

Richard L Smart

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

3,103
citations

159585

30
h-index

161849

54
g-index

61
all docs

61
docs citations

61
times ranked

2762
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>Gaia</i> Early Data Release 3. <i>Astronomy and Astrophysics</i> , 2021, 649, A2.	5.1	647
2	<i>Gaia</i> Early Data Release 3. <i>Astronomy and Astrophysics</i> , 2021, 649, A6.	5.1	175
3	MID-INFRARED PHOTOMETRY OF COLD BROWN DWARFS: DIVERSITY IN AGE, MASS, AND METALLICITY. <i>Astrophysical Journal</i> , 2010, 710, 1627-1640.	4.5	146
4	A very cool brown dwarf in UKIDSS DR1. <i>Monthly Notices of the Royal Astronomical Society</i> , 2007, 381, 1400-1412.	4.4	123
5	The discovery of a very cool, very nearby brown dwarf in the Galactic plane. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2010, 408, L56-L60.	3.3	109
6	76 T dwarfs from the UKIDSS LAS: benchmarks, kinematics and an updated space density. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 433, 457-497.	4.4	108
7	VIRAC: the VVV Infrared Astrometric Catalogue. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 474, 1826-1849.	4.4	103
8	The Field Substellar Mass Function Based on the Full-sky 20 pc Census of 525 L, T, and Y Dwarfs. <i>Astrophysical Journal, Supplement Series</i> , 2021, 253, 7.	7.7	87
9	Preliminary Trigonometric Parallaxes of 184 Late-T and Y Dwarfs and an Analysis of the Field Substellar Mass Function into the "Planetary" Mass Regime. <i>Astrophysical Journal, Supplement Series</i> , 2019, 240, 19.	7.7	83
10	The Galactic warp revealed by <i>Gaia</i> DR2 kinematics. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2018, 481, L21-L25.	3.3	82
11	THE PHYSICAL PROPERTIES OF FOUR ~ 600 K T DWARFS. <i>Astrophysical Journal</i> , 2009, 695, 1517-1526.	4.5	72
12	PARALLAXES OF SOUTHERN EXTREMELY COOL OBJECTS. I. TARGETS, PROPER MOTIONS, AND FIRST RESULTS. <i>Astronomical Journal</i> , 2011, 141, 54.	4.7	67
13	PARALLAXES OF SOUTHERN EXTREMELY COOL OBJECTS (PARSEC). II. SPECTROSCOPIC FOLLOW-UP AND PARALLAXES OF 52 TARGETS. <i>Astronomical Journal</i> , 2013, 146, 161.	4.7	67
14	A large spectroscopic sample of L and T dwarfs from UKIDSS LAS: peculiar objects, binaries, and space density. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 449, 3651-3692.	4.4	64
15	A classifier for spurious astrometric solutions in <i>Gaia</i> eDR3. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 510, 2597-2616.	4.4	62
16	47 new T dwarfs from the UKIDSS Large Area Survey. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, , no-no.	4.4	59
17	THE PROPERTIES OF THE 500 K DWARF UGPS J072227.51 $\hat{=}$ "054031.2 AND A STUDY OF THE FAR-RED FLUX OF COLD BROWN DWARFS. <i>Astrophysical Journal</i> , 2012, 748, 74.	4.5	55
18	NPARSEC: NTT Parallaxes of Southern Extremely Cool objects. Goals, targets, procedures and first results. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 433, 2054-2063.	4.4	55

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19	A 5D view of the $\hat{\pm}$ Per, Pleiades, and Praesepe clusters. <i>Astronomy and Astrophysics</i> , 2019, 628, A66.	5.1	54
20	Parallaxes and physical properties of 11 mid-to-late T dwarfs. <i>Astronomy and Astrophysics</i> , 2010, 524, A38.	5.1	54
21	Evidence of a thick disk rotation-metallicity correlation. <i>Astronomy and Astrophysics</i> , 2010, 510, L4.	5.1	52
22	The extremely red L dwarf ULAS J222711-004547 dominated by dust. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 439, 372-386.	4.4	49
23	Primeval very low-mass stars and brown dwarfs I. Six new L subdwarfs, classification and atmospheric properties. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 464, 3040-3059.	4.4	47
24	The 10 parsec sample in the Gaia era. <i>Astronomy and Astrophysics</i> , 2021, 650, A201.	5.1	46
25	Evidence of a dynamically evolving Galactic warp. <i>Nature Astronomy</i> , 2020, 4, 590-596.	10.1	45
26	The discovery of a very cool binary system. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, ,	4.4	44
27	The Gaia ultracool dwarf sample I. Known L and T dwarfs and the first Gaia data release. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, 401-415.	4.4	44
28	The initial Gaia source list. <i>Astronomy and Astrophysics</i> , 2014, 570, A87.	5.1	36
29	The Gaia Ultracool dwarf sample II. Structure at the end of the main sequence. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 485, 4423-4440.	4.4	36
30	A 3D view of the Hyades stellar and sub-stellar population. <i>Astronomy and Astrophysics</i> , 2019, 623, A35.	5.1	34
31	A spectroscopic and proper motion search of Sloan Digital Sky Survey: red subdwarfs in binary systems. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 434, 1005-1027.	4.4	28
32	Parallaxes of Five L Dwarfs with a Robotic Telescope. <i>Publications of the Astronomical Society of the Pacific</i> , 2014, 126, 15-26.	3.1	26
33	Y Dwarf Trigonometric Parallaxes from the Spitzer Space Telescope. <i>Astrophysical Journal</i> , 2018, 867, 109.	4.5	25
34	The Torino Observatory Parallax Program: White dwarf candidates. <i>Astronomy and Astrophysics</i> , 2003, 404, 317-323.	5.1	24
35	Discovery of a new Y dwarf: WISE J030449.03-270508.3. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 444, 1931-1939.	4.4	24
36	The distance to the cool T9 brown dwarf ULAS J003402.77-005206.7. <i>Astronomy and Astrophysics</i> , 2010, 511, A30.	5.1	22

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37	A 1500Å deg ² near infrared proper motion catalogue from the UKIDSS Large Area Survey. Monthly Notices of the Royal Astronomical Society, 2013, 437, 3603-3625.	4.4	22
38	Primeval very low-mass stars and brown dwarfs – IV. New L subdwarfs, Gaia astrometry, population properties, and a blue brown dwarf binary. Monthly Notices of the Royal Astronomical Society, 2018, 480, 5447-5474.	4.4	22
39	The kinematic signature of the Galactic warp in Gaia DR1. Astronomy and Astrophysics, 2017, 601, A115.	5.1	20
40	A predicted astrometric microlensing event by a nearby white dwarf. Monthly Notices of the Royal Astronomical Society: Letters, 2018, 478, L29-L33.	3.3	20
41	The discovery of a T6.5 subdwarf. Monthly Notices of the Royal Astronomical Society, 2014, 440, 359-364.	4.4	19
42	Unexpected stellar velocity distribution in the warped Galactic disk. Nature, 1998, 392, 471-473.	27.8	16
43	High proper motion objects from the UKIDSS Galactic plane survey. Monthly Notices of the Royal Astronomical Society, 2014, 443, 2327-2341.	4.4	15
44	Hunting for brown dwarf binaries and testing atmospheric models with X-Shooter. Monthly Notices of the Royal Astronomical Society, 2016, 455, 1341-1363.	4.4	13
45	Parallaxes of Southern Extremely Cool objects III: 118 L and T dwarfs. Monthly Notices of the Royal Astronomical Society, 2018, 481, 3548-3562.	4.4	11
46	49 new T dwarfs identified using methane imaging. Monthly Notices of the Royal Astronomical Society, 2015, 450, 2486-2499.	4.4	10
47	Ultracool dwarf benchmarks with Gaia primaries. Monthly Notices of the Royal Astronomical Society, 2017, 470, 4885-4907.	4.4	10
48	Primeval very low-mass stars and brown dwarfs – III. The halo transitional brown dwarfs. Monthly Notices of the Royal Astronomical Society, 2018, 479, 1383-1391.	4.4	10
49	A method for selecting M dwarfs with an increased likelihood of unresolved ultracool companionship. Monthly Notices of the Royal Astronomical Society, 2016, 457, 2192-2208.	4.4	9
50	A Wide Planetary Mass Companion Discovered through the Citizen Science Project Backyard Worlds: Planet 9. Astrophysical Journal, 2021, 923, 48.	4.5	9
51	A Focus on L Dwarfs with Trigonometric Parallaxes. Publications of the Astronomical Society of the Pacific, 2018, 130, 064402.	3.1	8
52	The Short-term Stability of a Simulated Differential Astrometric Reference Frame in the Gaia Era. Publications of the Astronomical Society of the Pacific, 2017, 129, 054503.	3.1	7
53	Parallaxes and infrared photometry of three Y0 dwarfs. Monthly Notices of the Royal Astronomical Society, 2017, 468, 3764-3774.	4.4	7
54	The Gaia Ultra-Cool Dwarf Sample – III: seven new multiple systems containing at least one Gaia DR2 ultracool dwarf. Monthly Notices of the Royal Astronomical Society, 2020, 494, 4891-4906.	4.4	6

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55	WISE J064336.71-022315.4: A Thick-disk L8 Brown Dwarf Discovered by Gaia DR2 at 13.9 pc. Research Notes of the AAS, 2018, 2, 205.	0.7	4
56	Discovery of a Uniquely Cool and Compact Source at 28 pc from the Sun. Research Notes of the AAS, 2021, 5, 229.	0.7	4
57	Evidence for orbital motion of CW Leonis from ground-based astrometry. Monthly Notices of the Royal Astronomical Society: Letters, 2017, 471, L1-L5.	3.3	3
58	The Gaia Attitude Star Catalog. Astronomy and Computing, 2016, 15, 29-32.	1.7	2
59	Low-resolution near-infrared spectroscopic signatures of unresolved ultracool companions to M dwarfs. Monthly Notices of the Royal Astronomical Society, 2017, 467, 5001-5021.	4.4	2
60	The Differential Astrometric Reference Frame on short timescales in the Gaia Era. Proceedings of the International Astronomical Union, 2017, 12, 79-80.	0.0	0
61	Search for Galactic warp signal in Gaia DR1 proper motions. Proceedings of the International Astronomical Union, 2017, 12, 185-188.	0.0	0