

Roeland P Van Der Marel

List of Publications by Year in descending order

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84
papers

7,777
citations

66315
42
h-index

58549
82
g-index

84
all docs

84
docs citations

84
times ranked

3706
citing authors

#	ARTICLE	IF	CITATIONS
1	A new method for the identification of non-Gaussian line profiles in elliptical galaxies. <i>Astrophysical Journal</i> , 1993, 407, 525.	1.6	610
2	Resolved Massive Star Clusters in the Milky Way and Its Satellites: Brightness Profiles and a Catalog of Fundamental Parameters. <i>Astrophysical Journal, Supplement Series</i> , 2005, 161, 304-360.	3.0	578
3	New Understanding of Large Magellanic Cloud Structure, Dynamics, and Orbit from Carbon Star Kinematics. <i>Astronomical Journal</i> , 2002, 124, 2639-2663.	1.9	449
4	Are the Magellanic Clouds on Their First Passage about the Milky Way?. <i>Astrophysical Journal</i> , 2007, 668, 949-967.	1.6	417
5	THIRD-EPOCH MAGELLANIC CLOUD PROPER MOTIONS. I. <i>HUBBLE SPACE TELESCOPE</i> WFC3 DATA AND ORBIT IMPLICATIONS. <i>Astrophysical Journal</i> , 2013, 764, 161.	1.6	383
6	The role of dwarf galaxy interactions in shaping the Magellanic System and implications for Magellanic Irregulars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 421, 2109-2138.	1.6	289
7	Magellanic Cloud Structure from Near-Infrared Surveys. I. The Viewing Angles of the Large Magellanic Cloud. <i>Astronomical Journal</i> , 2001, 122, 1807-1826.	1.9	281
8	The Proper Motion of the Large Magellanic Cloud Using HST. <i>Astrophysical Journal</i> , 2006, 638, 772-785.	1.6	267
9	Is the SMC Bound to the LMC? The Hubble Space Telescope Proper Motion of the SMC. <i>Astrophysical Journal</i> , 2006, 652, 1213-1229.	1.6	225
10	THIRD-EPOCH MAGELLANIC CLOUD PROPER MOTIONS. II. THE LARGE MAGELLANIC CLOUD ROTATION FIELD IN THREE DIMENSIONS. <i>Astrophysical Journal</i> , 2014, 781, 121.	1.6	213
11	<i>Gaia</i> DR2 proper motions of dwarf galaxies within 420 kpc. <i>Astronomy and Astrophysics</i> , 2018, 619, A103.	2.1	200
12	THE M31 VELOCITY VECTOR. II. RADIAL ORBIT TOWARD THE MILKY WAY AND IMPLIED LOCAL GROUP MASS. <i>Astrophysical Journal</i> , 2012, 753, 8.	1.6	185
13	NEW LIMITS ON AN INTERMEDIATE-MASS BLACK HOLE IN OMEGA CENTAURI. I. <i>HUBBLE SPACE TELESCOPE</i> PHOTOMETRY AND PROPER MOTIONS. <i>Astrophysical Journal</i> , 2010, 710, 1032-1062.	1.6	182
14	NEW LIMITS ON AN INTERMEDIATE-MASS BLACK HOLE IN OMEGA CENTAURI. II. DYNAMICAL MODELS. <i>Astrophysical Journal</i> , 2010, 710, 1063-1088.	1.6	170
15	THE SPACE MOTION OF LEO I: THE MASS OF THE MILKY WAY'S DARK MATTER HALO. <i>Astrophysical Journal</i> , 2013, 768, 140.	1.6	167
16	Magellanic Cloud Structure from Near-Infrared Surveys. II. Star Count Maps and the Intrinsic Elongation of the Large Magellanic Cloud. <i>Astronomical Journal</i> , 2001, 122, 1827-1843.	1.9	138
17	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.	3.0	131
18	<i>HUBBLE SPACE TELESCOPE</i> PROPER MOTION (HSTPROMO) CATALOGS OF GALACTIC GLOBULAR CLUSTERS. II. KINEMATIC PROFILES AND MAPS. <i>Astrophysical Journal</i> , 2015, 803, 29.	1.6	121

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19	RAM PRESSURE STRIPPING OF THE LARGE MAGELLANIC CLOUDâ€™S DISK AS A PROBE OF THE MILKY WAYâ€™S CIRCUMGALACTIC MEDIUM. <i>Astrophysical Journal</i> , 2015, 815, 77.	1.6	117
20	Evidence for an Intermediate-mass Milky Way from <i>Gaia</i> DR2 Halo Globular Cluster Motions. <i>Astrophysical Journal</i> , 2019, 873, 118.	1.6	114
21	The Missing Satellites of the Magellanic Clouds? <i>Gaia</i> Proper Motions of the Recently Discovered Ultra-faint Galaxies. <i>Astrophysical Journal</i> , 2018, 867, 19.	1.6	111
22	M31 Transverse Velocity and Local Group Mass from Satellite Kinematics. <i>Astrophysical Journal</i> , 2008, 678, 187-199.	1.6	106
23	THE M31 VELOCITY VECTOR. I. <i>HUBBLE SPACE TELESCOPE</i> PROPER-MOTION MEASUREMENTS. <i>Astrophysical Journal</i> , 2012, 753, 7.	1.6	103
24	THE SPACE MOTION OF LEO I. <i>HUBBLE SPACE TELESCOPE</i> PROPER MOTION AND IMPLIED ORBIT. <i>Astrophysical Journal</i> , 2013, 768, 139.	1.6	102
25	The Orbital Histories of Magellanic Satellites Using <i>Gaia</i> DR2 Proper Motions. <i>Astrophysical Journal</i> , 2020, 893, 121.	1.6	101
26	No energy equipartition in globular clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 435, 3272-3282.	1.6	97
27	SMASH: Survey of the MAgellanic Stellar History. <i>Astronomical Journal</i> , 2017, 154, 199.	1.9	85
28	The State-of-the-art HST Astro-photometric Analysis of the Core of ω Centauri. I. The Catalog. <i>Astrophysical Journal</i> , 2017, 842, 6.	1.6	80
29	LOW SURFACE BRIGHTNESS IMAGING OF THE MAGELLANIC SYSTEM: IMPRINTS OF TIDAL INTERACTIONS BETWEEN THE CLOUDS IN THE STELLAR PERIPHERY. <i>Astrophysical Journal</i> , 2016, 825, 20.	1.6	77
30	First <i>Gaia</i> Dynamics of the Andromeda System: DR2 Proper Motions, Orbits, and Rotation of M31 and M33. <i>Astrophysical Journal</i> , 2019, 872, 24.	1.6	77
31	The HST Large Programme on ω Centauri. II. Internal Kinematics. <i>Astrophysical Journal</i> , 2018, 853, 86.	1.6	73
32	THE M31 VELOCITY VECTOR. III. FUTURE MILKY WAY M31â€™M33 ORBITAL EVOLUTION, MERGING, AND FATE OF THE SUN. <i>Astrophysical Journal</i> , 2012, 753, 9.	1.6	70
33	The Proper Motion Field of the Small Magellanic Cloud: Kinematic Evidence for Its Tidal Disruption. <i>Astrophysical Journal</i> , 2018, 864, 55.	1.6	70
34	Intermediate-Mass Black Hole Induced Quenching of Mass Segregation in Star Clusters. <i>Astrophysical Journal</i> , 2008, 686, 303-309.	1.6	68
35	<i>HUBBLE SPACE TELESCOPE</i> PROPER MOTION (HSTPROMO) CATALOGS OF GALACTIC GLOBULAR CLUSTERS. III. DYNAMICAL DISTANCES AND MASS-TO-LIGHT RATIOS. <i>Astrophysical Journal</i> , 2015, 812, 149.	1.6	68
36	THE <i>HUBBLE SPACE TELESCOPE</i> UV LEGACY SURVEY OF GALACTIC GLOBULAR CLUSTERS: THE INTERNAL KINEMATICS OF THE MULTIPLE STELLAR POPULATIONS IN NGC 2808. <i>Astrophysical Journal Letters</i> , 2015, 810, L13.	3.0	68

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37	Absolute Hubble Space Telescope Proper Motion (HSTPROMO) of Distant Milky Way Globular Clusters: Galactocentric Space Velocities and the Milky Way Mass. <i>Astrophysical Journal</i> , 2018, 862, 52.	1.6	68
38	SMASHing the LMC: A Tidally Induced Warp in the Outer LMC and a Large-scale Reddening Map. <i>Astrophysical Journal</i> , 2018, 866, 90.	1.6	63
39	Hubble Space Telescope Proper Motion (HSTPROMO) Catalogs of Galactic Globular Clusters. V. The Rapid Rotation of 47 Tuc Traced and Modeled in Three Dimensions [*] . <i>Astrophysical Journal</i> , 2017, 844, 167.	1.6	60
40	Hubble Space Telescope Proper Motion (HSTPROMO) Catalogs of Galactic Globular Cluster. VI. Improved Data Reduction and Internal-kinematic Analysis of NGC 362. <i>Astrophysical Journal</i> , 2018, 861, 99.	1.6	58
41	Ships Passing in the Night: Spectroscopic Analysis of Two Ultra-faint Satellites in the Constellation Carina [*] <sup>â€/sup> <sup>â€/sup> <sup>â€/sup>. <i>Astrophysical Journal</i> , 2018, 857, 145.	1.6	54
42	FIRST GAIA LOCAL GROUP DYNAMICS: MAGELLANIC CLOUDS PROPER MOTION AND ROTATION. <i>Astrophysical Journal Letters</i> , 2016, 832, L23.	3.0	50
43	The Proper-motion Field along the Magellanic Bridge: A New Probe of the LMCâ€SMC Interaction. <i>Astrophysical Journal</i> , 2019, 874, 78.	1.6	39
44	VARIABLE STARS IN THE FIELD OF THE HYDRA II ULTRA-FAINT DWARF GALAXY. <i>Astronomical Journal</i> , 2016, 151, 118.	1.9	38
45	The State-of-the-art HST Astro-photometric Analysis of the Core of ï‰ Centauri. III. The Main Sequence's Multiple Populations Galore [*] . <i>Astrophysical Journal</i> , 2017, 844, 164.	1.6	38
46	Space Motions of the Dwarf Spheroidal Galaxies Draco and Sculptor Based on HST Proper Motions with a âˆ¼10 yr Time Baseline. <i>Astrophysical Journal</i> , 2017, 849, 93.	1.6	37
47	The Hubble Space Telescope UV Legacy Survey of Galactic Globular Clusters. XVIII. Proper-motion Kinematics of Multiple Stellar Populations in the Core Regions of NGC 6352. <i>Astrophysical Journal</i> , 2019, 873, 109.	1.6	36
48	Exploring the Very Extended Low-surface-brightness Stellar Populations of the Large Magellanic Cloud with SMASH. <i>Astrophysical Journal</i> , 2019, 874, 118.	1.6	32
49	HST Proper Motions of NGC 147 and NGC 185: Orbital Histories and Tests of a Dynamically Coherent Andromeda Satellite Plane. <i>Astrophysical Journal</i> , 2020, 901, 43.	1.6	30
50	<i>HUBBLE SPACE TELESCOPE</i> PROPER MOTIONS ALONG THE SAGITTARIUS STREAM. I. OBSERVATIONS AND RESULTS FOR STARS IN FOUR FIELDS. <i>Astrophysical Journal</i> , 2015, 803, 56.	1.6	29
51	SMASHing the LMC: Mapping a Ring-like Stellar Overdensity in the LMC Disk. <i>Astrophysical Journal</i> , 2018, 869, 125.	1.6	29
52	<i>HST</i>/ACS DIRECT AGES OF THE DWARF ELLIPTICAL GALAXIES NGC 147 AND NGC 185. <i>Astrophysical Journal</i> , 2015, 811, 114.	1.6	28
53	MASS SEGREGATION IN NGC 2298: LIMITS ON THE PRESENCE OF AN INTERMEDIATE MASS BLACK HOLE. <i>Astrophysical Journal</i> , 2009, 699, 1511-1517.	1.6	27
54	SMASH 1: A VERY FAINT GLOBULAR CLUSTER DISRUPTING IN THE OUTER REACHES OF THE LMC?. <i>Astrophysical Journal Letters</i> , 2016, 830, L10.	3.0	26

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55	The HST Large Programme on $\bar{\omega}$ Centauri. III. Absolute Proper Motion. <i>Astrophysical Journal</i> , 2018, 854, 45.	1.6	25
56	Star Formation Histories of Ultra-faint Dwarf Galaxies: Environmental Differences between Magellanic and Non-Magellanic Satellites?*. <i>Astrophysical Journal Letters</i> , 2021, 920, L19.	3.0	24
57	Tycho-Gaia Astrometric Solution Parallaxes and Proper Motions for Five Galactic Globular Clusters. <i>Astrophysical Journal</i> , 2017, 839, 89.	1.6	23
58	Revealing the Structure and Internal Rotation of the Sagittarius Dwarf Spheroidal Galaxy with Gaia and Machine Learning. <i>Astrophysical Journal</i> , 2021, 908, 244.	1.6	23
59	ISOTROPIC AT THE BREAK? 3D KINEMATICS OF MILKY WAY HALO STARS IN THE FOREGROUND OF M31. <i>Astrophysical Journal</i> , 2016, 820, 18.	1.6	22
60	The Hubble Space Telescope UV Legacy Survey of Galactic Globular Clusters. XX. Ages of Single and Multiple Stellar Populations in Seven Bulge Globular Clusters. <i>Astrophysical Journal</i> , 2020, 891, 37.	1.6	22
61	HUBBLE TARANTULA TREASURY PROJECT. V. THE STAR CLUSTER HODGE 301: THE OLD FACE OF 30 DORADUS*. <i>Astrophysical Journal</i> , 2016, 833, 154.	1.6	21
62	SMASHing the low surface brightness SMC. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 1034-1049.	1.6	21
63	The Second Data Release of the Survey of the MAGellanic Stellar History (SMASH). <i>Astronomical Journal</i> , 2021, 161, 74.	1.9	20
64	The State-of-the-art HST Astro-photometric Analysis of the Core of $\bar{\omega}$ Centauri. II. Differential-reddening Map [—] . <i>Astrophysical Journal</i> , 2017, 842, 7.	1.6	19
65	The Proper Motion of Pyxis: The First Use of Adaptive Optics in Tandem with HST on a Faint Halo Object. <i>Astrophysical Journal</i> , 2017, 840, 30.	1.6	18
66	HALO7D II: The Halo Velocity Ellipsoid and Velocity Anisotropy with Distant Main-sequence Stars. <i>Astrophysical Journal</i> , 2019, 879, 120.	1.6	17
67	The Recent LMC–SMC Collision: Timing and Impact Parameter Constraints from Comparison of Gaia LMC Disk Kinematics and N-body Simulations. <i>Astrophysical Journal</i> , 2022, 927, 153.	1.6	17
68	HUBBLE SPACE TELESCOPE PROPER MOTIONS OF INDIVIDUAL STARS IN STELLAR STREAMS: ORPHAN, SAGITTARIUS, LETHE, AND THE NEW “PARALLEL STREAM”. <i>Astrophysical Journal</i> , 2016, 833, 235.	1.6	16
69	HST Astrometry in the 30 Doradus Region. II. Runaway Stars from New Proper Motions in the Large Magellanic Cloud. <i>Astronomical Journal</i> , 2018, 156, 98.	1.9	16
70	The course of the Orphan Stream in the Northern Galactic hemisphere traced with Gaia DR2. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 486, 936-949.	1.6	16
71	Internal rotation of Milky Way dwarf spheroidal satellites with Gaia Early Data Release 3. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 505, 5884-5895.	1.6	16
72	HST ASTROMETRY IN THE 30 DORADUS REGION: MEASURING PROPER MOTIONS OF INDIVIDUAL STARS IN THE LARGE MAGELLANIC CLOUD. <i>Astronomical Journal</i> , 2015, 150, 89.	1.9	14

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73	Deciphering the Kinematic Structure of the Small Magellanic Cloud through Its Red Giant Population. <i>Astrophysical Journal</i> , 2021, 910, 36.	1.6	13
74	Nature of a shell of young stars in the outskirts of the Small Magellanic Cloud. <i>Astronomy and Astrophysics</i> , 2019, 631, A98.	2.1	12
75	Hunting for intermediate-mass black holes in globular clusters: an astrometric study of NGC 6441. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 503, 1490-1506.	1.6	12
76	<i>Gaia</i> TGAS search for Large Magellanic Cloud runaway supergiant stars. <i>Astronomy and Astrophysics</i> , 2017, 603, A75.	2.1	12
77	GaiaHub: A Method for Combining Data from the Gaia and Hubble Space Telescopes to Derive Improved Proper Motions for Faint Stars. <i>Astrophysical Journal</i> , 2022, 933, 76.	1.6	11
78	The absolute proper motions of the Arches and Quintuplet clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 497, 4733-4741.	1.6	10
79	An Upper Limit on the Mass of a Central Black Hole in the Large Magellanic Cloud from the Stellar Rotation Field. <i>Astrophysical Journal</i> , 2017, 846, 14.	1.6	7
80	Mapping Gaia Parallax Systematic Errors over the Sky with Faint Milky Way Stars. <i>Astronomical Journal</i> , 2021, 161, 58.	1.9	6
81	Structural Parameters and Possible Association of the Ultra-faint Dwarfs Pegasus III and Pisces II from Deep Hubble Space Telescope Photometry. <i>Astrophysical Journal</i> , 2022, 933, 217.	1.6	5
82	Reaching the Oldest Stars beyond the Local Group: Ancient Star Formation in UGC 4483*. <i>Astrophysical Journal</i> , 2021, 911, 62.	1.6	4
83	Magellanic Clouds Proper Motion and Rotation with Gaia DR1. <i>Proceedings of the International Astronomical Union</i> , 2017, 12, 249-250.	0.0	0
84	Imprints of evolution on the internal kinematics of Globular Clusters. <i>Proceedings of the International Astronomical Union</i> , 2019, 14, 544-548.	0.0	0