Jeff A Valenti

List of Publications by Year
in descending order

112 papers	11,648 citations	30070 54 h-index	31849 101 g-index
116 all docs	116 docs citations	116 times ranked	5095 citing authors

#	Article	IF	Citations
1	The ODYSSEUS Survey. Motivation and First Results: Accretion, Ejection, and Disk Irradiation of CVSO 109. Astronomical Journal, 2022, 163, 114.	4.7	15
2	H₂SO₄ and Organosulfur Compounds in Laboratory Analogue Aerosols of Warm High-metallicity Exoplanet Atmospheres. Planetary Science Journal, 2021, 2, 2.	3.6	14
3	Haze evolution in temperate exoplanet atmospheres through surface energy measurements. Nature Astronomy, 2021, 5, 822-831.	10.1	27
4	Detecting Biosignatures in the Atmospheres of Gas Dwarf Planets with the James Webb Space Telescope. Astrophysical Journal, 2021, 923, 144.	4.5	11
5	Chemistry of Temperate Super-Earth and Mini-Neptune Atmospheric Hazes from Laboratory Experiments. Planetary Science Journal, 2020, 1, 17.	3.6	34
6	Haze Formation in Warm H₂-rich Exoplanet Atmospheres. Planetary Science Journal, 2020, 1, 51.	3.6	34
7	Toward a Self-calibrating, Empirical, Light-weight Model for Tellurics in High-resolution Spectra. Astronomical Journal, 2019, 157, 187.	4.7	20
8	The Near-ultraviolet Continuum Radiation in the Impulsive Phase of HF/GF-type dMe Flares. I. Data. Astrophysical Journal, 2019, 871, 167.	4.5	35
9	Gas Phase Chemistry of Cool Exoplanet Atmospheres: Insight from Laboratory Simulations. ACS Earth and Space Chemistry, 2019, 3, 39-50.	2.7	38
10	Haze production rates in super-Earth and mini-Neptune atmosphere experiments. Nature Astronomy, 2018, 2, 303-306.	10.1	93
11	Strategies for Constraining the Atmospheres of Temperate Terrestrial Planets with JWST. Astrophysical Journal Letters, 2018, 856, L34.	8.3	82
12	Laboratory Simulations of Haze Formation in the Atmospheres of Super-Earths and Mini-Neptunes: Particle Color and Size Distribution. Astrophysical Journal Letters, 2018, 856, L3.	8.3	48
13	A Framework for Prioritizing the TESS Planetary Candidates Most Amenable to Atmospheric Characterization. Publications of the Astronomical Society of the Pacific, 2018, 130, 114401.	3.1	314
14	Chemically Dissected Rotation Curves of the Galactic Bulge from Main-sequence Proper Motions*. Astrophysical Journal, 2018, 858, 46.	4.5	20
15	Photochemical Haze Formation in the Atmospheres of Super-Earths and Mini-Neptunes. Astronomical Journal, 2018, 156, 38.	4.7	59
16	Spectroscopy Made Easy: Evolution. Astronomy and Astrophysics, 2017, 597, A16.	5.1	269
17	Transiting Exoplanet Studies and Community Targets forJWST's Early Release Science Program. Publications of the Astronomical Society of the Pacific, 2016, 128, 094401.	3.1	98
18	SPECTRAL PROPERTIES OF COOL STARS: EXTENDED ABUNDANCE ANALYSIS OF 1,617 PLANET-SEARCH STARS. Astrophysical Journal, Supplement Series, 2016, 225, 32.	7.7	277

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19	The JWST/NIRSpec exoplanet exposure time calculator. Proceedings of SPIE, 2016, , .	0.8	8
20	State of the Field: Extreme Precision Radial Velocities. Publications of the Astronomical Society of the Pacific, 2016, 128, 066001.	3.1	253
21	Fiber Scrambling for High-Resolution Spectrographs. II. A Double Fiber Scrambler for Keck Observatory. Publications of the Astronomical Society of the Pacific, 2015, 127, 1027-1037.	3.1	7
22	ACCURATE GRAVITIES OF F, G, AND K STARS FROM HIGH RESOLUTION SPECTRA WITHOUT EXTERNAL CONSTRAINTS. Astrophysical Journal, 2015, 805, 126.	4.5	54
23	LARGE ECCENTRICITY, LOW MUTUAL INCLINATION: THE THREE-DIMENSIONAL ARCHITECTURE OF A HIERARCHICAL SYSTEM OF GIANT PLANETS. Astrophysical Journal, 2014, 791, 89.	4.5	89
24	The NIRSpec MSA Planning Tool for multi-object spectroscopy with JWST. Proceedings of SPIE, 2014, , .	0.8	2
25	MAGNETICALLY CONTROLLED ACCRETION ON THE CLASSICAL T TAURI STARS GQ LUPI AND TW HYDRAE. Astrophysical Journal, 2013, 765, 11.	4.5	19
26	HOT GAS LINES IN T TAURI STARS. Astrophysical Journal, Supplement Series, 2013, 207, 1.	7.7	69
27	Characterization of exoplanet hosts. EPJ Web of Conferences, 2013, 47, 09001.	0.3	0
28	M2K. II. A TRIPLE-PLANET SYSTEM ORBITING HIP 57274. Astrophysical Journal, 2012, 745, 21.	4.5	45
29	LyÎ± DOMINANCE OF THE CLASSICAL TÂTAURI FAR-ULTRAVIOLET RADIATION FIELD. Astrophysical Journal Letters, 2012, 756, L23.	8.3	58
30	THE DISCOVERY OF HD 37605cAND A DISPOSITIVE NULL DETECTION OF TRANSITS OF HD 37605b. Astrophysical Journal, 2012, 761, 46.	4.5	73
31	A FAR-ULTRAVIOLET ATLAS OF LOW-RESOLUTIONHUBBLE SPACE TELESCOPESPECTRA OF T TAURI STARS. Astrophysical Journal, 2012, 744, 121.	4.5	90
32	CHARACTERIZING CO FOURTH POSITIVE EMISSION IN YOUNG CIRCUMSTELLAR DISKS. Astrophysical Journal, 2012, 746, 97.	4.5	27
33	THE NASA-UC ETA-EARTH PROGRAM. III. A SUPER-EARTH ORBITING HD 97658 AND A NEPTUNE-MASS PLANET ORBITING Gl 785. Astrophysical Journal, 2011, 730, 10.	4.5	86
34	THE NASA-UC ETA-EARTH PROGRAM. II. A PLANET ORBITING HD 156668 WITH A MINIMUM MASS OF FOUR EARTH MASSES. Astrophysical Journal, 2011, 726, 73.	4.5	74
35	THE FAR-ULTRAVIOLET â€œCONTINUUMâ€•IN PROTOPLANETARY DISK SYSTEMS. II. CARBON MONOXIDE FOURTH POSITIVE EMISSION AND ABSORPTION*. Astrophysical Journal, 2011, 734, 31.	4.5	46
36	NEAR-ULTRAVIOLET EXCESS IN SLOWLY ACCRETING T TAURI STARS: LIMITS IMPOSED BY CHROMOSPHERIC EMISSION. Astrophysical Journal, 2011, 743, 105.	4.5	75

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37	The search for magnetic fields in mercury-manganese stars. Proceedings of the International Astronomical Union, 2010, 6, 202-203.	0.0	0
38	THE WFC3 GALACTIC BULGE TREASURY PROGRAM: METALLICITY ESTIMATES FOR THE STELLAR POPULATION AND EXOPLANET HOSTS. Astrophysical Journal Letters, 2010, 725, L19-L23.	8.3	77
39	THE CALIFORNIA PLANET SURVEY. I. FOUR NEW GIANT EXOPLANETS. Astrophysical Journal, 2010, 721, 1467-1481.	4.5	328
40	NICMOS OBSERVATIONS OF THE TRANSITING HOT JUPITER XO-1b. Astrophysical Journal, 2010, 719, 1796-1806.	4.5	44
41	THE XO PLANETARY SURVEY PROJECT: ASTROPHYSICAL FALSE POSITIVES. Astrophysical Journal, Supplement Series, 2010, 189, 134-141.	7.7	7
42	The Occurrence and Mass Distribution of Close-in Super-Earths, Neptunes, and Jupiters. Science, 2010, 330, 653-655.	12.6	526
43	Direct imaging and spectroscopy of habitable planets using JWST and a starshade. Proceedings of SPIE, 2010, , .	0.8	1
44	THE METALLICITY OF THE HD 98800 SYSTEM. Astrophysical Journal, 2009, 698, 660-665.	4.5	7
45	THE TRANSIT INGRESS AND THE TILTED ORBIT OF THE EXTRAORDINARILY ECCENTRIC EXOPLANET HD 80606b. Astrophysical Journal, 2009, 703, 2091-2100.	4.5	90
46	THE METALLICITY OF THE PLEIADES. Astronomical Journal, 2009, 138, 1292-1295.	4.7	66
47	THE WFC3 GALACTIC BULGE TREASURY PROGRAM: A FIRST LOOK AT RESOLVED STELLAR POPULATION TOOLS. Astronomical Journal, 2009, 137, 3172-3180.	4.7	22
48	SpS1-Measuring magnetic fields on young stars. Proceedings of the International Astronomical Union, 2009, 5, 524-524.	0.0	0
49	Metallicity and Planet Formation â€“ Observations. Proceedings of the International Astronomical Union, 2009, 5, 403-407.	0.0	0
50	THE NASA-UC ETA-EARTH PROGRAM. I. A SUPER-EARTH ORBITING HD 7924. Astrophysical Journal, 2009, 696, 75-83.	4.5	122
51	TWO EXOPLANETS DISCOVERED AT KECK OBSERVATORY. Astrophysical Journal, 2009, 702, 989-997.	4.5	65
52	FIVE PLANETS AND AN INDEPENDENT CONFIRMATION OF HD 196885Ab FROM LICK OBSERVATORY. Astrophysical Journal, 2009, 703, 1545-1556.	4.5	59
53	The upgrade of HARPS to a full-Stokes high-resolution spectropolarimeter. Proceedings of SPIE, 2008, , .	0.8	16
54	MAGNETIC PROPERTIES OF YOUNG STARS IN THE TW HYDRAE ASSOCIATION. Astronomical Journal, 2008, 136, 2286-2294.	4.7	32

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55	Kinematics of the SWEEPS transiting planet candidates. Proceedings of the International Astronomical Union, 2008, 4, 512-515.	0.0	0
56	Transiting Planets in the Galactic Bulge from SWEEPS Survey and Implications. Proceedings of the International Astronomical Union, 2008, 4, 45-53.	0.0	3
57	XOâ€3b: A Massive Planet in an Eccentric Orbit Transiting an F5 V Star. Astrophysical Journal, 2008, 677, 657-670.	4.5	142
58	XOâ€5b: A Transiting Jupiterâ€sized Planet with a 4 Day Period. Astrophysical Journal, 2008, 686, 1331-1340.	4.5	63
59	Thermal Emission of Exoplanet XOâ€1b. Astrophysical Journal, 2008, 684, 1427-1432.	4.5	97
60	Stellar Proper Motions in the Galactic Bulge from DeepHubble Space TelescopeACS WFC Photometry. Astrophysical Journal, 2008, 684, 1110-1142.	4.5	159
61	Spectropolarimetry of the Classical T Tauri Star TW Hydrae. Astronomical Journal, 2007, 133, 73-80.	4.7	31
62	Structure and Evolution of Nearby Stars with Planets. II. Physical Properties of â^¼1000 Cool Stars from the SPOCS Catalog. Astrophysical Journal, Supplement Series, 2007, 168, 297-318.	7.7	286
63	A Surprising Reversal of Temperatures in the Brown Dwarf Eclipsing Binary 2MASS J05352184â^'0546085. Astrophysical Journal, 2007, 664, 1154-1166.	4.5	89
64	XOâ€2b: Transiting Hot Jupiter in a Metalâ€rich Common Proper Motion Binary. Astrophysical Journal, 2007, 671, 2115-2128.	4.5	138
65	Stellar proper motions in the Galactic bulge with ACS/WFC on HST. Proceedings of the International Astronomical Union, 2007, 3, 361-362.	0.0	0
66	Searching for Earth Analogs Around the Nearest Stars: The Disk Ageâ€Metallicity Relation and the Age Distribution in the Solar Neighborhood. Astrophysical Journal, 2007, 665, 767-784.	4.5	74
67	The N2K Consortium. VI. Doppler Shifts without Templates and Three New Shortâ€Period Planets. Astrophysical Journal, 2006, 647, 600-611.	4.5	70
68	The First Extrasolar Planet Discovered with a Newâ€Generation Highâ€Throughput Doppler Instrument. Astrophysical Journal, 2006, 648, 683-695.	4.5	97
69	Spectropolarimetry of the Classical T Tauri Star T Tauri. Astronomical Journal, 2006, 131, 520-526.	4.7	27
70	The N2K Consortium. III. Shortâ€Period Planets Orbiting HD 149143 and HD 109749. Astrophysical Journal, 2006, 637, 1094-1101.	4.5	52
71	A Transiting Planet of a Sunâ€like Star. Astrophysical Journal, 2006, 648, 1228-1238.	4.5	163
72	Discovery of two young brown dwarfs in an eclipsing binary system. Nature, 2006, 440, 311-314.	27.8	239

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73	Transiting extrasolar planetary candidates in the Galactic bulge. Nature, 2006, 443, 534-540.	27.8	126
74	The Large-Scale Axisymmetric Magnetic Topology of a Very-Low-Mass Fully Convective Star. Science, 2006, 311, 633-635.	12.6	201
75	The N2K Consortium. II. A Transiting Hot Saturn around HD 149026 with a Large Dense Core. Astrophysical Journal, 2005, 633, 465-473.	4.5	332
76	The N2K Consortium. I. A Hot Saturn Planet Orbiting HD 88133. Astrophysical Journal, 2005, 620, 481-486.	4.5	116
77	The Loopy Ultraviolet Line Profiles of RU Lupi: Accretion, Outflows, and Fluorescence. Astronomical Journal, 2005, 129, 2777-2791.	4.7	61
78	The Planetâ€Metallicity Correlation. Astrophysical Journal, 2005, 622, 1102-1117.	4.5	1,224
79	Measuring the Magnetic Field of the Classical T Tauri Star TW Hydrae. Astrophysical Journal, 2005, 635, 466-475.	4.5	50
80	Spectroscopic Properties of Cool Stars (SPOCS). I. 1040 F, G, and K Dwarfs from Keck, Lick, and AAT Planet Search Programs. Astrophysical Journal, Supplement Series, 2005, 159, 141-166.	7.7	1,151
81	Spectral Analysis of Stars on Planet-Search Surveys. Symposium - International Astronomical Union, 2004, 219, 29-40.	0.1	13
82	Observations of Magnetic Fields on T Tauri Stars. Astrophysics and Space Science, 2004, 292, 619-629.	1.4	70
83	Testing the Reality of Strong Magnetic Fields on T Tauri Stars: The Naked T Tauri Star Hubble 4. Astrophysical Journal, 2004, 617, 1204-1215.	4.5	54
84	The Farâ€Ultraviolet Spectra of TW Hydrae. II. Models of H2Fluorescence in a Disk. Astrophysical Journal, 2004, 607, 369-383.	4.5	166
85	Observations of Magnetic Fields on T Tauri Stars. , 2004, , 445-455.		1
86	Mapping the Circumstellar Environment of T Tauri with Fluorescent H2Emission. Astronomical Journal, 2003, 126, 3076-3089.	4.7	55
87	High-Resolution Infrared Spectroscopy of the Brown Dwarf Indi Ba. Astrophysical Journal, 2003, 599, L107-L110.	4.5	23
88	An IUE Atlas of Preâ€"Mainâ€Sequence Stars. III. Coâ€added Final Archive Spectra from the Longâ€Wavelength Cameras. Astrophysical Journal, Supplement Series, 2003, 147, 305-336.	7.7	55
89	Multiwavelength Observations of Flares on AD Leonis. Astrophysical Journal, 2003, 597, 535-554.	4.5	151
90	Magnetic Activity and the Solar-Stellar Connection. Astrophysics and Space Science Library, 2003, , 861-879.	2.7	0

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91	Observations of T Tauri Stars usingHubble Space TelescopeGHRS. I. Farâ€Ultraviolet Emission Lines. Astrophysical Journal, 2002, 566, 1100-1123.	4.5	81
92	Observations of T Tauri Stars Using theHubble Space TelescopeGHRS. II. Optical and Nearâ€Ultraviolet Lines. Astrophysical Journal, 2002, 567, 1013-1027.	4.5	46
93	The Farâ€Ultraviolet Spectrum of TW Hydrae. I. Observations of H2Fluorescence. Astrophysical Journal, 2002, 572, 310-325.	4.5	180
94	New Infrared Veiling Measurements and Constraints on Accretion Disk Models for Classical T Tauri Stars. Astrophysical Journal, 2001, 561, 1060-1073.	4.5	77
95	AnIUEAtlas of Preâ€“Mainâ€Sequence Stars. II. Farâ€Ultraviolet Accretion Diagnostics in T Tauri Stars. Astrophysical Journal, 2000, 539, 815-833.	4.5	122
96	An IUE Atlas of Preâ€“Mainâ€Sequence Stars. I. Coâ€added Final Archive Spectra from the SWP Camera. Astrophysical Journal, Supplement Series, 2000, 129, 399-420.	7.7	113
97	Phoenix: operation and performance of a cryogenic high-resolution 1- to 5-Î¼m infrared spectrograph. , 2000, , .		31
98	Measuring the Magnetic Field on the Classical T Tauri Star BP Tauri. Astrophysical Journal, 1999, 516, 900-915.	4.5	226
99	Spectropolarimetry of Magnetospheric Accretion on the Classical T Tauri Star BP Tauri. Astrophysical Journal, 1999, 510, L41-L44.	4.5	137
100	The Active Corona of HD 35850 (F8 V). Astrophysical Journal, 1999, 515, 423-434.	4.5	15
101	Ultraviolet Absorption Lines from High-Velocity Gas in the Vela Supernova Remnant: New Insights from Space Telescope Imaging Spectrograph Echelle Observations of HD 72089. Astrophysical Journal, 1998, 492, L147-L150.	4.5	31
102	Spectral Synthesis of TiO Lines. Astrophysical Journal, 1998, 498, 851-862.	4.5	106
103	Hamilton Echelle Spectroscopy of the 1993 March 6 Solar Flare. Astrophysical Journal, Supplement Series, 1997, 112, 221-243.	7.7	42
104	Detection of Strong Magnetic Fields on M Dwarfs. Astrophysical Journal, 1996, 459, .	4.5	174
105	Determining Spectrometer Instrumental Profiles Using FTS Reference Spectra. Publications of the Astronomical Society of the Pacific, 1995, 107, 966.	3.1	241
106	Infrared Zeeman analysis of epsilon Eridani. Astrophysical Journal, 1995, 439, 939.	4.5	77
107	T Tauri stars in blue. Astronomical Journal, 1993, 106, 2024.	4.7	219
108	Limits on the magnetic flux of pre-main-sequence stars. Astrophysical Journal, 1992, 390, 622.	4.5	104

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109	Multiâ€“line Zeeman Analysis. International Astronomical Union Colloquium, 1991, 130, 411-413.	0.1	0
110	Multi-line Zeeman analysis. , 1991, , 411-413.		0
111	Physical realism in the analysis of stellar magnetic fields. III - Flux tubes and multicomponent atmospheres. Astrophysical Journal, 1990, 360, 650.	4.5	19
112	Infrared Observations of Magnetic Fields on Young Stars. , 0, , 325-330.		0