

# Avi M Mandell

## List of Publications by Year in descending order

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Version: 2024-02-01

76  
papers

6,237  
citations

117625

34  
h-index

114465

63  
g-index

76  
all docs

76  
docs citations

76  
times ranked

4408  
citing authors

#	ARTICLE	IF	CITATIONS
1	HyDRo: atmospheric retrieval of rocky exoplanets in thermal emission. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 511, 2565-2584.	4.4	7
2	Validation of 13 Hot and Potentially Terrestrial TESS Planets. <i>Astronomical Journal</i> , 2022, 163, 99.	4.7	8
3	Simulating Reflected Light Exoplanet Spectra of the Promising Direct Imaging Target, Ĩ... Andromedae d, with a New, Fast Sampling Method Using the Planetary Spectrum Generator. <i>Astronomical Journal</i> , 2021, 162, 30.	4.7	4
4	Tidal Dissipation in Dual-body, Highly Eccentric, and Nonsynchronously Rotating Systems: Applications to PlutoĒCharon and the Exoplanet TRAPPIST-1e. <i>Planetary Science Journal</i> , 2021, 2, 4.	3.6	13
5	The Hubble PanCET Program: A Metal-rich Atmosphere for the Inflated Hot Jupiter HAT-P-41b. <i>Astronomical Journal</i> , 2021, 161, 51.	4.7	16
6	Sensitive probing of exoplanetary oxygen via mid-infrared collisional absorption. <i>Nature Astronomy</i> , 2020, 4, 372-376.	10.1	32
7	H- and Dissociation in Ultra-hot Jupiters: A Retrieval Case Study of WASP-18b. <i>Astronomical Journal</i> , 2020, 159, 232.	4.7	23
8	TRAPPIST-1 Habitable Atmosphere Intercomparison (THAI): motivations and protocol version 1.0. <i>Geoscientific Model Development</i> , 2020, 13, 707-716.	3.6	52
9	Dim Prospects for Transmission Spectra of Ocean Earths around M Stars. <i>Astrophysical Journal</i> , 2020, 891, 58.	4.5	38
10	Statistical Characterization of Hot Jupiter Atmospheres Using SpitzerĒs Secondary Eclipses. <i>Astronomical Journal</i> , 2020, 159, 137.	4.7	72
11	Information Content of JWST NIRSpec Transmission Spectra of Warm Neptunes. <i>Astronomical Journal</i> , 2020, 160, 15.	4.7	16
12	The First Habitable-zone Earth-sized Planet from TESS. I. Validation of the TOI-700 System. <i>Astronomical Journal</i> , 2020, 160, 116.	4.7	67
13	The First Habitable-zone Earth-sized Planet from TESS. III. Climate States and Characterization Prospects for TOI-700 d. <i>Astronomical Journal</i> , 2020, 160, 118.	4.7	20
14	Utilizing a Database of Simulated Geometric Albedo Spectra for Photometric Characterization of Rocky Exoplanet Atmospheres. <i>Astronomical Journal</i> , 2020, 160, 204.	4.7	4
15	An Unusual Transmission Spectrum for the Sub-Saturn KELT-11b Suggestive of a Subsolar Water Abundance. <i>Astronomical Journal</i> , 2020, 160, 280.	4.7	21
16	The L 98-59 System: Three Transiting, Terrestrial-size Planets Orbiting a Nearby M Dwarf. <i>Astronomical Journal</i> , 2019, 158, 32.	4.7	93
17	Was the Sun a Slow Rotator? Sodium and Potassium Constraints from the Lunar Regolith. <i>Astrophysical Journal Letters</i> , 2019, 876, L16.	8.3	22
18	Impact of Clouds and Hazes on the Simulated JWST Transmission Spectra of Habitable Zone Planets in the TRAPPIST-1 System. <i>Astrophysical Journal</i> , 2019, 887, 194.	4.5	92

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19	Optical design of the Extreme Coronagraph for Living Planetary Systems instrument for the LUVOIR mission study. <i>Journal of Astronomical Telescopes, Instruments, and Systems</i> , 2019, 5, 1.	1.8	6
20	A Comparison of Simulated JWST Observations Derived from Equilibrium and Non-equilibrium Chemistry Models of Giant Exoplanets. <i>Astrophysical Journal</i> , 2018, 853, 138.	4.5	13
21	The Complete Transmission Spectrum of WASP-39b with a Precise Water Constraint. <i>Astronomical Journal</i> , 2018, 155, 29.	4.7	142
22	Confirming Variability in the Secondary Eclipse Depth of the Super-Earth 55 Cancri e. <i>Astronomical Journal</i> , 2018, 155, 221.	4.7	34
23	Exoplanet Classification and Yield Estimates for Direct Imaging Missions. <i>Astrophysical Journal</i> , 2018, 856, 122.	4.5	60
24	<i>Spitzer</i> secondary eclipses of Qatar-1b. <i>Astronomy and Astrophysics</i> , 2018, 610, A55.	5.1	9
25	The Transiting Exoplanet Community Early Release Science Program for <i>JWST</i> . <i>Publications of the Astronomical Society of the Pacific</i> , 2018, 130, 114402.	3.1	100
26	Community Targets of <i>JWST</i> 's Early Release Science Program: Evaluation of WASP-63b. <i>Astronomical Journal</i> , 2018, 156, 103.	4.7	25
27	Planetary Spectrum Generator: An accurate online radiative transfer suite for atmospheres, comets, small bodies and exoplanets. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018, 217, 86-104.	2.3	167
28	WFIRST CGI integral field spectrograph performance and post-processing in the OS6 observing scenario. , 2018, , .		3
29	PandExo: A Community Tool for Transiting Exoplanet Science with <i>JWST</i> & <i>HST</i> . <i>Publications of the Astronomical Society of the Pacific</i> , 2017, 129, 064501.	3.1	230
30	HAT-P-26b: A Neptune-mass exoplanet with a well-constrained heavy element abundance. <i>Science</i> , 2017, 356, 628-631.	12.6	175
31	Statistical Analysis of Hubble/WFC3 Transit Spectroscopy of Extrasolar Planets. <i>Astrophysical Journal Letters</i> , 2017, 847, L22.	8.3	88
32	A model of the primordial lunar atmosphere. <i>Earth and Planetary Science Letters</i> , 2017, 474, 198-205.	4.4	38
33	An ultrahot gas-giant exoplanet with a stratosphere. <i>Nature</i> , 2017, 548, 58-61.	27.8	192
34	Evidence for a Dayside Thermal Inversion and High Metallicity for the Hot Jupiter WASP-18b. <i>Astrophysical Journal Letters</i> , 2017, 850, L32.	8.3	104
35	Commissioning and performance results of the PISCES instrument. , 2017, , .		3
36	Simulating the WFIRST coronagraph integral field spectrograph. , 2017, , .		4

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37	The LUVOIR architecture "A" coronagraph instrument. , 2017, , .		17
38	Current science requirements and planned implementation for the WFIRST-CGI Integral Field Spectrograph (IFS). , 2017, , .		2
39	Wavefront control methods for high-contrast integral field spectroscopy. , 2017, , .		0
40	Special Section Guest Editorial: Future large-aperture ultraviolet/optical/infrared space observatory. Journal of Astronomical Telescopes, Instruments, and Systems, 2016, 2, 041201.	1.8	1
41	Maximized exoEarth candidate yields for starshades. Journal of Astronomical Telescopes, Instruments, and Systems, 2016, 2, 041204.	1.8	22
42	Extension of ATLAST/LUVOIR's capabilities to 5-10 $\mu$ m or beyond. Journal of Astronomical Telescopes, Instruments, and Systems, 2016, 2, 041205.	1.8	4
43	PISCES: an integral field spectrograph technology demonstration for the WFIRST coronagraph. , 2016, , .		4
44	Transiting Exoplanet Studies and Community Targets for JWST's Early Release Science Program. Publications of the Astronomical Society of the Pacific, 2016, 128, 094401.	3.1	98
45	A direct comparison of exoEarth yields for starshades and coronagraphs. Proceedings of SPIE, 2016, , .	0.8	11
46	First exoplanet transit observation with the Stratospheric Observatory for Infrared Astronomy: confirmation of Rayleigh scattering in HD 189733 b with the High-Speed Imaging Photometer for Occultations. Journal of Astronomical Telescopes, Instruments, and Systems, 2015, 1, 034002.	1.8	29
47	LOWER LIMITS ON APERTURE SIZE FOR AN EXOEARTH DETECTING CORONAGRAPHIC MISSION. Astrophysical Journal, 2015, 808, 149.	4.5	94
48	Characterizing Transiting Planet Atmospheres through 2025. Publications of the Astronomical Society of the Pacific, 2015, 127, 311-327.	3.1	121
49	SPECTROSCOPIC EVIDENCE FOR A TEMPERATURE INVERSION IN THE DAYSIDE ATMOSPHERE OF HOT JUPITER WASP-33b. Astrophysical Journal, 2015, 806, 146.	4.5	177
50	MAXIMIZING THE ExoEarth CANDIDATE YIELD FROM A FUTURE DIRECT IMAGING MISSION. Astrophysical Journal, 2014, 795, 122.	4.5	130
51	Observations of Transiting Exoplanets with the James Webb Space Telescope (JWST). Publications of the Astronomical Society of the Pacific, 2014, 126, 1134-1173.	3.1	245
52	ATMOSPHERIC CHARACTERIZATION OF FIVE HOT JUPITERS WITH THE WIDE FIELD CAMERA 3 ON THE HUBBLE SPACE TELESCOPE. Astrophysical Journal, 2014, 785, 148.	4.5	68
53	Water delivery and giant impacts in the "Grand Tack" scenario. Icarus, 2014, 239, 74-84.	2.5	209
54	HIPO in-flight performance improvements. Proceedings of SPIE, 2014, , .	0.8	4

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55	INFRARED TRANSMISSION SPECTROSCOPY OF THE EXOPLANETS HD 209458b AND XO-1b USING THE WIDE FIELD CAMERA-3 ON THE HUBBLE SPACE TELESCOPE. <i>Astrophysical Journal</i> , 2013, 774, 95.	4.5	409
56	KEPLER'S OPTICAL SECONDARY ECLIPSE OF HAT-P-7b AND PROBABLE DETECTION OF PLANET-INDUCED STELLAR GRAVITY DARKENING. <i>Astrophysical Journal Letters</i> , 2013, 764, L22.	8.3	53
57	EXOPLANET TRANSIT SPECTROSCOPY USING WFC3: WASP-12 b, WASP-17 b, AND WASP-19 b. <i>Astrophysical Journal</i> , 2013, 779, 128.	4.5	130
58	Exoplanet Transit Spectroscopy of Hot Jupiters Using HST/WFC3. <i>Proceedings of the International Astronomical Union</i> , 2013, 8, 266-270.	0.0	0
59	Occultation Spectrophotometry of Extrasolar Planets with SOFIA. <i>Proceedings of the International Astronomical Union</i> , 2012, 8, 435-441.	0.0	3
60	Shaping of the Inner Solar System by the Gas-Driven Migration of Jupiter. <i>Proceedings of the International Astronomical Union</i> , 2012, 8, 204-211.	0.0	0
61	FIRST DETECTION OF NEAR-INFRARED LINE EMISSION FROM ORGANICS IN YOUNG CIRCUMSTELLAR DISKS. <i>Astrophysical Journal</i> , 2012, 747, 92.	4.5	72
62	Populating the asteroid belt from two parent source regions due to the migration of giant planets – The Grand Tack. <i>Meteoritics and Planetary Science</i> , 2012, 47, 1941-1947.	1.6	118
63	NIMBUS: the Near-infrared Multi-Band Ultraprecise Spectroimager for SOFIA. , 2012, , .		5
64	A low mass for Mars from Jupiter's early gas-driven migration. <i>Nature</i> , 2011, 475, 206-209.	27.8	992
65	NON-DETECTION OF L-BAND LINE EMISSION FROM THE EXOPLANET HD189733b. <i>Astrophysical Journal</i> , 2011, 728, 18.	4.5	65
66	A NIR spectrum of a hot Jupiter from the ground: Preliminary results. <i>Proceedings of the International Astronomical Union</i> , 2010, 6, 158-162.	0.0	0
67	The debris disk – terrestrial planet connection. <i>Proceedings of the International Astronomical Union</i> , 2010, 6, 82-88.	0.0	2
68	Strong Release of Methane on Mars in Northern Summer 2003. <i>Science</i> , 2009, 323, 1041-1045.	12.6	516
69	Session 11. Chemical Constraints on the Formation and Evolution of Habitable Worlds. <i>Astrobiology</i> , 2008, 8, 335-338.	3.0	0
70	Discovery of OH in Circumstellar Disks around Young Intermediate-Mass Stars. <i>Astrophysical Journal</i> , 2008, 681, L25-L28.	4.5	42
71	Formation of Earth-like Planets During and After Giant Planet Migration. <i>Astrophysical Journal</i> , 2007, 660, 823-844.	4.5	131
72	Exotic Earths: Forming Habitable Worlds with Giant Planet Migration. <i>Science</i> , 2006, 313, 1413-1416.	12.6	187

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73	A Search for Sodium Absorption from Comets around HD 209458. <i>Astrophysical Journal</i> , 2004, 601, 1120-1128.	4.5	24
74	A Search for $^6\text{Li}$ in Lithium-Poor Stars with Planets. <i>Astronomical Journal</i> , 2004, 127, 1147-1157.	4.7	50
75	Survival of Terrestrial Planets in the Presence of Giant Planet Migration. <i>Astrophysical Journal</i> , 2003, 599, L111-L114.	4.5	55
76	Observable consequences of planet formation models in systems with close-in terrestrial planets. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, 384, 663-674.	4.4	154