

Richard L Smart

List of Publications by Citations

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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.

61 papers	2,010 citations	26 h-index	44 g-index
61 ext. papers	2,555 ext. citations	5.2 avg, IF	4.3 L-index

#	Paper	IF	Citations
61	Gaia Early Data Release 3. <i>Astronomy and Astrophysics</i> , 2021 , 649, A2	5.1	219
60	MID-INFRARED PHOTOMETRY OF COLD BROWN DWARFS: DIVERSITY IN AGE, MASS, AND METALLICITY. <i>Astrophysical Journal</i> , 2010 , 710, 1627-1640	4.7	134
59	A very cool brown dwarf in UKIDSS DR1. <i>Monthly Notices of the Royal Astronomical Society</i> , 2007 , 381, 1400-1412	4.3	115
58	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	4.3	104
57	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	4.3	88
56	VIRAC: the VVV Infrared Astrometric Catalogue. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 474, 1826-1849	4.3	65
55	THE PHYSICAL PROPERTIES OF FOUR ~600 K T DWARFS. <i>Astrophysical Journal</i> , 2009 , 695, 1517-1526	4.7	63
54	Gaia Early Data Release 3. <i>Astronomy and Astrophysics</i> , 2021 , 649, A6	5.1	61
53	PARALLAXES OF SOUTHERN EXTREMELY COOL OBJECTS. I. TARGETS, PROPER MOTIONS, AND FIRST RESULTS. <i>Astronomical Journal</i> , 2011 , 141, 54	4.9	60
52	The Galactic warp revealed by Gaia DR2 kinematics. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2018 , 481, L21-L25	4.3	54
51	PARALLAXES OF SOUTHERN EXTREMELY COOL OBJECTS (PARSEC). II. SPECTROSCOPIC FOLLOW-UP AND PARALLAXES OF 52 TARGETS. <i>Astronomical Journal</i> , 2013 , 146, 161	4.9	54
50	47 new T dwarfs from the UKIDSS Large Area Survey. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010 , no-no	4.3	52
49	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	4.3	51
48	Parallaxes and physical properties of 11 mid-to-late T dwarfs. <i>Astronomy and Astrophysics</i> , 2010 , 524, A38	5.1	51
47	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	8	50
46	Evidence of a thick disk rotation-metallicity correlation. <i>Astronomy and Astrophysics</i> , 2010 , 510, L4	5.1	50
45	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	4.3	46

44	THE PROPERTIES OF THE 500 K DWARF UGPS J072227.51054031.2 AND A STUDY OF THE FAR-RED FLUX OF COLD BROWN DWARFS. <i>Astrophysical Journal</i> , 2012 , 748, 74	4.7	46
43	The extremely red L dwarf ULAS J222711004547 is dominated by dust. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014 , 439, 372-386	4.3	44
42	The discovery of a very cool binary system. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010 ,	4.3	42
41	Primeval very low-mass stars and brown dwarfs II. Six new L subdwarfs, classification and atmospheric properties. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017 , 464, 3040-3059	4.3	37
40	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	8	34
39	The initial Gaia source list. <i>Astronomy and Astrophysics</i> , 2014 , 570, A87	5.1	32
38	A 5D view of the π Per, Pleiades, and Praesepe clusters. <i>Astronomy and Astrophysics</i> , 2019 , 628, A66	5.1	31
37	The Gaia ultracool dwarf sample II. Known L and T dwarfs and the first Gaia data release. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017 , 469, 401-415	4.3	31
36	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	4.3	27
35	The Torino Observatory Parallax Program: White dwarf candidates. <i>Astronomy and Astrophysics</i> , 2003 , 404, 317-323	5.1	24
34	Parallaxes of Five L Dwarfs with a Robotic Telescope. <i>Publications of the Astronomical Society of the Pacific</i> , 2014 , 126, 15-26	5	22
33	Discovery of a new Y dwarf: WISE J030449.03070508.3. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014 , 444, 1931-1939	4.3	22
32	The distance to the cool T9 brown dwarf ULAS J003402.77-005206.7. <i>Astronomy and Astrophysics</i> , 2010 , 511, A30	5.1	21
31	A 3D view of the Hyades stellar and sub-stellar population. <i>Astronomy and Astrophysics</i> , 2019 , 623, A35	5.1	21
30	Evidence of a dynamically evolving Galactic warp. <i>Nature Astronomy</i> , 2020 , 4, 590-596	12.1	20
29	A 1500 deg ² near infrared proper motion catalogue from the UKIDSS Large Area Survey. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013 , 437, 3603-3625	4.3	19
28	Primeval very low-mass stars and brown dwarfs IV. New L subdwarfs, Gaia astrometry, population properties, and a blue brown dwarf binary. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 480, 5447-5474	4.3	19
27	The Gaia ultracool dwarf sample III. Structure at the end of the main sequence. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019 , 485, 4423-4440	4.3	18

26	Y Dwarf Trigonometric Parallaxes from the Spitzer Space Telescope. <i>Astrophysical Journal</i> , 2018 , 867, 109	4.7	18
25	The kinematic signature of the Galactic warp in Gaia DR1. <i>Astronomy and Astrophysics</i> , 2017 , 601, A115	5.1	16
24	The discovery of a T6.5 subdwarf. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014 , 440, 359-364	4.3	16
23	Unexpected stellar velocity distribution in the warped Galactic disk. <i>Nature</i> , 1998 , 392, 471-473	50.4	15
22	A predicted astrometric microlensing event by a nearby white dwarf. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2018 , 478, L29-L33	4.3	13
21	High proper motion objects from the UKIDSS Galactic plane survey. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014 , 443, 2327-2341	4.3	13
20	Primeval very low-mass stars and brown dwarfs III. The halo transitional brown dwarfs. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 479, 1383-1391	4.3	9
19	The 10 parsec sample in the Gaia era. <i>Astronomy and Astrophysics</i> ,	5.1	9
18	A method for selecting M dwarfs with an increased likelihood of unresolved ultracool companionship. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016 , 457, 2192-2208	4.3	8
17	Hunting for brown dwarf binaries and testing atmospheric models with X-Shooter. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016 , 455, 1341-1363	4.3	8
16	Ultracool dwarf benchmarks with Gaia primaries. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017 , 470, 4885-4907	4.3	8
15	49 new T dwarfs identified using methane imaging. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015 , 450, 2486-2499	4.3	8
14	Parallaxes and infrared photometry of three Y0 dwarfs. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017 , 468, 3764-3774	4.3	7
13	Parallaxes of Southern Extremely Cool objects III: 118 L and T dwarfs. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 481, 3548-3562	4.3	6
12	A Focus on L Dwarfs with Trigonometric Parallaxes. <i>Publications of the Astronomical Society of the Pacific</i> , 2018 , 130, 064402	5	6
11	WISE J064336.71-022315.4: A Thick-disk L8 Brown Dwarf Discovered by Gaia DR2 at 13.9 pc. <i>Research Notes of the AAS</i> , 2018 , 2, 205	0.8	4
10	A classifier for spurious astrometric solutions in Gaia eDR3. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022 , 510, 2597-2616	4.3	4
9	The Short-term Stability of a Simulated Differential Astrometric Reference Frame in the Gaia Era. <i>Publications of the Astronomical Society of the Pacific</i> , 2017 , 129, 054503	5	3

8	The Gaia Ultra-Cool Dwarf Sample III: seven new multiple systems containing at least one Gaia DR2 ultracool dwarf. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 494, 4891-4906	4.3	3
7	The Gaia Attitude Star Catalog. <i>Astronomy and Computing</i> , 2016 , 15, 29-32	2.4	2
6	Low-resolution near-infrared spectroscopic signatures of unresolved ultracool companions to M dwarfs. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017 , 467, 5001-5021	4.3	2
5	Evidence for orbital motion of CW Leonis from ground-based astrometry. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2017 , 471, L1-L5	4.3	2
4	A Wide Planetary Mass Companion Discovered through the Citizen Science Project Backyard Worlds: Planet 9. <i>Astrophysical Journal</i> , 2021 , 923, 48	4.7	2
3	Discovery of a Uniquely Cool and Compact Source at 28 pc from the Sun. <i>Research Notes of the AAS</i> , 2021 , 5, 229	0.8	1
2	Search for Galactic warp signal in Gaia DR1 proper motions. <i>Proceedings of the International Astronomical Union</i> , 2017 , 12, 185-188	0.1	
1	The Differential Astrometric Reference Frame on short timescales in the Gaia Era. <i>Proceedings of the International Astronomical Union</i> , 2017 , 12, 79-80	0.1	