

# Gregory N Mace

## List of Publications by Year in descending order

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82  
papers

3,974  
citations

126907

33  
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61  
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83  
docs citations

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times ranked

3855  
citing authors

#	ARTICLE	IF	CITATIONS
1	STRONG NEBULAR LINE RATIOS IN THE SPECTRA of $z \sim 2-3$ STAR FORMING GALAXIES: FIRST RESULTS FROM KBSS-MOSFIRE. <i>Astrophysical Journal</i> , 2014, 795, 165.	4.5	508
2	FURTHER DEFINING SPECTRAL TYPE $\alpha$ -AND EXPLORING THE LOW-MASS END OF THE FIELD BROWN DWARF MASS FUNCTION. <i>Astrophysical Journal</i> , 2012, 753, 156.	4.5	276
3	A T8.5 BROWN DWARF MEMBER OF THE $\eta$ URSAE MAJORIS SYSTEM. <i>Astronomical Journal</i> , 2013, 145, 84.	4.7	211
4	ZODIACAL EXOPLANETS IN TIME (ZEIT). III. A SHORT-PERIOD PLANET ORBITING A PRE-MAIN-SEQUENCE STAR IN THE UPPER SCORPIUS OB ASSOCIATION. <i>Astronomical Journal</i> , 2016, 152, 61.	4.7	156
5	ZODIACAL EXOPLANETS IN TIME (ZEIT). I. A NEPTUNE-SIZED PLANET ORBITING AN M4.5 DWARF IN THE HYADES STAR CLUSTER. <i>Astrophysical Journal</i> , 2016, 818, 46.	4.5	155
6	THE $\text{Ly}\alpha$ PROPERTIES OF FAINT GALAXIES AT $z \sim 2-3$ WITH SYSTEMIC REDSHIFTS AND VELOCITY DISPERSIONS FROM KECK-MOSFIRE. <i>Astrophysical Journal</i> , 2014, 795, 33.	4.5	151
7	Compact Disks in a High-resolution ALMA Survey of Dust Structures in the Taurus Molecular Cloud. <i>Astrophysical Journal</i> , 2019, 882, 49.	4.5	139
8	ZODIACAL EXOPLANETS IN TIME (ZEIT). IV. SEVEN TRANSITING PLANETS IN THE PRAESEPE CLUSTER. <i>Astronomical Journal</i> , 2017, 153, 64.	4.7	133
9	THE ALLWISE MOTION SURVEY AND THE QUEST FOR COLD SUBDWARFS. <i>Astrophysical Journal</i> , 2014, 783, 122.	4.5	118
10	Design and early performance of IGRINS (Immersion Grating Infrared Spectrometer). <i>Proceedings of SPIE</i> , 2014, , .	0.8	108
11	A STUDY OF THE DIVERSE T DWARF POPULATION REVEALED BY <i>WISE</i> . <i>Astrophysical Journal</i> , Supplement Series, 2013, 205, 6.	7.7	107
12	A CANDIDATE YOUNG MASSIVE PLANET IN ORBIT AROUND THE CLASSICAL T TAURI STAR CI TAU*. <i>Astrophysical Journal</i> , 2016, 826, 206.	4.5	103
13	Placing the Spotted T Tauri Star LkCa 4 on an HR Diagram. <i>Astrophysical Journal</i> , 2017, 836, 200.	4.5	97
14	Zodiacal Exoplanets in Time (ZEIT). VI. A Three-planet System in the Hyades Cluster Including an Earth-sized Planet. <i>Astronomical Journal</i> , 2018, 155, 4.	4.7	94
15	Preliminary Trigonometric Parallaxes of 184 Late-T and Y Dwarfs and an Analysis of the Field Substellar Mass Function into the $\alpha$ -Planetary-Mass Regime. <i>Astrophysical Journal</i> , Supplement Series, 2019, 240, 19.	7.7	83
16	A solar C/O and sub-solar metallicity in a hot Jupiter atmosphere. <i>Nature</i> , 2021, 598, 580-584.	27.8	82
17	DISCOVERY OF THE YOUNG L DWARF WISE J174102.78 $\alpha$ 464225.5. <i>Astronomical Journal</i> , 2014, 147, 34.	4.7	75
18	THE ALLWISE MOTION SURVEY, PART 2. <i>Astrophysical Journal</i> , Supplement Series, 2016, 224, 36.	7.7	70

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19	<i>HUBBLE SPACE TELESCOPE</i> SPECTROSCOPY OF BROWN DWARFS DISCOVERED WITH THE WIDE-FIELD INFRARED SURVEY EXPLORER. <i>Astrophysical Journal</i> , 2015, 804, 92.	4.5	67
20	Magnetic Inflation and Stellar Mass. II. On the Radii of Single, Rapidly Rotating, Fully Convective M-Dwarf Stars. <i>Astronomical Journal</i> , 2018, 155, 225.	4.7	62
21	Nearby M, L, and T Dwarfs Discovered by the <i>Wide-field Infrared Survey Explorer</i> (<i>WISE</i>). <i>Publications of the Astronomical Society of the Pacific</i> , 2013, 125, 809-837.	3.1	59
22	PLANETS AROUND LOW-MASS STARS (PALMS). VI. DISCOVERY OF A REMARKABLY RED PLANETARY-MASS COMPANION TO THE AB DOR MOVING GROUP CANDIDATE 2MASS J22362452+4751425*. <i>Astronomical Journal</i> , 2017, 153, 18.	4.7	58
23	THE MASS-METALLICITY RELATION OF A <i>z</i>- $\frac{1}{4}$ 2 PROTOCLUSTER WITH MOSFIRE. <i>Astrophysical Journal</i> , 2013, 774, 130.	4.5	55
24	Zodiacal exoplanets in time (ZEIT) – II. A “super-Earth” orbiting a young K dwarf in the Pleiades Neighbourhood. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 464, 850-862.	4.4	54
25	THE EXEMPLAR T8 SUBDWARF COMPANION OF WOLF 1130. <i>Astrophysical Journal</i> , 2013, 777, 36.	4.5	53
26	The Young Substellar Companion ROXs 12 B: Near-infrared Spectrum, System Architecture, and Spin-Orbit Misalignment*. <i>Astronomical Journal</i> , 2017, 154, 165.	4.7	45
27	Surface Gravities for 228 M, L, and T Dwarfs in the NIRSPEC Brown Dwarf Spectroscopic Survey*. <i>Astrophysical Journal</i> , 2017, 838, 73.	4.5	44
28	THREE NEW COOL BROWN DWARFS DISCOVERED WITH THE <i>WIDE-FIELD INFRARED SURVEY EXPLORER</i> (<i>WISE</i>) AND AN IMPROVED SPECTRUM OF THE YO DWARF WISE J041022.71+150248.4. <i>Astronomical Journal</i> , 2014, 147, 113.	4.7	43
29	THE FIRST DETECTION OF PHOTOMETRIC VARIABILITY IN A Y DWARF: WISE J140518.39+553421.3. <i>Astrophysical Journal</i> , 2016, 823, 152.	4.5	42
30	Characterizing TW Hydra. <i>Astrophysical Journal</i> , 2018, 853, 120.	4.5	38
31	NEW M, L, AND T DWARF COMPANIONS TO NEARBY STARS FROM THE <i>WIDE-FIELD INFRARED SURVEY EXPLORER</i>. <i>Astrophysical Journal</i> , 2012, 760, 152.	4.5	37
32	DISCOVERY OF THE Y1 DWARF WISE J064723.23+623235.5. <i>Astrophysical Journal</i> , 2013, 776, 128.	4.5	37
33	300 nights of science with IGRINS at McDonald Observatory. <i>Proceedings of SPIE</i> , 2016, , .	0.8	35
34	TESS Hunt for Young and Maturing Exoplanets (THYME). VI. An 11 Myr Giant Planet Transiting a Very-low-mass Star in Lower Centaurus Crux. <i>Astronomical Journal</i> , 2022, 163, 156.	4.7	34
35	IGRINS at the Discovery Channel telescope and Gemini South. , 2018, , .		31
36	<i>SPITZER</i> PHOTOMETRY OF <i>WISE</i>-SELECTED BROWN DWARF AND HYPER-LUMINOUS INFRARED GALAXY CANDIDATES. <i>Astronomical Journal</i> , 2012, 144, 148.	4.7	29

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37	Magnetic Inflation and Stellar Mass. I. Revised Parameters for the Component Stars of the Kepler Low-mass Eclipsing Binary T-Cyg1-12664. <i>Astronomical Journal</i> , 2017, 154, 100.	4.7	29
38	IGRINS Spectral Library. <i>Astrophysical Journal</i> , Supplement Series, 2018, 238, 29.	7.7	29
39	Excitation of Molecular Hydrogen in the Orion Bar Photodissociation Region from a Deep Near-infrared IGRINS Spectrum. <i>Astrophysical Journal</i> , 2017, 838, 152.	4.5	27
40	CO Detected in CI Tau b: Hot Start Implied by Planet Mass and $M_K$ . <i>Astrophysical Journal Letters</i> , 2019, 878, L37.	8.3	25
41	DISCOVERY OF FOUR HIGH PROPER MOTION L DWARFS, INCLUDING A 10 pc L DWARF AT THE L/T TRANSITION. <i>Astrophysical Journal</i> , 2013, 776, 126.	4.5	23
42	THE CHEMICAL COMPOSITIONS OF VERY METAL-POOR STARS HD 122563 AND HD 140283: A VIEW FROM THE INFRARED. <i>Astrophysical Journal</i> , 2016, 819, 103.	4.5	23
43	Fluorine in the Solar Neighborhood: The Need for Several Cosmic Sources. <i>Astrophysical Journal</i> , 2020, 893, 37.	4.5	21
44	Wolf 1130: A Nearby Triple System Containing a Cool, Ultramassive White Dwarf. <i>Astrophysical Journal</i> , 2018, 854, 145.	4.5	20
45	New Y and T Dwarfs from <i>WISE</i> Identified by Methane Imaging. <i>Astrophysical Journal</i> , Supplement Series, 2018, 236, 28.	7.7	19
46	The Mean Magnetic Field Strength of CI Tau. <i>Astrophysical Journal</i> , 2020, 888, 116.	4.5	19
47	Chemical Compositions of Evolved Stars from Near-infrared IGRINS High-resolution Spectra. I. Abundances in Three Red Horizontal Branch Stars. <i>Astrophysical Journal</i> , 2018, 865, 44.	4.5	18
48	Effective Temperatures of Low-mass Stars from High-resolution H-band Spectroscopy. <i>Astrophysical Journal</i> , 2019, 879, 105.	4.5	18
49	Obliquity Constraints on the Planetary-mass Companion HD 106906 b. <i>Astronomical Journal</i> , 2021, 162, 217.	4.7	15
50	High-resolution Spectroscopic Monitoring Observations of FU Orionis-type Object, V960 Mon. <i>Astrophysical Journal</i> , 2020, 900, 36.	4.5	14
51	The IGRINS YSO Survey. I. Stellar Parameters of Pre-main-sequence Stars in Taurus-Auriga. <i>Astrophysical Journal</i> , 2021, 921, 53.	4.5	13
52	Fluorescent $H_2$ Emission Lines from the Reflection Nebula NGC 7023 Observed with IGRINS. <i>Astrophysical Journal</i> , 2017, 841, 13.	4.5	12
53	WISEP J061135.13+041024.0 AB: A J-BAND FLUX REVERSAL BINARY AT THE L/T TRANSITION. <i>Astronomical Journal</i> , 2014, 148, 6.	4.7	11
54	Discovery of an Edge-on Circumstellar Debris Disk around BD+45° 598: A Newly Identified Member of the $\beta$ Pictoris Moving Group. <i>Astrophysical Journal</i> , 2021, 912, 115.	4.5	11

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55	IGRINS SPECTROSCOPY OF CLASS I SOURCES: IRAS 03445+3242 AND IRAS 04239+2436. <i>Astrophysical Journal</i> , 2016, 826, 179.	4.5	10
56	The Spectrum of SS 433 in the H and K Bands. <i>Astrophysical Journal</i> , 2017, 841, 79.	4.5	10
57	THREE-DIMENSIONAL SHOCK STRUCTURE OF THE ORION KL OUTFLOW WITH IGRINS*. <i>Astrophysical Journal</i> , 2016, 833, 275.	4.5	10
58	IGRINS NEAR-IR HIGH-RESOLUTION SPECTROSCOPY OF MULTIPLE JETS AROUND LkH $\alpha$ 234*. <i>Astrophysical Journal</i> , 2016, 817, 148.	4.5	9
59	DIRECT SPECTRAL DETECTION: AN EFFICIENT METHOD TO DETECT AND CHARACTERIZE BINARY SYSTEMS. <i>Astronomical Journal</i> , 2016, 151, 3.	4.7	9
60	GMTNIRS: progress toward the Giant Magellan Telescope near-infrared spectrograph. <i>Proceedings of SPIE</i> , 2016, , .	0.8	9
61	An Improved Near-infrared Spectrum of the Archetype Y Dwarf WISEP J182831.08+265037.8. <i>Astrophysical Journal</i> , 2021, 920, 20.	4.5	9
62	V899 Mon: A Peculiar Eruptive Young Star Close to the End of Its Outburst. <i>Astrophysical Journal</i> , 2021, 923, 171.	4.5	9
63	THE FIRST ALLWISE PROPER MOTION DISCOVERY: WISEA J070720.50+170532.7. <i>Astronomical Journal</i> , 2014, 147, 61.	4.7	8
64	A 1.46–2.48 $\mu$ m spectroscopic atlas of a T6 dwarf (1060 Å) atmosphere with IGRINS: first detections of H <sub>2</sub> S and H <sub>2</sub> , and verification of H <sub>2</sub> O, CH <sub>4</sub> , and NH <sub>3</sub> line lists. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 514, 3160-3178.	4.4	8
65	Chemical Compositions of Red Giant Stars from Habitable Zone Planet Finder Spectroscopy. <i>Astronomical Journal</i> , 2021, 161, 128.	4.7	6
66	Projected Rotational Velocities and Fundamental Properties of Low-mass Pre-main-sequence Stars in the Taurus–Auriga Star-forming Region. <i>Astrophysical Journal</i> , 2021, 911, 138.	4.5	6
67	Evidence of Accretion Burst: The Viscously Heated Inner Disk of the Embedded Protostar IRAS 16316-1540. <i>Astrophysical Journal</i> , 2021, 919, 116.	4.5	5
68	High-resolution Near-IR Spectral Mapping with H <sub>2</sub> and [Fe ii] Lines of Multiple Outflows around LkH $\alpha$ 234. <i>Astrophysical Journal</i> , 2018, 858, 23.	4.5	4
69	The Impact of Rotation Velocity on Measuring Magnetic Fields of K and M Stars. <i>Research Notes of the AAS</i> , 2020, 4, 241.	0.7	4
70	Inner Warm Disk of ESO H $\alpha$ 279a Revealed by Na i and CO Overtone Emission Lines. <i>Astrophysical Journal</i> , 2017, 844, 4.	4.5	3
71	Probing Late-type T Dwarf J $\lambda$ Color Outliers for Signs of Age*. <i>Astrophysical Journal</i> , 2018, 867, 96.	4.5	3
72	IGRINS RV: A Precision Radial Velocity Pipeline for IGRINS Using Modified Forward Modeling in the Near-infrared*. <i>Astronomical Journal</i> , 2021, 161, 283.	4.7	3

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73	The Transition from Diffuse Molecular Gas to Molecular Cloud Material in Taurus. <i>Astrophysical Journal</i> , 2021, 914, 59.	4.5	3
74	2MASS J04435686+3723033 B: A Young Companion at the Substellar Boundary with Potential Membership in the $\rho^2$ Pictoris Moving Group. <i>Astrophysical Journal</i> , 2020, 896, 173.	4.5	3
75	The IGRINS YSO Survey II: Veiling Spectra of Pre-main-sequence Stars in Taurus-Auriga. <i>Astrophysical Journal</i> , 2021, 922, 27.	4.5	3
76	Radial Velocities of Low-mass Candidate TWA Members. <i>Astrophysical Journal</i> , 2019, 879, 63.	4.5	1
77	Near-infrared Accretion Diagnostics of Young Stellar Objects. <i>Research Notes of the AAS</i> , 2019, 3, 195.	0.7	1
78	Constraining Temperature and Density of Accretion Flows in T Tauri Stars from Brackett Line Ratios. <i>Research Notes of the AAS</i> , 2020, 4, 7.	0.7	1
79	Doppler Beaming of M Dwarfs in TESS, Kepler/K2, and Gaia Photometry. <i>Research Notes of the AAS</i> , 2020, 4, 183.	0.7	1
80	High-resolution infrared spectroscopy of field Red Horizontal Branch stars. <i>Journal of Molecular Structure</i> , 2018, 1174, 3-5.	3.6	0
81	Origin of Hot Bubble in NGC 6822 Hubble V Star-Forming Region. <i>Proceedings of the International Astronomical Union</i> , 2018, 14, 96-98.	0.0	0
82	TESS Photometry of the Precataclysmic Variable Wolf 1130AB. <i>Research Notes of the AAS</i> , 2020, 4, 197.	0.7	0