

Institute for Astronomy
University of Hawai‘i at Mānoa
Publications in Calendar Year 2013

- Aberasturi, M., Burgasser, A. J., Mora, A., Reid, I. N., **Looper, D.**, Solano, E., & Martín, E. L. Hubble Space Telescope WFC3 Observations of L and T dwarfs. *Mem. Soc. Astron. Italiana*, 84, 939 (2013)
- Albrecht, S., Winn, J. N., Marcy, G. W., **Howard, A. W.**, Isaacson, H., & Johnson, J. A. Low Stellar Obliquities in Compact Multiplanet Systems. *ApJ*, 771, 11 (2013)
- Al-Haddad, N., et al., including **Roussev, I. I.** Magnetic Field Configuration Models and Reconstruction Methods for Interplanetary Coronal Mass Ejections. *Sol. Phys.*, 284, 129–149 (2013)
- Aller, K. M., Kraus, A. L., & Liu, M. C.** A Pan-STARRS + UKIDSS Search for Young, Wide Planetary-Mass Companions in Upper Sco. *Mem. Soc. Astron. Italiana*, 84, 1038–1040 (2013)
- Aller, K. M., Kraus, A. L., Liu, M. C., Burgett, W. S., Chambers, K. C., Hodapp, K. W., Kaiser, N., Magnier, E. A., & Price, P. A.** A Pan-STARRS + UKIDSS Search for Young, Wide Planetary-Mass Companions in Upper Scorpius. *ApJ*, 773, 63 (2013)
- Allers, K. N., & **Liu, M. C.** A Near-infrared Spectroscopic Study of Young Field Ultracool Dwarfs. *ApJ*, 772, 79 (2013)
- Arnouts, S., et al., including **Sanders, D. B.** Encoding of the Infrared Excess in the NUVrK Color Diagram for Star-Forming Galaxies. *A&A*, 558, A67 (2013)
- Atreya, S. K., et al., including **Owen, T. C.** Primordial Argon Isotope Fractionation in the Atmosphere of Mars Measured by the SAM Instrument on Curiosity and Implications for Atmospheric Loss. *Geophys. Res. Lett.*, 40, 5605–5609 (2013)
- Ballard, S., et al., including **Mann, A. W.** Exoplanet Characterization by Proxy: A Transiting $2.15 R_{\oplus}$ Planet near the Habitable Zone of the Late K Dwarf Kepler-61. *ApJ*, 773, 98 (2013)
- Baranec, C.**, Dekany, R., van Dam, M. & Burruss, R. PULSE: Palomar Ultraviolet Laser for the Study of Exoplanets In Proc. Advanced Maui Optical and Space Surveillance Technologies Conf. 2013 (2013)
- Baranec, C.**, et al. Rise of the Machines: First Year Operations of the Robo-AO Visible-Light Laser-Adaptive-Optics Instrument. In Proc. Advanced Maui Optical and Space Surveillance Technologies Conf. 2013 (2013)
- Barclay, T., et al., including **Howard, A. W.** A Sub-Mercury-Sized Exoplanet. *Nature*, 494, 452–454 (2013)
- Barnes, J. E.**, & Privon, G. C. Experiments with IDENTIKIT. In ASP Conf. Ser. 477: Galaxy Mergers in an Evolving Universe, 89–96 (2013)
- Batalha, N. M., et al., including **Howard, A. W.** Planetary Candidates Observed by Kepler. III. Analysis of the First 16 Months of Data. *ApJS*, 204, 24 (2013)
- Bauer, J. M., et al., including **Meech, K. J.** Centaurs and Scattered Disk Objects in the Thermal Infrared: Analysis of *WISE/NEOWISE* Observations. *ApJ*, 773, 22 (2013)
- Baugh, P., King, J. R., Deliyannis, C. P., & **Boesgaard, A. M.** A Spectroscopic Analysis of the Eclipsing Short-Period Binary V505 Persei and the Origin of the Lithium Dip. *PASP*, 125, 753–758 (2013)
- Beaumont, C. N.**, Offner, S. S. R., Shetty, R., Glover, S. C. O., & Goodman, A. A. Quantifying Observational Projection Effects Using Molecular Cloud Simulations. *ApJ*, 777, 173 (2013)
- Belton, M. J. S., et al., including **Meech, K. J.** The Complex Spin State of 103P/Hartley 2: Kinematics and Orientation in Space. *Icarus*, 222, 595–609 (2013)
- Bergemann, M., **Kudritzki, R. P.**, Davies, B., Plez, B., **Gazak, Z.**, & Chiavassa, A. <3D> NLTE Line Formation in the Atmospheres of Red Supergiants. In EAS Publ. Ser. 60: Betelgeuse Workshop 2012: The Physics of Red Supergiants: Recent Advances and Open Questions, 103–109 (2013)
- Bergemann, M., **Kudritzki, R.-P.**, Würfl, M., Plez, B., Davies, B., & **Gazak, Z.** Red Supergiant Stars as Cosmic Abundance Probes. II. NLTE Effects in *J*-band Silicon Lines. *ApJ*, 764, 115 (2013)
- Berger, E., et al., including **Burgett, W. S., Chambers, K. C., Flewelling, H., Huber, M. E., Magnier, E. A., Tonry, J. L.** A Search for Fast Optical Transients in the Pan-STARRS1 Medium-Deep Survey: M-Dwarf Flares, Asteroids, Limits on Extragalactic Rates, and Implications for LSST. *ApJ*, 779, 18 (2013)
- Bergonio, J. R., Rottas, K. M., & **Schorghofer, N.** Properties of Martian Slope Streak Populations. *Icarus*, 225, 194–199 (2013)
- Best, W. M. J., Liu, M. C., Magnier, E. A., Aller, K. M.**, et al., including **Burgett, W. S., Chambers, K. C., Hodapp, K. W., Kaiser, N., Kudritzki, R.-P., Morgan, J. S., Tonry, J. L., Wainscoat, R. J.** A Search for L/T Transition Dwarfs with Pan-STARRS1 and *WISE*: Discovery of Seven Nearby Objects Including Two Candidate Spectroscopic Variables. *ApJ*, 777, 84 (2013)

- Biller, B. A., **Liu, M. C.**, **Wahhaj, Z.**, **Nielsen, E. L.**, et al., including **Chun, M.**, **Ftaclas, C.** The Gemini/NICI Planet-Finding Campaign: The Frequency of Planets around Young Moving Group Stars. *ApJ*, 777, 160 (2013)
- Bish, D. L., et al., including **Owen, T.** X-ray Diffraction Results from Mars Science Laboratory: Mineralogy of Rocknest at Gale Crater. *Science*, 341, 1238932 (2013)
- Blake, D. F., et al., including **Owen, T.** Curiosity at Gale Crater, Mars: Characterization and Analysis of the Rocknest Sand Shadow. *Science*, 341, 1239505 (2013)
- Boesgaard, A. M.**, **Roper, B. W.**, & **Lum, M. G.** The Chemical Composition of Praesepe (M44). *ApJ*, 775, 58 (2013)
- Boisse, I., et al., including **Fulton, B. J.** HAT-P-42b and HAT-P-43b. Two Inflated Transiting Hot Jupiters from the HATNet Survey. *A&A*, 558, A86 (2013)
- Bonev, B. P., Villanueva, G. L., Paganini, L., DiSanti, M. A., Gibb, E. L., **Keane, J. V.**, **Meech, K. J.**, & Mumma, M. J. Evidence for Two Modes of Water Release in Comet 103P/Hartley 2: Distributions of Column Density, Rotational Temperature, and Ortho-Para Ratio. *Icarus*, 222, 740–751 (2013)
- Borucki, W. J., et al., including **Howard, A. W.** Kepler-62: A Five-Planet System with Planets of 1.4 and 1.6 Earth Radii in the Habitable Zone. *Science*, 340, 587–590 (2013)
- Bothwell, M. S., et al., including **Casey, C. M.** A Survey of Molecular Gas in Luminous Sub-millimetre Galaxies. *MNRAS*, 429, 3047–3067 (2013)
- Bowers, R. M.**, Clements, N., Emerson, J.B., Wiedinmyer, C., Hannigan, M., Fierer, N. Seasonal Variability in Bacterial and Fungal Diversity of the Near-Surface Atmosphere. *Environ. Sci. Technol.*, 47, 12097–12106 (2013)
- Bowler, B. P.**, **Liu, M. C.**, Shkolnik, E. L., & Dupuy, T. J. Planets around Low-Mass Stars. III. A Young Dusty L Dwarf Companion at the Deuterium-Burning Limit. *ApJ*, 774, 55 (2013)
- Brandt, T. D., et al., including **Hodapp, K. W.** New Techniques for High-Contrast Imaging with ADI: The ACORNS-ADI SEEDS Data Reduction Pipeline. *ApJ*, 764, 183 (2013)
- Bresolin, F.** Clues on the Rejuvenation of the S0 Galaxy NGC 404 from the Chemical Abundance of Its Outer Disk. *ApJ*, 772, L23 (2013)
- Brightman, M., et al., including **Sanders, D. B.**, **Hasinger, G.** A Statistical Relation between the X-ray Spectral Index and Eddington Ratio of Active Galactic Nuclei in Deep Surveys. *MNRAS*, 433, 2485–2496 (2013)
- Brotton, S. J.**, & **Kaiser, R. I.** In Situ Raman Spectroscopic Study of Gypsum ($\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$) and Epsomite ($\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$) dehydration Utilizing an Ultrasonic Levitator. *J. Phys. Chem. Lett.*, 4, 669–673 (2013)
- Brotton, S. J.**, & **Kaiser, R. I.** Novel High-Temperature and Pressure-Compatible Ultrasonic Levitator Apparatus Coupled to Raman and Fourier Transform Infrared Spectrometers. *Rev. Sci. Instrum.*, 84, 055114 (2013)
- Brown, T. M., et al., including **Fulton, B. J.** Las Cumbres Observatory Global Telescope Network. *PASP*, 125, 1031–1055 (2013)
- Buie, M. W., Grundy, W. M., & **Tholen, D. J.** Astrometry and Orbits of Nix, Kerberos, and Hydra. *AJ*, 146, 152 (2013)
- Burningham, B., et al., including **Mann, A. W.**, **Aller, K.**, **Liu, M.** 76 T Dwarfs from the UKIDSS LAS: Benchmarks, Kinematics and an Updated Space Density. *MNRAS*, 433, 457–497 (2013)
- Byrne, J. P.**, Long, D. M., Gallagher, P. T., Bloomfield, D. S., Maloney, S. A., McAteer, R. T. J., Morgan, H., & **Habbal, S. R.** Improved Methods for Determining the Kinematics of Coronal Mass Ejections and Coronal Waves. *A&A*, 557, A96 (2013)
- Calanog, J. A., et al., including **Casey, C. M.** HerMES: The Far-Infrared Emission from Dust-Obscured Galaxies. *ApJ*, 775, 61 (2013)
- Canalizo, G., & **Stockton, A.** Intermediate-Age Stellar Populations in Classical Quasi-stellar Object Host Galaxies. *ApJ*, 772, 132 (2013)
- Cappelluti, N., Kashlinsky, A., Arendt, R. G., Comastri, A., Fazio, G. G., Finoguenov, A., **Hasinger, G.**, et al. Cross-Correlating Cosmic Infrared and X-ray Background Fluctuations: Evidence of Significant Black Hole Populations among the CIB Sources. *ApJ*, 769, 68 (2013)
- Carley, E. P., Long, D. M., **Byrne, J. P.**, et al. Quasiperiodic Acceleration of Electrons by a Plasmoid-Driven Shock in the Solar Atmosphere. *Nature Physics*, 9, 811–816 (2013)
- Carollo, C. M., et al., including **Sanders, D.** Newly Quenched Galaxies as the Cause for the Apparent Evolution in Average Size of the Population. *ApJ*, 773, 112 (2013)
- Carron, J.** On the Assumption of Gaussianity for Cosmological Two-Point Statistics and Parameter Dependent Covariance Matrices. *A&A*, 551, A88 (2013)
- Carron, J.**, & **Szapudi, I.** Optimal Non-linear Transformations for Large-Scale Structure Statistics. *MNRAS*, 434, 2961–2970 (2013)
- Carron, J.**, & **Szapudi, I.** Statistical Ensembles of Virialized Halo Matter Density Profiles. *MNRAS*, 432, 3161–3167 (2013)
- Carson, J., et al., including **Hodapp, K.** Direct Imaging Discovery of a “Super-Jupiter” around the Late B-Type Star κ And. *ApJ*, 763, L32 (2013)
- Casey, C. M.**, **Chen, C.-C.**, **Cowie, L. L.**, **Barger, A. J.**, Capak, P., Ilbert, O., **Koss, M.**, **Lee, N.**, Le Floch, E., **Sanders, D. B.**, & **Williams, J. P.** Characterization of SCUBA-2 450 μm and 850 μm Selected Galaxies in the COSMOS Field. *MNRAS*, 436, 1919–1954 (2013)
- Castro, N., **Urbaneja, M. A.**, Evans, C., Garcia, M., Herrero, A., & **Bresolin, F.** Revisiting NGC 3109: A Systematic

- Blue Massive Stars Analysis. In *Massive Stars: From α to Ω* (poster) (2013)
- Chen, C.-C., Cowie, L. L., Barger, A. J., Casey, C. M., Lee, N., Sanders, D. B., Wang, W.-H., & Williams, J. P.** Faint Submillimeter Galaxy Counts at 450 μm . *ApJ*, 762, 81 (2013)
- Chen, C.-C., Cowie, L. L., Barger, A. J., Casey, C. M., Lee, N., Sanders, D. B., Wang, W.-H., & Williams, J. P.** Resolving the Cosmic Far-Infrared Background at 450 and 850 μm with SCUBA-2. *ApJ*, 776, 131 (2013)
- Chen, T.-W., Smartt, S. J., **Bresolin, F.**, Pastorello, A., **Kudritzki, R.-P.**, et al. The Host Galaxy of the Superluminous SN 2010gx and Limits on Explosive ^{56}Ni Production. *ApJ*, 763, L28 (2013)
- Cherubini, T., & Businger, S.** Another Look at the Refractive Index Structure Function. *J. Appl. Meteorol. Clim.*, 52, 498–506 (2013)
- Chiang, H.-F., Reipurth, B., Friberg, P., & Connelley, M.** Isolated Star Formation in the Bok Globule B62. In *Protostars and Planets VI Posters*, 37 (2013)
- Chiboucas, K., **Jacobs, B. A., Tully, R. B.,** & Karachentsev, I. D. Confirmation of Faint Dwarf Galaxies in the M81 Group. *AJ*, 146, 126 (2013)
- Childress, M. J., et al., including **Ho, I.-T.** Spectroscopic Observations of SN 2012fr: A Luminous, Normal Type Ia Supernova with Early High-Velocity Features and a Late Velocity Plateau. *ApJ*, 770, 29 (2013)
- Choi, J., McCarthy, C., Marcy, G. W., **Howard, A. W.,** Fischer, D. A., Johnson, J. A., Isaacson, H., & Wright, J. T. Precise Doppler Monitoring of Barnard’s Star. *ApJ*, 764, 131 (2013)
- Chornock, R., et al., including **Huber, M. E., Tonry, J. L., Burgett, W. S., Chambers, K. C., Hodapp, K. W., Kaiser, N., Kudritzki, R.-P., Magnier, E. A.** PS1-10afx at $z = 1.388$: Pan-STARRS1 Discovery of a New Type of Superluminous Supernova. *ApJ*, 767, 162 (2013)
- Chu, Q., **Jefferies, S. M.,** & Nagy, J. G.: Iterative Wavefront Reconstruction for Astronomical Imaging. *SIAM J. Sci. Computing*, 35(5), S84–S103 (2013)
- Cieza, L. A.,** Lacour, S., Schreiber, M. R., Casassus, S., Jordán, A., **Mathews, G. S.,** Cánovas, H., Ménard, F., **Kraus, A. L.,** et al. Sparse Aperture Masking Observations of the FL Cha Pre-transitional Disk. *ApJ*, 762, L12 (2013)
- Cieza, L. A.,** et al. The *Herschel* DIGIT Survey of Weak-Line T Tauri Stars: Implications for Disk Evolution and Dissipation. *ApJ*, 762, 100 (2013)
- Coll, P., et al., including **Owen, T.** Overview of SAM Results Obtained at Gale Crater during the 180 First Sols. In *European Planetary Science Congress 2013*, id.EPSC2013-873 (2013)
- Collins, M. L. M., et al, including **Casey, C. M.** A Kinematic Study of the Andromeda Dwarf Spheroidal System. *ApJ*, 768, 172 (2013)
- Cooke, R., Pettini, M., **Jorgenson, R. A.,** Murphy, M. T., Rudie, G. C., & Steidel, C. C. The Explosion Energy of Early Stellar Populations: The Fe-Peak Element Ratios in Low-Metallicity Damped Ly α Systems. *MNRAS*, 431, 1625–1637 (2013)
- Correia, S., Duchêne, G., **Reipurth, B.,** et al., including **Aspin, C.** Stellar and Circumstellar Properties of Visual Binaries in the Orion Nebula Cluster. *A&A*, 557, A63 (2013)
- Courtois, H. M.,** Pomarède, D., **Tully, R. B.,** Hoffman, Y., & Courtois, D. Cosmography of the Local Universe. *AJ*, 146, 69 (2013)
- Crepp, J. R., Johnson, J. A., **Howard, A. W.,** et al. The TRENDS High-Contrast Imaging Survey. II. Direct Detection of the HD 8375 Tertiary. *ApJ*, 771, 46 (2013)
- Crepp, J. R., Johnson, J. A., **Howard, A. W.,** Marcy, G. W., Gianninas, A., Kilic, M., & Wright, J. T. The TRENDS High-Contrast Imaging Survey. III. A Faint White Dwarf Companion Orbiting HD 114174. *ApJ*, 774, 1 (2013)
- Crossfield, I. J. M., Barman, T., Hansen, B. M. S., & **Howard, A. W.** Warm Ice Giant GJ 3470b. I. A Flat Transmission Spectrum Indicates a Hazy, Low-Methane, and/or Metal-Rich Atmosphere. *A&A*, 559, A33 (2013)
- Crossfield, I., Barman, T., Hansen, B., & **Howard, A.** Warm Ice Giant GJ 3470b: A Metal-Rich, Hazy, or Low-Methane Atmosphere. *Protostars and Planets VI Posters*, 11 (2013)
- Davenport, J. R. A., et al., including **Hilton, E. J.** The Very Short Period M Dwarf Binary SDSS J001641-000925. *ApJ*, 764, 62 (2013)
- Davies, B., **Kudritzki, R.-P.,** Plez, B., Bergemann, M., **Gazak, Z.,** & Evans, C. Red Supergiants as Cosmic Abundance Probes. In *EAS Publ. Ser. 60: Betelgeuse Workshop 2012: The Physics of Red Supergiants: Recent Advances and Open Questions*, 287–292 (2013)
- Davies, B., **Kudritzki, R.-P.,** Plez, B., Bergemann, M., Lançon, A., Trager, S., **Gazak, Z.,** et al. The Temperatures of Red Supergiants: How Cool Are the Coolest Massive Stars? In *EAS Publ. Ser. 60: Betelgeuse Workshop 2012: The Physics of Red Supergiants: Recent Advances and Open Questions*, 69–76 (2013)
- Davies, B., **Kudritzki, R.-P.,** Plez, B., Trager, S., Lançon, A., **Gazak, Z.,** et al. The Temperatures of Red Supergiants. *ApJ*, 767, 3 (2013)
- Del Moro, A., et al., including **Morrison, G. E.** GOODS-*Herschel*: Radio-Excess Signature of Hidden AGN Activity in Distant Star-Forming Galaxies. *A&A*, 549, A59 (2013)
- Denneau, L., Jedicke, R.,** Grav, T., Granvik, M., Kubica, J., Milani, A., **Vereš, P., Wainscoat, R., Chang, D.,** et al., including **Kaiser, N., Chambers, K. C., Heasley, J. N., Magnier, E. A., Kleyana, J., Hsieh, H., Waters, C.,**

- Sweeney, W. H., Green, D., Bolin, B., Burgett, W. S., Morgan, J. S., Tonry, J. L., Hodapp, K. W., Chastel, S., Tholen, D., Armstrong, J. D., Micheli, M. The Pan-STARRS Moving Object Processing System. *PASP*, 125, 357–395 (2013)
- Dent, W. R. F., Thi, W. F., Kamp, I., Williams, J. P., et al., including Mathews, G. GASPS—A *Herschel* Survey of Gas and Dust in Protoplanetary Disks: Summary and Initial Statistics. *PASP*, 125, 477–505 (2013)
- Díaz-Santos, T., et al., including Sanders, D. B. Explaining the [C II] 157.7 μm Deficit in Luminous Infrared Galaxies—First Results from a *Herschel*/PACS Study of the GOALS Sample. *ApJ*, 774, 68 (2013)
- Do, T., Lu, J. R., Ghez, A. M., Morris, M. R., Yelda, S., Martinez, G. D., Wright, S. A., & Matthews, K. Stellar Populations in the Central 0.5 pc of the Galaxy. I. A New Method for Constructing Luminosity Functions and Surface-Density Profiles. *ApJ*, 764, 154 (2013)
- Do, T., Martinez, G. D., Yelda, S., Ghez, A., Bullock, J., Kaplinghat, M., Lu, J. R., et al. Three-Dimensional Stellar Kinematics at the Galactic Center: Measuring the Nuclear Star Cluster Spatial Density Profile, Black Hole Mass, and Distance. *ApJ*, 779, L6 (2013)
- Dopita, M. A., Sutherland, R. S., Nicholls, D. C., Kewley, L. J., & Vogt, F. P. A New Strong-Line Abundance Diagnostics for H II Regions: Effects of κ -Distributed Electron Energies and New Atomic Data. *ApJS*, 208, 10 (2013)
- Doyle, P. M., Krot, A. N., & Nagashima, K. Oxygen Isotopes of Fayalite, Magnetite and Chondrule Olivine in the CO (Y-81020, EET 90043) and CO-Like (MAC 88107) Chondrites. *Meteorit. Planet. Sci. Suppl.*, 76, 5135 (2013)
- Dragomir, D., Matthews, J. M., Eastman, J. D., Cameron, C., Howard, A. W., et al. MOST Detects Transits of HD 97658b, a Warm, Likely Volatile-Rich Super-Earth. *ApJ*, 772, L2 (2013)
- Dunham, M. M., et al., including Cieza, L. A. The Luminosities of Protostars in the *Spitzer* c2d and Gould Belt Legacy Clouds. *AJ*, 145, 94 (2013)
- Dupuy, T. J., Allen, P. R., Kraus, A. L., et al., including Reipurth, B. Multiplicity of Cool Dwarfs. *Astron. Nachr.*, 334, 36–39 (2013)
- Ebeling, H., Edge, A. C., Burgett, W. S., Chambers, K. C., Hodapp, K. W., Huber, M. E., Kaiser, N., Price, P. A., & Tonry, J. L. X-ray Selected Galaxy Clusters in the Pan-STARRS Medium Deep Survey. *MNRAS*, 432, 62–72 (2013)
- Eggl, S., Haghhighipour, N., & Pilat-Lohinger, E. Detectability of Earth-Like Planets in Circumstellar Habitable Zones of Binary Star Systems with Sun-Like Components. *ApJ*, 764, 130 (2013)
- Eggl, S., Pilat-Lohinger, E., Funk, B., Georgakarakos, N., & Haghhighipour, N. Circumstellar Habitable Zones of Binary-Star Systems in the Solar Neighbourhood. *MNRAS*, 428, 3104–3113 (2013)
- Fallscheer, C., et al., including Williams, J. P. *Herschel* Reveals Massive Cold Clumps in NGC 7538. *ApJ*, 773, 102 (2013)
- Farihi, J., Bond, H. E., Dufour, P., Haghhighipour, N., Schaefer, G. H., Holberg, J. B., Barstow, M. A., & Burleigh, M. R. Orbital and Evolutionary Constraints on the Planet Hosting Binary GJ 86 from the *Hubble Space Telescope*. *MNRAS*, 430, 652–660 (2013)
- Farnocchia, D., Chesley, S. R., Chodas, P. W., Micheli, M., Tholen, D. J., Milani, A., Elliott, G. T., & Bernardi, F. Yarkovsky-Driven Impact Risk Analysis for Asteroid (99942) Apophis. *Icarus*, 224, 192–200 (2013)
- Fernández, Y. R., et al, including Meech, K. J. Thermal Properties, Sizes, and Size Distribution of Jupiter-Family Cometary Nuclei. *Icarus*, 226, 1138–1170 (2013)
- Fine, S., et al., including Burgett, W. S., Chambers, K. C., Kaiser, N. Stacked Reverberation Mapping. *MNRAS*, 434, L16–L20 (2013)
- Follette, K. B., et al., including Hodapp, K. Mapping *H*-Band Scattered Light Emission in the Mysterious SR21 Transitional Disk. *ApJ*, 767, 10 (2013)
- Fraser, M., et al., including Burgett, W. S., Chambers, K. C., Flewelling, H., Hodapp, K. W., Kaiser, N., Kudritzki, R.-P., Magnier, E. A., Tonry, J. L., Wainscoat, R. J., Waters, C. Detection of an Outburst One Year Prior to the Explosion of SN 2011ht. *ApJ*, 779, L8 (2013)
- Fu, H., et al., including Casey, C. M. The Rapid Assembly of an Elliptical Galaxy of 400 Billion Solar Masses at a Redshift of 2.3. *Nature*, 498, 338–341 (2013)
- Fulton, B. J., Howard, A. W., et al. The Stellar Obliquity and the Long-Period Planet in the HAT-P-17 Exoplanetary System. *ApJ*, 772, 80 (2013)
- Gaidos, E., Fischer, D. A., Mann, A. W., & Howard, A. W. An Understanding of the Shoulder of Giants: Jovian Planets around Late K Dwarf Stars and the Trend with Stellar Mass. *ApJ*, 771, 18 (2013)
- Gaidos, E., & Mann, A. W. Objects in Kepler’s Mirror May Be Larger Than They Appear: Bias and Selection Effects in Transiting Planet Surveys. *ApJ*, 762, 41 (2013)
- Garcia, M., Najarro, F., Herrero, A., Urbaneja, M. A., Lennon, D. J., & Castro, N. Winds of Very Low Metallicity OB Stars: Beyond the Magellanic Clouds. In *Massive Stars: From α to Ω* (poster) (2013)
- Garraffo, C., Cohen, O., Drake, J. J., & Downs, C. The Effect of Limited Spatial Resolution of Stellar Surface Magnetic Field Maps on Magnetohydrodynamic Wind and Coronal X-Ray Emission Models. *ApJ*, 764, 32 (2013)
- Gazak, J. Z., Bastian, N., Kudritzki, R.-P., Adamo, A., Davies, B., Plez, B., & Urbaneja, M. A. Age Dating Stellar Populations in the Near Infrared: An Absolute Age

- Indicator from the Presence/Absence of Red Supergiants. *MNRAS*, 430, L35–L39 (2013)
- Gezari, S., Martin, D. C., Forster, K., Neill, J. D., **Huber, M.**, et al., including **Burgett, W. S., Chambers, K. C., Kaiser, N., Magnier, E. A., Tonry, J. L.** The GALEX Time Domain Survey. I. Selection and Classification of Over a Thousand Ultraviolet Variable Sources. *ApJ*, 766, 60 (2013)
- Gieren, W., et al., including **Bresolin, F., Kudritzki, R.-P.** The Araucaria Project. A Distance Determination to the Local Group Spiral M33 from Near-Infrared Photometry of Cepheid Variables. *ApJ*, 773, 69 (2013)
- Gilliland, R. L., et al., including **Howard, A. W.** Kepler-68: Three Planets, One with a Density between That of Earth and Ice Giants. *ApJ*, 766, 40 (2013)
- Goldman, B., Roeser, S., Schilbach, E., Henning, T., Olczak, C., & **Magnier, E. A.** The Low-Mass Content of the Hyades Stellar Cluster. *Protostars and Planets VI Posters*, 88 (2013)
- Goldman, B., Röser, S., Schilbach, E., **Magnier, E. A.**, et al., including **Burgett, W., Hodapp, K., Heasley, J., Kudritzki, R. P., Morgan, J. S., Tonry, J. L., Wainscoat, R.** Towards a Complete Stellar Mass Function of the Hyades. I. Pan-STARRS1 Optical Observations of the Low-Mass Stellar Content. *A&A*, 559, A43 (2013)
- Goldman, B., Röser, S., Schilbach, E., **Magnier, E. A.**, Olczak, C., Henning, T., & Pan-STARRS1 Science Consortium. The Pan-STARRS1 View of the Hyades Cluster. *Mem. Soc. Astron. Italiana*, 84, 921 (2013)
- Gowanlock, M., & Gazan, R.** Assessing Researcher Interdisciplinarity: A Case Study of the University of Hawaii NASA Astrobiology Institute. *Scientometrics*, 94, 133–161 (2013)
- Grady, C. A., et al., including **Kraus, A., Hodapp, K.** Spiral Arms in the Asymmetrically Illuminated Disk of MWC 758 and Constraints on Giant Planets. *ApJ*, 762, 48 (2013)
- Granvik, M., **Jedicke, R., Bolin, B.**, Chyba, M., & Patterson, G. Earth's Temporarily-Captured Natural Satellites - The First Step towards Utilization of Asteroid Resources. In *Asteroids: Prospective Energy and Material Resources*, 151–167 (2013)
- Haan, S., et al., including **Sanders, D. B.** The Build-Up of Nuclear Stellar Cusps in Extreme Starburst Galaxies and Major Mergers. *MNRAS*, 434, 1264–1286 (2013)
- Habbal, S. R.**, Morgan, H., Druckmüller, M., Ding, A., Cooper, J. F., Daw, A., & Sittler, E. C. Probing the Fundamental Physics of the Solar Corona with Lunar Solar Occultation Observations. *Sol. Phys.*, 285, 9–24 (2013)
- Haghighipour, N.** The Formation and Dynamics of Super-Earth Planets. *Ann. Rev. Earth Planet. Sci.*, 41, 469–495 (2013)
- Haghighipour, N.**, Capen, S., & Hinse, T. C. Detection of Earth-Mass and Super-Earth Trojan Planets Using Transit Timing Variation Method. *Celest. Mech. Dyn. Astron.*, 117, 75–89 (2013)
- Haghighipour, N.**, & Kaltenegger, L. Calculating the Habitable Zone of Binary Star Systems. II. P-Type Binaries. *ApJ*, 777, 166 (2013)
- Hallis, L. J.** Alteration Assemblages in the Miller Range and Elephant Moraine Regions of Antarctica: Comparisons between Terrestrial Igneous Rocks and Martian Meteorites. *Meteorit. Planet. Sci.*, 48, 165–179 (2013)
- Hallis, L. J., Huss, G. R., Taylor, G. J.**, Nagashima, K., Halldórsson, S. A., Hilton, D. R., & Sobolev, N. The D/H Ratio of the Earth's Deep Mantle. *Meteorit. Planet. Sci. Suppl.*, 76, 5322 (2013)
- Hambly, N., Rowell, N., **Tonry, J., Magnier, E.**, & Stubbs, C. Prospects for Cool White Dwarf Science from Pan-STARRS. In *ASP Conf. Ser. 469: 18th European White Dwarf Workshop*, 253–256 (2013)
- Handler, G., Prinja, R. K., Antoci, V., & **Urbaneja, M. A.** The ZZ Leporis Stars: Wind-Variable Central Stars of Young Planetary Nebulae. In *ASP Conf. Ser. 469: 18th European White Dwarf Workshop*, 271–276 (2013)
- Handler, G., Prinja, R. K., **Urbaneja, M. A.**, Antoci, V., Twicken, J. D., & Barclay, T. *Kepler* Photometry and Optical Spectroscopy of the ZZ Lep Central Star of the Planetary Nebula NGC 6826: Rotational and Wind Variability. *MNRAS*, 430, 2923–2931 (2013)
- Harris, H. C., Dahn, C. C., **Dupuy, T. J.**, et al., including **Liu, M. C.** The Binary White Dwarf LHS 3236. *ApJ*, 779, 21 (2013)
- Hathi, N. P., et al., including **Hall, D. N. B.** Stellar Populations of Lyman Break Galaxies at $z \simeq 1-3$ in the *HST/WFC3* Early Release Science Observations. *ApJ*, 765, 88 (2013)
- Hayne, P. O., et al., including **Schorghofer, N.** New Approaches to Lunar Ice Detection and Mapping: Study Overview and Results of the First Workshop. *LPI Contributions*, 1748, 7043 (2013)
- Henry, G. W., et al., including **Howard, A. W.** Host Star Properties and Transit Exclusion for the HD 38529 Planetary System. *ApJ*, 768, 155 (2013)
- Henze, M., et al., including **Magnier, E., Chambers, K.** Supersoft X-rays Reveal a Classical Nova in the M 31 Globular Cluster Bol 126. *A&A*, 549, A120 (2013)
- Hermalyn, B.**, et al., including **Meech, K.** The Detection, Localization, and Dynamics of Large Icy Particles Surrounding Comet 103P/Hartley 2. *Icarus*, 222, 625–633 (2013)
- Hlavacek-Larrondo, J., Fabian, A. C., Edge, A. C., **Ebeling, H.**, Allen, S. W., Sanders, J. S., & Taylor, G. B. The Rapid Evolution of AGN Feedback in Brightest Cluster Galax-

- ies: Switching from Quasar-Mode to Radio-Mode Feedback. *MNRAS*, 431, 1638–1658 (2013)
- Hodapp, K.** The Launch Region of the SVS13 Outflow. Protoplastars and Planets VI Posters, 25 (2013)
- Hosek, M. W., Jr.**, Blaauw, R. C., Cooke, W. J., & Suggs, R. M. Outburst Dust Production of Comet 29P/Schwassmann-Wachmann 1. *AJ*, 145, 122 (2013)
- Howard, A. W.** Observed Properties of Extrasolar Planets. *Science*, 340, 572–576 (2013)
- Howard, A. W.** Patterns of Planet Occurrence from Doppler and Kepler. *Proc. SPIE*, 8864, 886402 (2013)
- Howard, A. W.**, et al., including **Fulton, B. J.**, **Sinukoff, E.** A Rocky Composition for an Earth-Sized Exoplanet. *Nature*, 503, 381–384 (2013)
- Howard, C. D., Sandell, G., Vacca, W. D., Duchêne, G., **Mathews, G.**, et al., including **Williams, J. P.** *Herschel*/PACS Survey of Protoplanetary Disks in Taurus/Auriga—Observations of [O I] and [C II], and Far-Infrared Continuum. *ApJ*, 776, 21 (2013)
- Hsieh, H. H.**, **Kaluna, H. M.**, Novaković, B., **Yang, B.**, **Haghighipour, N.**, **Micheli, M.**, **Denneau, L.**, Fitzsimmons, A., **Jedicke, R.**, **Kleyna, J.**, **Vereš, P.**, **Wainscoat, R. J.**, **Ansdell, M.**, **Elliott, G. T.**, **Keane, J. V.**, **Meech, K. J.**, **Moskovitz, N. A.**, **Riesen, T. E.**, **Sheppard, S. S.**, **Sonnett, S.**, **Tholen, D. J.**, **Urban, L.**, **Kaiser, N.**, **Chambers, K. C.**, **Burgett, W. S.**, **Magnier, E. A.**, **Morgan, J. S.**, & **Price, P. A.** Main-Belt Comet P/2012 T1 (PANSTARRS). *ApJ*, 771, L1 (2013)
- Hsu, L.-Y.**, **Ebeling, H.**, & **Richard, J.** The Three-Dimensional Geometry and Merger History of the Massive Galaxy Cluster MACS J0358.8-2955. *MNRAS*, 429, 833–848 (2013)
- Huber, D., et al., including **Howard, A. W.** Stellar Spin-Orbit Misalignment in a Multiplanet System. *Science*, 342, 331–334 (2013)
- Huber, D., et al., including **Howard, A. W.** Fundamental Properties of *Kepler* Planet-Candidate Host Stars Using Asteroseismology. *ApJ*, 767, 127 (2013)
- Hung, C.-L.**, **Sanders, D. B.**, **Casey, C. M.**, **Lee, N.**, **Barnes, J. E.**, et al., including **Koss, M.**, **Larson, K. L.**, **Lockhart, K.**, **Man, A. W. S.**, **Mann, A. W.** The Role of Galaxy Interaction in the SFR- M_* Relation: Characterizing Morphological Properties of *Herschel*-Selected Galaxies at $0.2 < z < 1.5$. *ApJ*, 778, 129 (2013)
- Ilbert, O., et al., including **Sanders, D. B.** Mass Assembly in Quiescent and Star-Forming Galaxies since $z \equiv 4$ from UltraVISTA. *A&A*, 556, A55 (2013)
- Inserra, C., et al., including **Bresolin, F.**, **Kudritzki, R. P.**, **Burgett, W. S.**, **Chambers, K. C.**, **Flewelling, H.**, **Hodapp, K. W.**, **Huber, M.**, **Kaiser, N.**, **Magnier, E. A.**, **Price, P. A.**, **Sweeney, W.**, **Tonry, J. L.**, **Wainscoat, R. J.**, **Waters, C.** Super-luminous Type Ic Supernovae: Catching a Magnetar by the Tail. *ApJ*, 770, 128 (2013)
- Izidoro, A., de Souza Torres, K., Winter, O. C., & **Haghighipour, N.** A Compound Model for the Origin of Earth’s Water. *ApJ*, 767, 54 (2013)
- Jacobsen, B., Matzel, J. E., **Doyle, P. M.**, Krot, A. N., Hutcheon, I. D., & **Telus, M.** New Constraints on the Timing of Fayalite Formation in Unequilibrated Ordinary Chondrites. *Meteorit. Planet. Sci. Suppl.*, 76, 5348 (2013)
- Janson, M., et al., including **Hodapp, K. W.** Direct Imaging Detection of Methane in the Atmosphere of GJ 504 b. *ApJ*, 778, L4 (2013)
- Janson, M., et al., including **Hodapp, K. W.** The SEEDS Direct Imaging Survey for Planets and Scattered Dust Emission in Debris Disk Systems. *ApJ*, 773, 73 (2013)
- Jefferies, S. M.**, **Hope, D.**, Hart, M., & **Nagy, J.** High-Resolution Imaging through Strong Atmospheric Turbulence and over Wide Fields of View. In *Proc. Advanced Maui Optical and Space Surveillance Technologies Conf. 2013*, 545–552 (2013)
- Jefferies, S. M.**, **Hope, D.**, **Hart, M.** & **Nagy, J.** Imaging through Atmospheric Turbulence Using Aperture Diversity and Blind Deconvolution. In *Proc. Computational Optical Sensing and Imaging, Computational Imaging through Turbulence and Scattering Media*, Cth1B.1 (2013)
- Jefferies, S. M.**, **Hope, D. A.**, Hart, M., & **Nagy, J. G.** High-Resolution Imaging through Strong Atmospheric Turbulence. *Proc. SPIE*, 8890, 88901C (2013)
- Jorgenson, R. A.**, **Murphy, M. T.**, & **Thompson, R.** The Magellan Uniform Survey of Damped Lyman α Systems - I. Cosmic Metallicity Evolution. *MNRAS*, 435, 482–501 (2013)
- Judge, P. G., **Habbal, S.**, & **Landi, E.** From Forbidden Coronal Lines to Meaningful Coronal Magnetic Fields. *Sol. Phys.*, 288, 467–480 (2013)
- Kaiser, N.** Measuring Gravitational Redshifts in Galaxy Clusters. *MNRAS*, 435, 1278–1286 (2013)
- Kaltenegger, L., & **Haghighipour, N.** Calculating the Habitable Zone of Binary Star Systems. I. S-Type Binaries. *ApJ*, 777, 165 (2013)
- Kashino, D., et al., including **Sanders, D. B.**, **Zahid, H. J.**, **Chu, J.**, **Hasinger, G.**, **Kewley, L. J.** The FMOS-COSMOS Survey of Star-Forming Galaxies at $z \sim 1.6$. I. $H\alpha$ -based Star Formation Rates and Dust Extinction. *ApJ*, 777, L8 (2013)
- Keenan, R. C., **Barger, A. J.**, & **Cowie, L. L.** Evidence for a ~ 300 Megaparsec Scale Under-Density in the Local Galaxy Distribution. *ApJ*, 775, 62 (2013)
- Kelley, M. S., et al., including **Meech, K. J.**, **Pittichová, J.** The Persistent Activity of Jupiter-Family Comets at 3–7 AU. *Icarus*, 225, 475–494 (2013)
- Kelley, M. S., **Lindler, D. J.**, **Bodewits, D.**, **A’Hearn, M. F.**, **Lisse, C. M.**, **Kolokolova, L.**, **Kissel, J.**, & **Hermalyn, B.**

- A Distribution of Large Particles in the Coma of Comet 103P/Hartley 2. *Icarus*, 222, 634–652 (2013)
- Kewley, L. J.**, Dopita, M. A., Leitherer, C., Davé, R., **Yuan, T.**, Allen, M., Groves, B., & Sutherland, R. Theoretical Evolution of Optical Strong Lines across Cosmic Time. *ApJ*, 774, 100 (2013)
- Kewley, L. J.**, Maier, C., Yabe, K., Ohta, K., Akiyama, M., Dopita, M. A., & Yuan, T. The Cosmic BPT Diagram: Confronting Theory with Observations. *ApJ*, 774, L10 (2013)
- Kim, D.-C., et al., including **Sanders, D. B.** *Hubble Space Telescope ACS Imaging of the GOALS Sample: Quantitative Structural Properties of Nearby Luminous Infrared Galaxies with $L_{\text{IR}} > 10^{11.4} L_{\odot}$* . *ApJ*, 768, 102 (2013)
- Kite, E., & **Howard, A.** Commentary: Let's Send the DOE to Alpha Centauri. *Physics Today*, 66, 090000 (2013)
- Kleyna, J.**, Hainaut, O. R., & **Meech, K. J.** P/2010 A2 LINEAR. II. Dynamical Dust Modelling. *A&A*, 549, A13 (2013)
- Kodric, M., et al., including **Chambers, K. C.**, **Magnier, E. A.**, **Price, P. A.**, **Burgett, W. S.**, **Hodapp, K. W.**, **Kaiser, N.**, **Kudritzki, R.-P.** Properties of M31. II. A Cepheid Disk Sample Derived from the First Year of PS1 PANdromeda Data. *AJ*, 145, 106 (2013)
- Koens, L. A., Maughan, B. J., Jones, L. R., **Ebeling, H.**, Horner, D. J., Perlman, E. S., Phillipps, S., & Scharf, C. A. The WARPS Survey - VIII. Evolution of the Galaxy Cluster X-ray Luminosity Function. *MNRAS*, 435, 3231–3242 (2013)
- Koss, M.**, Mushotzky, R., Baumgartner, W., Veilleux, S., Tueller, J., Markwardt, C., & **Casey, C. M.** Studying Faint Ultra-hard X-ray Emission from AGN in GOALS LIRGs with Swift/BAT. *ApJ*, 765, L26 (2013)
- Koulouridis, E., Plionis, M., Chávez, R., Terlevich, E., Terlevich, R., **Bresolin, F.**, & Basilakos, S. The Environment of H II Galaxies Revisited. *A&A*, 554, A13 (2013)
- Kovács, A., **Carron, J.**, & **Szapudi, I.** On the Coherence of *WMAP* and *Planck* Temperature Maps. *MNRAS*, 436, 1422–1429 (2013)
- Kovács, A., **Szapudi, I.**, & Frei, Z. Phase Statistics of the *WMAP* 7 Year Data. *Astron. Nachr.*, 334, 1020–1023 (2013)
- Kovács, A., **Szapudi, I.**, Granett, B. R., & Frei, Z. Cross-Correlation of *WMAP7* and the *WISE* Full Data Release. *MNRAS*, 431, L28–L32 (2013)
- Kramar, M., Inhester, B., **Lin, H.**, & Davila, J. Vector Tomography for the Coronal Magnetic Field. II. Hanle Effect Measurements. *ApJ*, 775, 25 (2013)
- Krot, A. N.**, **Doyle, P. M.**, Nagashima, K., Jogo, K., Wakita, S., Ciesla, F. J., & Hutcheon, I. D. Aqueous Activity on Chondrite Parent Asteroids. *LPI Contributions*, 1766, 1052 (2013)
- Krot, A. N.**, **Doyle, P. M.**, Nagashima, K., Jogo, K., Wakita, S., Ciesla, F. J., & Hutcheon, I. D. Origin of Asteroidal Water: Constraints from Isotopic Compositions of Aqueously-Formed Minerals. *Meteorit. Planet. Sci. Suppl.*, 76, 5161 (2013)
- Kudritzki, R.** Supergiant Stars as Extragalactic Probes of Cosmic Abundances and Distances. 11th Hellenic Astronomical Conference Plenary Talk (2013) (slides)
- Kudritzki, R.-P.**, Urbaneja, M. A., **Gazak, Z.**, Macri, L., **Hosek, M. W., Jr.**, **Bresolin, F.**, & Przybilla, N. A Direct Stellar Metallicity Determination in the Disk of the Maser Galaxy NGC 4258. *ApJ*, 779, L20 (2013)
- Kuhn J. R.**, Berdyugina, S. V., Halliday, D., & Harlinton, C. How to Find ET with Infrared Light. *Astronomy*, June issue, 30–35 (2013)
- Kuzmychov, O., & **Berdyugina, S. V.** Paschen-Back Effect in the CrH Molecule and Its Application for Magnetic Field Measurements on Stars, Brown Dwarfs, and Hot Exoplanets. *A&A*, 558, A120 (2013)
- Kuzmychov, O., **Berdyugina, S. V.**, **Harrington, D.**, & **Kuhn, J.** Investigating the Magnetism of Brown Dwarfs. *Mem. Soc. Astron. Italiana*, 84, 1127 (2013)
- Kuzuhara, M., et al., including **Hodapp, K. W.** Direct Imaging of a Cold Jovian Exoplanet in Orbit around the Sun-like Star GJ 504. *ApJ*, 774, 11 (2013)
- Lanzuisi, G., Civano, F., Elvis, M., Salvato, M., **Hasinger, G.**, et al. The *Chandra*-COSMOS survey - IV. X-ray Spectra of the Bright Sample. *MNRAS*, 431, 978–996 (2013)
- Lee, C.-H., et al., including **Burgett, W. S.**, **Chambers, K. C.**, **Flewelling, H.**, **Hodapp, K. W.**, **Kaiser, N.**, **Kudritzki, R.-P.**, **Tonry, J. L.**, **Wainscoat, R. J.** Properties of M31. III. Candidate Beat Cepheids from PS1 PANdromeda Data and Their Implication on Metallicity Gradient. *ApJ*, 777, 35 (2013)
- Lee, N.**, **Sanders, D. B.**, **Casey, C. M.**, Scoville, N. Z., **Hung, C.-L.**, et al. Multi-wavelength SEDs of *Herschel*-Selected Galaxies in the COSMOS Field. *ApJ*, 778, 131 (2013)
- Lépine, S., **Hilton, E. J.**, **Mann, A. W.**, Wilde, M., Rojas-Ayala, B., Cruz, K. L., & Gaidos, E. A Spectroscopic Catalog of the Brightest ($J < 9$) M Dwarfs in the Northern Sky. *AJ*, 145, 102 (2013)
- Leshin, L. A., et al., including **Owen, T.** Volatile, Isotope, and Organic Analysis of Martian Fines with the Mars Curiosity Rover. *Science*, 341, 1238937 [DOI:10.1126/science.1238937] (2013)
- Lewis, N. K., et al., including **Howard, A. W.** Orbital Phase Variations of the Eccentric Giant Planet HAT-P-2b. *ApJ*, 766, 95 (2013)
- Li, B., & **Habbal, S. R.** An Anisotropic-Alfvénic-Turbulence-Based Solar Wind Model with Proton Temperature

- Anisotropy. In ASP Conf. Ser. 474: Numerical Modeling of Space Plasma Flows (ASTRONUM2012), 153–158 (2013)
- Li, B., **Habbal, S. R.**, & Chen, Y. The Period Ratio for Standing Kink and Sausage Modes in Solar Structures with Siphon Flow. I. Magnetized Slabs. *ApJ*, 767, 169 (2013)
- Li, J.-Y., et al. **Meech, K. J.** Photometric Properties of the Nucleus of Comet 103P/Hartley 2. *Icarus*, 222, 559–570 (2013)
- Li, Y., **Bresolin, F.**, & Kennicutt, R. C., Jr. Testing for Azimuthal Abundance Gradients in M101. *ApJ*, 766, 17 (2013)
- Lindler, D. J., A’Hearn, M. F., Besse, S., Carcich, B., **Herma-lynn, B.**, & Klaasen, K. P. Interpretation of Results of Deconvolved Images from the *Deep Impact* Spacecraft High Resolution Instrument. *Icarus*, 222, 571–579 (2013)
- Liu, M. C.**, **Magnier, E. A.**, Deacon, N. R., Allers, K. N., Dupuy, T. J., **Kotson, M. C.**, **Aller, K. M.**, **Burgett, W. S.**, **Chambers, K. C.**, Draper, P. W., **Hodapp, K. W.**, **Jedicke, R.**, **Kaiser, N.**, **Kudritzki, R.-P.**, Metcalfe, N., **Morgan, J. S.**, Price, P. A., **Tonry, J. L.**, & **Wainscoat, R. J.** The Extremely Red, Young L Dwarf PSO J318.5338-22.8603: A Free-Floating Planetary-Mass Analog to Directly Imaged Young Gas-Giant Planets. *ApJ*, 777, L20 (2013)
- Lu, J. R.**, Do, T., Ghez, A. M., Morris, M. R., Yelda, S., & Matthews, K. Stellar Populations in the Central 0.5 pc of the Galaxy. II. The Initial Mass Function. *ApJ*, 764, 155 (2013)
- Lu, N., et al., including **Sanders, D.** A *Herschel* Spectroscopic Survey of Warm Molecular Gas in Local Luminous Infrared Galaxies. In ASP Conf. Ser. 477: Galaxy Mergers in an Evolving Universe, 31–35 (2013)
- Lunnan, R., et al., including **Huber, M. E.**, **Tonry, J. L.**, **Burgett, W. S.**, **Chambers, K. C.**, **Kudritzki, R.-P.**, **Magnier, E. A.** PS1-10bjz: A Fast, Hydrogen-Poor Superluminous Supernova in a Metal-Poor Host Galaxy. *ApJ*, 771, 97 (2013)
- Magakian, T. Y., Nikogossian, E. H., Movsessian, T., Moiseev, A., **Aspin, C.**, et al. V2494 Cyg: A Unique FU Ori Type Object in the Cygnus OB7 Complex. *MNRAS*, 432, 2685–2695 (2013)
- Magdis, G. E., et al., including **Morrison, G.** Mid- to Far-Infrared Properties of Star-Forming Galaxies and Active Galactic Nuclei. *A&A*, 558, A136 (2013)
- Magnier, E. A.**, Schlafly, E., Finkbeiner, D., Juric, M., **Tonry, J. L.**, **Burgett, W. S.**, **Chambers, K. C.**, **Flewelling, H. A.**, **Kaiser, N.**, **Kudritzki, R.-P.**, **Morgan, J. S.**, Price, P. A., **Sweeney, W. E.**, & Stubbs, C. W. The Pan-STARRS 1 Photometric Reference Ladder, Release 12.01. *ApJS*, 205, 20 (2013)
- Mahaffy, P. R., et al., including **Owen, T.** Abundance and Isotopic Composition of Gases in the Martian Atmosphere from the Curiosity Rover. *Science*, 341, 263–266 (2013)
- Mahdavi, A., Hoekstra, H., Babul, A., Bildfell, C., Jeltema, T., & **Henry, J. P.** Joint Analysis of Cluster Observations. II. *Chandra/XMM-Newton* X-ray and Weak Lensing Scaling Relations for a Sample of 50 Rich Clusters of Galaxies. *ApJ*, 767, 116 (2013)
- Mandell, A. M., Haynes, K., **Sinukoff, E.**, Madhusudhan, N., Burrows, A., & Deming, D. Exoplanet Transit Spectroscopy Using WFC3: WASP-12 b, WASP-17 b, and WASP-19 b. *ApJ*, 779, 128 (2013)
- Mann, A. W.**, Brewer, J. M., Gaidos, E., Lépine, S., & **Hilton, E. J.** Full Metal Bracket: A Calibration of Infrared and Optical Spectroscopic Metallicities of M Dwarfs over 1.5 dex. *Astron. Nachr.*, 334, 18–21 (2013)
- Mann, A. W.**, Brewer, J. M., Gaidos, E., Lépine, S., & **Hilton, E. J.** Prospecting in Late-Type Dwarfs: A Calibration of Infrared and Visible Spectroscopic Metallicities of Late K and M Dwarfs Spanning 1.5 dex. *AJ*, 145, 52 (2013)
- Mann, A. W.**, Gaidos, E., & **Ansdell, M.** Spectrothermometry of M Dwarfs and Their Candidate Planets: Too Hot, Too Cool, or Just Right?. *ApJ*, 779, 188 (2013)
- Mann, A. W.**, Gaidos, E., Kraus, A., & **Hilton, E. J.** Testing the Metal of Late-Type *Kepler* Planet Hosts with Iron-Clad Methods. *ApJ*, 770, 43 (2013)
- Marchis, F., et al., including **Stockton, A.** Characteristics and Large Bulk Density of the C-Type Main-Belt Triple Asteroid (93) Minerva. *Icarus*, 224, 178–191 (2013)
- Martin, N. F., et al., including **Burgett, W. S.**, **Chambers, K. C.**, **Hodapp, K. W.**, **Kaiser, N.**, **Kudritzki, R.-P.**, **Magnier, E. A.**, **Morgan, J. S.**, **Tonry, J. L.**, **Wainscoat, R. J.**, **Waters, C.** Perseus I: A Distant Satellite Dwarf Galaxy of Andromeda. *ApJ*, 779, L10 (2013)
- Martin, N. F., et al., including **Burgett, W. S.**, **Chambers, K. C.**, **Hodapp, K. W.**, **Kaiser, N.**, **Kudritzki, R.-P.**, **Magnier, E. A.**, **Morgan, J. S.**, **Tonry, J. L.**, **Wainscoat, R. J.** Lacerta I and Cassiopeia III. Two Luminous and Distant Andromeda Satellite Dwarf Galaxies Found in the 3π Pan-STARRS1 Survey. *ApJ*, 772, 15 (2013)
- Mathews, G. S., Pinte, C., Duchêne, G., **Williams, J. P.**, & Ménard, F. A *Herschel* PACS survey of the Dust and Gas in Upper Scorpius Disks. *A&A*, 558, A66 (2013)
- Matsuoka, K., et al., including **Sanders, D. B.**, **Hasinger, G.** A Comparative Analysis of Virial Black Hole Mass Estimates of Moderate-Luminosity Active Galactic Nuclei Using Subaru/FMOS. *ApJ*, 771, 64 (2013)
- McConnell, N. J.** Black Hole Safari: Tracking Populations and Hunting Big Game. In Proc. Frank N. Bash Symp. 2013: New Horizons in Astronomy (2013)
- McConnell, N. J.**, Chen, S.-F. S., Ma, C.-P., Greene, J. E., Lauer, T. R., & Gebhardt, K. The Effect of Spatial Gradients in Stellar Mass-to-Light Ratio on Black Hole Mass Measurements. *ApJ*, 768, L21 (2013)

- McConnell, N. J.**, & Ma, C.-P. Revisiting the Scaling Relations of Black Hole Masses and Host Galaxy Properties. *ApJ*, 764, 184 (2013)
- McCullagh, N., Neyrinck, M. C., **Szapudi, I.**, & Szalay, A. S. Removing Baryon-Acoustic-Oscillation Peak Shifts with Local Density Transforms. *ApJ*, 763, L14 (2013)
- Meech, K. J.**, **Kleyna, J.**, et al. The Demise of Comet 85P/Boethin, the First EPOXI Mission Target. *Icarus*, 222, 662–678 (2013)
- Meech, K. J.**, **Yang, B.**, **Kleyna, J.**, **Ansdell, M.**, **Chiang, H.-F.**, et al., including **Riesen, T.**, **Keane, J. V.**, **Reipurth, B.**, **Hsieh, H. H.**, **Denneau, L.**, **Jedicke, R.**, **Magnier, E.**, **Wainscoat, R.** Outgassing Behavior of C/2012 S1 (ISON) from 2011 September to 2013 June. *ApJ*, 776, L20 (2013)
- Meijerink, R., et al., including **Sanders, D. B.** Evidence for CO Shock Excitation in NGC 6240 from *Herschel* SPIRE Spectroscopy. *ApJ*, 762, L16 (2013)
- Meslin, P.-Y., et al., including **Owen, T.** Soil Diversity and Hydration as Observed by ChemCam at Gale Crater, Mars. *Science*, 341, 1238670 [DOI:10.1126/science.1238670] (2013)
- Metcalfe, N., et al., including **Burgett, W. S.**, **Chambers, K. C.**, **Denneau, L.**, **Flewelling, H.**, **Kaiser, N.**, **Kudritzki, R.**, **Magnier, E. A.**, **Morgan, J. S.**, **Sweeney, W.**, **Tonry, J. L.**, **Wainscoat, R. J.**, **Waters, C.** The PANSTARRS1 Small Area Survey 2. *MNRAS*, 435, 1825–1839 (2013)
- Micheli, M.**, **Tholen, D. J.**, & **Elliott, G. T.** 2012 LA, an Optimal Astrometric Target for Radiation Pressure Detection. *Icarus*, 226, 251–255 (2013)
- Miller, B., King, J. R., Chen, Y., & **Boesgaard, A. M.** Nitrogen Abundances and the Distance Moduli of the Pleiades and Hyades. *PASP*, 125, 1297–1303 (2013)
- Mohanty, S., et al., including **Looper, D.** Protoplanetary Disk Masses from Stars to Brown Dwarfs. *ApJ*, 773, 168 (2013)
- Morata, O., Kuan, Y.-J., Ho, P. T. P., Huang, H.-C., **Magnier, E. A.**, & Zhao-Geisler, R. Millimetric and Submillimetric Observations of IRAS 05327+3404 “Holoëa” in M36. *AJ*, 146, 49 (2013)
- Moresco, M., et al., including **Le Floc’h, E.** Spot the Difference. Impact of Different Selection Criteria on Observed Properties of Passive Galaxies in zCOSMOS-20k Sample. *A&A*, 558, A61 (2013)
- Morgan, H.**, Jeska, L., & Leonard, D. The Expansion of Active Regions into the Extended Solar Corona. *ApJS*, 206, 19 (2013)
- Moskovitz, N. A., et al., including **Bus, S. J.** Rotational Characterization of Hayabusa II Target Asteroid (162173) 1999 JU3. *Icarus*, 224, 24–31 (2013)
- Muirhead, P. S., et al., including **Howard, A. W.** Characterizing the Cool KOIs. V. KOI-256: A Mutually Eclipsing Post-Common Envelope Binary. *ApJ*, 767, 111 (2013)
- Newman, J. A., et al., including **Kaiser, N.**, **Luppino, G. A.** The DEEP2 Galaxy Redshift Survey: Design, Observations, Data Reduction, and Redshifts. *ApJS*, 208, 5 (2013)
- Nicholl, M., et al., including **Bresolin, F.**, **Kudritzki, R. P.**, **Tonry, J. L.**, **Huber, M. E.**, **W. M.**, **Burgett, W. S.**, **Chambers, K.**, **Flewelling, H. A.**, **Magnier, E. A.**, **Kaiser, N.**, **Morgan, J.**, **Sweeney, W.**, **Waters, C.** Slowly Fading Super-luminous Supernovae That Are Not Pair-Instability Explosions. *Nature*, 502, 346–349 (2013)
- Nielsen, E. L.**, **Liu, M. C.**, **Wahhaj, Z.**, et al., including **Chun, M.**, **Ftaclas, C.** The Gemini NICI Planet-Finding Campaign: The Frequency of Giant Planets around Young B and A Stars. *ApJ*, 776, 4 (2013)
- O’Rourke, L., et al., including **Hsieh, H.**, **Micheli, M.** Determination of an Upper Limit for the Water Outgassing Rate of Main-Belt Comet P/2012 T1 (PANSTARRS). *ApJ*, 774, L13 (2013)
- O’Rourke, L., et al., including **Hsieh, H.**, **Micheli, M.** *Herschel*/HIFI Determination of an Upper Limit for the Water Outgassing Rate of Active Main-Belt Comet P/2012 T1 (PANSTARRS). In European Planetary Science Congress 2013, id.EPSC2013-1033 (2013)
- Oshagh, M., Boisse, I., Boué, G., Montalto, M., Santos, N. C., Bonfils, X., & **Haghighipour, N.** SOAP-T: A Tool to Study the Light Curve and Radial Velocity of a System with a Transiting Planet and a Rotating Spotted Star. *A&A*, 549, A35 (2013)
- Oshagh, M., Boué, G., Figueira, P., Santos, N. C., & **Haghighipour, N.** Probing the Effect of Gravitational Microlensing on the Measurements of the Rossiter-McLaughlin Effect. *A&A*, 558, A65 (2013)
- Oshagh, M., Santos, N. C., Boisse, I., Boué, G., Montalto, M., Dumusque, X., & **Haghighipour, N.** Effect of Stellar Spots on High-Precision Transit Light-Curve. *A&A*, 556, A19 (2013)
- Palate, M., Koenigsberger, G., **Harrington, D.**, Rauw, G., & Moreno, E. Spectral Modelling with Interaction Effect of the Binary System Spica. In Massive Stars: From α to Ω (poster) (2013)
- Palate, M., Koenigsberger, G., Rauw, G., **Harrington, D.**, & Moreno, E. Spectral Modelling of the α Virginis (Spica) Binary System. *A&A*, 556, A49 (2013)
- Park, H., et al., including **Huber, M.** Gravitational Binary-Lens Events with Prominent Effects of Lens Orbital Motion. *ApJ*, 778, 134 (2013)
- Parker, A. H., et al., including **Tholen, D. J.** 2011 HM₁₀₂: Discovery of a High-Inclination L5 Neptune Trojan in the Search for a Post-Pluto New Horizons Target. *AJ*, 145, 96 (2013)
- Peebles, P. J. E., & **Tully, R. B.** A Primeval Magellanic Stream and Others. *ApJ*, 778, 137 (2013)

- Pepper, J., et al., including **Fulton, B. J.** KELT-3b: A Hot Jupiter Transiting a $V = 9.8$ Late-F Star. *ApJ*, 773, 64 (2013)
- Person, M. J., et al., including **Best, W., Tholen, D. J., Micheli, M.** The 2011 June 23 Stellar Occultation by Pluto: Airborne and Ground Observations. *AJ*, 146, 83 (2013)
- Petigura, E. A., Howard, A. W.,** & Marcy, G. W. Prevalence of Earth-Size Planets Orbiting Sun-Like Stars. *Proc. National Academy of Science*, 110, 19273–19278 (2013)
- Petigura, E. A., Marcy, G. W., & **Howard, A. W.** A Plateau in the Planet Population below Twice the Size of Earth. *ApJ*, 770, 69 (2013)
- Phifer, K., Do, T., Meyer, L., Ghez, A. M., Witzel, G., Yelda, S., Boehle, A., **Lu, J. R.,** et al. Keck Observations of the Galactic Center Source G2: Gas Cloud or Star? *ApJ*, 773, L13 (2013)
- Pietrzyński, G., Gieren, W., Graczyk, D., Thompson, I., Pilecki, B., Nardetto, N., **Kudritzki, R.-P., Bresolin, F.,** et al. A Precise and Accurate Distance to the Large Magellanic Cloud from Late-Type Eclipsing-Binary Systems. In *IAU Symp. 289: Advancing the Physics of Cosmic Distances*, 169–172 (2013)
- Pietrzyński, G., et al., including **Bresolin, F., Kudritzki, R. P.** An Eclipsing-Binary Distance to the Large Magellanic Cloud Accurate to Two Per Cent. *Nature*, 495, 76–79 (2013)
- Podio, L., Kamp, I., Codella, C., Cabrit, S., Nisini, B., Dougados, C., Sandell, G., **Williams, J. P.,** et al. Water Vapor in the Protoplanetary Disk of DG Tau. *ApJ*, 766, L5 (2013)
- Podio, L., Kamp, I., Codella, C., Cabrit, S., Nisini, B., Dougados, C., Sandell, G., **Williams, J. P.,** et al. Water Vapor in the Protoplanetary Disk of DG Tau. *Protostars and Planets VI Posters*, 28 (2013)
- Pomarède, D., Courtois, H., & **Tully, R. B.** Visualization of Structures and Cosmic Flows in the Local Universe. In *IAU Symp. 289: Advancing the Physics of Cosmic Distances*, 323–326 (2013)
- Privon, G. C., **Barnes, J. E.,** Evans, A. S., Hibbard, J. E., Yun, M. S., Mazzarella, J. M., Armus, L., & Surace, J. Dynamical Modeling of Galaxy Mergers Using Identikit. *ApJ*, 771, 120 (2013)
- Purcell, C. R., et al., including **Pandian, J. D.** The Coordinated Radio and Infrared Survey for High-Mass Star Formation. II. Source Catalog. *ApJS*, 205, 1 (2013)
- Quintana, E. V., et al., including **Fulton, B. J.** Confirmation of Hot Jupiter Kepler-41b via Phase Curve Analysis. *ApJ*, 767, 137 (2013)
- Radigan, J., Jayawardhana, R., Lafrenière, D., Dupuy, T. J., **Liu, M. C.,** & Scholz, A. Discovery of a Visual T-Dwarf Triple System and Binarity at the L/T Transition. *ApJ*, 778, 36 (2013)
- Reipurth, B.** George Herbig (1920–2013). *Nature*, 503, 470 (2013)
- Reipurth, B.,** Bally, J., **Aspin, C., Connelley, M. S.,** Geballe, T. R., Kraus, S., Appenzeller, I., & Burgasser, A. HH 222: A Giant Herbig-Haro Flow from the Quadruple System V380 Ori. *AJ*, 146, 118 (2013)
- Ricarte, A., Moldvai, N., Hughes, A. M., Duchêne, G., **Williams, J. P.,** Andrews, S. M., & Wilner, D. J. Resolving the Moth at Millimeter Wavelengths. *ApJ*, 774, 80 (2013)
- Rich, J. A., Kewley, L. J.,** & Dopita, M. A. WiFeS and GOALS: An IFS Study Of Shocks and More in Nearby U/LIRGS. In *ASP Conf. Ser. 477: Galaxy Mergers in an Evolving Universe*, 231–234 (2013)
- Riviere-Marichalar, P., et al., including **Williams, J. P.** Gas and Dust in the TW Hydrae Association as Seen by the *Herschel Space Observatory*. *A&A*, 555, A67 (2013)
- Rojas-Ayala, B., **Hilton, E. J., Mann, A. W.,** et al. M Dwarf Stars in the Light of (Future) Exoplanet Searches. *Astron. Nachr.*, 334, 155–158 (2013)
- Rothberg, B., Fischer, J., Rodrigues, M., & **Sanders, D. B.** Unveiling the σ -Discrepancy. II. Revisiting the Evolution of ULIRGs and the Origin of Quasars. *ApJ*, 767, 72 (2013)
- Rumbaugh, N., Kocevski, D. D., **Gal, R. R.,** Lemaux, B. C., Lubin, L. M., Fassnacht, C. D., & Squires, G. K. The X-ray-Optical Relations for Nine Clusters at $z = 0.7$ – 1.1 from the ORELSE Survey. *ApJ*, 763, 124 (2013)
- Sanchis-Ojeda, R., Winn, J. N., Marcy, G. W., **Howard, A. W.,** et al. Kepler-63b: A Giant Planet in a Polar Orbit around a Young Sun-Like Star. *ApJ*, 775, 54 (2013)
- Sanders, N. E., et al., including **Tonry, J. L., Burgett, W. S., Chambers, K. C., Hodapp, K. W., Kudritzki, R. P.** PS1-12sk Is a Peculiar Supernova from a He-Rich Progenitor System in a Brightest Cluster Galaxy Environment. *ApJ*, 769, 39 (2013)
- Schad, T. A., Penn, M. J., & **Lin, H.** He I Vector Magnetometry of Field-Aligned Superpenumbral Fibrils. *ApJ*, 768, 111 (2013)
- Scharwächter, J., McGregor, P. J., **Dopita, M. A.,** & Beck, T. L. Kinematics and Excitation of the Molecular Hydrogen Accretion Disc in NGC 1275. *MNRAS*, 429, 2315–2332 (2013)
- Schwamb, M. E., Orosz, J. A., Carter, J. A., Welsh, W. F., Fischer, D. A., Torres, G., **Howard, A. W.,** et al. Planet Hunters: A Transiting Circumbinary Planet in a Quadruple Star System. *ApJ*, 768, 127 (2013)
- Scoville, N., et al., including **Sanders, D. B.** Evolution of Galaxies and Their Environments at $z = 0.1$ – 3 in COSMOS. *ApJS*, 206, 3 (2013)
- Shaya, E. J., & **Tully, R. B.** The Formation of Local Group Planes of Galaxies. *MNRAS*, 436, 2096–2119 (2013)

- Sherstyuk, A.,** & Kiyokawa, K. Navigation Maps for Virtual Travelers. In International Conference on Cyberworlds (CW'13), 64–70 (2013)
- Sherstyuk, A.,** Kiyokawa, K., & Yano, Y. 3D Collision Detection with 2D Terrain Maps. In International Conference on Cyberworlds (CW'13), 83 (2013)
- Shih, H.-Y., Stockton, A., & Kewley, L.** Ionized Outflows from Compact Steep Spectrum Sources. *ApJ*, 772, 138 (2013)
- Siemion, A. P. V., Demorest, P., Korpela, E., Maddalena, R. J., Werthimer, D., Cobb, J., **Howard, A. W.**, et al. A 1.1–1.9 GHz SETI Survey of the *Kepler* Field. I. A Search for Narrow-Band Emission from Select Targets. *ApJ*, 767, 94 (2013)
- Sinukoff, E., & Howard, A.** The Occurrence Rate of Hot Jupiters in the *Kepler* Field. Protostars and Planets VI Posters, 44 (2013)
- Sinukoff, E., Fulton, B., Scuderi, L., & Gaidos, E.** Below One Earth: The Detection, Formation, and Properties of Subterrestrial Worlds. *Space Sci. Rev.*, 180, 71–99 (2013)
- Sitarski, B. N., Morris, M. R., **Lu, J. R.**, Duchêne, G., Stolte, A., Becklin, E. E., Ghez, A. M., & Zinnecker, H. Keck Adaptive Optics Observations of the Protostellar Disk around Radio Source I in the Orion Kleinmann-Low Nebula. *ApJ*, 770, 134 (2013)
- Slater, C. T., et al., including **Burgett, W. S., Chambers, K. C., Kaiser, N., Magnier, E. A., Tonry, J. L.** A Pan-STARRS1 View of the Bifurcated Sagittarius Stream. *ApJ*, 762, 6 (2013)
- Snodgrass, C., Tubiana, C., Bramich, D. M., **Meech, K.**, Boehnhardt, H., & Barrera, L. Beginning of Activity in 67P/Churyumov-Gerasimenko and Predictions for 2014–2015. *A&A*, 557, A33 (2013)
- Sokolov, I. V., van der Holst, B., Oran, R., Downs, C., **Roussev, I. I.**, et al. Magnetohydrodynamic Waves and Coronal Heating: Unifying Empirical and MHD Turbulence Models. *ApJ*, 764, 23 (2013)
- Sonnett, S., Meech, K., Jedicke, R., Bus, S., Tonry, J., & Hainaut, O.** Testing Accuracy and Precision of Existing Photometry Algorithms on Moving Targets. *PASP*, 125, 456–469 (2013)
- Sorce, J. G., Courtois, H. M., Sheth, K., & **Tully, R. B.** Bimodality of Galaxy Disc Central Surface Brightness Distribution in the *Spitzer* 3.6 μm band. *MNRAS*, 433, 751–758 (2013)
- Sorce, J. G., **Courtois, H. M., Tully, R. B.**, et al. Calibration of the Mid-Infrared Tully-Fisher Relation. *ApJ*, 765, 94 (2013)
- Stasińska, G., Morisset, C., Simón-Díaz, S., **Bresolin, F.**, Schaerer, D., & Brandl, B. No Temperature Fluctuations in the Giant H II Region H 1013. *A&A*, 551, A82 (2013)
- Stasińska, G., Peña, M., **Bresolin, F.**, & Tsamis, Y. G. Planetary Nebulae and H II Regions in the Spiral Galaxy NGC 300. Clues on the Evolution of Abundance Gradients and on AGB Nucleosynthesis. *A&A*, 552, A12 (2013)
- Stephenson, J. D., & Freeland, S. J.** Unearthing the Root of Amino Acid Similarity. *J. Mol. Evol.*, 77, 159–169 (2013)
- Stephenson, J. D., Hallis, L. J., Nagashima, K., & Freeland, S. J.** Boron Enrichment in Martian Clay. *PLoS ONE*, 8, 64624 (2013)
- Stierwalt, S., et al, including **Sanders, D. B., Kewley, L. J., Rich, J. A., U, V.** Mid-Infrared Properties of Nearby Luminous Infrared Galaxies. I. *Spitzer* Infrared Spectrograph Spectra for the GOALS Sample. *ApJS*, 206, 1 (2013)
- Stolper, E. M., et al., including **Owen, T.** The Petrochemistry of Jake.M: A Martian Mugarite. *Science*, 341, 1239463 (2013)
- Sun, W.-H., Xu, C. K., Scoville, N. Z., & **Sanders, D. B.**, eds. Galaxy Mergers in an Evolving Universe. *ASP Conf. Ser.* 477. xi, 311 pp. (2013)
- Symeonidis, M., Kartaltepe, J., Salvato, M., Bongiorno, A., Brusa, M., Page, M. J., Ilbert, O., **Sanders, D.**, & van der Wel, A. AGN in Dusty Hosts: Implications for Galaxy Evolution. *MNRAS*, 433, 1015–1022 (2013)
- Szegedi-Elek, E., Kun, M., **Reipurth, B.**, Pál, A., Balázs, L. G., & **Willman, M.** A New H α Emission-line Survey in the Orion Nebula Cluster. *ApJS*, 208, 28 (2013)
- Takami, M., et al., including **Hodapp, K. W.** High-Contrast Near-Infrared Imaging Polarimetry of the Protoplanetary Disk around RY Tau. *ApJ*, 772, 145 (2013)
- Tan, Q., et al., including **Morrison, G.** A Deep Search for Molecular Gas in Two Massive Lyman Break Galaxies at $z = 3$ and 4: Vanishing CO-Emission Due to Low Metallicity? *ApJ*, 776, L24 (2013)
- Tan, X., Payne, M. J., Lee, M. H., Ford, E. B., **Howard, A. W.**, Johnson, J. A., Marcy, G. W., & Wright, J. T. Characterizing the Orbital and Dynamical State of the HD 82943 Planetary System with Keck Radial Velocity Data. *ApJ*, 777, 101 (2013)
- Terziev, E., et al., including **Kraus, A. L.** Millions of Multiples: Detecting and Characterizing Close-Separation Binary Systems in Synoptic Sky Surveys. *ApJS*, 206, 18 (2013)
- Thalmann, C., et al., including **Hodapp, K. W.** Imaging Discovery of the Debris Disk around HIP 79977. *ApJ*, 763, L29 (2013)
- Tholen, D. J., Micheli, M., & Elliott, G. T.** Improved Astrometry of (99942) Apophis. *Acta Astronautica*, 90, 56–71 (2013)
- Tholen, D. J., Micheli, M., & Elliott, G. T.** The Effect of Proper Motion on Pan-STARRS Asteroid Astrometry. *Icarus*, 223, 625–627 (2013)

- Thomas, P., et al., including **Meech, K.** The Nucleus of Comet 9P/Tempel 1: Shape and Geology from Two Flybys. *Icarus*, 222, 453–466 (2013)
- Thomas, P. C., et al., including **Meech, K.** Shape, Density, and Geology of the Nucleus of Comet 103P/Hartley 2. *Icarus*, 222, 550–558 (2013)
- Tobin, J., Looney, L., Wilner, D., Hartmann, L., Calvet, N., **Chiang, H.-F.**, et al. Observing and Characterizing Disks (and Binaries) around the Youngest Protostars. Protostars and Planets VI Posters, 92 (2013)
- Tobin, J. J., Bergin, E. A., Hartmann, L., Lee, J.-E., Maret, S., Myers, P. C., Looney, L. W., **Chiang, H.-F.**, & Friesen, R. Resolved Depletion Zones and Spatial Differentiation of N_2H^+ and N_2D^+ . *ApJ*, 765, 18 (2013)
- Tobin, J. J., Chandler, C. J., Wilner, D. J., Looney, L. W., Loinard, L., **Chiang, H.-F.**, et al. VLA and CARMA Observations of Protostars in the Cepheus Clouds: Subarcsecond Proto-binaries Formed via Disk Fragmentation. *ApJ*, 779, 93 (2013)
- Tobin, J. J., Hartmann, L., **Chiang, H.-F.**, Wilner, D. J., Looney, L. W., Loinard, L., Calvet, N., & D’Alessio, P. Modeling the Resolved Disk around the Class 0 Protostar L1527. *ApJ*, 771, 48 (2013)
- Tokunaga, A. T.**, Vacca, W. D., & Young, E. T. Infrared Astronomy Fundamentals. In Planets, Stars and Stellar Systems. Volume 2: Astronomical Techniques, Software and Data, ed. T. D. Oswalt, & H. E. Bond, 99–174 (2013)
- Tonry, J. L.** Pan-STARRS, ATLAS and Optical Transient Searches. Royal Society of London Philosophical Transactions Series A, 371, 20269 (2013)
- Torrey, P., Cox, T. J., **Kewley, L.**, & Hernquist, L. The Metallicity Evolution of Interacting Galaxies. In ASP Conf. Ser. 477: Galaxy Mergers in an Evolving Universe, 237–240 (2013)
- Tozzi, G. P., et al., including **Meech, K.** Activity of Comet 103P/Hartley 2 at the Time of the *EPOXI* Mission Fly-By. *Icarus*, 222, 766–773 (2013)
- Tremblin, P., et al., including **Williams, J.** Pillars and Globules at the Edges of H II Regions. Confronting *Herschel* Observations and Numerical Simulations. *A&A*, 560, A19 (2013)
- Tully, R. B.** Astronomy: Andromeda’s Extended Disk of Dwarfs. *Nature*, 493, 31–32 (2013)
- Tully, R. B.**, Courtois, H. M., Dolphin, A. E., Fisher, J. R., Héraudeau, P., **Jacobs, B. A.**, et al., including **Wu, P.-F.** Cosmicflows-2: The Data. *AJ*, 146, 86 (2013)
- U, V., Medling, A., **Sanders, D.**, & Max, C. Keck IFU Observations of Mrk 273. In ASP Conf. Ser. 477: Galaxy Mergers in an Evolving Universe, 69–72 (2013)
- U, V., Medling, A., **Sanders, D.**, et al., including **Kewley, L.** The Inner Kiloparsec of Mrk 273 with Keck Adaptive Optics. *ApJ*, 775, 115 (2013)
- Veverka, J., et al., including **Meech, K.** Return to Comet Tempel 1: Overview of Stardust-NExT Results. *Icarus*, 222, 424–435 (2013)
- Viero, M. P., et al., including **Casey, C. M.** HerMES: The Contribution to the Cosmic Infrared Background from Galaxies Selected by Mass and Redshift. *ApJ*, 779, 32 (2013)
- Viero, M. P., et al., including **Casey, C. M.** HerMES: Cosmic Infrared Background Anisotropies and the Clustering of Dusty Star-forming Galaxies. *ApJ*, 772, 77 (2013)
- Villanueva, G. L., et al., including **Tokunaga, A.**, **Khayat, A.** A Sensitive Search for Organics (CH_4 , CH_3OH , H_2CO , C_2H_6 , C_2H_2 , C_2H_4), Hydroperoxyl (HO_2), Nitrogen Compounds (N_2O , NH_3 , HCN) and Chlorine Species (HCl , CH_3Cl) on Mars Using Ground-Based High-Resolution Infrared Spectroscopy. *Icarus*, 223, 11–27 (2013)
- Vornanen, T., **Berdyugina, S. V.**, & Berdyugin, A. Spectropolarimetric Observations of Cool DQ White Dwarfs. *A&A*, 557, A38 (2013)
- Vorontsov, S. V., & **Jefferies, S. M.** Modeling Solar Oscillation Power Spectra. II. Parametric Model of Spectral Lines Observed in Doppler-Velocity Measurements. *ApJ*, 778, 75 (2013)
- Wahhaj, Z., **Liu, M. C.**, Biller, B. A., **Nielsen, E. L.**, et al., including **Chun, M.**, **Ftaclas, C.** The Gemini NICI Planet-Finding Campaign: The Companion Detection Pipeline. *ApJ*, 779, 80 (2013)
- Wahhaj, Z., **Liu, M. C.**, **Nielsen, E. L.**, et al., including **Ftaclas, C.**, **Chun, M.** The Gemini Planet-Finding Campaign: The Frequency of Giant Planets around Debris Disk Stars. *ApJ*, 773, 179 (2013)
- Walawender, J., **Reipurth, B.**, & Bally, J. Optical and Near-Infrared Shocks in the L988 Cloud Complex. *AJ*, 146, 66 (2013)
- Wang, W.-H., **Barger, A. J.**, **Cowie, L. L.**, **Chen, C.-C.**, **Williams, J. P.**, & Owen, F. N. Radio and Submillimeter Continuum Observations of High-Redshift Galaxies. In IAU Symp. 292: Molecular Gas, Dust, and Star Formation in Galaxies, 175–180 (2013)
- Wardlow, J. L., et al., including **Casey, C. M.** HerMES: Candidate Gravitationally Lensed Galaxies and Lensing Statistics at Submillimeter Wavelengths. *ApJ*, 762, 59 (2013)
- Waters, C. Z.**, & Hollek, J. K. ROBOSPECT: Automated Equivalent Width Measurement. *PASP*, 125, 1164–1178 (2013)
- Webster, C. R., et al., including **Owen, T.** Isotope Ratios of H, C, and O in CO_2 and H_2O of the Martian Atmosphere. *Science*, 341, 260–263 (2013)
- Weiss, L. M., Marcy, G. W., Rowe, J. F., **Howard, A. W.**, et al. The Mass of KOI-94d and a Relation for Planet Radius, Mass, and Incident Flux. *ApJ*, 768, 14 (2013)

- Williams, J. P., Cieza, L. A.,** Andrews, S. M., Coulson, I. M., Barger, A. J., Casey, C. M., Chen, C.-C., Cowie, L. L., Koss, M., Lee, N., & Sanders, D. B. A SCUBA-2 850- μm Survey of Protoplanetary Disks in the σ Orionis Cluster. *MNRAS*, 435, 1671–1679 (2013)
- Williams, R. M. E., et al., including **Owen, T.** Martian Fluvial Conglomerates at Gale Crater. *Science*, 340, 1068–1072 (2013)
- Wolk, S., Rice, T., & **Aspin, C.** NIR Variable YSOs in Cygnus OB7 and the ONC. *Protostars and Planets VI Posters*, 32 (2013)
- Wolk, S. J., Rice, T. S., & **Aspin, C.** Near-Infrared Variability among Young Stellar Objects in the Star Formation Region Cygnus OB7. *ApJ*, 773, 145 (2013)
- Wolk, S. J., Rice, T. S., & **Aspin, C. A.** Near-Infrared Periodic and Other Variable Field Stars in the Field of the Cygnus OB7 Star-Forming Region. *AJ*, 145, 113 (2013)
- Wong, M. H., et al., including **Owen, T. C.** Isotopes of Nitrogen on Mars: Atmospheric Measurements by Curiosity’s Mass Spectrometer. *Geophys. Res. Lett.*, 40, 6033–6037 (2013)
- Wood, K., **Barnes, J. E.,** Ercolano, B., Haffner, L. M., Reynolds, R. J., & Dale, J. Three-Dimensional Geometries and the Analysis of H II Regions. *ApJ*, 770, 152 (2013)
- Yamamoto, K., et al., including **Hodapp, K.** Direct Imaging Search for Extrasolar Planets in the Pleiades. *PASJ*, 65, 90 (2013)
- Yang, B.,** Lucey, P., & Glotch, T. Are Large Trojan Asteroids Salty? An Observational, Theoretical, and Experimental Study. *Icarus*, 223, 359–366 (2013)
- Yasui, C., Naoto, K., **Tokunaga, A.,** & Saito, M. The Lifetime of Protoplanetary Disks Surrounding Intermediate-Mass Stars. *Protostars and Planets VI Posters*, 60 (2013)
- Yuan, T.-T., Kewley, L. J.,** & Rich, J. Systematics in Metallicity Gradient Measurements. I. Angular Resolution, Signal to Noise, and Annular Binning. *ApJ*, 767, 106 (2013)
- Yuan, T.-T., Kewley, L. J.,** & Richard, J. The Metallicity Evolution of Star-Forming Galaxies from Redshift 0 to 3: Combining Magnitude-Limited Survey with Gravitational Lensing. *ApJ*, 763, 9 (2013)
- Zahid, H. J.,** Geller, M. J., **Kewley, L. J.,** Hwang, H. S., Fabricant, D. G., & Kurtz, M. J. The Chemical Evolution of Star-Forming Galaxies over the Last 11 Billion Years. *ApJ*, 771, L19 (2013)
- Zahid, H. J.,** Torrey, P., **Kudritzki, R. P.,** Kewley, L. J., Davé, R., & Geller, M. J. The Slow Flow Model of Dust Efflux in Local Star-Forming Galaxies. *MNRAS*, 436, 1852–1866 (2013)
- Zahid, H. J.,** Yates, R. M., **Kewley, L. J.,** & **Kudritzki, R. P.** The Observed Relation between Stellar Mass, Dust Extinction, and Star Formation Rate in Local Galaxies. *ApJ*, 763, 92 (2013)
- Zhao, Y., et al., including **Sanders, D. B.** A *Herschel* Survey of the [N II] 205 μm Line in Local Luminous Infrared Galaxies: The [N II] 205 μm Emission as a Star Formation Rate Indicator. *ApJ*, 765, L13 (2013)