Richard R Lane

List of Publications by Year
in descending order

76 papers	5,867 citations	201674 27 h-index	74163 75 g-index
77 all docs	77 docs citations	77 times ranked	6025 citing authors

#	Article	IF	Citations
1	Sloan Digital Sky Survey IV: Mapping the Milky Way, Nearby Galaxies, and the Distant Universe. Astronomical Journal, 2017, 154, 28.	4.7	1,100
2	The 16th Data Release of the Sloan Digital Sky Surveys: First Release from the APOGEE-2 Southern Survey and Full Release of eBOSS Spectra. Astrophysical Journal, Supplement Series, 2020, 249, 3.	7.7	826
3	The Fourteenth Data Release of the Sloan Digital Sky Survey: First Spectroscopic Data from the Extended Baryon Oscillation Spectroscopic Survey and from the Second Phase of the Apache Point Observatory Galactic Evolution Experiment. Astrophysical Journal, Supplement Series, 2018, 235, 42.	7.7	796
4	The 13th Data Release of the Sloan Digital Sky Survey: First Spectroscopic Data from the SDSS-IV Survey Mapping Nearby Galaxies at Apache Point Observatory. Astrophysical Journal, Supplement Series, 2017, 233, 25.	7.7	406
5	The Seventeenth Data Release of the Sloan Digital Sky Surveys: Complete Release of MaNGA, MaStar, and APOGEE-2 Data. Astrophysical Journal, Supplement Series, 2022, 259, 35.	7.7	405
6	The Fifteenth Data Release of the Sloan Digital Sky Surveys: First Release of MaNGA-derived Quantities, Data Visualization Tools, and Stellar Library. Astrophysical Journal, Supplement Series, 2019, 240, 23.	7.7	299
7	More on the structure of tidal tails. Monthly Notices of the Royal Astronomical Society, 2012, 420, 2700-2714.	4.4	125
8	Disentangling the Galactic Halo with APOGEE. I. Chemical and Kinematical Investigation of Distinct Metal-poor Populations. Astrophysical Journal, 2018, 852, 49.	4.5	123
9	Homogeneous analysis of globular clusters from the APOGEE survey with the BACCHUS code â€“ II. The Southern clusters and overview. Monthly Notices of the Royal Astronomical Society, 2020, 492, 1641-1670.	4.4	103
10	The Open Cluster Chemical Abundances and Mapping Survey. IV. Abundances for 128 Open Clusters Using SDSS/APOGEE DR16. Astronomical Journal, 2020, 159, 199.	4.7	86
11	Chemical Cartography with APOGEE: Multi-element Abundance Ratios. Astrophysical Journal, 2019, 874, 102.	4.5	85
12	Halo globular clusters observed with AAOmega: dark matter content, metallicity and tidal heating. Monthly Notices of the Royal Astronomical Society, 2010, 406, 2732-2742.	4.4	84
13	Do galaxy global relationships emerge from local ones? The SDSS IV MaNGA surface mass densityâ€“metallicity relation. Monthly Notices of the Royal Astronomical Society, 2016, 463, 2513-2522.	4.4	77
14	APOGEE chemical abundances of globular cluster giants in the inner Galaxy. Monthly Notices of the Royal Astronomical Society, 2017, 466, 1010-1018.	4.4	71
15	APOGEE Chemical Abundance Patterns of the Massive Milky Way Satellites. Astrophysical Journal, 2021, 923, 172.	4.5	64
16	Testing Newtonian gravity with AAOmega: mass-to-light profiles of four globular clusters. Monthly Notices of the Royal Astronomical Society, 2009, 400, 917-923.	4.4	56
17	Spatial variations in the Milky Way disc metallicityâ€“age relation. Monthly Notices of the Royal Astronomical Society, 2019, 489, 1742-1752.	4.4	55
18	The chemical compositions of accreted and <i>inÂsitu</i> galactic globular clusters according to SDSS/APOGEE. Monthly Notices of the Royal Astronomical Society, 2020, 493, 3363-3378.	4.4	55

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19	Metallicity and Î±-Element Abundance Gradients along the Sagittarius Stream as Seen by APOGEE. Astrophysical Journal, 2020, 889, 63.	4.5	51
20	Testing Newtonian gravity with AAOmega: mass-to-light profiles and metallicity calibrations from 47 Tuc and M55. Monthly Notices of the Royal Astronomical Society, 2010, 401, 2521-2530.	4.4	48
21	NO EVIDENCE FOR INTERNAL ROTATION IN THE REMNANT CORE OF THE SAGITTARIUS DWARF. Astrophysical Journal Letters, 2011, 727, L2.	8.3	43
22	Two groups of red giants with distinct chemical abundances in the bulge globular cluster NGC 6553 through the eyes of APOGEE. Monthly Notices of the Royal Astronomical Society, 2017, 465, 19-31.	4.4	39
23	The ageâ€“chemical abundance structure of the Galactic disc â€“ II. <i>Î±</i>-dichotomy and thick disc formation. Monthly Notices of the Royal Astronomical Society, 2020, 497, 2371-2384.	4.4	39
24	Identifying Sagittarius Stream Stars by Their APOGEE Chemical Abundance Signatures. Astrophysical Journal, 2019, 872, 58.	4.5	37
25	The tidal tails of 47 Tucanae. Monthly Notices of the Royal Astronomical Society, 2012, 423, 2845-2853.	4.4	36
26	The Similarity of Abundance Ratio Trends and Nucleosynthetic Patterns in the Milky Way Disk and Bulge. Astrophysical Journal, 2021, 909, 77.	4.5	36
27	Exploring the Galactic Warp through Asymmetries in the Kinematics of the Galactic Disk. Astrophysical Journal, 2020, 905, 49.	4.5	30
28	SDSS-IV MaNGA: stellar initial mass function variation inferred from Bayesian analysis of the integral field spectroscopy of early-type galaxies. Monthly Notices of the Royal Astronomical Society, 2019, 485, 5256-5275.	4.4	28
29	Exploring the Stellar Age Distribution of the Milky Way Bulge Using APOGEE. Astrophysical Journal, 2020, 901, 109.	4.5	28
30	SLICING THE MONOCEROS OVERDENSITY WITH SUPRIME-CAM. Astrophysical Journal, 2012, 754, 101.	4.5	27
31	SDSS-IV MaNGA: full spectroscopic bulge-disc decomposition of MaNGA early-type galaxies. Monthly Notices of the Royal Astronomical Society, 2019, 485, 1546-1558.	4.4	26
32	The contribution of N-rich stars to the Galactic stellar halo using APOGEE red giants. Monthly Notices of the Royal Astronomical Society, 2020, 500, 5462-5478.	4.4	25
33	Strong chemical tagging with APOGEE: 21 candidate star clusters that have dissolved across the Milky Way disc. Monthly Notices of the Royal Astronomical Society, 2020, 496, 5101-5115.	4.4	25
34	VVV CL001: Likely the Most Metal-poor Surviving Globular Cluster in the Inner Galaxy. Astrophysical Journal Letters, 2021, 908, L42.	8.3	25
35	The Metal-poor non-Sagittarius (?) Globular Cluster NGC 5053: Orbit and Mg, Al, and Si Abundances. Astrophysical Journal, 2018, 855, 38.	4.5	24
36	The Hercules stream as seen by APOGEE-2 South. Monthly Notices of the Royal Astronomical Society, 2018, 474, 95-101.	4.4	24

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37	Disk-like Chemistry of the Triangulum-Andromeda Overdensity as Seen by APOGEE. Astrophysical Journal Letters, 2018, 859, L8.	8.3	24
38	SDSS-IV MaNGA: 3D spin alignment of spiral and S0 galaxies. Monthly Notices of the Royal Astronomical Society, 2021, 504, 4626-4633.	4.4	22
39	APOGEE spectroscopic evidence for chemical anomalies in dwarf galaxies: The case of M 54 and Sagittarius. Astronomy and Astrophysics, 2021, 648, A70.	5.1	22
40	SDSS-IV MaNGA: The link between bars and the early cessation of star formation in spiral galaxies. Monthly Notices of the Royal Astronomical Society, 2020, 499, 1116-1125.	4.4	20
41	APOGEE discovery of a chemically atypical star disrupted from NGC 6723 and captured by the Milky Way bulge. Astronomy and Astrophysics, 2021, 647, A64.	5.1	20
42	The distribution of [Î±/Fe] in the Milky Way disc. Monthly Notices of the Royal Astronomical Society, 2021, 508, 5903-5920.	4.4	19
43	SDSS-IV MaNGA: environmental dependence of gas metallicity gradients in local star-forming galaxies. Monthly Notices of the Royal Astronomical Society, 2019, 489, 1436-1450.	4.4	18
44	The Milky Wayâ€™s bulge star formation history as constrained from its bimodal chemical abundance distribution. Monthly Notices of the Royal Astronomical Society, 2020, 497, 3557-3570.	4.4	18
45	Dark matter deprivation in the field elliptical galaxy NGC 7507. Astronomy and Astrophysics, 2015, 574, A93.	5.1	16
46	Quantifying radial migration in the Milky Way: inefficient over short time-scales but essential to the very outer disc beyond â^¼15Âkpc. Monthly Notices of the Royal Astronomical Society, 2022, 511, 5639-5655.	4.4	16
47	APOGEE Net: An Expanded Spectral Model of Both Low-mass and High-mass Stars. Astronomical Journal, 2022, 163, 152.	4.7	16
48	Homogeneous analysis of globular clusters from the APOGEE survey with the BACCHUS code â€" III. Ï‰ÂCen. Monthly Notices of the Royal Astronomical Society, 2021, 505, 1645-1660.	4.4	15
49	Open Cluster Chemical Homogeneity throughout the Milky Way. Astrophysical Journal, 2020, 903, 55.	4.5	15
50	The Milky Way tomography with APOGEE: intrinsic density distribution and structure of mono-abundance populations. Monthly Notices of the Royal Astronomical Society, 2022, 513, 4130-4151.	4.4	15
51	Chemical Cartography with APOGEE: Mapping Disk Populations with a 2-process Model and Residual Abundances. Astrophysical Journal, Supplement Series, 2022, 260, 32.	7.7	15
52	AAOMEGA OBSERVATIONS OF 47 TUCANAE: EVIDENCE FOR A PAST MERGER?. Astrophysical Journal Letters, 2010, 711, L122-L126.	8.3	13
53	Orbital Torus Imaging: Using Element Abundances to Map Orbits and Mass in the Milky Way. Astrophysical Journal, 2021, 910, 17.	4.5	13
54	CAPOS: The bulge Cluster APOgee Survey. Astronomy and Astrophysics, 2021, 652, A158.	5.1	13

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55	Galactic ArchaeoLogIcaL ExcavatiOns (GALILEO). Astronomy and Astrophysics, 2022, 663, A126.	5.1	13
56	Detailed Chemical Abundances for a Benchmark Sample of M Dwarfs from the APOGEE Survey. Astrophysical Journal, 2022, 927, 123.	4.5	12
57	SDSS-IV MaNGA: the â€˜G-dwarf problemâ€™ revisited. Monthly Notices of the Royal Astronomical Society: Letters, 2021, 502, L95-L98.	3.3	10
58	Galaxy Zoo: 3D â€“ crowdsourced bar, spiral, and foreground star masks for MaNGA target galaxies. Monthly Notices of the Royal Astronomical Society, 2021, 507, 3923-3935.	4.4	10
59	Evidence for Impact of Galaxy Mergers on Stellar Kinematics of Early-type Galaxies. Astrophysical Journal, 2022, 925, 168.	4.5	10
60	An enquiry on the origins of N-rich stars in the inner Galaxy based on APOGEE chemical compositions. Monthly Notices of the Royal Astronomical Society, 2021, 504, 1657-1667.	4.4	9
61	The chemical properties of the Milky Wayâ€™s on-bar and off-bar regions: evidence for inhomogeneous star formation history in the bulge. Monthly Notices of the Royal Astronomical Society, 2020, 500, 282-290.	4.4	9
62	The Open Cluster Chemical Abundances and Mapping Survey. VII. APOGEE DR17 [C/N]â€“Age Calibration. Astronomical Journal, 2022, 163, 229.	4.7	8
63	The Anglo-Australian Telescope/Wide Field Imager survey of the Monoceros Ring and Canis Major dwarf galaxy - II. From<i>l</i>= (280-025)Â°. Monthly Notices of the Royal Astronomical Society, 2008, , .	4.4	7
64	On the origin of the Monoceros Ring â€“ I. Kinematics, proper motions, and the nature of the progenitor. Monthly Notices of the Royal Astronomical Society, 2018, 474, 4584-4593.	4.4	7
65	APOGEE-2 Discovery of a Large Population of Relatively High-metallicity Globular Cluster Debris. Astrophysical Journal Letters, 2021, 918, L37.	8.3	7
66	SDSS-IV MaNGA: when is morphology imprinted on galaxies?. Monthly Notices of the Royal Astronomical Society: Letters, 2020, 500, L42-L46.	3.3	7
67	The rotation of selected globular clusters and the differential rotation of M3 in multiple populations from the SDSS-IV APOGEE-2 survey. Monthly Notices of the Royal Astronomical Society, 2021, 504, 1144-1151.	4.4	6
68	APOGEE detection of N-rich stars in the tidal tails of Palomar 5. Monthly Notices of the Royal Astronomical Society, 2022, 510, 3727-3733.	4.4	5
69	Photometric Signature of Ultraharmonic Resonances in Barred Galaxies. Astrophysical Journal, 2022, 929, 112.	4.5	5
70	SDSS-IV MaNGA: How the Stellar Populations of Passive Central Galaxies Depend on Stellar and Halo Mass. Astrophysical Journal, 2022, 933, 88.	4.5	5
71	Kinematical Analysis of Substructure in the Southern Periphery of the Large Magellanic Cloud. Astrophysical Journal, 2022, 928, 95.	4.5	4
72	Chemodynamically Characterizing the Jhelum Stellar Stream with APOGEE-2. Astrophysical Journal, 2021, 913, 39.	4.5	3

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73	APOGEE-2S Mgâ€“Al anti-correlation of the metal-poor globular cluster NGC 2298. Astronomy and Astrophysics, 2022, 662, A47.	5.1	3
74	SDSS-IV MaNGA â€“ gas rotation velocity lags in the final sample of MaNGA galaxies. Monthly Notices of the Royal Astronomical Society, 2022, 515, 1598-1609.	4.4	3
75	SDSS-IV MaNGA: Cannibalism Caught in the Actâ€"On the Frequency of Occurrence of Multiple Cores in Brightest Cluster Galaxies. Astrophysical Journal, 2022, 933, 61.	4.5	2
76	Is TerzanÂ5 the remnant of a building block of the Galactic bulge? Evidence from APOGEE. Monthly Notices of the Royal Astronomical Society, 2022, 513, 3429-3443.	4.4	1