

Jared R Males

List of Publications by Year in descending order

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86
papers

3,070
citations

186265
28
h-index

197818
49
g-index

86
all docs

86
docs citations

86
times ranked

1829
citing authors

#	ARTICLE	IF	CITATIONS
1	High-contrast Imaging with Fizeau Interferometry: the Case of Altair*. <i>Astronomical Journal</i> , 2022, 163, 62.	4.7	2
2	Improved Orbital Constraints and H β Photometric Monitoring of the Directly Imaged Protoplanet Analog HD 142527 B. <i>Astronomical Journal</i> , 2022, 164, 29.	4.7	12
3	OGLE-2007-BLG-224L: A Direct Test of Terrestrial Parallax. <i>Astrophysical Journal</i> , 2021, 908, 240.	4.5	2
4	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
5	Unlocking Starlight Subtraction in Full-data-rate Exoplanet Imaging by Efficiently Updating Karhunen-Loève Eigenimages. <i>Astronomical Journal</i> , 2021, 161, 166.	4.7	2
6	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
7	High-contrast observations of brown dwarf companion HR2562B with the vector Apodizing Phase Plate coronagraph. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 506, 3224-3238.	4.4	5
8	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
9	Adaptive optics for high-resolution imaging. <i>Nature Reviews Methods Primers</i> , 2021, 1, .	21.2	90
10	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
11	A Wide-orbit Exoplanet OGLE-2012-BLG-0838Lb. <i>Astronomical Journal</i> , 2020, 159, 261.	4.7	4
12	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
13	MagAO-X first light. , 2020, , .		12
14	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
15	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
16	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
17	The Intricate Structure of HH 508, the Brightest Microjet in the Orion Nebula. <i>Astrophysical Journal</i> , 2018, 854, 144.	4.5	4
18	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

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19	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
20	Optical and mechanical design of the extreme AO coronagraphic instrument MagAO-X. , 2018, , .		8
21	The hunt for Sirius Ab: comparison of algorithmic sky and PSF estimation performance in deep coronagraphic thermal-IR high contrast imaging. , 2018, , .		3
22	Lessons for WFIRST CGI from ground-based high-contrast systems. , 2018, , .		9
23	Surveying the Epsilon Eridani system Using MagAO. , 2018, , .		0
24	Status of MagAO and review of astronomical science with visible light adaptive optics. , 2018, , .		3
25	Focal plane wavefront sensing and control strategies for high-contrast imaging on the MagAO-X instrument. , 2018, , .		2
26	ON-SKY PERFORMANCE ANALYSIS OF THE VECTOR APODIZING PHASE PLATE CORONAGRAPH ON MagAO/Clio2. <i>Astrophysical Journal</i> , 2017, 834, 175.	4.5	59
27	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
28	Resolving the H α -emitting Region in the Wind of β Carinae. <i>Astrophysical Journal Letters</i> , 2017, 841, L7.	8.3	4
29	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
30	The Multiplicity of M Dwarfs in Young Moving Groups. <i>Astrophysical Journal</i> , 2017, 846, 93.	4.5	14
31	The TWA 3 Young Triple System: Orbits, Disks, Evolution. <i>Astrophysical Journal</i> , 2017, 844, 168.	4.5	20
32	Radar observations and shape model of asteroid 16 Psyche. <i>Icarus</i> , 2017, 281, 388-403.	2.5	87
33	An ALMA and MagAO Study of the Substellar Companion GQ Lup B ⁺ . <i>Astrophysical Journal</i> , 2017, 836, 223.	4.5	49
34	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
35	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
36	MAGELLAN AO SYSTEM z ϵ 2, Y _S , AND L ϵ 2 OBSERVATIONS OF THE VERY WIDE 650 AU HD 106906 PLANETARY SYSTEM*. <i>Astrophysical Journal</i> , 2016, 823, 24.	4.5	35

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37	MagAO: status and science. Proceedings of SPIE, 2016, , .	0.8	12
38	MagAO IMAGING OF LONG-PERIOD OBJECTS (MILO). I. A BENCHMARK M DWARF COMPANION EXCITING A MASSIVE PLANET AROUND THE SUN-LIKE STAR HD 7449*. Astrophysical Journal, 2016, 818, 106.	4.5	40
39	THE LEECH EXOPLANET IMAGING SURVEY: CHARACTERIZATION OF THE COLDEST DIRECTLY IMAGED EXOPLANET, GJ 504 b, AND EVIDENCE FOR SUPERSTELLAR METALLICITY*. Astrophysical Journal, 2016, 817, 166.	4.5	68
40	DISCOVERY AND VALIDATION OF A HIGH-DENSITY SUB-NEPTUNE FROM THE K2 MISSION. Astrophysical Journal, 2016, 830, 43.	4.5	49
41	MagAO IMAGING OF LONG-PERIOD OBJECTS (MILO). II. A PUZZLING WHITE DWARF AROUND THE SUN-LIKE STAR HD 11112. Astrophysical Journal, 2016, 831, 177.	4.5	5
42	High-contrast imaging in the cloud with klipReduce and Findr. Proceedings of SPIE, 2016, , .	0.8	1
43	The path to visible extreme adaptive optics with MagAO-2K and MagAO-X. , 2016, , .		9
44	L-BAND SPECTROSCOPY WITH MAGELLAN-AO/Clio2: FIRST RESULTS ON YOUNGLOW-MASS COMPANIONS. Astrophysical Journal, 2016, 829, 39.	4.5	8
45	ADAPTIVE OPTICS IMAGING OF VHS 1256-1257: A LOW MASS COMPANION TO A BROWN DWARF BINARY SYSTEM. Astrophysical Journal Letters, 2016, 818, L12.	8.3	61
46	DIRECT EXOPLANET DETECTION WITH BINARY DIFFERENTIAL IMAGING. Astrophysical Journal, 2015, 811, 157.	4.5	33
47	NEW EXTINCTION AND MASS ESTIMATES OF THE LOW-MASS COMPANION 1RXS 1609 B WITH THE MAGELLAN AO SYSTEM: EVIDENCE OF AN INCLINED DUST DISK. Astrophysical Journal Letters, 2015, 807, L13.	8.3	22
48	MAGELLAN ADAPTIVE OPTICS FIRST-LIGHT OBSERVATIONS OF THE EXOPLANET PIC b. II. 3 σ DIRECT IMAGING WITH MagAO+Clio, AND THE EMPIRICAL BOLOMETRIC LUMINOSITY OF A SELF-LUMINOUS GIANT PLANET. Astrophysical Journal, 2015, 815, 108.	4.5	104
49	Multiwavelength observations of NaSt1 (WR 122): equatorial mass loss and X-rays from an interacting Wolf-Rayet binary. Monthly Notices of the Royal Astronomical Society, 2015, 450, 2551-2563.	4.4	11
50	Orbital Differential Imaging: a new high-contrast post-processing technique for direct imaging of exoplanets. Proceedings of SPIE, 2015, , .	0.8	3
51	ON THE MORPHOLOGY AND CHEMICAL COMPOSITION OF THE HR 4796A DEBRIS DISK. Astrophysical Journal, 2015, 798, 96.	4.5	45
52	NEW EXTINCTION AND MASS ESTIMATES FROM OPTICAL PHOTOMETRY OF THE VERY LOW MASS BROWN DWARF COMPANION CT CHAMAELEONTIS B WITH THE MAGELLAN AO SYSTEM. Astrophysical Journal, 2015, 801, 4.	4.5	23
53	NEW SPATIALLY RESOLVED OBSERVATIONS OF THE T Cha TRANSITION DISK AND CONSTRAINTS ON THE PREVIOUSLY CLAIMED SUBSTELLAR COMPANION. Astrophysical Journal, 2015, 801, 85.	4.5	21
54	Direct imaging of exoplanets in the habitable zone with adaptive optics. Proceedings of SPIE, 2014, , .	0.8	9

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55	High contrast imaging at the LBT: the LEECH exoplanet imaging survey. Proceedings of SPIE, 2014, , .	0.8	11
56	Results from the Gemini NICI Planet-Finding Campaign. , 2014, , .		2
57	MagAO: Status and on-sky performance of the Magellan adaptive optics system. Proceedings of SPIE, 2014, , .	0.8	30
58	Into the blue: AO science with MagAO in the visible. Proceedings of SPIE, 2014, , .	0.8	10
59	MAGELLAN ADAPTIVE OPTICS FIRST-LIGHT OBSERVATIONS OF THE EXOPLANET $\hat{\iota}^2$ PIC b. I. DIRECT IMAGING IN THE FAR-RED OPTICAL WITH MagAO+VisAO AND IN THE NEAR-IR WITH NICI[,]. Astrophysical Journal, 2014, 786, 32.	4.5	88
60	THE GEMINI NICI PLANET-FINDING CAMPAIGN: THE ORBIT OF THE YOUNG EXOPLANET $\hat{\iota}^2$ PICTORIS b. Astrophysical Journal, 2014, 794, 158.	4.5	59
61	DIRECTLY IMAGED L-T TRANSITION EXOPLANETS IN THE MID-INFRARED[,]. Astrophysical Journal, 2014, 792, 17.	4.5	112
62	HD 106906 b: A PLANETARY-MASS COMPANION OUTSIDE A MASSIVE DEBRIS DISK. Astrophysical Journal Letters, 2014, 780, L4.	8.3	143
63	AN ENIGMATIC POINT-LIKE FEATURE WITHIN THE HD 169142 TRANSITIONAL DISK,. Astrophysical Journal Letters, 2014, 792, L22.	8.3	119
64	Design, Implementation, and On-Sky Performance of an Advanced Apochromatic Triplet Atmospheric Dispersion Corrector for the Magellan Adaptive Optics System and VisAO Camera. Publications of the Astronomical Society of the Pacific, 2013, 125, 966-975.	3.1	14
65	THE GEMINI NICI PLANET-FINDING CAMPAIGN: THE FREQUENCY OF GIANT PLANETS AROUND YOUNG B AND A STARS. Astrophysical Journal, 2013, 776, 4.	4.5	138
66	THE GEMINI/NICI PLANET-FINDING CAMPAIGN: THE FREQUENCY OF PLANETS AROUND YOUNG MOVING GROUP STARS. Astrophysical Journal, 2013, 777, 160.	4.5	176
67	DIRECT IMAGING IN THE HABITABLE ZONE AND THE PROBLEM OF ORBITAL MOTION. Astrophysical Journal, 2013, 771, 10.	4.5	31
68	THE FIRST CIRCUMSTELLAR DISK IMAGED IN SILHOUETTE AT VISIBLE WAVELENGTHS WITH ADAPTIVE OPTICS: MagAO IMAGING OF ORION 218-354. Astrophysical Journal Letters, 2013, 775, L13.	8.3	13
69	THE GEMINI PLANET-FINDING CAMPAIGN: THE FREQUENCY OF GIANT PLANETS AROUND DEBRIS DISK STARS. Astrophysical Journal, 2013, 773, 179.	4.5	97
70	High Contrast Imaging of an Exoplanet with the Magellan VisAO Camera. Proceedings of the International Astronomical Union, 2013, 8, 46-47.	0.0	1
71	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
72	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

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73	LEECH: A 100 Night Exoplanet Imaging Survey at the LBT. Proceedings of the International Astronomical Union, 2013, 8, 70-71.	0.0	2
74	First closed-loop visible AO test results for the advanced adaptive secondary AO system for the Magellan Telescope: MagAO's performance and status. Proceedings of SPIE, 2012, , .	0.8	40
75	Laboratory demonstration of real time frame selection with Magellan AO. Proceedings of SPIE, 2012, , .	0.8	4
76	THE GEMINI NICI PLANET-FINDING CAMPAIGN: DISCOVERY OF A MULTIPLE SYSTEM ORBITING THE YOUNG A STAR HD 1160. Astrophysical Journal, 2012, 750, 53.	4.5	70
77	THE GRAY NEEDLE: LARGE GRAINS IN THE HD 15115 DEBRIS DISK FROM LBT/PISCES AND LBTI/LMIRcam ADAPTIVE OPTICS IMAGING. Astrophysical Journal, 2012, 752, 57.	4.5	45
78	FIRST LIGHT LBT AO IMAGES OF HR 8799 bcde AT 1.6 AND 3.3 μ m: NEW DISCREPANCIES BETWEEN YOUNG PLANETS AND OLD BROWN DWARFS. Astrophysical Journal, 2012, 753, 14.	4.5	152
79	DUST GRAIN EVOLUTION IN SPATIALLY RESOLVED T TAURI BINARIES. Astrophysical Journal, 2011, 740, 43.	4.5	10
80	DIRECT IMAGING CONSTRAINTS ON THE PUTATIVE EXOPLANET 14 Her C. Astrophysical Journal, 2011, 732, 10.	4.5	31
81	THE GEMINI NICI PLANET-FINDING CAMPAIGN: DISCOVERY OF A CLOSE SUBSTELLAR COMPANION TO THE YOUNG DEBRIS DISK STAR PZ Tel. Astrophysical Journal Letters, 2010, 720, L82-L87.	8.3	112
82	ON THE APPARENT ORBITAL INCLINATION CHANGE OF THE EXTRASOLAR TRANSITING PLANET TrES-2b. Astrophysical Journal, 2010, 714, 462-468.	4.5	38
83	ISM DUST GRAINS AND N-BAND SPECTRAL VARIABILITY IN THE SPATIALLY RESOLVED SUBARCSECOND BINARY UY Aur,,. Astrophysical Journal, 2010, 711, 1280-1290.	4.5	13
84	The Magellan Telescope Adaptive Secondary AO System: a visible and mid-IR AO facility. Proceedings of SPIE, 2010, , .	0.8	16
85	The Magellan Adaptive Secondary VisAO Camera: diffraction-limited broadband visible imaging and 20mas fiber array IFU. Proceedings of SPIE, 2010, , .	0.8	7
86	FOLLOW-UP OBSERVATIONS OF THE NEPTUNE MASS TRANSITING EXTRASOLAR PLANET HAT-P-11b. Astrophysical Journal, 2009, 699, L48-L51.	4.5	43