

# Roeland P Van Der Marel

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

82  
papers

6,531  
citations

41  
h-index

80  
g-index

84  
ext. papers

7,120  
ext. citations

4.8  
avg, IF

6.11  
L-index

#	Paper	IF	Citations
82	The Recent LMC $\bar{B}MC$ Collision: Timing and Impact Parameter Constraints from Comparison of Gaia LMC Disk Kinematics and N-body Simulations. <i>Astrophysical Journal</i> , <b>2022</b> , 927, 153	4.7	3
81	Star Formation Histories of Ultra-faint Dwarf Galaxies: Environmental Differences between Magellanic and Non-Magellanic Satellites?*. <i>Astrophysical Journal Letters</i> , <b>2021</b> , 920, L19	7.9	5
80	Reaching the Oldest Stars beyond the Local Group: Ancient Star Formation in UGC 4483*. <i>Astrophysical Journal</i> , <b>2021</b> , 911, 62	4.7	1
79	Internal rotation of Milky Way dwarf spheroidal satellites with Gaia Early Data Release 3. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2021</b> , 505, 5884-5895	4.3	6
78	The Second Data Release of the Survey of the MAgellanic Stellar History (SMASH). <i>Astronomical Journal</i> , <b>2021</b> , 161, 74	4.9	10
77	Hunting for intermediate-mass black holes in globular clusters: an astrometric study of NGC 6441. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2021</b> , 503, 1490-1506	4.3	2
76	Revealing the Structure and Internal Rotation of the Sagittarius Dwarf Spheroidal Galaxy with Gaia and Machine Learning. <i>Astrophysical Journal</i> , <b>2021</b> , 908, 244	4.7	6
75	Deciphering the Kinematic Structure of the Small Magellanic Cloud through Its Red Giant Population. <i>Astrophysical Journal</i> , <b>2021</b> , 910, 36	4.7	3
74	Mapping Gaia Parallax Systematic Errors over the Sky with Faint Milky Way Stars. <i>Astronomical Journal</i> , <b>2021</b> , 161, 58	4.9	3
73	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> , <b>2020</b> , 891, 37	4.7	14
72	The Orbital Histories of Magellanic Satellites Using Gaia DR2 Proper Motions. <i>Astrophysical Journal</i> , <b>2020</b> , 893, 121	4.7	51
71	HST Proper Motions of NGC 147 and NGC 185: Orbital Histories and Tests of a Dynamically Coherent Andromeda Satellite Plane. <i>Astrophysical Journal</i> , <b>2020</b> , 901, 43	4.7	14
70	SMASHing the low surface brightness SMC. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2020</b> , 498, 1034-1049	4.3	12
69	The absolute proper motions of the Arches and Quintuplet clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2020</b> , 497, 4733-4741	4.3	6
68	Exploring the Very Extended Low-surface-brightness Stellar Populations of the Large Magellanic Cloud with SMASH. <i>Astrophysical Journal</i> , <b>2019</b> , 874, 118	4.7	27
67	The Proper-motion Field along the Magellanic Bridge: A New Probe of the LMC $\bar{B}MC$ Interaction. <i>Astrophysical Journal</i> , <b>2019</b> , 874, 78	4.7	27
66	Evidence for an Intermediate-mass Milky Way from Gaia DR2 Halo Globular Cluster Motions. <i>Astrophysical Journal</i> , <b>2019</b> , 873, 118	4.7	90

65	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> , <b>2019</b> , 873, 109	4-7	23
64	The course of the Orphan Stream in the Northern Galactic hemisphere traced with Gaia DR2. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2019</b> , 486, 936-949	4-3	14
63	First Gaia Dynamics of the Andromeda System: DR2 Proper Motions, Orbits, and Rotation of M31 and M33. <i>Astrophysical Journal</i> , <b>2019</b> , 872, 24	4-7	48
62	HALO7D II: The Halo Velocity Ellipsoid and Velocity Anisotropy with Distant Main-sequence Stars. <i>Astrophysical Journal</i> , <b>2019</b> , 879, 120	4-7	9
61	Imprints of evolution on the internal kinematics of Globular Clusters. <i>Proceedings of the International Astronomical Union</i> , <b>2019</b> , 14, 544-548	0-1	
60	Nature of a shell of young stars in the outskirts of the Small Magellanic Cloud. <i>Astronomy and Astrophysics</i> , <b>2019</b> , 631, A98	5-1	9
59	The HST Large Programme on Centauri. III. Absolute Proper Motion. <i>Astrophysical Journal</i> , <b>2018</b> , 854, 45	4-7	20
58	The HST Large Programme on Centauri. II. Internal Kinematics. <i>Astrophysical Journal</i> , <b>2018</b> , 853, 86	4-7	59
57	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> , <b>2018</b> , 861, 99	4-7	43
56	HST Astrometry in the 30 Doradus Region. II. Runaway Stars from New Proper Motions in the Large Magellanic Cloud. <i>Astronomical Journal</i> , <b>2018</b> , 156, 98	4-9	13
55	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> , <b>2018</b> , 862, 52	4-7	58
54	Ships Passing in the Night: Spectroscopic Analysis of Two Ultra-faint Satellites in the Constellation Carina. <i>Astrophysical Journal</i> , <b>2018</b> , 857, 145	4-7	38
53	The Proper Motion Field of the Small Magellanic Cloud: Kinematic Evidence for Its Tidal Disruption. <i>Astrophysical Journal</i> , <b>2018</b> , 864, 55	4-7	44
52	SMASHing the LMC: A Tidally Induced Warp in the Outer LMC and a Large-scale Reddening Map. <i>Astrophysical Journal</i> , <b>2018</b> , 866, 90	4-7	42
51	Gaia DR2 proper motions of dwarf galaxies within 420 kpc. <i>Astronomy and Astrophysics</i> , <b>2018</b> , 619, A103	5-1	149
50	The Missing Satellites of the Magellanic Clouds? Gaia Proper Motions of the Recently Discovered Ultra-faint Galaxies. <i>Astrophysical Journal</i> , <b>2018</b> , 867, 19	4-7	85
49	SMASHing the LMC: Mapping a Ring-like Stellar Overdensity in the LMC Disk. <i>Astrophysical Journal</i> , <b>2018</b> , 869, 125	4-7	21
48	Tycho-Gaia Astrometric Solution Parallaxes and Proper Motions for Five Galactic Globular Clusters. <i>Astrophysical Journal</i> , <b>2017</b> , 839, 89	4-7	23

47	The Proper Motion of Pyxis: The First Use of Adaptive Optics in Tandem with HST on a Faint Halo Object. <i>Astrophysical Journal</i> , <b>2017</b> , 840, 30	4-7	15
46	The State-of-the-art HST Astro-photometric Analysis of the Core of Centauri. I. The Catalog. <i>Astrophysical Journal</i> , <b>2017</b> , 842, 6	4-7	57
45	The State-of-the-art HST Astro-photometric Analysis of the Core of Centauri. II. Differential-reddening Map. <i>Astrophysical Journal</i> , <b>2017</b> , 842, 7	4-7	16
44	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> , <b>2017</b> , 846, 14	4-7	4
43	The State-of-the-art HST Astro-photometric Analysis of the Core of Centauri. III. The Main Sequence's Multiple Populations Galore. <i>Astrophysical Journal</i> , <b>2017</b> , 844, 164	4-7	31
42	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> , <b>2017</b> , 844, 167	4-7	52
41	SMASH: Survey of the Magellanic Stellar History. <i>Astronomical Journal</i> , <b>2017</b> , 154, 199	4-9	59
40	Space Motions of the Dwarf Spheroidal Galaxies Draco and Sculptor Based on HST Proper Motions with a ~10 yr Time Baseline. <i>Astrophysical Journal</i> , <b>2017</b> , 849, 93	4-7	34
39	Magellanic Clouds Proper Motion and Rotation with Gaia DR1. <i>Proceedings of the International Astronomical Union</i> , <b>2017</b> , 12, 249-250	0-1	
38	Gaia TGAS search for Large Magellanic Cloud runaway supergiant stars. <i>Astronomy and Astrophysics</i> , <b>2017</b> , 603, A75	5-1	9
37	ISOTROPIC AT THE BREAK? 3D KINEMATICS OF MILKY WAY HALO STARS IN THE FOREGROUND OF M31. <i>Astrophysical Journal</i> , <b>2016</b> , 820, 18	4-7	19
36	LOW SURFACE BRIGHTNESS IMAGING OF THE MAGELLANIC SYSTEM: IMPRINTS OF TIDAL INTERACTIONS BETWEEN THE CLOUDS IN THE STELLAR PERIPHERY. <i>Astrophysical Journal</i> , <b>2016</b> , 825, 20	4-7	61
35	FIRST GAIA LOCAL GROUP DYNAMICS: MAGELLANIC CLOUDS PROPER MOTION AND ROTATION. <i>Astrophysical Journal Letters</i> , <b>2016</b> , 832, L23	7-9	43
34	VARIABLE STARS IN THE FIELD OF THE HYDRA II ULTRA-FAINT DWARF GALAXY. <i>Astronomical Journal</i> , <b>2016</b> , 151, 118	4-9	32
33	SMASH 1: A VERY FAINT GLOBULAR CLUSTER DISRUPTING IN THE OUTER REACHES OF THE LMC?. <i>Astrophysical Journal Letters</i> , <b>2016</b> , 830, L10	7-9	22
32	HUBBLE SPACE TELESCOPE PROPER MOTIONS OF INDIVIDUAL STARS IN STELLAR STREAMS: ORPHAN, SAGITTARIUS, LETHE, AND THE NEW PARALLEL STREAM. <i>Astrophysical Journal</i> , <b>2016</b> , 833, 235	4-7	15
31	HUBBLE TARANTULA TREASURY PROJECT. V. THE STAR CLUSTER HODGE 301: THE OLD FACE OF 30 DORADUS. <i>Astrophysical Journal</i> , <b>2016</b> , 833, 154	4-7	15
30	HUBBLE SPACE TELESCOPE PROPER MOTIONS ALONG THE SAGITTARIUS STREAM. I. OBSERVATIONS AND RESULTS FOR STARS IN FOUR FIELDS. <i>Astrophysical Journal</i> , <b>2015</b> , 803, 56	4-7	29

29	HUBBLE SPACE TELESCOPE PROPER MOTION (HSTPROMO) CATALOGS OF GALACTIC GLOBULAR CLUSTERS. II. KINEMATIC PROFILES AND MAPS. <i>Astrophysical Journal</i> , <b>2015</b> , 803, 29	4.7	110
28	HST ASTROMETRY IN THE 30 DORADUS REGION: MEASURING PROPER MOTIONS OF INDIVIDUAL STARS IN THE LARGE MAGELLANIC CLOUD. <i>Astronomical Journal</i> , <b>2015</b> , 150, 89	4.9	12
27	HST/ACS DIRECT AGES OF THE DWARF ELLIPTICAL GALAXIES NGC 147 AND NGC 185. <i>Astrophysical Journal</i> , <b>2015</b> , 811, 114	4.7	23
26	HUBBLE SPACE TELESCOPE PROPER MOTION (HSTPROMO) CATALOGS OF GALACTIC GLOBULAR CLUSTERS. III. DYNAMICAL DISTANCES AND MASS-TO-LIGHT RATIOS. <i>Astrophysical Journal</i> , <b>2015</b> , 812, 149	4.7	62
25	RAM PRESSURE STRIPPING OF THE LARGE MAGELLANIC CLOUD'S DISK AS A PROBE OF THE MILKY WAY'S CIRCUMGALACTIC MEDIUM. <i>Astrophysical Journal</i> , <b>2015</b> , 815, 77	4.7	93
24	HYDRA II: A FAINT AND COMPACT MILKY WAY DWARF GALAXY FOUND IN THE SURVEY OF THE MAGELLANIC STELLAR HISTORY. <i>Astrophysical Journal Letters</i> , <b>2015</b> , 804, L5	7.9	119
23	THE HUBBLE SPACE TELESCOPE UV LEGACY SURVEY OF GALACTIC GLOBULAR CLUSTERS: THE INTERNAL KINEMATICS OF THE MULTIPLE STELLAR POPULATIONS IN NGC 2808. <i>Astrophysical Journal Letters</i> , <b>2015</b> , 810, L13	7.9	58
22	THIRD-EPOCH MAGELLANIC CLOUD PROPER MOTIONS. II. THE LARGE MAGELLANIC CLOUD ROTATION FIELD IN THREE DIMENSIONS. <i>Astrophysical Journal</i> , <b>2014</b> , 781, 121	4.7	171
21	No energy equipartition in globular clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2013</b> , 435, 3272-3282	4.3	83
20	THE SPACE MOTION OF LEO I: THE MASS OF THE MILKY WAY'S DARK MATTER HALO. <i>Astrophysical Journal</i> , <b>2013</b> , 768, 140	4.7	154
19	THE SPACE MOTION OF LEO I: HUBBLE SPACE TELESCOPE PROPER MOTION AND IMPLIED ORBIT. <i>Astrophysical Journal</i> , <b>2013</b> , 768, 139	4.7	92
18	THIRD-EPOCH MAGELLANIC CLOUD PROPER MOTIONS. I. HUBBLE SPACE TELESCOPE/WFC3 DATA AND ORBIT IMPLICATIONS. <i>Astrophysical Journal</i> , <b>2013</b> , 764, 161	4.7	322
17	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> , <b>2012</b> , 421, 2109-2138	4.3	240
16	THE M31 VELOCITY VECTOR. I. HUBBLE SPACE TELESCOPE PROPER-MOTION MEASUREMENTS. <i>Astrophysical Journal</i> , <b>2012</b> , 753, 7	4.7	88
15	THE M31 VELOCITY VECTOR. III. FUTURE MILKY WAY M31-M33 ORBITAL EVOLUTION, MERGING, AND FATE OF THE SUN. <i>Astrophysical Journal</i> , <b>2012</b> , 753, 9	4.7	58
14	THE M31 VELOCITY VECTOR. II. RADIAL ORBIT TOWARD THE MILKY WAY AND IMPLIED LOCAL GROUP MASS. <i>Astrophysical Journal</i> , <b>2012</b> , 753, 8	4.7	151
13	NEW LIMITS ON AN INTERMEDIATE-MASS BLACK HOLE IN OMEGA CENTAURI. II. DYNAMICAL MODELS. <i>Astrophysical Journal</i> , <b>2010</b> , 710, 1063-1088	4.7	152
12	NEW LIMITS ON AN INTERMEDIATE-MASS BLACK HOLE IN OMEGA CENTAURI. I. HUBBLE SPACE TELESCOPE PHOTOMETRY AND PROPER MOTIONS. <i>Astrophysical Journal</i> , <b>2010</b> , 710, 1032-1062	4.7	164

11	MASS SEGREGATION IN NGC 2298: LIMITS ON THE PRESENCE OF AN INTERMEDIATE MASS BLACK HOLE. <i>Astrophysical Journal</i> , <b>2009</b> , 699, 1511-1517	4-7	25
10	M31 Transverse Velocity and Local Group Mass from Satellite Kinematics. <i>Astrophysical Journal</i> , <b>2008</b> , 678, 187-199	4-7	93
9	Intermediate-Mass Black Hole Induced Quenching of Mass Segregation in Star Clusters. <i>Astrophysical Journal</i> , <b>2008</b> , 686, 303-309	4-7	63
8	Are the Magellanic Clouds on Their First Passage about the Milky Way?. <i>Astrophysical Journal</i> , <b>2007</b> , 668, 949-967	4-7	356
7	The Proper Motion of the Large Magellanic Cloud Using HST. <i>Astrophysical Journal</i> , <b>2006</b> , 638, 772-785	4-7	250
6	Is the SMC Bound to the LMC? The Hubble Space Telescope Proper Motion of the SMC. <i>Astrophysical Journal</i> , <b>2006</b> , 652, 1213-1229	4-7	212
5	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> , <b>2005</b> , 161, 304-360	8	543
4	New Understanding of Large Magellanic Cloud Structure, Dynamics, and Orbit from Carbon Star Kinematics. <i>Astronomical Journal</i> , <b>2002</b> , 124, 2639-2663	4-9	398
3	Magellanic Cloud Structure from Near-Infrared Surveys. I. The Viewing Angles of the Large Magellanic Cloud. <i>Astronomical Journal</i> , <b>2001</b> , 122, 1807-1826	4-9	256
2	Magellanic Cloud Structure from Near-Infrared Surveys. II. Star Count Maps and the Intrinsic Elongation of the Large Magellanic Cloud. <i>Astronomical Journal</i> , <b>2001</b> , 122, 1827-1843	4-9	124
1	A new method for the identification of non-Gaussian line profiles in elliptical galaxies. <i>Astrophysical Journal</i> , <b>1993</b> , 407, 525	4-7	564