017</b> , 836, 91	4.7	24
60	CHRONOGRAPHY OF THE MILKY WAY'S HALO SYSTEM WITH FIELD BLUE HORIZONTAL-BRANCH STARS. <i>Astrophysical Journal Letters</i> , <b>2015</b> , 813, L16	7.9	23
59	The R-Process Alliance: Fourth Data Release from the Search for R-process-enhanced Stars in the Galactic Halo. <i>Astrophysical Journal, Supplement Series</i> , <b>2020</b> , 249, 30	8	23
58	J-PLUS: Identification of low-metallicity stars with artificial neural networks using SPHINX. <i>Astronomy and Astrophysics</i> , <b>2019</b> , 622, A182	5.1	22
57	DETECTION OF PHOSPHORUS, SULPHUR, AND ZINC IN THE CARBON-ENHANCED METAL-POOR STAR BD+44 493. <i>Astrophysical Journal Letters</i> , <b>2016</b> , 824, L19	7.9	22
56	Discovery of a New Stellar Subpopulation Residing in the (Inner) Stellar Halo of the Milky Way. <i>Astrophysical Journal Letters</i> , <b>2019</b> , 886, L8	7.9	22
55	THE CHEMICAL ABUNDANCES OF STARS IN THE HALO (CASH) PROJECT. III. A NEW CLASSIFICATION SCHEME FOR CARBON-ENHANCED METAL-POOR STARS WITH s-PROCESS ELEMENT ENHANCEMENT. <i>Astrophysical Journal</i> , <b>2015</b> , 814, 121	4.7	22
54	$[\text{O}/\text{Fe}]$ ESTIMATES FOR CARBON-ENHANCED METAL-POOR STARS FROM NEAR-INFRARED SPECTROSCOPY. <i>Astronomical Journal</i> , <b>2011</b> , 141, 102	4.9	22
53	Spectroscopic Validation of Low-metallicity Stars from RAVE. <i>Astronomical Journal</i> , <b>2018</b> , 155, 256	4.9	21

52	The R-Process Alliance: First Magellan/MIKE Release from the Southern Search for R-process-enhanced Stars. <i>Astrophysical Journal</i> , <b>2020</b> , 898, 150	4-7	21
51	THE FREQUENCY OF FIELD BLUE-STRAGGLER STARS IN THE THICK DISK AND HALO SYSTEM OF THE GALAXY. <i>Astrophysical Journal</i> , <b>2015</b> , 801, 116	4-7	19
50	2MASS J18082002B104378: The brightest (V= 11.9) ultra metal-poor star. <i>Astronomy and Astrophysics</i> , <b>2016</b> , 585, L5	5-1	19
49	Dynamically Tagged Groups of Very Metal-poor Halo Stars from the HK and Hamburg/ESO Surveys. <i>Astrophysical Journal</i> , <b>2021</b> , 907, 10	4-7	18
48	A SEARCH FOR UNRECOGNIZED CARBON-ENHANCED METAL-POOR STARS IN THE GALAXY. <i>Astronomical Journal</i> , <b>2010</b> , 139, 1051-1065	4-9	17
47	The R-Process Alliance: Discovery of the First Metal-poor Star with a Combined r- and s-process Element Signature. <i>Astrophysical Journal</i> , <b>2018</b> , 862, 174	4-7	16
46	GRACES: Gemini remote access to CFHT ESPaDOnS spectrograph through the longest astronomical fiber ever made: experimental phase completed <b>2014</b> ,		16
45	J-PLUS: Morphological star/galaxy classification by PDF analysis. <i>Astronomy and Astrophysics</i> , <b>2019</b> , 622, A177	5-1	15
44	The R-Process Alliance: Chemodynamically Tagged Groups of Halo r-process-enhanced Stars Reveal a Shared Chemical-evolution History. <i>Astrophysical Journal</i> , <b>2021</b> , 908, 79	4-7	15
43	J-PLUS: photometric calibration of large-area multi-filter surveys with stellar and white dwarf loci. <i>Astronomy and Astrophysics</i> , <b>2019</b> , 631, A119	5-1	14
42	Metal-poor Stars Observed with the Automated Planet Finder Telescope. I. Discovery of Five Carbon-enhanced Metal-poor Stars from LAMOST. <i>Astrophysical Journal</i> , <b>2019</b> , 875, 89	4-7	13
41	Metal-poor Stars Observed with the Automated Planet Finder Telescope. II. Chemodynamical Analysis of Six Low-metallicity Stars in the Halo System of the Milky Way. <i>Astrophysical Journal</i> , <b>2019</b> , 882, 27	4-7	13
40	The enigmatic globular cluster UKS 1 obscured by the bulge: H-band discovery of nitrogen-enhanced stars. <i>Astronomy and Astrophysics</i> , <b>2020</b> , 643, A145	5-1	12
39	Discovery of a nitrogen-enhanced mildly metal-poor binary system: Possible evidence for pollution from an extinct AGB star. <i>Astronomy and Astrophysics</i> , <b>2019</b> , 631, A97	5-1	12
38	The miniJPAS survey: star-galaxy classification using machine learning. <i>Astronomy and Astrophysics</i> , <b>2021</b> , 645, A87	5-1	12
37	The R-Process Alliance: Chemical Abundances for a Trio of r-process-enhanced Stars One Strong, One Moderate, and One Mild. <i>Astrophysical Journal</i> , <b>2018</b> , 864, 43	4-7	12
36	The R-Process Alliance: Discovery of a Low- $\alpha$ -r-process-enhanced Metal-poor Star in the Galactic Halo. <i>Astrophysical Journal</i> , <b>2019</b> , 874, 148	4-7	11
35	The R-Process Alliance: Spectroscopic Follow-up of Low-metallicity Star Candidates from the Best & Brightest Survey. <i>Astrophysical Journal</i> , <b>2019</b> , 870, 122	4-7	11

34	The miniJPAS survey: A preview of the Universe in 56 colors. <i>Astronomy and Astrophysics</i> , <b>2021</b> , 653, A315.1	11
33	Identification of a Group III CEMP-no Star in the Dwarf Spheroidal Galaxy Canes Venatici I. <i>Astrophysical Journal</i> , <b>2020</b> , 894, 7	4.7 10
32	The R-process Alliance: The Peculiar Chemical Abundance Pattern of RAVE J183013.5455510. <i>Astrophysical Journal</i> , <b>2020</b> , 897, 78	4.7 10
31	SEVEN NEW CARBON-ENHANCED METAL-POOR RR LYRAE STARS. <i>Astrophysical Journal</i> , <b>2014</b> , 787, 6	4.7 9
30	Discovery of a Large Population of Nitrogen-enhanced Stars in the Magellanic Clouds. <i>Astrophysical Journal Letters</i> , <b>2020</b> , 903, L17	7.9 8
29	APOGEE discovery of a chemically atypical star disrupted from NGC 6723 and captured by the Milky Way bulge. <i>Astronomy and Astrophysics</i> , <b>2021</b> , 647, A64	5.1 8
28	Linemake: An Atomic and Molecular Line List Generator. <i>Research Notes of the AAS</i> , <b>2021</b> , 5, 92	0.8 8
27	Constraints on the Galactic Inner Halo Assembly History from the Age Gradient of Blue Horizontal-branch Stars. <i>Astrophysical Journal</i> , <b>2019</b> , 884, 67	4.7 8
26	Detection of Pb II in the Ultraviolet Spectra of Three Metal-poor Stars. <i>Astrophysical Journal Letters</i> , <b>2020</b> , 902, L24	7.9 7
25	The Metallicity Gradient and Complex Formation History of the Outermost Halo of the Milky Way. <i>Astrophysical Journal</i> , <b>2020</b> , 894, 34	4.7 5
24	Assessing the photometric redshift precision of the S-PLUS survey: the Stripe-82 as a test-case. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2020</b> , 499, 3884-3908	4.3 5
23	Chandra Observations of the Spectacular A341112 Merger Event. <i>Astrophysical Journal</i> , <b>2019</b> , 887, 31	4.7 5
22	Targeting Bright Metal-poor Stars in the Disk and Halo Systems of the Galaxy. <i>Astrophysical Journal</i> , <b>2021</b> , 913, 11	4.7 5
21	The Pristine Inner Galaxy Survey (PIGS) III: carbon-enhanced metal-poor stars in the bulge. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2021</b> , 505, 1239-1253	4.3 5
20	The Photometric Metallicity and Carbon Distributions of the Milky Way Halo and Solar Neighborhood from S-PLUS Observations of SDSS Stripe 82. <i>Astrophysical Journal</i> , <b>2021</b> , 912, 147	4.7 5
19	The Origin of the 300 km s <sup>-1</sup> Stream near Segue 1. <i>Astrophysical Journal</i> , <b>2018</b> , 866, 42	4.7 5
18	Carbon-enhanced metal-poor stars in the SDSS/APOGEE data base. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2017</b> , 471, 404-421	4.3 4
17	AUTOMATED DETERMINATION OF [Fe/H] AND [C/Fe] FROM LOW-RESOLUTION SPECTROSCOPY. <i>Astronomical Journal</i> , <b>2009</b> , 138, 533-539	4.9 4

16	Dynamically Tagged Groups of Metal-poor Stars from the Best and Brightest Survey. <i>Astrophysical Journal</i> , <b>2022</b> , 926, 26	4-7	4
15	The R-Process Alliance: A Very Metal-poor, Extremely r-process-enhanced Star with $[\text{Eu}/\text{Fe}] = +2.2$ , and the Class of r-III Stars. <i>Astrophysical Journal</i> , <b>2020</b> , 898, 40	4-7	4
14	Metal-poor Stars Observed with the Southern African Large Telescope. <i>Astrophysical Journal</i> , <b>2020</b> , 905, 20	4-7	4
13	SPLUS J210428.01004934.2: An Ultra Metal-poor Star Identified from Narrowband Photometry*. <i>Astrophysical Journal Letters</i> , <b>2021</b> , 912, L32	7-9	3
12	Cosmological Insights into the Early Accretion of r-process-enhanced Stars. I. A Comprehensive Chemodynamical Analysis of LAMOST J1109+0754. <i>Astrophysical Journal</i> , <b>2020</b> , 903, 88	4-7	2
11	Two Populations of Carbon-enhanced Metal-poor Stars in the Disk System of the Milky Way. <i>Astrophysical Journal</i> , <b>2021</b> , 914, 100	4-7	2
10	J-PLUS: Systematic impact of metallicity on photometric calibration with the stellar locus. <i>Astronomy and Astrophysics</i> ,	5-1	2
9	New Highly r-Process-Enhanced Halo Stars. <i>Proceedings of the International Astronomical Union</i> , <b>2017</b> , 13, 277-278	0-1	1
8	Metal-poor Stars Observed with the Southern African Large Telescope II. An Extended Sample. <i>Astrophysical Journal</i> , <b>2022</b> , 927, 13	4-7	0
7	Lifting the Veil on Ultra Metal-Poor Stars in the Outermost Halo. <i>Proceedings of the International Astronomical Union</i> , <b>2017</b> , 13, 389-390	0-1	
6	Probing Galactic Chemical Evolution with J-PLUS Photometry. <i>Proceedings of the International Astronomical Union</i> , <b>2017</b> , 13, 383-384	0-1	
5	Measurement of $[\text{Fe}/\text{H}]$ and $[\text{C}/\text{Fe}]$ for Metal-Poor Stars from the RAVE Survey. <i>Proceedings of the International Astronomical Union</i> , <b>2017</b> , 13, 353-354	0-1	
4	Kinematic and Chemical Analysis of AEGIS Survey Stars. <i>Proceedings of the International Astronomical Union</i> , <b>2017</b> , 13, 283-284	0-1	
3	Abundance Patterns Among Very Metal-Poor Stars in the Halo of the Galaxy: A Statistical Approach. <i>Proceedings of the International Astronomical Union</i> , <b>2009</b> , 5, 412-413	0-1	
2	A Search for Unrecognized Carbon-Enhanced Metal-Poor Stars. <i>Proceedings of the International Astronomical Union</i> , <b>2009</b> , 5, 132-133	0-1	
1	Near-IR Spectroscopy of CEMP Stars with SOAR/OSIRIS. <i>Proceedings of the International Astronomical Union</i> , <b>2009</b> , 5, 126-127	0-1	