

David R. Ciardi, Ph. D.

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Professional Objective

It is my strongest desire to make a positive and influential impact on my community by empowering and conducting innovative scientific research.

Skills

I am self-motivated and versatile, with a talent to meet new and different challenges. Throughout my career, I have a demonstrated ability to perform leading-edge scientific exploration, and to design, develop, and lead large-scale scientific projects from inception to completion. Experienced in scientific project management and leadership, I have an entrepreneurial spirit coupled with strong analysis and management skills and excellent verbal and written communication skills.

Education

Ph.D. Physics University of Wyoming, Laramie, WY, USA 1997

Star Formation in the Filamentary Dark Cloud GF-9: A Multi-Wavelength Intra-Cloud Comparative Study,
Advisor Charles E. Woodward

B.A. Astronomy & Physics (cum laude), Boston University, Boston, MA, USA 1991

Professional Experience

2002 – Present: Associate Research Scientist, NASA Exoplanet Institute/IPAC/Caltech

Project Scientist at NExSci/IPAC including leadership of the Large Synoptic Survey Telescope Science User Interface and Tools, the Kepler Follow-Up Observation Program, the Las Cumbres Observatory Global Telescope Network Archive, the Kepler Science Analysis System, the NASA Star and Exoplanet Database (now the NASA Exoplanet Archive), and the Keck Observatory Archive. Duties include management and scientific direction of a team of software engineers and scientists during the design, development, implementation, and operation. Other duties include liaison to the exoplanet community for NExSci with an emphasis on new projects and coordination of the Kepler Follow-Up Observation Program. Scientific research focused on exoplanet detection, characterization, and formation, and stellar astrophysics and formation, interacting binaries, and the interstellar medium. Techniques include high precision optical and near-infrared time-series photometry and spectroscopy, radio imaging spectroscopy, mid-infrared imaging and spectroscopy, and near-infrared interferometry. Member of the Professional Staff 2009 – Current; Assistant Research Scientist 2006 – 2008; Assistant Staff Scientist 2002 – 2006

2000 – 2002: Assistant Scientist, University of Florida

Instrument scientist and optical designer for the Florida infrared instrumentation group. Lead optical designer and engineer for the spectroscopy components for T-ReCS, a mid-infrared imager and spectrograph for the Gemini 8-m Telescope, and CanariCam, a mid-infrared imager and spectrograph with polarimetric and coronagraphic modes for the Spanish GTC 10-m Telescope. Team leader for the integration and testing of T-ReCS; team leader for the scattering analysis for CanariCam.

1998 – 2000: Postdoctoral Research Scientist, University of Florida

Responsible for the University of Florida in-orbit observational plan to be performed with NASA's Wide-Field Infrared Explorer (WIRE) to map and take a complete census of the nearest star formation regions. Developed a suite of GUI-based planning tools that utilized the satellite coordinate system and orbital parameters to optimize data acquisition. Acted as the primary point of contact between the University of Florida team and the NASA team. Postdoctoral advisor, Dr. Elizabeth Lada

1996 – 1998: Postdoctoral Research Scientist, University of Wyoming

Developed and lead an optical-infrared imaging and spectroscopic scientific program to study low-mass stellar objects in interacting binary systems. Team leader for the preparation, setup, operation, and support of the cryogenic near-infrared camera systems at the Wyoming Infrared Observatory (WIRO). Developed a suite of software tools for data collection and analysis to be used with the near-infrared imaging systems at WIRO. Postdoctoral advisor: Dr. Steve Howell

Teaching and Outreach Experience

2000 – Present: Public Outreach Activities

Various educational and outreach activities over the past decade with an emphasis on bridging the gap between the scientific community and the general public. Specific recent activities include guest speaker and outside astronomy advisor for the College of the Canyons Astronomy and Physics Club, the Jet Propulsion Laboratory annual open house, invited public lectures at the Cal State Northridge Bianchi Planetarium, invited public lectures for the Annual Connecticut Star Party, invited public lectures for Phillips Academy, and mentor scientist for the NASA/IPAC Teachers Archive Research Program.

2003 – 2010: Guest Science Teacher, Rosedell Elementary School, Saugus, CA

Presented a series of activity-based classes to a kindergarten through 6th grade students. Topics included astronomy, electricity, magnetism, light & shadows, and water & air buoyancy.

2000 – 2002: Adjunct Faculty, Santa Fe Community College, Gainesville, FL

Fundamentals of Physical Science: a one semester class intended to teach non-science majors the fundamentals of physics and chemistry. Topics include motion, linear and rotational forces, momentum, energy, thermodynamics, atomic structure, elemental properties, and chemical reactions.

Introduction to Astronomy: a one-semester class intended as a survey of modern astronomy. Topics include the solar system, stellar evolution, galactic and extragalactic astronomy and cosmology.

Professional Mentoring

2003 – 2006: Dr. Cynthia Gomez-Martin (with Telesco), graduate student, U. Florida

2004 – 2006: Dr. Kaspar von Braun, postdoctoral scholar, Caltech

2005 – 2007: Ms. Samantha Lawler (with Beichman), undergraduate, Caltech

2007 – 2009: Dr. Peter Plavchan (with Werner), postdoctoral scholar, Caltech

2009 – 2011: Dr. Julian van Eyken, postdoctoral scholar, Caltech

2011 – 2012: Mr. Daniel Glomboske, College of the Canyons/Caltech

2014 – Current: Ms. Lea Hirsch (with Marcy), University of California, Berkeley

Professional Affiliations and Major Research Collaborations

American Astronomical Society, Full Member
International Astronomical Union, Full Member
Kepler Science Team
CoRoT Science Team
PI Palomar Transient Factory-Orion Transit Survey

Palomar Transient Factory Science Team
Spitzer Exploration Key Program: “Young Stellar Object Variability”
Herschel Key Project “GASPS”
CanariCam Science Team

Professional Publications

Author or co-author on 138 papers in the peer-reviewed literature, with more than 7500 citations since 1992. A full publication list is attached below.

Highlights of some important contributions to the field of astrophysics

- 2015: "Understanding The Effects Of Stellar Multiplicity On The Derived Planet Radii From Transit Surveys: Implications for Kepler, K2, and TESS," Ciardi et al., submitted
- 2015: "Spitzer, Keck, and LCOGT Observations of PTFO 8-8695B: A Jupiter-Mass Planet Orbiting a 3 Myr Old T-Tauri Star," Ciardi et al. First paper supporting the planetary nature of PTF 8-8695B discovered by van Eyken, Ciardi et al. 2012, submitted
- 2013: "On the Relative Sizes of Planets within Kepler Multiple-candidate Systems," Ciardi et al., First paper to show definitely that larger gas and ice giant planets are more commonly in orbits outside of smaller, rocky planets in the Kepler sample indicative of migrational shepherding and/or evaporation.
- 2012: "The PTF Orion Project: A Possible Planet Transiting a T-Tauri Star," van Eyken, Ciardi et al., First paper to discover a transiting Jupiter-sized planetary candidate around a few million year T Tauri star.
- 2011: "Characterizing the Variability of Stars with Early-release Kepler Data," Ciardi et al., First paper to use the Kepler data to determine the variability amplitudes and variability fractions of the stars in the Kepler sample.
- 2001: "On the Near-Infrared Size of Vega," Ciardi et al., First paper to use infrared interferometry to measure the size of the debris disk and show that Vega's debris disk harbors dust inside of 1 AU.
- 2001: "Altair's Oblateness and Rotation Velocity from Long-Baseline Interferometry," van Belle, Ciardi, et al., First paper to use infrared interferometry to measure directly the rotational oblateness of a star.

Proposals and Grants

Awarded over \$1.5M in research grants as either primary investigator or co-investigator since 2005.

Recent Funded Proposals as Primary Investigator

- NASA 2014, "Assessing the True Sizes of Kepler's Smallest Planets in Multi-Planet Systems," \$35,000
- NASA 2013, "Validating Kepler's Smallest Planets", \$10,000
- NASA 2012, "Adaptive Optics Imaging of Kepler Objects of Interest," \$130,000
- NASA 2012, "The R-M Effect for a 3Myr Transiting Jupiter-sized Planet Candidate," \$15,000
- NASA 2010, "Measuring the Temperature of the Peculiar Exoplanet CoRoT-3," \$15,000
- NASA 2005, "A Search for Warm Dust in the Habitable Zones Around Solar-Type Stars," \$300,000

Recent Funded Proposals as Co-Investigator

- NASA 2012, "High Precision, Directly Determined Radii and Effective Temperatures for Giant Stars," \$234,000
- NSF 2012, "High Precision, Directly Determined Linear Radii and Effective Temperatures for Giant Stars," \$356,000

Recent Talks and Colloquia

- 2008: "A Search for Warm Dust in the Habitable Zones Around Solar-like Stars," University of Minnesota, Host: Chick Woodward
- 2008: "A Search for Warm Dust in the Habitable Zones Around Solar-like Stars," Laboratoire d'Astrophysique de Marseille, Host: Magali Deleuil
- 2009: "A Search for Warm Dust in the Habitable Zones Around Solar-like Stars," Southern Connecticut State University, Host: Elliott Horch
- 2010: "Expanding the Boundaries of the Known Transiting Planets," University of British Columbia, Host: Jaymie Matthews
- 2011: "An Attempt to Observe the Secondary Eclipse of CoRoT-3b with Keck," Second CoRoT Science Symposium, Contributed Talk

- 2011: "An Analysis of 224 Kepler Exoplanets in 93 Multiple Systems," First Kepler Science Meeting, Contributed Talk
- 2012: "Chasing Shadows: The Kepler Mission and the Impending Revolution in How We View the Earth," California State University, Northridge, Host: Jan Dobias
- 2013: "Chasing Shadows: The Kepler Mission and the Impending Revolution in How We View the Earth," AIAA, Host: Christiana Taylor
- 2014: "Observations of the Pre-Main Sequence Exoplanet Candidate PTF0 8-8695," AAS, Contributed Talk
- 2014 "Finding the Youngest Exoplanets: A Transiting Jupiter-sized Planet Around a T Tauri Star," Lowell Observatory, Host: Gerard van Belle
- 2014 "High Spatial Resolution Imaging of Kepler Planetary Candidates," University of Notre Dame, Host: Justin Crepp
- 2014 "Finding the Youngest Exoplanets: A Transiting Jupiter-sized Planet Around a T Tauri Star," Yale University, Host Ji Wang

Full List of Publications (138 Publications, 7500+ citations; h-index = 45.5)

1. Boyajian, T. et al. 2015, Stellar diameters and temperatures - VI. High angular resolution measurements of the transiting exoplanet host stars HD 189733 and HD 209458 and implications for models of cool dwarfs, *MNRAS*, 447, 846
2. Everett, M. E., Barclay, T., Ciardi, D. R., Horch, E. P., Howell, S. B., Crepp, J. R., & Silva, D. R. 2015, High-Resolution Multi-Band Imaging for Validation and Characterization of Small Kepler Planets, *AJ*, 149, 55
3. Gilliland, R. L., Cartier, K. M. S., Adams, E. R., Ciardi, D. R., Kalas, P. & Wright, J. T. 2015, Hubble Space Telescope High-Resolution Imaging of Kepler Small and Cool Exoplanet Host Stars, *AJ*, 149, 24
4. Benedict, G. F., Tanner, A. M., Cargile, P. A. & Ciardi, D. R. 2014, A Technique to Derive Improved Proper Motions for Kepler Objects of Interest, *AJ*, 148, 108
5. Endl, M. et al 2014, Kepler-424 b: A "Lonely" Hot Jupiter that Found a Companion, *ApJ*, 795, 151
6. Horch, E. P. , Howell, S. B., Everett, M. E., & Ciardi, D. R. 2014, Most Sub-arcsecond Companions of Kepler Exoplanet Candidate Host Stars are Gravitationally Bound, *ApJ*, 795, 60
7. de Peter, I., Davies, A. G., Adamkovics, M., Ciardi, D. R. Two new, rare, high-effusion outburst eruptions at Rarog and Heno Paterae on Io. *Icarus*, 242, 365
8. Wang, J., Fischer, D., Xie, J.-W., Ciardi, D. R. Influence of Stellar Multiplicity on Planet Formation. II. Planets are Less Common in Multiple-star Systems with Separations Smaller than 1500 AU. *The Astrophysical Journal*, 791, 111
9. Fabrycky, D. C. and 22 colleagues 2014. Architecture of Kepler's Multi-transiting Systems. II. New Investigations with Twice as Many Candidates. *The Astrophysical Journal*, 790, 68
10. Hoard, D. W. and 13 colleagues 2014. Nova-like Cataclysmic Variables in the Infrared. *The Astrophysical Journal*, 786, 68.
11. Quintana, E. V. and 22 colleagues 2014. An Earth-Sized Planet in the Habitable Zone of a Cool Star. *Science*, 344, 277
12. Kane, S. R. and 9 colleagues 2014. Limits on Stellar Companions to Exoplanet Host Stars with Eccentric Planets. *The Astrophysical Journal*, 785, 93.
13. von Braun, K. and 19 colleagues 2014. Stellar diameters and temperatures-V. 11 newly characterized exoplanet host stars. *Monthly Notices of the Royal Astronomical Society*, 438, 2413.
14. Rowe, J. F., and 28 colleagues 2014. Validation of Kepler's Multiple Planet Candidates. III. Light Curve Analysis and Announcement of Hundreds of New Multi-planet Systems. *The Astrophysical Journal*, 784, 45
15. Marcy, G.W., and 102 colleagues 2014. Masses, Radii, and Orbits of Small Kepler Planets: The Transition from Gaseous to Rocky Planets. *The Astrophysical Journal Supplement Series* 210, 20.
16. Burke, C.J., and 39 colleagues 2014. Planetary Candidates Observed by Kepler IV: Planet Sample from Q1-Q8 (22 Months). *The Astrophysical Journal Supplement Series* 210, 19.
17. von Braun, K., and 19 colleagues 2014. Stellar diameters and temperatures - V. 11 newly characterized exoplanet host stars. *Monthly Notices of the Royal Astronomical Society* 94.

18. van Belle, G.T., Paladini, C., Aringer, B., Hron, J., Ciardi, D. 2013. The PTI Carbon Star Angular Size Survey: Effective Temperatures and Non-sphericity *The Astrophysical Journal* 775, 45.
19. Barnes, J. W., van Eyken, J. C., Jackson, B. K., Ciardi, D. R., Fortney, J. J. 2013. Measurement of Spin-orbit Misalignment and Nodal Precession for the Planet around Pre-main-sequence Star PTF0 8-8695 from Gravity Darkening. *The Astrophysical Journal* 774, 53.
20. Akeson, R. L., and 34 colleagues 2013. The NASA Exoplanet Archive: Data and Tools for Exoplanet Research. *Publications of the Astronomical Society of the Pacific* 125, 989-999.
21. Ballard, S., and 15 colleagues 2013. Exoplanet Characterization by Proxy: A Transiting 2.15 Earth Planet near the Habitable Zone of the Late K Dwarf Kepler-61. *The Astrophysical Journal* 773, 98.
22. Meibom, S., and 18 colleagues 2013. The same frequency of planets inside and outside open clusters of stars. *Nature* 499, 55-58.
23. Borucki, W. J., and 64 colleagues 2013. Kepler-62: A Five-Planet System with Planets of 1.4 and 1.6 Earth Radii in the Habitable Zone. *Science* 340, 587-590.
24. Dent, W.R.F., and 49 colleagues 2013. GASPS - A Herschel Survey of Gas and Dust in Protoplanetary Disks: Summary and Initial Statistics. *Publications of the Astronomical Society of the Pacific* 125, 477-505.
25. Henry, G. W., and 15 colleagues 2013. Host Star Properties and Transit Exclusion for the HD 38529 Planetary System. *The Astrophysical Journal* 768, 155.
26. Barclay, T., and 30 colleagues 2013. A Super-Earth-sized Planet Orbiting in or Near the Habitable Zone around a Sun-like Star. *The Astrophysical Journal* 768, 101.
27. Quintana, E., and 18 colleagues 2013. Confirmation of Hot Jupiter Kepler-41b via Phase Curve Analysis. *ApJ*, 767, 137
28. Barclay, T., and 57 colleagues 2013. A sub-Mercury-sized exoplanet. *Nature* 494, 452-454.
29. Batalha, N. M., and 75 colleagues 2013. Planetary Candidates Observed by Kepler. III. Analysis of the First 16 Months of Data. *The Astrophysical Journal Supplement Series* 204, 24.
30. Ciardi, D. R., Fabrycky, D. C., Ford, E. B., Gautier, T. N., III, Howell, S. B., Lissauer, J. J., Ragozzine, D., Rowe, J. F. 2013. On the Relative Sizes of Planets within Kepler Multiple-candidate Systems. *The Astrophysical Journal* 763, 41.
31. Horch, E. P., Howell, S. B., Everett, M. E., Ciardi, D. R. 2012. Observations of Binary Stars with the Differential Speckle Survey Instrument. IV. Observations of Kepler, CoRoT, and Hipparcos Stars from the Gemini North Telescope. *The Astronomical Journal* 144, 165.
32. Howell, S. B., Horch, E. P., Everett, M. E., Ciardi, D. R. 2012. Speckle Camera Imaging of the Planet Pluto. *Publications of the Astronomical Society of the Pacific* 124, 1124-1131.
33. Boyajian, T. S., and 23 colleagues 2012. Stellar Diameters and Temperatures. II. Main-sequence K- and M-stars. *The Astrophysical Journal* 757, 112.
34. Kane, S. R., Ciardi, D. R., Gelino, D. M., von Braun, K. 2012. The exoplanet eccentricity distribution from Kepler planet candidates. *Monthly Notices of the Royal Astronomical Society* 425, 757-762.
35. Steffen, J. H., and 17 colleagues 2012. Transit Timing Observations from Kepler. VI. Potentially Interesting Candidate Systems from Fourier-based Statistical Tests. *The Astrophysical Journal* 756, 186.
36. Howard, A. W., and 66 colleagues 2012. Planet Occurrence within 0.25 AU of Solar-type Stars from Kepler. *The Astrophysical Journal Supplement Series* 201, 15.
37. van Eyken, J. C., and 37 colleagues 2012. The PTF Orion Project: A Possible Planet Transiting a T-Tauri Star. *The Astrophysical Journal* 755, 42.
38. Adams, E. R., Ciardi, D. R., Dupree, A. K., Gautier, T. N., III, Kulesa, C., McCarthy, D. 2012. Adaptive Optics Images of Kepler Objects of Interest. *The Astronomical Journal* 144, 42.
39. Dragomir, D., and 13 colleagues 2012. The HD 192263 System: Planetary Orbital Period and Stellar Variability Disentangled. *The Astrophysical Journal* 754, 37.
40. von Braun, K., and 17 colleagues 2012. The GJ 436 System: Directly Determined Astrophysical Parameters of an M Dwarf and Implications for the Transiting Hot Neptune. *The Astrophysical Journal* 753, 171.
41. Anglada-Escude, G., and 13 colleagues 2012. Design and Construction of Absorption Cells for Precision Radial Velocities in the K Band Using Methane Isotopologues. *Publications of the Astronomical Society of the Pacific* 124, 586-597.
42. Buchhave, L. A., and 28 colleagues 2012. An abundance of small exoplanets around stars with a wide range of metallicities. *Nature* 486, 375-377.

43. Fabrycky, D. C., and 33 colleagues 2012. Transit Timing Observations from Kepler. IV. Confirmation of Four Multiple-planet Systems by Simple Physical Models. *The Astrophysical Journal* 750, 114.
44. Lissauer, J. J., and 23 colleagues 2012. Almost All of Kepler's Multiple-planet Candidates Are Planets. *The Astrophysical Journal* 750, 112.
45. Steffen, J. H., and 47 colleagues 2012. Transit timing observations from Kepler - III. Confirmation of four multiple planet systems by a Fourier-domain study of anticorrelated transit timing variations. *Monthly Notices of the Royal Astronomical Society* 421, 2342-2354.
46. Gautier, T. N., III, and 43 colleagues 2012. Kepler-20: A Sun-like Star with Three Sub-Neptune Exoplanets and Two Earth-size Candidates. *The Astrophysical Journal* 749, 15.
47. Fressin, F., and 35 colleagues 2012. Two Earth-sized planets orbiting Kepler-20. *Nature* 482, 195-198.
48. Howell, S. B., and 66 colleagues 2012. Kepler-21b: A 1.6 REarth Planet Transiting the Bright Oscillating F Subgiant Star HD 179070. *The Astrophysical Journal* 746, 123.
49. Borucki, W. J., and 83 colleagues 2012. Kepler-22b: A 2.4 Earth-radius Planet in the Habitable Zone of a Sun-like Star. *The Astrophysical Journal* 745, 120.
50. Welsh, W. F., and 45 colleagues 2012. Transiting circumbinary planets Kepler-34 b and Kepler-35 b. *Nature* 481, 475-479.
51. Ballard, S., and 30 colleagues 2011. The Kepler-19 System: A Transiting 2.2 Rearth Planet and a Second Planet Detected via Transit Timing Variations. *The Astrophysical Journal* 743, 200.
52. Pilyavsky, G., and 15 colleagues 2011. A Search for the Transit of HD 168443b: Improved Orbital Parameters and Photometry. *The Astrophysical Journal* 743, 162.
53. Beichman, C. A., Lisse, C. M., Tanner, A. M., Bryden, G., Akesson, R. L., Ciardi, D. R., Boden, A. F., Dodson-Robinson, S. E., Salyk, C., Wyatt, M. C. 2011. Multi-epoch Observations of HD 69830: High-resolution Spectroscopy and Limits to Variability. *The Astrophysical Journal* 743, 85.
54. Blomme, J., and 13 colleagues 2011. Improved methodology for the automated classification of periodic variable stars. *Monthly Notices of the Royal Astronomical Society* 418, 96-106.
55. Endl, M., and 32 colleagues 2011. Kepler-15b: A Hot Jupiter Enriched in Heavy Elements and the First Kepler Mission Planet Confirmed with the Hobby-Eberly Telescope. *The Astrophysical Journal Supplement Series* 197, 13.
56. Fortney, J. J., and 36 colleagues 2011. Discovery and Atmospheric Characterization of Giant Planet Kepler-12b: An Inflated Radius Outlier. *The Astrophysical Journal Supplement Series* 197, 9.
57. Lissauer, J. J., and 24 colleagues 2011. Architecture and Dynamics of Kepler's Candidate Multiple Transiting Planet Systems. *The Astrophysical Journal Supplement Series* 197, 8.
58. Cochran, W. D., and 53 colleagues 2011. Kepler-18b, c, and d: A System of Three Planets Confirmed by Transit Timing Variations, Light Curve Validation, Warm-Spitzer Photometry, and Radial Velocity Measurements. *The Astrophysical Journal Supplement Series* 197, 7.
59. Fressin, F., and 32 colleagues 2011. Kepler-10 c: a 2.2 Earth Radius Transiting Planet in a Multiple System. *The Astrophysical Journal Supplement Series* 197, 5.
60. Buchhave, L. A., and 48 colleagues 2011. Kepler-14b: A Massive Hot Jupiter Transiting an F Star in a Close Visual Binary. *The Astrophysical Journal Supplement Series* 197, 3.
61. Kane, S. R., Gelino, D. M., Ciardi, D. R., Dragomir, D., von Braun, K. 2011. Planetary Phase Variations of the 55 Cancri System. *The Astrophysical Journal* 740, 61.
62. von Braun, K., and 16 colleagues 2011. 55 Cancri: Stellar Astrophysical Parameters, a Planet in the Habitable Zone, and Implications for the Radius of a Transiting Super-Earth. *The Astrophysical Journal* 740, 49.
63. Dragomir, D., and 12 colleagues 2011. TERMS Photometry of Known Transiting Exoplanets. *The Astronomical Journal* 142, 115.
64. Kane, S. R., and 11 colleagues 2011. Stellar Variability of the Exoplanet Hosting Star HD 63454. *The Astrophysical Journal* 737, 58.
65. van Eyken, J. C., and 27 colleagues 2011. The Palomar Transient Factory Orion Project: Eclipsing Binaries and Young Stellar Objects. *The Astronomical Journal* 142, 60.
66. Borucki, W. J., and 69 colleagues 2011. Characteristics of Planetary Candidates Observed by Kepler. II. Analysis of the First Four Months of Data. *The Astrophysical Journal* 736, 19.
67. Howell, S. B., Everett, M. E., Sherry, W., Horch, E., Ciardi, D. R. 2011. Speckle Camera Observations for the NASA Kepler Mission Follow-up Program. *The Astronomical Journal* 142, 19.

68. Feldmeier, J. J., and 11 colleagues 2011. The Burrell-Optical-Kepler-Survey (BOKS). I. Survey Description and Initial Results. *The Astronomical Journal* 142, 2.
69. Horch, E. P., van Altena, W. F., Howell, S. B., Sherry, W. H., Ciardi, D. R. 2011. Observations of Binary Stars with the Differential Speckle Survey Instrument. III. Measures below the Diffraction Limit of the WIYN Telescope. *The Astronomical Journal* 141, 180.
70. Kane, S. R., and 12 colleagues 2011. Improved Orbital Parameters and Transit Monitoring for HD 156846b. *The Astrophysical Journal* 733, 28.
71. Latham, D. W., and 32 colleagues 2011. A First Comparison of Kepler Planet Candidates in Single and Multiple Systems. *The Astrophysical Journal* 732, L24.
72. Ciardi, D. R., von Braun, K., Bryden, G., van Eyken, J., Howell, S. B., Kane, S. R., Plavchan, P., Ramirez, S. V., Stauffer, J. R. 2011. Characterizing the Variability of Stars with Early-release Kepler Data. *The Astronomical Journal* 141, 108.
73. von Braun, K., and 20 colleagues 2011. Astrophysical Parameters and Habitable Zone of the Exoplanet Hosting Star GJ 581. *The Astrophysical Journal* 729, L26.
74. Batalha, N. M., and 51 colleagues 2011. Kepler's First Rocky Planet: Kepler-10b. *The Astrophysical Journal* 729, 27.
75. Borucki, W. J., and 61 colleagues 2011. Characteristics of Kepler Planetary Candidates Based on the First Data Set. *The Astrophysical Journal* 728, 117.
76. Akeson, R. L., and 10 colleagues 2011. Radial Structure in the TW Hya Circumstellar Disk. *The Astrophysical Journal* 728, 96.
77. Horch, E. P., Gomez, S. C., Sherry, W. H., Howell, S. B., Ciardi, D. R., Anderson, L. M., van Altena, W. F. 2011. Observations of Binary Stars with the Differential Speckle Survey Instrument. II. Hipparcos Stars Observed in 2010 January and June. *The Astronomical Journal* 141, 45.
78. Torres, G., and 29 colleagues 2011. Modeling Kepler Transit Light Curves as False Positives: Rejection of Blend Scenarios for Kepler-9, and Validation of Kepler-9 d, A Super-earth-size Planet in a Multiple System. *The Astrophysical Journal* 727, 24.
79. Howell, S. B., Rowe, J. F., Sherry, W., von Braun, K., Ciardi, D. R., Bryson, S. T., Feldmeier, J. J., Horch, E., van Belle, G. T. 2010. Kepler Observations of Three Pre-launch Exoplanet Candidates: Discovery of Two Eclipsing Binaries and a New Exoplanet. *The Astrophysical Journal* 725, 1633-1643.
80. Holman, M. J., and 40 colleagues 2010. Kepler-9: A System of Multiple Planets Transiting a Sun-Like Star, Confirmed by Timing Variations. *Science* 330, 51.
81. Barsony, M., Wolf-Chase, G. A., Ciardi, D. R., O'Linger, J. 2010. IRS Scan-mapping of the Wasp-waist Nebula (IRAS 16253-2429). I. Derivation of Shock Conditions from H₂ Emission and Discovery of 11.3 μ m PAH Absorption. *The Astrophysical Journal* 720, 64-86.
82. Stauffer, J., and 12 colleagues 2010. Accurate Coordinates and 2MASS Cross Identifications for (Almost) All Gliese Catalog Star. *Publications of the Astronomical Society of the Pacific* 122, 885-897.
83. Coughlin, J. L., Gelino, D. M., Harrison, T. E., Hoard, D. W., Ciardi, D. R., Benedict, G. F., Howell, S. B., McArthur, B. E., Wachter, S. 2010. Modeling Multi-wavelength Stellar Astrometry. I. SIM Lite Observations of Interacting Binaries. *The Astrophysical Journal* 717, 776-786.
84. Mathews, G. S., and 51 colleagues 2010. GAS in Protoplanetary Systems (GASPS). I. First results. *Astronomy and Astrophysics* 518, L127.
85. Pinte, C., and 51 colleagues 2010. The Herschel view of GAS in Protoplanetary Systems (GASPS). First comparisons with a large grid of models. *Astronomy and Astrophysics* 518, L126.
86. Thi, W.-F., and 51 colleagues 2010. Herschel-PACS observation of the 10 Myr old T Tauri disk TW Hya. Constraining the disk gas mass. *Astronomy and Astrophysics* 518, L125.
87. Meeus, G., and 51 colleagues 2010. Gas in the protoplanetary disc of HD 169142: Herschel's view. *Astronomy and Astrophysics* 518, L124.
88. Deeg, H. J., and 60 colleagues 2010. A transiting giant planet with a temperature between 250K and 430K. *Nature* 464, 384-387.
89. Borucki, W. J., and 70 colleagues 2010. Kepler Planet-Detection Mission: Introduction and First Results. *Science* 327, 977.
90. Law, N. M., and 40 colleagues 2009. The Palomar Transient Factory: System Overview, Performance, and First Results. *Publications of the Astronomical Society of the Pacific* 121, 1395-1408.

91. Kane, S. R., Mahadevan, S., von Braun, K., Laughlin, G., Ciardi, D. R. 2009. Refining Exoplanet Ephemerides and Transit Observing Strategies. *Publications of the Astronomical Society of the Pacific* 121, 1386-1394.
92. Rau, A., and 23 colleagues 2009. Exploring the Optical Transient Sky with the Palomar Transient Factory. *Publications of the Astronomical Society of the Pacific* 121, 1334-1351.
93. Lawler, S. M., Beichman, C. A., Bryden, G., Ciardi, D. R., Tanner, A. M., Su, K. Y. L., Stapelfeldt, K. R., Lisse, C. M., Harker, D. E. 2009. Explorations Beyond the Snow Line: Spitzer/IRS Spectra of Debris Disks Around Solar-type Stars. *The Astrophysical Journal* 705, 89-111.
94. Solano, E., and 24 colleagues 2009. The LAEX and NASA portals for CoRoT public data. *Astronomy and Astrophysics* 506, 455-463.
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