

Anna Katherina Vivas

List of Publications by Citations

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93
papers

4,282
citations

31
h-index

64
g-index

95
ext. papers

5,047
ext. citations

5.3
avg, IF

4.73
L-index

#	Paper	IF	Citations
93	The Electromagnetic Counterpart of the Binary Neutron Star Merger LIGO/Virgo GW170817. II. UV, Optical, and Near-infrared Light Curves and Comparison to Kilonova Models. <i>Astrophysical Journal Letters</i> , 2017 , 848, L17	7.9	468
92	Overview of the DESI Legacy Imaging Surveys. <i>Astronomical Journal</i> , 2019 , 157, 168	4.9	363
91	A Spitzer Space Telescope Study of Disks in the Young ρ Orionis Cluster. <i>Astrophysical Journal</i> , 2007 , 662, 1067-1081	4.7	360
90	The Dark Energy Survey: Data Release 1. <i>Astrophysical Journal, Supplement Series</i> , 2018 , 239, 18	8	313
89	The QUEST RR Lyrae Survey: Confirmation of the Clump at 50 Kiloparsecs and Other Overdensities in the Outer Halo. <i>Astrophysical Journal</i> , 2001 , 554, L33-L36	4.7	174
88	Stellar Streams Discovered in the Dark Energy Survey. <i>Astrophysical Journal</i> , 2018 , 862, 114	4.7	141
87	Spitzer Observations of the Orion OB1 Association: Disk Census in the Low-Mass Stars. <i>Astrophysical Journal</i> , 2007 , 671, 1784-1799	4.7	137
86	The QUEST RR Lyrae Survey. II. The Halo Overdensities in the First Catalog. <i>Astronomical Journal</i> , 2006 , 132, 714-728	4.9	132
85	Spectroscopy of QUEST RR Lyrae Variables: The New Virgo Stellar Stream. <i>Astrophysical Journal</i> , 2006 , 636, L97-L100	4.7	120
84	HYDRA II: A FAINT AND COMPACT MILKY WAY DWARF GALAXY FOUND IN THE SURVEY OF THE MAGELLANIC STELLAR HISTORY. <i>Astrophysical Journal Letters</i> , 2015 , 804, L5	7.9	119
83	The CIDA Variability Survey of Orion OB1. I. The Low-Mass Population of Ori OB1a and 1b. <i>Astronomical Journal</i> , 2005 , 129, 907-926	4.9	109
82	The CIDA-QUEST large-scale survey of Orion OB1: evidence for rapid disk dissipation in a dispersed stellar population. <i>Science</i> , 2001 , 291, 93-6	33.3	106
81	The QUEST RR Lyrae Survey. I. The First Catalog. <i>Astronomical Journal</i> , 2004 , 127, 1158-1175	4.9	89
80	25 Orionis: A Kinematically Distinct 10 Myr Old Group in Orion OB1a. <i>Astrophysical Journal</i> , 2007 , 661, 1119-1128	4.7	84
79	Discovery of two neighbouring satellites in the Carina constellation with MagLiteS. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 475, 5085-5097	4.3	78
78	The Selection of RR Lyrae Stars Using Single-Epoch Data. <i>Astronomical Journal</i> , 2005 , 129, 1096-1108	4.9	64
77	M c Neil's Nebula in Orion: The Outburst History. <i>Astrophysical Journal</i> , 2004 , 606, L123-L126	4.7	60

76	SMASH: Survey of the MAgellanic Stellar History. <i>Astronomical Journal</i> , 2017 , 154, 199	4.9	59
75	LA SILLA QUEST RR LYRAE STAR SURVEY: REGION I. <i>Astrophysical Journal</i> , 2014 , 781, 22	4.7	54
74	VLT Spectroscopy of RR Lyrae Stars in the Sagittarius Tidal Stream. <i>Astronomical Journal</i> , 2005 , 129, 189-200	4.9	50
73	SPECTROSCOPY OF BRIGHT QUEST RR LYRAE STARS: VELOCITY SUBSTRUCTURES TOWARD VIRGO. <i>Astronomical Journal</i> , 2008 , 136, 1645-1657	4.9	47
72	The southern stellar stream spectroscopic survey (S5): Overview, target selection, data reduction, validation, and early science. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019 , 490, 3508-3531	4.3	44
71	The First Tidally Disrupted Ultra-faint Dwarf Galaxy?: A Spectroscopic Analysis of the Tucana III Stream. <i>Astrophysical Journal</i> , 2018 , 866, 22	4.7	43
70	SMASHing the LMC: A Tidally Induced Warp in the Outer LMC and a Large-scale Reddening Map. <i>Astrophysical Journal</i> , 2018 , 866, 90	4.7	42
69	PROPER MOTIONS IN KAPTEYN SELECTED AREA 103: A PRELIMINARY ORBIT FOR THE VIRGO STELLAR STREAM. <i>Astrophysical Journal</i> , 2009 , 701, L29-L33	4.7	39
68	Ships Passing in the Night: Spectroscopic Analysis of Two Ultra-faint Satellites in the Constellation Carina. <i>Astrophysical Journal</i> , 2018 , 857, 145	4.7	38
67	NO EXCESS OF RR LYRAE STARS IN THE CANIS MAJOR OVERDENSITY. <i>Astronomical Journal</i> , 2009 , 137, 4412-4423	4.9	35
66	VARIABLE STARS IN THE FIELD OF THE HYDRA II ULTRA-FAINT DWARF GALAXY. <i>Astronomical Journal</i> , 2016 , 151, 118	4.9	32
65	A comprehensive view of the Virgo stellar stream. <i>Astronomy and Astrophysics</i> , 2014 , 566, A118	5.1	32
64	THE HIGH CADENCE TRANSIENT SURVEY (HITS). I. SURVEY DESIGN AND SUPERNOVA SHOCK BREAKOUT CONSTRAINTS. <i>Astrophysical Journal</i> , 2016 , 832, 155	4.7	32
63	Modelling the Tucana III stream $\bar{\alpha}$ close passage with the LMC. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 ,	4.3	32
62	The Dark Energy Survey view of the Sagittarius stream: discovery of two faint stellar system candidates. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017 , 468, 97-108	4.3	31
61	The QUEST RR Lyrae Survey - III. The low Galactic latitude catalogue. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012 , 427, 3374-3395	4.3	29
60	DISCOVERY OF A STELLAR OVERDENSITY IN ERIDANUS/PHOENIX IN THE DARK ENERGY SURVEY. <i>Astrophysical Journal</i> , 2016 , 817, 135	4.7	29
59	The CIDA Variability Survey of Orion OB1. II. Demographics of the Young, Low-mass Stellar Populations. <i>Astronomical Journal</i> , 2019 , 157, 85	4.9	28

58	Searching for tidal tails around Centauri using RR Lyrae stars. <i>Astronomy and Astrophysics</i> , 2015 , 574, A15	5.1	28
57	Exploring the Very Extended Low-surface-brightness Stellar Populations of the Large Magellanic Cloud with SMASH. <i>Astrophysical Journal</i> , 2019 , 874, 118	4.7	27
56	Two Ultra-faint Milky Way Stellar Systems Discovered in Early Data from the DECam Local Volume Exploration Survey. <i>Astrophysical Journal</i> , 2020 , 890, 136	4.7	26
55	Discovery of Distant RR Lyrae Stars in the Milky Way Using DECam. <i>Astrophysical Journal</i> , 2018 , 855, 43	4.7	26
54	The Galactic thick disc density profile traced with RR Lyrae stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 479, 211-227	4.3	24
53	A COMPREHENSIVE, WIDE-FIELD STUDY OF PULSATING STARS IN THE CARINA DWARF SPHEROIDAL GALAXY. <i>Astronomical Journal</i> , 2013 , 146, 141	4.9	22
52	A Large-Area CCD Camera for the Schmidt Telescope at the Venezuelan National Astronomical Observatory. <i>Publications of the Astronomical Society of the Pacific</i> , 2002 , 114, 780-794	5	22
51	SMASH 1: A VERY FAINT GLOBULAR CLUSTER DISRUPTING IN THE OUTER REACHES OF THE LMC?. <i>Astrophysical Journal Letters</i> , 2016 , 830, L10	7.9	22
50	HALO VELOCITY GROUPS IN THE PISCES OVERDENSITY. <i>Astrophysical Journal</i> , 2010 , 717, 133-139	4.7	21
49	SMASHing the LMC: Mapping a Ring-like Stellar Overdensity in the LMC Disk. <i>Astrophysical Journal</i> , 2018 , 869, 125	4.7	21
48	Search for RR Lyrae stars in DES ultrafaint systems: Grus α , Kim α , Phoenix α , and Grus β . <i>Monthly Notices of the Royal Astronomical Society</i> , 2019 , 490, 2183-2199	4.3	20
47	The low-mass star and sub-stellar populations of the 25 Orionis group. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014 , 444, 1793-1811	4.3	20
46	Reddening-independent quasar selection from a wide-field optical and near-infrared imaging survey. <i>Monthly Notices of the Royal Astronomical Society</i> , 2002 , 337, 1153-1162	4.3	20
45	Serendipitous Discovery of RR Lyrae Stars in the Leo V Ultra-faint Galaxy. <i>Astrophysical Journal Letters</i> , 2017 , 845, L10	7.9	18
44	New Quasars Detected via Variability in the QUEST1 Survey. <i>Astrophysical Journal</i> , 2004 , 606, 741-748	4.7	18
43	The Morphology and Structure of Stellar Populations in the Fornax Dwarf Spheroidal Galaxy from Dark Energy Survey Data. <i>Astrophysical Journal</i> , 2019 , 881, 118	4.7	18
42	DISENTANGLING THE VIRGO OVERDENSITY WITH RR LYRAE STARS. <i>Astrophysical Journal</i> , 2016 , 831, 165	4.7	16
41	Constraints on the Physical Properties of GW190814 through Simulations Based on DECam Follow-up Observations by the Dark Energy Survey. <i>Astrophysical Journal</i> , 2020 , 901, 83	4.7	16

40	Gaia RR Lyrae Stars in Nearby Ultra-faint Dwarf Satellite Galaxies. <i>Astrophysical Journal, Supplement Series</i> , 2020 , 247, 35	8	15
39	Absolute Magnitudes and Colors of RR Lyrae Stars in DECam Passbands from Photometry of the Globular Cluster M5. <i>Astronomical Journal</i> , 2017 , 154, 85	4.9	14
38	Mapping the Interstellar Reddening and Extinction toward Baade's Window Using Minimum Light Colors of ab-type RR Lyrae Stars: Revelations from the De-reddened Color-Magnitude Diagrams. <i>Astrophysical Journal</i> , 2019 , 874, 30	4.7	13
37	Detailed Abundances in the Ultra-faint Magellanic Satellites Carina II and III. <i>Astrophysical Journal</i> , 2020 , 889, 27	4.7	13
36	Identification of RR Lyrae Stars in Multiband, Sparsely Sampled Data from the Dark Energy Survey Using Template Fitting and Random Forest Classification. <i>Astronomical Journal</i> , 2019 , 158, 16	4.9	12
35	A Search for Optical Emission from Binary Black Hole Merger GW170814 with the Dark Energy Camera. <i>Astrophysical Journal Letters</i> , 2019 , 873, L24	7.9	12
34	A Hybrid Algorithm for Period Analysis from Multiband Data with Sparse and Irregular Sampling for Arbitrary Light-curve Shapes. <i>Astronomical Journal</i> , 2017 , 154, 231	4.9	12
33	SMASHing the low surface brightness SMC. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 498, 1034-1049	4.3	12
32	A Photometric Study of the Outer Halo Globular Cluster NGC 5824. <i>Astronomical Journal</i> , 2017 , 154, 8	4.9	11
31	A DECam view of the diffuse dwarf galaxy Crater II. Variable stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 492, 1061-1077	4.3	11
30	THE OVERLOOKED ROLE OF STELLAR VARIABILITY IN THE EXTENDED MAIN SEQUENCE OF LMC INTERMEDIATE-AGE CLUSTERS. <i>Astrophysical Journal Letters</i> , 2016 , 832, L14	7.9	10
29	The Large Magellanic Cloud stellar content with SMASH. <i>Astronomy and Astrophysics</i> , 2020 , 639, L3	5.1	10
28	Discovery of an Ultra-faint Stellar System near the Magellanic Clouds with the DECam Local Volume Exploration Survey. <i>Astrophysical Journal</i> , 2021 , 910, 18	4.7	10
27	The Population of Pulsating Variable Stars in the Sextans Dwarf Spheroidal Galaxy. <i>Astronomical Journal</i> , 2019 , 157, 35	4.9	10
26	The Second Data Release of the Survey of the Magellanic Stellar History (SMASH). <i>Astronomical Journal</i> , 2021 , 161, 74	4.9	10
25	The DECam Local Volume Exploration Survey: Overview and First Data Release. <i>Astrophysical Journal, Supplement Series</i> , 2021 , 256, 2	8	10
24	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	8	9
23	Nature of a shell of young stars in the outskirts of the Small Magellanic Cloud. <i>Astronomy and Astrophysics</i> , 2019 , 631, A98	5.1	9

22	System initial mass function of the 25 Ori group from planetary-mass objects to intermediate/high-mass stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019 , 486, 1718-1740	4.3	8
21	Stellar Variability at the Main-sequence Turnoff of the Intermediate-age LMC Cluster NGC 1846. <i>Astronomical Journal</i> , 2018 , 155, 183	4.9	8
20	Variable stars in local group galaxies IV. RR Lyrae stars in the central regions of the low-density galaxy Crater II. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 479, 4279-4291	4.3	8
19	Identifying RR Lyrae Variable Stars in Six Years of the Dark Energy Survey. <i>Astrophysical Journal</i> , 2021 , 911, 109	4.7	7
18	A Classification Algorithm for Time-domain Novelties in Preparation for LSST Alerts. Application to Variable Stars and Transients Detected with DECam in the Galactic Bulge. <i>Astrophysical Journal</i> , 2020 , 892, 112	4.7	6
17	A DECam Search for Explosive Optical Transients Associated with IceCube Neutrino Alerts. <i>Astrophysical Journal</i> , 2019 , 883, 125	4.7	6
16	A DECam view of the diffuse dwarf galaxy Crater II: the colour-magnitude diagram. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019 , 490, 4121-4132	4.3	5
15	The intrinsic reddening of the Magellanic Clouds as traced by background galaxies III. The Small Magellanic Cloud. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 499, 993-1004	4.3	5
14	Blanco DECam Bulge Survey (BDBS) II: project performance, data analysis, and early science results. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 499, 2357-2379	4.3	5
13	THE ROTATION PERIOD DISTRIBUTIONS OF 400 Myr T TAURI STARS IN ORION OB1: NEW CONSTRAINTS ON PRE-MAIN-SEQUENCE ANGULAR MOMENTUM EVOLUTION. <i>Astronomical Journal</i> , 2016 , 152, 198	4.9	5
12	A DESGW Search for the Electromagnetic Counterpart to the LIGO/Virgo Gravitational-wave Binary Neutron Star Merger Candidate S190510g. <i>Astrophysical Journal</i> , 2020 , 903, 75	4.7	3
11	Eridanus IV: an Ultra-faint Dwarf Galaxy Candidate Discovered in the DECam Local Volume Exploration Survey. <i>Astrophysical Journal Letters</i> , 2021 , 920, L44	7.9	3
10	The Blanco DECam bulge survey. I. The survey description and early results. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 499, 2340-2356	4.3	2
9	Short-period Variability in the Globular Cluster NGC 419 and the SMC Field. <i>Astronomical Journal</i> , 2021 , 161, 120	4.9	2
8	Variable stars in Local Group galaxies IV. The fast and early evolution of the low-mass Eridanus II dSph galaxy. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021 , 508, 1064-1083	4.3	2
7	New Variable Stars in NGC 6652 and Its Background Sagittarius Stream. <i>Astronomical Journal</i> , 2019 , 157, 47	4.9	1
6	A revised view of the Canis Major stellar overdensity with DECam and Gaia: new evidence of a stellar warp of blue stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 501, 1690-1700	4.3	1
5	RR Lyrae Stars in the Newly Discovered Ultra-faint Dwarf Galaxy Centaurus I*. <i>Astronomical Journal</i> , 2021 , 162, 253	4.9	1

4	Variable Stars in Local Group Galaxies. VI. The Isolated Dwarfs VV 124 and KKr 25. <i>Astrophysical Journal</i> , 2021 , 920, 152	4.7	1
3	Variable Stars in the Giant Satellite Galaxy Antlia 2. <i>Astrophysical Journal</i> , 2022 , 926, 78	4.7	1
2	Blanco DECam Bulge Survey (BDBS). <i>Astronomy and Astrophysics</i> , 2021 , 647, A34	5.1	0
1	RR Lyrae stars as tracers of halo substructures. <i>EPJ Web of Conferences</i> , 2017 , 152, 02013	0.3	