

# Jeff A Valenti

## List of Publications by Year in descending order

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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 Planetâ€Metallicity Correlation. <i>Astrophysical Journal</i> , 2005, 622, 1102-1117.   | 4.5  | 1,224     |
| 2  | Spectroscopic Properties of Cool Stars (SPOCS). I. 1040 F, G, and K Dwarfs from Keck, Lick, and AAT Planet Search Programs. <i>Astrophysical Journal, Supplement Series</i> , 2005, 159, 141-166.         | 7.7  | 1,151     |
| 3  | The Occurrence and Mass Distribution of Close-in Super-Earths, Neptunes, and Jupiters. <i>Science</i> , 2010, 330, 653-655.   | 12.6 | 526       |
| 4  | The N2K Consortium. II. A Transiting Hot Saturn around HD 149026 with a Large Dense Core. <i>Astrophysical Journal</i> , 2005, 633, 465-473.  | 4.5  | 332       |
| 5  | THE CALIFORNIA PLANET SURVEY. I. FOUR NEW GIANT EXOPLANETS. <i>Astrophysical Journal</i> , 2010, 721, 1467-1481.  | 4.5  | 328       |
| 6  | A Framework for Prioritizing the <i>TESS</i> Planetary Candidates Most Amenable to Atmospheric Characterization. <i>Publications of the Astronomical Society of the Pacific</i> , 2018, 130, 114401.      | 3.1  | 314       |
| 7  | Structure and Evolution of Nearby Stars with Planets. II. Physical Properties of $\sim 1/4$ 1000 Cool Stars from the SPOCS Catalog. <i>Astrophysical Journal, Supplement Series</i> , 2007, 168, 297-318. | 7.7  | 286       |
| 8  | SPECTRAL PROPERTIES OF COOL STARS: EXTENDED ABUNDANCE ANALYSIS OF 1,617 PLANET-SEARCH STARS. <i>Astrophysical Journal, Supplement Series</i> , 2016, 225, 32.   | 7.7  | 277       |
| 9  | Spectroscopy Made Easy: Evolution. <i>Astronomy and Astrophysics</i> , 2017, 597, A16.  | 5.1  | 269       |
| 10 | State of the Field: Extreme Precision Radial Velocities. <i>Publications of the Astronomical Society of the Pacific</i> , 2016, 128, 066001.  | 3.1  | 253       |
| 11 | Determining Spectrometer Instrumental Profiles Using FTS Reference Spectra. <i>Publications of the Astronomical Society of the Pacific</i> , 1995, 107, 966.  | 3.1  | 241       |
| 12 | Discovery of two young brown dwarfs in an eclipsing binary system. <i>Nature</i> , 2006, 440, 311-314.  | 27.8 | 239       |
| 13 | Measuring the Magnetic Field on the Classical T Tauri Star BP Tauri. <i>Astrophysical Journal</i> , 1999, 516, 900-915.   | 4.5  | 226       |
| 14 | T Tauri stars in blue. <i>Astronomical Journal</i> , 1993, 106, 2024.   | 4.7  | 219       |
| 15 | The Large-Scale Axisymmetric Magnetic Topology of a Very-Low-Mass Fully Convective Star. <i>Science</i> , 2006, 311, 633-635.   | 12.6 | 201       |
| 16 | The Farâ€Ultraviolet Spectrum of TW Hydrae. I. Observations of H <sub>2</sub> Fluorescence. <i>Astrophysical Journal</i> , 2002, 572, 310-325.  | 4.5  | 180       |
| 17 | Detection of Strong Magnetic Fields on M Dwarfs. <i>Astrophysical Journal</i> , 1996, 459, .  | 4.5  | 174       |
| 18 | The Farâ€Ultraviolet Spectra of TW Hydrae. II. Models of H <sub>2</sub> Fluorescence in a Disk. <i>Astrophysical Journal</i> , 2004, 607, 369-383.  | 4.5  | 166       |

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|----|--|------|-----------|
| 19 | A Transiting Planet of a Sun-like Star. <i>Astrophysical Journal</i> , 2006, 648, 1228-1238.   | 4.5  | 163       |
| 20 | Stellar Proper Motions in the Galactic Bulge from Deep Hubble Space Telescope ACS WFC Photometry. <i>Astrophysical Journal</i> , 2008, 684, 1110-1142.                           | 4.5  | 159       |
| 21 | Multiwavelength Observations of Flares on AD Leonis. <i>Astrophysical Journal</i> , 2003, 597, 535-554.  | 4.5  | 151       |
| 22 | XO-3b: A Massive Planet in an Eccentric Orbit Transiting an F5 V Star. <i>Astrophysical Journal</i> , 2008, 677, 657-670.  | 4.5  | 142       |
| 23 | XO-2b: Transiting Hot Jupiter in a Metal-rich Common Proper Motion Binary. <i>Astrophysical Journal</i> , 2007, 671, 2115-2128.  | 4.5  | 138       |
| 24 | Spectropolarimetry of Magnetospheric Accretion on the Classical T Tauri Star BP Tauri. <i>Astrophysical Journal</i> , 1999, 510, L41-L44.  | 4.5  | 137       |
| 25 | Transiting extrasolar planetary candidates in the Galactic bulge. <i>Nature</i> , 2006, 443, 534-540.  | 27.8 | 126       |
| 26 | An IUE Atlas of Pre-main-Sequence Stars. II. Far-Ultraviolet Accretion Diagnostics in T Tauri Stars. <i>Astrophysical Journal</i> , 2000, 539, 815-833.                          | 4.5  | 122       |
| 27 | THE NASA-LIC ETA-EARTH PROGRAM. I. A SUPER-EARTH ORBITING HD 7924. <i>Astrophysical Journal</i> , 2009, 696, 75-83.  | 4.5  | 122       |
| 28 | The N2K Consortium. I. A Hot Saturn Planet Orbiting HD 88133. <i>Astrophysical Journal</i> , 2005, 620, 481-486.   | 4.5  | 116       |
| 29 | An IUE Atlas of Pre-main-Sequence Stars. I. Co-added Final Archive Spectra from the SWP Camera. <i>Astrophysical Journal, Supplement Series</i> , 2000, 129, 399-420.            | 7.7  | 113       |
| 30 | Spectral Synthesis of TiO Lines. <i>Astrophysical Journal</i> , 1998, 498, 851-862.  | 4.5  | 106       |
| 31 | Limits on the magnetic flux of pre-main-sequence stars. <i>Astrophysical Journal</i> , 1992, 390, 622.   | 4.5  | 104       |
| 32 | Transiting Exoplanet Studies and Community Targets for JWST's Early Release Science Program. <i>Publications of the Astronomical Society of the Pacific</i> , 2016, 128, 094401. | 3.1  | 98        |
| 33 | The First Extrasolar Planet Discovered with a New-Generation High-Throughput Doppler Instrument. <i>Astrophysical Journal</i> , 2006, 648, 683-695.                              | 4.5  | 97        |
| 34 | Thermal Emission of Exoplanet XO-1b. <i>Astrophysical Journal</i> , 2008, 684, 1427-1432.  | 4.5  | 97        |
| 35 | Haze production rates in super-Earth and mini-Neptune atmosphere experiments. <i>Nature Astronomy</i> , 2018, 2, 303-306.  | 10.1 | 93        |
| 36 | THE TRANSIT INGRESS AND THE TILTED ORBIT OF THE EXTRAORDINARILY ECCENTRIC EXOPLANET HD 80606b. <i>Astrophysical Journal</i> , 2009, 703, 2091-2100.                              | 4.5  | 90        |

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|----|--|-----|-----------|
| 37 | A FAR-ULTRAVIOLET ATLAS OF LOW-RESOLUTION HUBBLE SPACE TELESCOPE SPECTRA OF T TAURI STARS. <i>Astrophysical Journal</i> , 2012, 744, 121.  | 4.5 | 90        |
| 38 | A Surprising Reversal of Temperatures in the Brown Dwarf Eclipsing Binary 2MASS J05352184+0546085. <i>Astrophysical Journal</i> , 2007, 664, 1154-1166.  | 4.5 | 89        |
| 39 | LARGE ECCENTRICITY, LOW MUTUAL INCLINATION: THE THREE-DIMENSIONAL ARCHITECTURE OF A HIERARCHICAL SYSTEM OF GIANT PLANETS. <i>Astrophysical Journal</i> , 2014, 791, 89.                        | 4.5 | 89        |
| 40 | THE NASA-UC ETA-EARTH PROGRAM. III. A SUPER-EARTH ORBITING HD 97658 AND A NEPTUNE-MASS PLANET ORBITING GI 785. <i>Astrophysical Journal</i> , 2011, 730, 10.                                   | 4.5 | 86        |
| 41 | Strategies for Constraining the Atmospheres of Temperate Terrestrial Planets with JWST. <i>Astrophysical Journal Letters</i> , 2018, 856, L34.   | 8.3 | 82        |
| 42 | Observations of T Tauri Stars using Hubble Space Telescope GHRS. I. Far-Ultraviolet Emission Lines. <i>Astrophysical Journal</i> , 2002, 566, 1100-1123.                                       | 4.5 | 81        |
| 43 | THE WFC3 GALACTIC BULGE TREASURY PROGRAM: METALLICITY ESTIMATES FOR THE STELLAR POPULATION AND EXOPLANET HOSTS. <i>Astrophysical Journal Letters</i> , 2010, 725, L19-L23.                     | 8.3 | 77        |
| 44 | Infrared Zeeman analysis of epsilon Eridani. <i>Astrophysical Journal</i> , 1995, 439, 939.  | 4.5 | 77        |
| 45 | New Infrared Veiling Measurements and Constraints on Accretion Disk Models for Classical T Tauri Stars. <i>Astrophysical Journal</i> , 2001, 561, 1060-1073.                                   | 4.5 | 77        |
| 46 | NEAR-ULTRAVIOLET EXCESS IN SLOWLY ACCRETING T TAURI STARS: LIMITS IMPOSED BY CHROMOSPHERIC EMISSION. <i>Astrophysical Journal</i> , 2011, 743, 105.  | 4.5 | 75        |
| 47 | THE NASA-UC ETA-EARTH PROGRAM. II. A PLANET ORBITING HD 156668 WITH A MINIMUM MASS OF FOUR EARTH MASSES. <i>Astrophysical Journal</i> , 2011, 726, 73.   | 4.5 | 74        |
| 48 | Searching for Earth Analogs Around the Nearest Stars: The Disk Age-Metallicity Relation and the Age Distribution in the Solar Neighborhood. <i>Astrophysical Journal</i> , 2007, 665, 767-784. | 4.5 | 74        |
| 49 | THE DISCOVERY OF HD 37605 AND A DISPOSITIVE NULL DETECTION OF TRANSITS OF HD 37605. <i>Astrophysical Journal</i> , 2012, 761, 46.  | 4.5 | 73        |
| 50 | Observations of Magnetic Fields on T Tauri Stars. <i>Astrophysics and Space Science</i> , 2004, 292, 619-629.  | 1.4 | 70        |
| 51 | The N2K Consortium. VI. Doppler Shifts without Templates and Three New Short-Period Planets. <i>Astrophysical Journal</i> , 2006, 647, 600-611.  | 4.5 | 70        |
| 52 | HOT GAS LINES IN T TAURI STARS. <i>Astrophysical Journal, Supplement Series</i> , 2013, 207, 1.  | 7.7 | 69        |
| 53 | THE METALLICITY OF THE PLEIADES. <i>Astronomical Journal</i> , 2009, 138, 1292-1295.   | 4.7 | 66        |
| 54 | TWO EXOPLANETS DISCOVERED AT KECK OBSERVATORY. <i>Astrophysical Journal</i> , 2009, 702, 989-997.  | 4.5 | 65        |

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|----|--|-----|-----------|
| 55 | XO-5b: A Transiting Jupiter-sized Planet with a 4 Day Period. <i>Astrophysical Journal</i> , 2008, 686, 1331-1340.   | 4.5 | 63        |
| 56 | The Loopy Ultraviolet Line Profiles of RU Lupi: Accretion, Outflows, and Fluorescence. <i>Astronomical Journal</i> , 2005, 129, 2777-2791.   | 4.7 | 61        |
| 57 | FIVE PLANETS AND AN INDEPENDENT CONFIRMATION OF HD 196885Ab FROM LICK OBSERVATORY. <i>Astrophysical Journal</i> , 2009, 703, 1545-1556.  | 4.5 | 59        |
| 58 | Photochemical Haze Formation in the Atmospheres of Super-Earths and Mini-Neptunes. <i>Astronomical Journal</i> , 2018, 156, 38.  | 4.7 | 59        |
| 59 | Ly $\alpha$ DOMINANCE OF THE CLASSICAL T TAURI FAR-ULTRAVIOLET RADIATION FIELD. <i>Astrophysical Journal Letters</i> , 2012, 756, L23.   | 8.3 | 58        |
| 60 | Mapping the Circumstellar Environment of T Tauri with Fluorescent H <sub>2</sub> Emission. <i>Astronomical Journal</i> , 2003, 126, 3076-3089.   | 4.7 | 55        |
| 61 | An IUE Atlas of Pre-Main-Sequence Stars. III. Co-added Final Archive Spectra from the Long-Wavelength Cameras. <i>Astrophysical Journal, Supplement Series</i> , 2003, 147, 305-336.       | 7.7 | 55        |
| 62 | Testing the Reality of Strong Magnetic Fields on T Tauri Stars: The Naked T Tauri Star Hubble 4. <i>Astrophysical Journal</i> , 2004, 617, 1204-1215.                                      | 4.5 | 54        |
| 63 | ACCURATE GRAVITIES OF F, G, AND K STARS FROM HIGH RESOLUTION SPECTRA WITHOUT EXTERNAL CONSTRAINTS. <i>Astrophysical Journal</i> , 2015, 805, 126.  | 4.5 | 54        |
| 64 | The N2K Consortium. III. Short-Period Planets Orbiting HD 149143 and HD 109749. <i>Astrophysical Journal</i> , 2006, 637, 1094-1101.   | 4.5 | 52        |
| 65 | Measuring the Magnetic Field of the Classical T Tauri Star TW Hydrae. <i>Astrophysical Journal</i> , 2005, 635, 466-475.   | 4.5 | 50        |
| 66 | Laboratory Simulations of Haze Formation in the Atmospheres of Super-Earths and Mini-Neptunes: Particle Color and Size Distribution. <i>Astrophysical Journal Letters</i> , 2018, 856, L3. | 8.3 | 48        |
| 67 | THE FAR-ULTRAVIOLET $\alpha$ -CONTINUUM IN PROTOPLANETARY DISK SYSTEMS. II. CARBON MONOXIDE FOURTH POSITIVE EMISSION AND ABSORPTION*. <i>Astrophysical Journal</i> , 2011, 734, 31.        | 4.5 | 46        |
| 68 | Observations of T Tauri Stars Using the Hubble Space Telescope GHRS. II. Optical and Near-Ultraviolet Lines. <i>Astrophysical Journal</i> , 2002, 567, 1013-1027.                          | 4.5 | 46        |
| 69 | M2K. II. A TRIPLE-PLANET SYSTEM ORBITING HIP 57274. <i>Astrophysical Journal</i> , 2012, 745, 21.  | 4.5 | 45        |
| 70 | NICMOS OBSERVATIONS OF THE TRANSITING HOT JUPITER XO-1b. <i>Astrophysical Journal</i> , 2010, 719, 1796-1806.  | 4.5 | 44        |
| 71 | Hamilton Echelle Spectroscopy of the 1993 March 6 Solar Flare. <i>Astrophysical Journal, Supplement Series</i> , 1997, 112, 221-243.   | 7.7 | 42        |
| 72 | Gas Phase Chemistry of Cool Exoplanet Atmospheres: Insight from Laboratory Simulations. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 39-50.   | 2.7 | 38        |

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|----|--|------|-----------|
| 73 | The Near-ultraviolet Continuum Radiation in the Impulsive Phase of HF/GF-type dMe Flares. I. Data. <i>Astrophysical Journal</i> , 2019, 871, 167.  | 4.5  | 35        |
| 74 | Chemistry of Temperate Super-Earth and Mini-Neptune Atmospheric Hazes from Laboratory Experiments. <i>Planetary Science Journal</i> , 2020, 1, 17.   | 3.6  | 34        |
| 75 | Haze Formation in Warm H <sub>2</sub> -rich Exoplanet Atmospheres. <i>Planetary Science Journal</i> , 2020, 1, 51.   | 3.6  | 34        |
| 76 | MAGNETIC PROPERTIES OF YOUNG STARS IN THE TW HYDRAE ASSOCIATION. <i>Astronomical Journal</i> , 2008, 136, 2286-2294.   | 4.7  | 32        |
| 77 | Ultraviolet Absorption Lines from High-Velocity Gas in the Vela Supernova Remnant: New Insights from Space Telescope Imaging Spectrograph Echelle Observations of HD 72089. <i>Astrophysical Journal</i> , 1998, 492, L147-L150. | 4.5  | 31        |
| 78 | Phoenix: operation and performance of a cryogenic high-resolution 1- to 5- $\frac{1}{4}$ m infrared spectrograph. , 2000, , .  |      | 31        |
| 79 | Spectropolarimetry of the Classical T Tauri Star TW Hydrae. <i>Astronomical Journal</i> , 2007, 133, 73-80.  | 4.7  | 31        |
| 80 | Spectropolarimetry of the Classical T Tauri Star T Tauri. <i>Astronomical Journal</i> , 2006, 131, 520-526.  | 4.7  | 27        |
| 81 | CHARACTERIZING CO FOURTH POSITIVE EMISSION IN YOUNG CIRCUMSTELLAR DISKS. <i>Astrophysical Journal</i> , 2012, 746, 97.   | 4.5  | 27        |
| 82 | Haze evolution in temperate exoplanet atmospheres through surface energy measurements. <i>Nature Astronomy</i> , 2021, 5, 822-831.   | 10.1 | 27        |
| 83 | High-Resolution Infrared Spectroscopy of the Brown Dwarf Indi Ba. <i>Astrophysical Journal</i> , 2003, 599, L107-L110.   | 4.5  | 23        |
| 84 | THE WFC3 GALACTIC BULGE TREASURY PROGRAM: A FIRST LOOK AT RESOLVED STELLAR POPULATION TOOLS. <i>Astronomical Journal</i> , 2009, 137, 3172-3180.   | 4.7  | 22        |
| 85 | Chemically Dissected Rotation Curves of the Galactic Bulge from Main-sequence Proper Motions*. <i>Astrophysical Journal</i> , 2018, 858, 46.   | 4.5  | 20        |
| 86 | Toward a Self-calibrating, Empirical, Light-weight Model for Tellurics in High-resolution Spectra. <i>Astronomical Journal</i> , 2019, 157, 187.   | 4.7  | 20        |
| 87 | MAGNETICALLY CONTROLLED ACCRETION ON THE CLASSICAL T TAURI STARS GQ LUPI AND TW HYDRAE. <i>Astrophysical Journal</i> , 2013, 765, 11.  | 4.5  | 19        |
| 88 | Physical realism in the analysis of stellar magnetic fields. III - Flux tubes and multicomponent atmospheres. <i>Astrophysical Journal</i> , 1990, 360, 650.   | 4.5  | 19        |
| 89 | The upgrade of HARPS to a full-Stokes high-resolution spectropolarimeter. <i>Proceedings of SPIE</i> , 2008, , .   | 0.8  | 16        |
| 90 | The Active Corona of HD 35850 (F8 V). <i>Astrophysical Journal</i> , 1999, 515, 423-434.   | 4.5  | 15        |

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|-----|---|-----|-----------|
| 91  | The ODYSSEUS Survey. Motivation and First Results: Accretion, Ejection, and Disk Irradiation of CVSO 109. <i>Astronomical Journal</i> , 2022, 163, 114.                                       | 4.7 | 15        |
| 92  | H <sub>2</sub> SO <sub>4</sub> and Organosulfur Compounds in Laboratory Analogue Aerosols of Warm High-metallicity Exoplanet Atmospheres. <i>Planetary Science Journal</i> , 2021, 2, 2.      | 3.6 | 14        |
| 93  | Spectral Analysis of Stars on Planet-Search Surveys. Symposium - International Astronomical Union, 2004, 219, 29-40.  | 0.1 | 13        |
| 94  | Detecting Biosignatures in the Atmospheres of Gas Dwarf Planets with the James Webb Space Telescope. <i>Astrophysical Journal</i> , 2021, 923, 144.   | 4.5 | 11        |
| 95  | The JWST/NIRSpec exoplanet exposure time calculator. <i>Proceedings of SPIE</i> , 2016, , .   | 0.8 | 8         |
| 96  | THE METALLICITY OF THE HD 98800 SYSTEM. <i>Astrophysical Journal</i> , 2009, 698, 660-665.  | 4.5 | 7         |
| 97  | THE XO PLANETARY SURVEY PROJECT: ASTROPHYSICAL FALSE POSITIVES. <i>Astrophysical Journal, Supplement Series</i> , 2010, 189, 134-141.   | 7.7 | 7         |
| 98  | Fiber Scrambling for High-Resolution Spectrographs. II. A Double Fiber Scrambler for Keck Observatory. <i>Publications of the Astronomical Society of the Pacific</i> , 2015, 127, 1027-1037. | 3.1 | 7         |
| 99  | Transiting Planets in the Galactic Bulge from SWEEPS Survey and Implications. <i>Proceedings of the International Astronomical Union</i> , 2008, 4, 45-53.                                    | 0.0 | 3         |
| 100 | The NIRSpec MSA Planning Tool for multi-object spectroscopy with JWST. <i>Proceedings of SPIE</i> , 2014, , .   | 0.8 | 2         |
| 101 | Direct imaging and spectroscopy of habitable planets using JWST and a starshade. <i>Proceedings of SPIE</i> , 2010, , .   | 0.8 | 1         |
| 102 | Observations of Magnetic Fields on T Tauri Stars. , 2004, , 445-455.  |     | 1         |
| 103 | Multi- $\lambda$ Zeeman Analysis. <i>International Astronomical Union Colloquium</i> , 1991, 130, 411-413.  | 0.1 | 0         |
| 104 | Infrared Observations of Magnetic Fields on Young Stars. , 0, , 325-330.  |     | 0         |
| 105 | Stellar proper motions in the Galactic bulge with ACS/WFC on HST. <i>Proceedings of the International Astronomical Union</i> , 2007, 3, 361-362.  | 0.0 | 0         |
| 106 | Kinematics of the SWEEPS transiting planet candidates. <i>Proceedings of the International Astronomical Union</i> , 2008, 4, 512-515.   | 0.0 | 0         |
| 107 | SpS1-Measuring magnetic fields on young stars. <i>Proceedings of the International Astronomical Union</i> , 2009, 5, 524-524.   | 0.0 | 0         |
| 108 | Metallicity and Planet Formation - Observations. <i>Proceedings of the International Astronomical Union</i> , 2009, 5, 403-407.   | 0.0 | 0         |

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|-----|---|-----|-----------|
| 109 | The search for magnetic fields in mercury-manganese stars. Proceedings of the International Astronomical Union, 2010, 6, 202-203. | 0.0 | 0         |
| 110 | Characterization of exoplanet hosts. EPJ Web of Conferences, 2013, 47, 09001.   | 0.3 | 0         |
| 111 | Magnetic Activity and the Solar-Stellar Connection. Astrophysics and Space Science Library, 2003, , 861-879.                      | 2.7 | 0         |
| 112 | Multi-line Zeeman analysis. , 1991, , 411-413.  |     | 0         |