

# Jared R Males

## List of Publications by Year in descending order

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86  
papers

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186265

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docs citations

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1829  
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#	ARTICLE	IF	CITATIONS
1	THE GEMINI/NICI PLANET-FINDING CAMPAIGN: THE FREQUENCY OF PLANETS AROUND YOUNG MOVING GROUP STARS. <i>Astrophysical Journal</i> , 2013, 777, 160.	4.5	176
2	FIRST LIGHT LBT AO IMAGES OF HR 8799 bcde AT 1.6 AND 3.3 $\hat{1}/4$ m: NEW DISCREPANCIES BETWEEN YOUNG PLANETS AND OLD BROWN DWARFS. <i>Astrophysical Journal</i> , 2012, 753, 14.	4.5	152
3	HD 106906 b: A PLANETARY-MASS COMPANION OUTSIDE A MASSIVE DEBRIS DISK. <i>Astrophysical Journal Letters</i> , 2014, 780, L4.	8.3	143
4	THE GEMINI NICI PLANET-FINDING CAMPAIGN: THE FREQUENCY OF GIANT PLANETS AROUND YOUNG B AND A STARS. <i>Astrophysical Journal</i> , 2013, 776, 4.	4.5	138
5	AN ENIGMATIC POINT-LIKE FEATURE WITHIN THE HD 169142 TRANSITIONAL DISK,. <i>Astrophysical Journal Letters</i> , 2014, 792, L22.	8.3	119
6	THE GEMINI NICI PLANET-FINDING CAMPAIGN: DISCOVERY OF A CLOSE SUBSTELLAR COMPANION TO THE YOUNG DEBRIS DISK STAR PZ Tel. <i>Astrophysical Journal Letters</i> , 2010, 720, L82-L87.	8.3	112
7	DIRECTLY IMAGED L-T TRANSITION EXOPLANETS IN THE MID-INFRARED<sup>,</sup>. <i>Astrophysical Journal</i> , 2014, 792, 17.	4.5	112
8	Magellan Adaptive Optics Imaging of PDS 70: Measuring the Mass Accretion Rate of a Young Giant Planet within a Gapped Disk. <i>Astrophysical Journal Letters</i> , 2018, 863, L8.	8.3	107
9	MAGELLAN ADAPTIVE OPTICS FIRST-LIGHT OBSERVATIONS OF THE EXOPLANET<i>P</i> PIC b. II. 3â€“5<i>P</i> DIRECT IMAGING WITH MagAO+Clio, AND THE EMPIRICAL BOLOMETRIC LUMINOSITY OF A SELF-LUMINOUS GIANT PLANET. <i>Astrophysical Journal</i> , 2015, 815, 108.	4.5	104
10	Complex Spiral Structure in the HD 100546 Transitional Disk as Revealed by GPI and MagAO. <i>Astronomical Journal</i> , 2017, 153, 264.	4.7	99
11	THE GEMINI PLANET-FINDING CAMPAIGN: THE FREQUENCY OF GIANT PLANETS AROUND DEBRIS DISK STARS. <i>Astrophysical Journal</i> , 2013, 773, 179.	4.5	97
12	Adaptive optics for high-resolution imaging. <i>Nature Reviews Methods Primers</i> , 2021, 1, .	21.2	90
13	MAGELLAN ADAPTIVE OPTICS FIRST-LIGHT OBSERVATIONS OF THE EXOPLANET P <sup>2</sup> PIC b. I. DIRECT IMAGING IN THE FAR-RED OPTICAL WITH MagAO+VisAO AND IN THE NEAR-IR WITH NICI<sup>,</sup>. <i>Astrophysical Journal</i> , 2014, 786, 32.	4.5	88
14	Radar observations and shape model of asteroid 16 Psyche. <i>Icarus</i> , 2017, 281, 388-403.	2.5	87
15	An Optical/Near-infrared Investigation of HD 100546 b with the Gemini Planet Imager and MagAO. <i>Astronomical Journal</i> , 2017, 153, 244.	4.7	81
16	THE GEMINI NICI PLANET-FINDING CAMPAIGN: DISCOVERY OF A MULTIPLE SYSTEM ORBITING THE YOUNG A STAR HD 1160. <i>Astrophysical Journal</i> , 2012, 750, 53.	4.5	70
17	THE LEECH EXOPLANET IMAGING SURVEY: CHARACTERIZATION OF THE COLDEST DIRECTLY IMAGED EXOPLANET, GJ 504 b, AND EVIDENCE FOR SUPERSTELLAR METALLICITY*. <i>Astrophysical Journal</i> , 2016, 817, 166.	4.5	68
18	The Orbit of the Companion to HD 100453A: Binary-driven Spiral Arms in a Protoplanetary Disk. <i>Astrophysical Journal</i> , 2018, 854, 130.	4.5	62

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19	ADAPTIVE OPTICS IMAGING OF VHS 1256-1257: A LOW MASS COMPANION TO A BROWN DWARF BINARY SYSTEM. <i>Astrophysical Journal Letters</i> , 2016, 818, L12.	8.3	61
20	THE GEMINI NICI PLANET-FINDING CAMPAIGN: THE ORBIT OF THE YOUNG EXOPLANET $\hat{\iota}^2$ PICTORIS b. <i>Astrophysical Journal</i> , 2014, 794, 158.	4.5	59
21	ON-SKY PERFORMANCE ANALYSIS OF THE VECTOR APODIZING PHASE PLATE CORONAGRAPH ON MagAO/Clio2. <i>Astrophysical Journal</i> , 2017, 834, 175.	4.5	59
22	DISCOVERY AND VALIDATION OF A HIGH-DENSITY SUB-NEPTUNE FROM THE K2 MISSION. <i>Astrophysical Journal</i> , 2016, 830, 43.	4.5	49
23	An ALMA and MagAO Study of the Substellar Companion GQ Lup B <sup>+</sup> . <i>Astrophysical Journal</i> , 2017, 836, 223.	4.5	49
24	Ground-based adaptive optics coronagraphic performance under closed-loop predictive control. <i>Journal of Astronomical Telescopes, Instruments, and Systems</i> , 2018, 4, 1.	1.8	46
25	THE GRAY NEEDLE: LARGE GRAINS IN THE HD 15115 DEBRIS DISK FROM LBT/PISCES AND LBTI/LMIRcam <sup>2</sup> ADAPTIVE OPTICS IMAGING. <i>Astrophysical Journal</i> , 2012, 752, 57.	4.5	45
26	ON THE MORPHOLOGY AND CHEMICAL COMPOSITION OF THE HR 4796A DEBRIS DISK. <i>Astrophysical Journal</i> , 2015, 798, 96.	4.5	45
27	FOLLOW-UP OBSERVATIONS OF THE NEPTUNE MASS TRANSITING EXTRASOLAR PLANET HAT-P-11b. <i>Astrophysical Journal</i> , 2009, 699, L48-L51.	4.5	43
28	First closed-loop visible AO test results for the advanced adaptive secondary AO system for the Magellan Telescope: MagAO's performance and status. <i>Proceedings of SPIE</i> , 2012, , .	0.8	40
29	MagAO IMAGING OF LONG-PERIOD OBJECTS (MILO). I. A BENCHMARK M DWARF COMPANION EXCITING A MASSIVE PLANET AROUND THE SUN-LIKE STAR HD 7449*. <i>Astrophysical Journal</i> , 2016, 818, 106.	4.5	40
30	ON THE APPARENT ORBITAL INCLINATION CHANGE OF THE EXTRASOLAR TRANSITING PLANET TrES-2b. <i>Astrophysical Journal</i> , 2010, 714, 462-468.	4.5	38
31	MAGELLAN AO SYSTEM <sup>2</sup> , $\gamma_{S}$ , AND <sup>2</sup> OBSERVATIONS OF THE VERY WIDE 650 AU HD 106906 PLANETARY SYSTEM*. <i>Astrophysical Journal</i> , 2016, 823, 24.	4.5	35
32	DIRECT EXOPLANET DETECTION WITH BINARY DIFFERENTIAL IMAGING. <i>Astrophysical Journal</i> , 2015, 811, 157.	4.5	33
33	DIRECT IMAGING CONSTRAINTS ON THE PUTATIVE EXOPLANET 14 Her C. <i>Astrophysical Journal</i> , 2011, 732, 10.	4.5	31
34	DIRECT IMAGING IN THE HABITABLE ZONE AND THE PROBLEM OF ORBITAL MOTION. <i>Astrophysical Journal</i> , 2013, 771, 10.	4.5	31
35	MagAO: Status and on-sky performance of the Magellan adaptive optics system. <i>Proceedings of SPIE</i> , 2014, , .	0.8	30
36	Spatial linear dark field control: stabilizing deep contrast for exoplanet imaging using bright speckles. <i>Journal of Astronomical Telescopes, Instruments, and Systems</i> , 2017, 3, 1.	1.8	29

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37	NEW EXTINCTION AND MASS ESTIMATES FROM OPTICAL PHOTOMETRY OF THE VERY LOW MASS BROWN DWARF COMPANION CT CHAMAELEONTIS B WITH THE MAGELLAN AO SYSTEM. <i>Astrophysical Journal</i> , 2015, 801, 4.	4.5	23
38	NEW EXTINCTION AND MASS ESTIMATES OF THE LOW-MASS COMPANION 1RXS 1609 B WITH THE MAGELLAN AO SYSTEM: EVIDENCE OF AN INCLINED DUST DISK. <i>Astrophysical Journal Letters</i> , 2015, 807, L13.	8.3	22
39	NEW SPATIALLY RESOLVED OBSERVATIONS OF THE T Cha TRANSITION DISK AND CONSTRAINTS ON THE PREVIOUSLY CLAIMED SUBSTELLAR COMPANION. <i>Astrophysical Journal</i> , 2015, 801, 85.	4.5	21
40	The TWA 3 Young Triple System: Orbits, Disks, Evolution. <i>Astrophysical Journal</i> , 2017, 844, 168.	4.5	20
41	The Magellan Telescope Adaptive Secondary AO System: a visible and mid-IR AO facility. <i>Proceedings of SPIE</i> , 2010, , .	0.8	16
42	Design, Implementation, and On-Sky Performance of an Advanced Apochromatic Triplet Atmospheric Dispersion Corrector for the Magellan Adaptive Optics System and VisAO Camera. <i>Publications of the Astronomical Society of the Pacific</i> , 2013, 125, 966-975.	3.1	14
43	The Multiplicity of M Dwarfs in Young Moving Groups. <i>Astrophysical Journal</i> , 2017, 846, 93.	4.5	14
44	Spatial linear dark field control and holographic modal wavefront sensing with a vAPP coronagraph on MagAO-X. <i>Journal of Astronomical Telescopes, Instruments, and Systems</i> , 2019, 5, 1.	1.8	14
45	ISM DUST GRAINS AND N-BAND SPECTRAL VARIABILITY IN THE SPATIALLY RESOLVED SUBARCSECOND BINARY UY Aur,,. <i>Astrophysical Journal</i> , 2010, 711, 1280-1290.	4.5	13
46	THE FIRST CIRCUMSTELLAR DISK IMAGED IN SILHOUETTE AT VISIBLE WAVELENGTHS WITH ADAPTIVE OPTICS: MAGAO IMAGING OF ORION 218-354. <i>Astrophysical Journal Letters</i> , 2013, 775, L13.	8.3	13
47	MagAO: status and science. <i>Proceedings of SPIE</i> , 2016, , .	0.8	12
48	Laser Guide Star for Large Segmented-aperture Space Telescopes. I. Implications for Terrestrial Exoplanet Detection and Observatory Stability. <i>Astronomical Journal</i> , 2019, 157, 36.	4.7	12
49	MagAO-X first light. , 2020, , .		12
50	Improved Orbital Constraints and H $\alpha$ Photometric Monitoring of the Directly Imaged Protoplanet Analog HD 142527 B. <i>Astronomical Journal</i> , 2022, 164, 29.	4.7	12
51	High contrast imaging at the LBT: the LEECH exoplanet imaging survey. <i>Proceedings of SPIE</i> , 2014, , .	0.8	11
52	Multiwavelength observations of NaSt1 (WR $\hat{A}$ 122): equatorial mass loss and X-rays from an interacting Wolf-Rayet binary. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 450, 2551-2563.	4.4	11
53	DUST GRAIN EVOLUTION IN SPATIALLY RESOLVED T TAURI BINARIES. <i>Astrophysical Journal</i> , 2011, 740, 43.	4.5	10
54	Into the blue: AO science with MagAO in the visible. <i>Proceedings of SPIE</i> , 2014, , .	0.8	10

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55	Data-driven subspace predictive control of adaptive optics for high-contrast imaging. <i>Journal of Astronomical Telescopes, Instruments, and Systems</i> , 2021, 7, .	1.8	10
56	Direct imaging of exoplanets in the habitable zone with adaptive optics. <i>Proceedings of SPIE</i> , 2014, , .	0.8	9
57	Laser-Guide-Star Satellite for Ground-Based Adaptive Optics Imaging of Geosynchronous Satellites. <i>Journal of Spacecraft and Rockets</i> , 2017, 54, 621-639.	1.9	9
58	The path to visible extreme adaptive optics with MagAO-2K and MagAO-X. , 2016, , .		9
59	Lessons for WFIRST CGI from ground-based high-contrast systems. , 2018, , .		9
60	Optical and mechanical design of the extreme AO coronagraphic instrument MagAO-X. , 2018, , .		8
61	L-BAND SPECTROSCOPY WITH MAGELLAN-AO/Clio2: FIRST RESULTS ON YOUNGLOW-MASS COMPANIONS. <i>Astrophysical Journal</i> , 2016, 829, 39.	4.5	8
62	The Magellan Adaptive Secondary VisAO Camera: diffraction-limited broadband visible imaging and 20mas fiber array IFU. <i>Proceedings of SPIE</i> , 2010, , .	0.8	7
63	Laboratory Demonstration of Spatial Linear Dark Field Control For Imaging Extrasolar Planets in Reflected Light. <i>Publications of the Astronomical Society of the Pacific</i> , 2020, 132, 104502.	3.1	7
64	The Mysterious Lives of Speckles. I. Residual Atmospheric Speckle Lifetimes in Ground-based Coronagraphs. <i>Publications of the Astronomical Society of the Pacific</i> , 2021, 133, 104504.	3.1	7
65	MagAO IMAGING OF LONG-PERIOD OBJECTS (MILO). II. A PUZZLING WHITE DWARF AROUND THE SUN-LIKE STAR HD 11112. <i>Astrophysical Journal</i> , 2016, 831, 177.	4.5	5
66	The HOSTS Survey: Evidence for an Extended Dust Disk and Constraints on the Presence of Giant Planets in the Habitable Zone of $\hat{\iota}^2$ Leo. <i>Astronomical Journal</i> , 2021, 161, 186.	4.7	5
67	High-contrast observations of brown dwarf companion HR $\hat{A}$ 2562 $\hat{A}$ B with the vector Apodizing Phase Plate coronagraph. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 506, 3224-3238.	4.4	5
68	Laboratory demonstration of real time frame selection with Magellan AO. <i>Proceedings of SPIE</i> , 2012, , .	0.8	4
69	Resolving the H $\hat{\alpha}$ -emitting Region in the Wind of $\hat{\iota}$ Carinae. <i>Astrophysical Journal Letters</i> , 2017, 841, L7.	8.3	4
70	The Intricate Structure of HH 508, the Brightest Microjet in the Orion Nebula. <i>Astrophysical Journal</i> , 2018, 854, 144.	4.5	4
71	A Wide-orbit Exoplanet OGLE-2012-BLG-0838Lb. <i>Astronomical Journal</i> , 2020, 159, 261.	4.7	4
72	Information-theoretical Limits of Recursive Estimation and Closed-loop Control in High-contrast Imaging. <i>Astrophysical Journal, Supplement Series</i> , 2021, 256, 39.	7.7	4

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73	Orbital Differential Imaging: a new high-contrast post-processing technique for direct imaging of exoplanets. Proceedings of SPIE, 2015, , .	0.8	3
74	The hunt for Sirius Ab: comparison of algorithmic sky and PSF estimation performance in deep coronagraphic thermal-IR high contrast imaging. , 2018, , .		3
75	Status of MagAO and review of astronomical science with visible light adaptive optics. , 2018, , .		3
76	LEECH: A 100 Night Exoplanet Imaging Survey at the LBT. Proceedings of the International Astronomical Union, 2013, 8, 70-71.	0.0	2
77	Results from the Gemini NICI Planet-Finding Campaign. , 2014, , .		2
78	OGLE-2007-BLG-224L: A Direct Test of Terrestrial Parallax. Astrophysical Journal, 2021, 908, 240.	4.5	2
79	Unlocking Starlight Subtraction in Full-data-rate Exoplanet Imaging by Efficiently Updating Karhunen-Loève Eigenimages. Astronomical Journal, 2021, 161, 166.	4.7	2
80	Focal plane wavefront sensing and control strategies for high-contrast imaging on the MagAO-X instrument. , 2018, , .		2
81	High-contrast Imaging with Fizeau Interferometry: the Case of Altair*. Astronomical Journal, 2022, 163, 62.	4.7	2
82	High Contrast Imaging of an Exoplanet with the Magellan VisAO Camera. Proceedings of the International Astronomical Union, 2013, 8, 46-47.	0.0	1
83	Direct imaging of Beta Pictoris b with first-light Magellan Adaptive Optics. Proceedings of the International Astronomical Union, 2013, 8, 252-256.	0.0	1
84	High-contrast imaging in the cloud with klipReduce and Findr. Proceedings of SPIE, 2016, , .	0.8	1
85	Visible Light Adaptive Optics Imaging of the Orion 218-354 Silhouette Disk. Proceedings of the International Astronomical Union, 2013, 8, 159-160.	0.0	0
86	Surveying the Epsilon Eridani system Using MagAO. , 2018, , .		0