

Institute for Astronomy
University of Hawai‘i at Mānoa
Publications in Calendar Year 2012

- A'Hearn, M. F., et al., including **Meech, K. J.** Cometary Volatiles and the Origin of Comets. *ApJ*, 758, 29 (2012)
- Abe, S., Fujita, K., Borovička, J., Spurný, P., **Tholen, D.**, Ohtsuka, K., & Yoshikawa, M. Spectroscopy and Trajectory of the *Hayabusa* Spacecraft Reentry as an Artificial Earth Impactor. In *LPI Contributions 1667: Proc. Asteroids, Comets, Meteors 2012*, 6318 (2012)
- Alaghband-Zadeh, S., Chapman, S. C., Swinbank, A. M., Smail, I., Harrison, C. M., Alexander, D. M., **Casey, C. M.**, et al. Integral Field Spectroscopy of $2.0 < z < 2.7$ Submillimetre Galaxies: Gas Morphologies and Kinematics. *MNRAS*, 424, 2232–2248 (2012)
- Allevato, V., Finoguenov, A., **Hasinger, G.**, et al. Occupation of X-Ray-selected Galaxy Groups by X-Ray Active Galactic Nuclei. *ApJ*, 758, 47 (2012)
- Andrews, S. M., et al., including **Cieza, L. A., Williams, J. P.** The TW Hya Disk at $870 \mu\text{m}$: Comparison of CO and Dust Radial Structures. *ApJ*, 744, 162 (2012)
- Anglada-Escudé, G., et al., including **Haghighipour, N.** A Planetary System around the Nearby M Dwarf GJ 667C with at Least One Super-Earth in Its Habitable Zone. *ApJ*, 751, L16 (2012)
- Archinal, B. A., et al., including **Tholen, D. J.** Divisions I and III / Working Group: Cartographic Coordinates and Rotational Elements. In *Trans. IAU, Ser. A*, 28, 52–55 (2012)
- Atrio-Barandela, F., Kashlinsky, A., **Ebeling, H.**, & Kocevski, D. Large Scale Flows: Implications for Inflation. In *Proc. Twelfth Marcel Grossmann Meeting on General Relativity*, 2179–2181 (2012)
- Atrio-Barandela, F., Kashlinsky, A., **Ebeling, H.**, Kocevski, D., & Edge, A. Large Scale Peculiar Velocities from Clusters of Galaxies: Is The Universe Tilted? In *AIP Conf. Ser.* 1458: Towards New Paradigms, 9–22 (2012)
- Avilés, J. L., Avila, R., Butterley, T., Wilson, R., **Chun, M.**, Carrasco, E., Farah, A., & Cuevas, S. Self-Adjusting Data Acquisition System for Low Layer SCIDAR. *MNRAS*, 423, 900–908 (2012)
- Bally, J., **Walawender, J.**, & **Reipurth, B.** Deep Imaging Surveys of Star-Forming Clouds. V. New Herbig-Haro Shocks and Giant Outflows in Taurus. *AJ*, 144, 143 (2012)
- Barger, A. J.**, **Cowie, L. L.**, & Wold, I. G. B. A Flux-limited Sample of $z \sim 1$ Ly α Emitting Galaxies in the *Chandra* Deep Field South. *ApJ*, 749, 106 (2012)
- Barger, A. J.**, Wang, W.-H., **Cowie, L. L.**, Owen, F. N., **Chen, C.-C.**, & **Williams, J. P.** Precise Identifications of Submillimeter Galaxies: Measuring the History of Massive Star-Forming Galaxies to $z > 5$. *ApJ*, 761, 89 (2012)
- Barnes, J. E.** Gravitational Softening as a Smoothing Operation. *MNRAS*, 425, 1104–1120 (2012)
- Bauer, J. M., et al., including **Meech, K. J.** WISE/NEOWISE Comets: Preliminary Physical Properties of Nuclei and Gas Emission. In *LPI Contributions 1667: Proc. Asteroids, Comets, Meteors 2012*, 6112 (2012)
- Bauer, J. M., et al., including **Meech, K. J.**, **Tholen, D. J.** WISE/NEOWISE Preliminary Analysis and Highlights of the 67p/Churyumov-Gerasimenko near Nucleus Environs. *ApJ*, 758, 18 (2012)
- Bauer, J. M., et al., including **Meech, K. J.**, **Tholen, D. J.**, **Riesen, T.**, **Urban, L.**, **Khayat, A.** WISE/NEOWISE Observations of Active Bodies in the Main Belt. *ApJ*, 747, 49 (2012)
- Beaumont, C. N.**, Goodman, A. A., Alves, J. F., Lombardi, M., Román-Zúñiga, C. G., Kauffmann, J., & Lada, C. J. A Simple Perspective on the Mass-Area Relationship in Molecular Clouds. *MNRAS*, 423, 2579–2586 (2012)
- Beck, T. L., & **Aspin, C.** The Nature and Evolutionary State of the FU Orionis Binary System. *AJ*, 143, 55 (2012)
- Belton, M. J. S., et al., including **Meech, K. J.** The Complex Spin State of 103P/Hartley 2 and Its Evolution around the Time of the DIXI Encounter. In *LPI Contributions 1667: Proc. Asteroids, Comets, Meteors 2012*, 6174 (2012)
- Bergemann, M., **Kudritzki, R.-P.**, Plez, B., Davies, B., Lind, K., & **Gazak, Z.** Red Supergiant Stars as Cosmic Abundance Probes: NLTE Effects in *J*-band Iron and Titanium Lines. *ApJ*, 751, 156 (2012)
- Berger, E., et al., including **Huber, M. E.**, **Burgett, W. S.**, **Hodapp, K. W.**, **Heasley, J. N.**, **Kaiser, N.**, **Kudritzki, R.-P.**, **Magnier, E. A.**, **Tonry, J. L.**, & **Wainscoat, R. J.** Ultraluminous Supernovae as a New Probe of the Interstellar Medium in Distant Galaxies. *ApJ*, 755, L29 (2012)
- Béthermin, M., et al., including **Casey, C. M.** HerMES: Deep Number Counts at $250 \mu\text{m}$, $350 \mu\text{m}$ and $500 \mu\text{m}$ in the COSMOS and GOODS-N Fields and the Build-Up of the Cosmic Infrared Background. *A&A*, 542, A58 (2012)
- Bielby, R., et al., including **Sanders, D. B.** The WIRCam Deep Survey. I. Counts, Colours, and Mass-functions Derived from Near-Infrared Imaging in the CFHTLS Deep Fields. *A&A*, 545, A23 (2012)

- Binzel, R. P., et al., including **Tokunaga, A., Bus, S. J.** Compositional Distribution of the Near-Earth Object Population. In LPI Contributions 1667: Proc. Asteroids, Comets, Meteors 2012, 6433 (2012)
- Blank, R., Beletic, J. W., Cooper, D., Farris, M., **Hall, D. N. B., Hodapp, K., Luppino, G.**, et al. Development and Production of the H4RG-15 Focal Plane Array. Proc. SPIE, 8453, 84530V (2012)
- Bodewits, D., et al., including **Meech, K. J.** Gas and Dust in the Coma around Hartley-2. In LPI Contributions 1667: Proc. Asteroids, Comets, Meteors 2012, 6081 (2012)
- Bolin, B., Jedicke, R.**, Granvik, M., & **Wainscoat, R.** Detecting Earth's Moons. In LPI Contributions 1667: Proc. Asteroids, Comets, Meteors 2012, 6359 (2012)
- Bonafede, A., Brügger, M., van Weeren, R., Vazza, F., Giovannini, G., **Ebeling, H.**, et al. Discovery of Radio Haloes and Double Relics in Distant MACS Galaxy Clusters: Clues to the Efficiency of Particle Acceleration. MNRAS, 426, 40–56 (2012)
- Bonev, B. P., Gibb, E. L., Villanueva, G. L., DiSanti, M. A., Paganini, L., **Keane, J., Meech, K.**, & Mumma, M. J. Near-Infrared Searches for Deuterated Species in Comets. In LPI Contributions 1667: Proc. Asteroids, Comets, Meteors 2012, 6307 (2012)
- Bowler, B. P., Liu, M. C.**, Shkolnik, E. L., Dupuy, T. J., **Cieza, L. A., Kraus, A. L.**, & Tamura, M. Planets around Low-Mass Stars (PALMS). I. A Substellar Companion to the Young M Dwarf 1RXS J235133.3+312720. ApJ, 753, 142 (2012)
- Bowler, B. P., Liu, M. C.**, Shkolnik, E. L., & Tamura, M. Planets around Low-Mass Stars (PALMS). II. A Low-Mass Companion to the Young M Dwarf GJ 3629 Separated by $0''.2$. ApJ, 756, 69 (2012)
- Bresolin, F.**, Kennicutt, R. C., & Ryan-Weber, E. Gas Metallicities in the Extended Disks of NGC 1512 and NGC 3621. Chemical Signatures of Metal Mixing or Enriched Gas Accretion? ApJ, 750, 122 (2012)
- Bryan, M. L.**, Chapman, G., **Hall, D. N. B.**, Jack, M. D., **Jacobson, S. M.**, & Wehner, J. Investigation of Linear-mode Photon-Counting HgCdTe APDs for Astronomical Observations. Proc. SPIE, 8453, 84532F (2012)
- Buie, M. W., Spencer, J. R., Parker, A. H., Stern, S. A., Holman, M. J., **Tholen, D. J.**, et al. Searching for KBO Flyby Targets for the New Horizons Mission. In LPI Contributions 1667: Proc. Asteroids, Comets, Meteors 2012, 6430 (2012)
- Buie, M. W., **Tholen, D. J.**, & Grundy, W. M. The Orbit of Charon is Circular. AJ, 144, 15 (2012)
- Buie, M. W., **Tholen, D. J.**, & Grundy, W. M. Two-Body Orbits for the Satellites of Pluto. In LPI Contributions 1667: Proc. Asteroids, Comets, Meteors 2012, 6249 (2012)
- Burgett, W. S.** PS2: Managing the Next Step in the Pan-STARRS Wide Field Survey System. Proc. SPIE, 8449, 84490T (2012)
- Bus, S. J.** Possible R-Type Asteroid Family in the Outer Main Belt. In LPI Contributions 1667: Proc. Asteroids, Comets, Meteors 2012, 6490 (2012)
- Byrne, J. P., Morgan, H., Habbal, S. R.**, & Gallagher, P. T. Automatic Detection and Tracking of Coronal Mass Ejections. II. Multiscale Filtering of Coronagraph Images. ApJ, 752, 145 (2012)
- Cao, W., Goode, P. R., Ahn, K., Gorceix, N., Schmidt, W., & **Lin, H.** NIRIS: The Second Generation Near-Infrared Imaging Spectro-polarimeter for the 1.6 Meter New Solar Telescope. In ASP Conf. Ser. 463: Second ATST-EAST Meeting: Magnetic Fields from the Photosphere to the Corona, 291–299 (2012)
- Carswell, R. F., Becker, G. D., **Jorgenson, R. A.**, Murphy, M. T., & Wolfe, A. M. The Kinetic Temperature in a Damped Lyman α Absorption System in Q2206-199 - An Example of the Warm Neutral Medium. MNRAS, 422, 1700–1708 (2012)
- Casey, C. M.** Far-Infrared Spectral Energy Distribution Fitting for Galaxies Near and Far. MNRAS, 425, 3094–3103 (2012)
- Casey, C. M.**, et al. A Redshift Survey of *Herschel* Far-Infrared Selected Starbursts and Implications for Obscured Star Formation. ApJ, 761, 140 (2012)
- Casey, C. M.**, et al. A Population of $z > 2$ Far-Infrared *Herschel*-SPIRE-selected Starbursts. ApJ, 761, 139 (2012)
- Castro, N., **Urbaneja, M. A.**, et al., including **Bresolin, F., Kudritzki, R.-P.** The ARAUCARIA Project: Grid-based Quantitative Spectroscopic Study of Massive Blue Stars in NGC 55. A&A, 542, A79 (2012)
- Cauley, P. W., Johns-Krull, C. M., Hamilton, C. M., & **Lockhart, K.** Testing Disk-locking in NGC 2264. ApJ, 756, 68 (2012)
- Chaudhary, P., Brusa, M., **Hasinger, G.**, Merloni, A., Comastri, A., & Nandra, K. Rest-Frame Stacking of 2XMM Catalog Sources. Properties of the Fe $K\alpha$ Line. A&A, 537, A6 (2012)
- Chávez, R., Terlevich, E., Terlevich, R., Plionis, M., **Bresolin, F.**, Basilakos, S., & Melnick, J. Determining the Hubble Constant Using Giant Extragalactic H II Regions and H II Galaxies. MNRAS, 425, L56–L60 (2012)
- Chen, C.-C., Williams, J. P., & Pandian, J. D.** H II Regions, Embedded Protostars, and Starless Cores in Sharpless 2-157. ApJ, 752, 102 (2012)
- Chiang, H.-F.**, Looney, L. W., & Tobin, J. J. The Envelope and Embedded Disk around the Class 0 Protostar L1157-mm: Dual-wavelength Interferometric Observations and Modeling. ApJ, 756, 168 (2012)
- Chitta, L. P., Jain, R., Kariyappa, R., & **Jefferies, S. M.** Observations of the Interaction of Acoustic Waves and

- Small-Scale Magnetic Fields in a Quiet Sun. *ApJ*, 744, 98 (2012)
- Christensen, L., et al., including **Ebeling, H.** The low-mass end of the fundamental relation for gravitationally lensed star-forming galaxies at $1 < z < 6$. *MNRAS*, 427, 1953–1972 (2012)
- Christensen, L., Laursen, P., Richard, J., Hjorth, J., Milvang-Jensen, B., Dessauges-Zavadsky, M., Limousin, M., Grillo, C., & **Ebeling, H.** Gravitationally Lensed Galaxies at $2 < z < 3.5$: Direct Abundance Measurements of Ly α Emitters. *MNRAS*, 427, 1973–1982 (2012)
- Chun, M.**, et al. ‘Imaka: Working towards Very Wide-Field of View AO. *Proc. SPIE*, 8447, 84471G (2012)
- Ciardullo, R., et al., including **Treister, E.** The Evolution of Ly α -Emitting Galaxies between $z = 2.1$ and $z = 3.1$. *ApJ*, 744, 110 (2012)
- Cieza, L. A., Mathews, G. S., Williams, J. P., Ménard, F. C., Kraus, A. L.**, et al. Submillimeter Array Observations of the RX J1633.9-2442 Transition Disk: Evidence for Multiple Planets in the Making. *ApJ*, 752, 75 (2012)
- Cieza, L. A., Schreiber, M. R., Romero, G. A., Williams, J. P., Rebassa-Mansergas, A., & Merín, B.** The Nature of Transition Circumstellar Disks. III. Perseus, Taurus, and Auriga. *ApJ*, 750, 157 (2012)
- Clarkson, W. I., Ghez, A. M., Morris, M. R., **Lu, J. R.**, Stolte, A., McCrady, N., Do, T., & Yelda, S. Proper Motions of the Arches Cluster with Keck Laser Guide Star Adaptive Optics: The First Kinematic Mass Measurement of the Arches. *ApJ*, 751, 132 (2012)
- Combes, F., et al., including **Casey, C. M.** A Bright $z = 5.2$ Lensed Submillimeter Galaxy in the Field of Abell 773. *HLSJ091828.6+514223. A&A*, 538, L4 (2012)
- Courtois, H. M., Hoffman, Y., Tully, R. B., & Gottlőber, S.** Three-Dimensional Velocity and Density Reconstructions of the Local Universe with Cosmicflows-1. *ApJ*, 744, 43 (2012)
- Courtois, H. M., & Tully, R. B.** Cosmic Flows Surveys and CLUES Simulations. *Astron. Nachr.*, 333, 436 (2012)
- Courtois, H. M., & Tully, R. B.** Cosmicflows-2: Type Ia Supernova Calibration and H_0 . *ApJ*, 749, 174 (2012)
- Cowen, J. P., Copson, D., Jolly, J., Hsieh, C.-C., Lin, H.-T., Glazer, B. T., & Wheat, G.** Advanced Instrument System for Real-Time and Time-Series Microbial Geochemical Sampling of the Deep (Basaltic) Crustal Biosphere. *Deep Sea Research I*, 61, 43–56 (2012)
- Cowie, L. L., Barger, A. J., & Hasinger, G.** The Faintest X-Ray Sources from $z = 0$ to 8. *ApJ*, 748, 50 (2012)
- Crepp, J. R., Johnson, J. A., **Howard, A. W.**, et al. The TRENDS High-Contrast Imaging Survey. I. Three Benchmark M Dwarfs Orbiting Solar-type Stars. *ApJ*, 761, 39 (2012)
- Currie, T., et al., including **Kraus, A.** Keck/NIRC2 Imaging of the Warped, Asymmetric Debris Disk around HD 32297. *ApJ*, 757, 28 (2012)
- Cutri, R. M., et al., including **Tholen, D.** Explanatory Supplement to the WISE All-Sky Data Release Products. (2012)
- Dahm, S. E., **Herbig, G. H., & Bowler, B. P.** The Young Cluster in IC 1274. *AJ*, 143, 3 (2012)
- Davenport, J. R. A., Becker, A. C., Kowalski, A. F., Hawley, S. L., Schmidt, S. J., **Hilton, E. J.**, Sesar, B., & Cutri, R. Multi-wavelength Characterization of Stellar Flares on Low-mass Stars Using SDSS and 2MASS Time-Domain Surveys. *ApJ*, 748, 58 (2012)
- Davies, B., Clark, J. S., Trombly, C., Figer, D. F., Najarro, F., Crowther, P. A., **Kudritzki, R.-P.**, et al. The G305 Star-Forming Complex: The Central Star Clusters Danks 1 and Danks 2. *MNRAS*, 419, 1871–1886 (2012)
- Davies, J. A., Harrison, R. A., Perry, C. H., Mőstl, C., **Lugaz, N.**, et al. A Self-Similar Expansion Model for Use in Solar Wind Transient Propagation Studies. *ApJ*, 750, 23 (2012)
- Dawson, R. I., Johnson, J. A., Morton, T. D., Crepp, J. R., Fabrycky, D. C., Murray-Clay, R. A., & **Howard, A. W.** The Photoeccentric Effect and Proto-hot Jupiters. II. KOI-1474.01, a Candidate Eccentric Planet Perturbed by an Unseen Companion. *ApJ*, 761, 163 (2012)
- Deacon, N. R., Liu, M. C., Magnier, E. A., Bowler, B. P., Mann, A. W., Redstone, J. A., Burgett, W. S., Chambers, K. C., Hodapp, K. W., Kaiser, N., Kudritzki, R.-P., Morgan, J. S., Price, P. A., Tonry, J. L., & Wainscoat, R. J.** LHS 2803B: A Very Wide Mid-T Dwarf Companion to an Old M Dwarf Identified from Pan-STARRS1. *ApJ*, 757, 100 (2012)
- Deacon, N. R., Liu, M. C., Magnier, E. A., Bowler, B. P., Redstone, J., Goldman, B., Burgett, W. S., Chambers, K. C., Flewelling, H., Kaiser, N., Morgan, J. S., Price, P. A., Sweeney, W. E., Tonry, J. L., Wainscoat, R. J., & Waters, C.** HIP 38939B: A New Benchmark T Dwarf in the Galactic Plane Discovered with Pan-STARRS1. *ApJ*, 755, 94 (2012)
- de Martino, I., Atrio-Barandela, F., da Silva, A., **Ebeling, H.**, Kashlinsky, A., Kocevski, D., & Martins, C. J. A. P. Measuring the Redshift Dependence of the Cosmic Microwave Background Monopole Temperature with Planck Data. *ApJ*, 757, 144 (2012)
- DiSanti, M. A., Bonev, B. P., Villanueva, G. L., Paganini, L., Mumma, M. J., Charnley, S. B., **Keane, J. V., Meech, K. J.**, et al. The Composition of Comet C/2009 P1 (Garradd) from Infrared Spectroscopy: Evidence for an Oxygen-Rich Heritage? In *LPI Contributions 1667: Proc. Asteroids, Comets, Meteors 2012*, 6407 (2012)
- Dittmann, J. A., Close, L. M., **Scuderi, L. J.**, Turner, J., & Stephenson, P. C. A Revised Orbital Ephemeris for HAT-P-9b. *New Astron.*, 17, 438–441 (2012)

- Do, T., Ghez, A., **Lu, J. R.**, et al. Measuring the stellar luminosity function and spatial density profile of the inner 0.5 pc of the Milky Way nuclear star cluster. In *J. Phys. Conf. Ser. 372: Astronomy at High Angular Resolution 2011: The Central Kiloparsec in Galactic Nuclei*, 012016 (2012)
- Donaldson, J. K., Roberge, A., Chen, C. H., Augereau, J.-C., Dent, W. R. F., Eiroa, C., Krivov, A. V., **Mathews, G. S.**, et al. *Herschel* PACS Observations and Modeling of Debris Disks in the Tucana-Horologium Association. *ApJ*, 753, 147 (2012)
- Dong, R., et al., including **Hodapp, K. W.** The Missing Cavities in the SEEDS Polarized Scattered Light Images of Transitional Protoplanetary Disks: A Generic Disk Model. *ApJ*, 750, 161 (2012)
- Dong, R., et al., including **Hodapp, K. W.** The Structure of Pre-transitional Protoplanetary Disks. I. Radiative Transfer Modeling of the Disk+Cavity in the PDS 70 System. *ApJ*, 760, 111 (2012)
- Donley, J. L., et al., including **Sanders, D. B.** Identifying Luminous Active Galactic Nuclei in Deep Surveys: Revised IRAC Selection Criteria. *ApJ*, 748, 142 (2012)
- Dopita, M. A.**, Marconi, M., Clementini, G., & Brocato, E. The Fundamental Cosmic Distance Scale: State of the Art and the Gaia Perspective. *Ap&SS*, 341, 1–2 (2012)
- Downs, C., Roussev, I. I.**, van der Holst, B., **Lugaz, N.**, & Sokolov, I. V. Understanding SDO/AIA Observations of the 2010 June 13 EUV Wave Event: Direct Insight from a Global Thermodynamic MHD Simulation. *ApJ*, 750, 134 (2012)
- Dupuy, T. J., & Liu, M. C.** The Hawaii Infrared Parallax Program. I. Ultracool Binaries and the L/T Transition. *ApJS*, 201, 19 (2012)
- Elvis, M., et al., including **Hasinger, G.** Spectral Energy Distributions of Type 1 Active Galactic Nuclei in the COSMOS Survey. I. The *XMM*-COSMOS Sample. *ApJ*, 759, 6 (2012)
- Emilio, M., **Kuhn, J. R.**, Bush, R. I., & **Scholl, I. F.** Measuring the Solar Radius from Space during the 2003 and 2006 Mercury Transits. *ApJ*, 750, 135 (2012)
- Ennis, C., & **Kaiser, R. I.** On the Formation of Ozone in Solar System Oxygen Ices Exposed to Heavy Ions. *ApJ*, 745, 103 (2012)
- Evans, T. M., Ireland, M. J., Kraus, A. L., et al. Mapping the Shores of the Brown Dwarf Desert. III. Young Moving Groups. *ApJ*, 744, 120 (2012)
- Farage, C. L., McGregor, P. J., & **Dopita, M. A.** Feedback in the Cores of Clusters A3581, 2A 0335+096, and Sersic 159-03. *ApJ*, 747, 28 (2012)
- Fernandez, Y. R., et al., including **Meech, K. J.** Characterization of the Nucleus, Coma, and Outbursts of Comet 29P/Schwassmann-Wachmann 1. In *LPI Contributions 1667: Proc. Asteroids, Comets, Meteors 2012*, 6378 (2012)
- Ferrarese, L., et al., including **Tully, R. B.** The Next Generation Virgo Cluster Survey (NGVS). I. Introduction to the Survey. *ApJS*, 200, 4 (2012)
- Fine, S., et al., including **Burgett, W. S., Magnier, E. A.** Composite Reverberation Mapping. *MNRAS*, 427, 2701–2710 (2012)
- Fischer, D. A., et al., including **Mann, A.** M2K. II. A Triple-Planet System Orbiting HIP 57274. *ApJ*, 745, 21 (2012)
- Fitzgerald, M. P., et al., including **Lu, J. R.** Modeling anisoplanatism in the Keck II Laser Guide Star AO System. *Proc. SPIE*, 8447, 844724 (2012)
- Foley, R. J., et al., including **Stockton, A.** Very Early Ultraviolet and Optical Observations of the Type Ia Supernova 2009ig. *ApJ*, 744, 38 (2012)
- Fotopoulou, S., et al., including **Hasinger, G., Henry, J. P.** Photometry and Photometric Redshift Catalogs for the Lockman Hole Deep Field. *ApJS*, 198, 1 (2012)
- Fu, H., Yan, L., Myers, A. D., **Stockton, A.**, Djorgovski, S. G., Aldering, G., & Rich, J. A. The Nature of Double-peaked [O III] Active Galactic Nuclei. *ApJ*, 745, 67 (2012)
- Gaidos, E., Fischer, D. A., **Mann, A. W.**, & Lépine, S. On the Nature of Small Planets around the Coolest *Kepler* Stars. *ApJ*, 746, 36 (2012)
- Gazak, J. Z.**, Johnson, J. A., **Tonry, J.**, Dragomir, D., Eastman, J., **Mann, A. W.**, & Agol, E. Transit Analysis Package: An IDL Graphical User Interface for Exoplanet Transit Photometry. In *Adv. Astron. 2012: 697967* (2012)
- Geisler, D., Villanova, S., Carraro, G., Pilachowski, C., Cummings, J., Johnson, C. I., & **Bresolin, F.** The Unique Na:O Abundance Distribution in NGC 6791: The First Open(?) Cluster with Multiple Populations. *ApJ*, 756, L40 (2012)
- Genet, R. M., et al., including **Armstrong, J. D.** Observing Double Stars. In *Soc. Astron. Sci. Ann. 31st Ann. Symp. on Telescope Science*, 147–157 (2012)
- Gerlach, E., & **Haghighipour, N.** Can GJ 876 Host Four Planets in Resonance? *Celestial Mechanics and Dynamical Astron.*, 113, 35–47 (2012)
- Gezari, S., Chornock, R., Rest, A., **Huber, M. E.**, et al., including **Tonry, J. L., Burgett, W. S., Chambers, K. C., Heasley, J. N., Kaiser, N., Kudritzki, R.-P., Magnier, E. A., Morgan, J. S.** An Ultraviolet-Optical Flare from the Tidal Disruption of a Helium-Rich Stellar Core. *Nature*, 485, 217–220 (2012)
- Ghez, A. M., Morris, M. R., Do, T., Yelda, S., **Lu, J. R.**, & Matthews, K. Bringing our Galaxy’s Central Supermassive Black Hole and Its Environs into Focus with Laser Guide Star Adaptive Optics. In *Proc. Twelfth Marcel Grossmann Meeting on General Relativity*, 420–433 (2012)

- Gizis, J. E., Faherty, J. K., **Liu, M. C.**, Castro, P. J., Shaw, J. D., Vrba, F. J., Harris, H. C., **Aller, K. M.**, & **Deacon, N. R.** Discovery of an Unusually Red L-type Brown Dwarf. *AJ*, 144, 94 (2012)
- Gonçalves, D. R., Magrini, L., Martins, L. P., **Teodorescu, A. M.**, & Quireza, C. Deep Spectroscopy of the Emission-Line Populations in NGC 185. *MNRAS*, 419, 854–865 (2012)
- Gonçalves, D. R., Magrini, L., Martins, L. P., **Teodorescu, A. M.**, Quireza, C., & Lanfranchi, G. Deep Spectroscopy of the Dwarf Spheroidal NGC 185. In *IAU Symp. 283: Planetary Nebulae: An Eye to the Future*, 370–371 (2012)
- Gonçalves, D. R., **Teodorescu, A. M.**, Alves-Brito, A., **Méndez, R. H.**, & Magrini, L. A Kinematic Study of Planetary Nebulae in the Dwarf Irregular Galaxy IC10. *MNRAS*, 425, 2557–2566 (2012)
- Gonçalves, D. R., **Teodorescu, A. M.**, Alves-Brito, A., **Méndez, R. H.**, & Magrini, L. Planetary Nebulae as Tracers of the Kinematic Structure of the Starburst Galaxy IC 10. In *IAU Symp. 283: Planetary Nebulae: An Eye to the Future*, 368–369 (2012)
- Goto, T.**, **Szapudi, I.**, & **Granett, B. R.** Cross-correlation of WISE Galaxies with the Cosmic Microwave Background. *MNRAS*, 422, L77 (2012)
- Goto, T.**, Utsumi, Y., Walsh, J. R., Hattori, T., Miyazaki, S., & Yamauchi, C. Spectroscopy of the Spatially Extended Ly α Emission around a Quasar at $z = 6.4$. *MNRAS*, 421, L77–L81 (2012)
- Goździewski, K., et al., including **Haghighipour, N.** On the HU Aquarii Planetary System Hypothesis. *MNRAS*, 425, 930–949 (2012)
- Graczyk, D., et al., including **Kudritzki, R.-P.**, **Bresolin, F.** The Araucaria Project: An Accurate Distance to the Late-Type Double-lined Eclipsing Binary OGLE SMC113.3 4007 in the Small Magellanic Cloud. *ApJ*, 750, 144 (2012)
- Granvik, M.**, Vaubaillon, J., & **Jedicke, R.** The Population of Natural Earth Satellites. *Icarus*, 218, 262–277 (2012)
- Haghighipour, N.**, Butler, R. P., Rivera, E. J., Henry, G. W., & Vogt, S. S. The Lick-Carnegie Survey: A New Two-Planet System around the Star HD 207832. *ApJ*, 756, 91 (2012)
- Haghighipour, N.**, & **Hsieh, H. H.** Dynamics of Main Belt Comets: Implications for Their Origin and Formation Mechanism. In *LPI Contributions 1667: Proc. Asteroids, Comets, Meteors 2012*, 6420 (2012)
- Haghighipour, N.**, & Scott, E. R. D. On the Effect of Giant Planets on the Scattering of Parent Bodies of Iron Meteorite from the Terrestrial Planet Region into the Asteroid Belt: A Concept Study. *ApJ*, 749, 113 (2012)
- Hainaut, O. R., Boehnhardt, H., Buie, M., **Hsieh, H.**, **Kleyna, J.**, Licandro, J., Lowry, S., **Meech, K. J.**, et al. Activity Processes Fuelling the Main Belt Comets Characterized via a “Large Program” at ESO. In *European Planetary Science Congress 2012*, 853 (2012)
- Hainaut, O. R., Boehnhardt, H., Buie, M., **Hsieh, H.**, **Kleyna, J.**, Licandro, J., Lowry, S., **Meech, K. J.**, et al. Main Belt Comets: Status Report of the Monitoring Large Programme at ESO. In *LPI Contributions 1667: Proc. Asteroids, Comets, Meteors 2012*, 6144 (2012)
- Hainaut, O. R., et al., including **Meech, K. J.** Grains around Comet 103P/Hartley 2 at the Time of the EPOXI Fly-By. In *LPI Contributions 1667: Proc. Asteroids, Comets, Meteors 2012*, 6242 (2012)
- Hainaut, O. R., **Kleyna, J.**, **Sarid, G.**, Hermalyn, B., **Zenn, A.**, **Meech, K. J.**, Schultz, P. H., **Hsieh, H.**, Tranco, G., **Pittichová, J.**, & **Yang, B.** P/2010 A2 LINEAR. I. An Impact in the Asteroid Main Belt. *A&A*, 537, A69 (2012)
- Hall, D. N. B., et al., including **Hodapp, K. W.**, **Luppino, G.** Performance of the First HAWAII 4RG-15 Arrays in the Laboratory and at the Telescope. *Proc. SPIE*, 8453, 84530W (2012)
- Hallis, L. J.**, **Taylor, G. J.**, Nagashima, K., & **Huss, G. R.** Magmatic Water in the Martian Meteorite Nakhla. *Earth Planetary Sci. Lett.*, 359, 84–92 (2012)
- Hanami, H., et al., including **Goto, T.** Star Formation and AGN Activity in Galaxies Classified Using the 1.6 μ m Bump and PAH Features at $z = 0.4$ –2. *PASJ*, 64, 70 (2012)
- Harris, R. J., Andrews, S. M., Wilner, D. J., & **Kraus, A. L.** A Resolved Census of Millimeter Emission from Taurus Multiple Star Systems. *ApJ*, 751, 115 (2012)
- Harvey, P. M., Henning, T., Liu, Y., Ménard, F., Pinte, C., Wolf, S., **Cieza, L. A.**, Evans, N. J., II, & Pascucci, I. A *Herschel* Survey of Cold Dust in Disks around Brown Dwarfs and Low-Mass Stars. *ApJ*, 755, 67 (2012)
- Harvey, P. M., Henning, T., Ménard, F., Wolf, S., Liu, Y., **Cieza, L. A.**, Evans, N. J., Pascucci, I., Merín, B., & Pinte, C. A *Herschel* Search for Cold Dust in Brown Dwarf Disks: First Results. *ApJ*, 744, L1 (2012)
- Hashimoto, J., et al., including **Hodapp, K.** Polarimetric Imaging of Large Cavity Structures in the Pre-transitional Protoplanetary Disk around PDS 70: Observations of the Disk. *ApJ*, 758, L19 (2012)
- Heldmann, J. L., et al., including **Rayner, J. T.** LCROSS (Lunar Crater Observation and Sensing Satellite) Observation Campaign: Strategies, Implementation, and Lessons Learned. *Space Sci. Rev.*, 167, 93–140 (2012)
- Henning, T., Harvey, P., Wolf, S., Liu, Y., F. Ménard, **Cieza, L. A.**, Evans, N. J., II, Pascucci, I., & Merin, B. A *Herschel* Search for Cold Dust in Brown Dwarf Disks. In *Proc. From Atoms to Pebbles: Herschel’s view of Star and Planet Formation* (slide presentation), (2012)
- Hermalyn, B.**, Schultz, P. H., **Kleyna, J.**, & **Meech, K. J.** Forward Modeling of Ejecta Curtains from Oblique Im-

- pacts: Experiments and Comparison to Real Events. *Meteoritics Planetary Sci. Suppl.*, 75, 5307 (2012)
- Hinse, T. C., Goździewski, K., Lee, J. W., **Haghighipour, N.**, & Lee, C.-U. The Proposed Quadruple System SZ Hercules: Revised LITE Model and Orbital Stability Study. *AJ*, 144, 34 (2012)
- Hinse, T. C., Lee, J. W., Goździewski, K., **Haghighipour, N.**, Lee, C.-U., & Scullion, E. M. New Light-Travel Time Models and Orbital Stability Study of the Proposed Planetary System HU Aquarii. *MNRAS*, 420, 3609–3620 (2012)
- Hlavacek-Larrondo, J., Fabian, A. C., Edge, A. C., **Ebeling, H.**, Sanders, J. S., Hogan, M. T., & Taylor, G. B. Extreme AGN Feedback in the MASSive Cluster Survey: A Detailed Study of X-ray Cavities at $z > 0.3$. *MNRAS*, 421, 1360–1384 (2012)
- Ho, I.-T.**, **Ebeling, H.**, & Richard, J. An X-ray/Optical Study of the Geometry and Dynamics of MACS J0140.0-0555, a Massive Post-Collision Cluster Merger. *MNRAS*, 426, 1992–2002 (2012)
- Hodapp, K. W.**, Chini, R., Watermann, R., & Lemke, R. Eruptive Variable Stars and Outflows in Serpens NW. *ApJ*, 744, 56 (2012)
- Hsieh, H. H.**, **Yang, B.**, & **Haghighipour, N.** Optical and Dynamical Characterization of Comet-like Main-Belt Asteroid (596) Scheila. *ApJ*, 744, 9 (2012)
- Hsieh, H. H.**, **Yang, B.**, **Haghighipour, N.**, **Kaluna, H. M.**, et al., including **Denneau, L.**, **Jedicke, R.**, **Wainscoat, R. J.**, **Armstrong, J. D.**, **Micheli, M.**, **Keane, J. V.**, **Urban, L.**, **Riesen, T.**, **Meech, K. J.**, **Kleyna, J.**, **Tholen, D. J.**, **Vereš, P.**, **Kaiser, N.**, **Chambers, K. C.**, **Hodapp, K. W.**, **Magnier, E. A.**, **Tonry, J. L.** Discovery of Main-Belt Comet P/2006 VW139 by Pan-STARRS1. In *LPI Contributions 1667: Proc. Asteroids, Comets, Meteors 2012*, 6313 (2012)
- Hsieh, H. H.**, **Yang, B.**, **Haghighipour, N.**, **Kaluna, H. M.**, et al., including **Denneau, L.**, **Jedicke, R.**, **Wainscoat, R. J.**, **Armstrong, J. D.**, **Micheli, M.**, **Keane, J. V.**, **Urban, L.**, **Riesen, T.**, **Meech, K. J.**, **Kleyna, J.**, **Tholen, D. J.**, **Vereš, P.**, **Kaiser, N.**, **Chambers, K. C.**, **Hodapp, K. W.**, **Magnier, E. A.**, **Tonry, J. L.** Discovery of Main-Belt Comet P/2006 VW₁₃₉ by Pan-STARRS1. *ApJ*, 748, L15 (2012)
- Hsieh, H. H.**, **Yang, B.**, **Haghighipour, N.**, **Novaković, B.**, **Jedicke, R.**, **Wainscoat, R. J.**, **Denneau**, et al., including **Kaluna, H. M.**, **Kleyna, J.**, **Meech, K. J.**, **Micheli, M.**, **Pittichová, J.**, **Schunova, E.**, **Tholen, D. J.**, **Burgett, W. S.**, **Chambers, K. C.**, **Heasley, J. N.**, **Kaiser, N.**, **Magnier, E. A.**, **Morgan, J. S.** Observational and Dynamical Characterization of Main-Belt Comet P/2010 R2 (La Sagra). *AJ*, 143, 104 (2012)
- Hughes, A. M., Wilner, D. J., Mason, B., Carpenter, J. M., Plambeck, R., **Chiang, H.-F.**, Andrews, S. M., **Williams, J. P.**, et al. Confirming the Primarily Smooth Structure of the Vega Debris Disk at Millimeter Wavelengths. *ApJ*, 750, 82 (2012)
- Hung, C.-L.**, & **Ebeling, H.** Galaxy Alignments in Very X-ray Luminous Clusters at $z > 0.5$. *MNRAS*, 421, 3229–3237 (2012)
- Hunt-Walker, N. M., **Hilton, E. J.**, Kowalski, A. F., Hawley, S. L., & Matthews, J. M. MOST Observations of the Flare Star AD Leo. *PASP*, 124, 545–551 (2012)
- Ishiguro, M., Hanayama, H., Hasegawa, S., Sarugaku, Y., Watanabe, J., Fujiwara, H., Terada, H., **Hsieh, H. H.**, et al. Ejecta Plume Resulting from an Oblique Impact on (596) Scheila. In *LPI Contributions 1667: Proc. Asteroids, Comets, Meteors 2012*, 6121 (2012)
- Iwasawa, K., Mainieri, V., Brusa, M., Comastri, A., Gilli, R., Vignali, C., **Hasinger, G.**, **Sanders, D. B.**, et al. Fe K Emission from Active Galaxies in the COSMOS Field. *A&A*, 537, A86 (2012)
- Jaeggli, S. A.**, **Lin, H.**, & Uitenbroek, H. On Molecular Hydrogen Formation and the Magnetohydrostatic Equilibrium of Sunspots. *ApJ*, 745, 133 (2012)
- Jaeggli, S. A.**, **Lin, H.**, Uitenbroek, H., & Rempel, M. Comparison of Multi-Height Observations with a 3D MHD Sunspot Model. In *ASP Conf. Ser. 456: Fifth Hinode Science Meeting*, 67–68 (2012)
- Jauzac, M., Jullo, E., Kneib, J.-P., **Ebeling, H.**, Leauthaud, A., **Ma, C.-J.**, et al. A Weak Lensing Mass Reconstruction of the Large-Scale Filament Feeding the Massive Galaxy Cluster MACS J0717.5+3745. *MNRAS*, 426, 3369–3384 (2012)
- Johnson, J. A., **Gazak, J. Z.**, et al. Characterizing the Cool KOIs. II. The M Dwarf KOI-254 and Its Hot Jupiter. *AJ*, 143, 111 (2012)
- Jones, C., Brosch, N., **Hasinger, G.**, et al. Division XI: Space and High-Energy Astrophysics. In *Trans. IAU, Ser. A*, 28, 315–324 (2012)
- Kajdić, P., **Reipurth, B.**, Raga, A. C., Bally, J., & **Walawender, J.** Proper Motions of the HH 110/270 System. *AJ*, 143, 106 (2012)
- Kaluna, H. M.**, Hainaut, O. R., **Hsieh, H. H.**, **Meech, K. J.**, & **Riesen, T. E.** Longevity of Ice in the Main Belt Comet 176P/LINEAR. In *LPI Contributions 1667: Proc. Asteroids, Comets, Meteors 2012*, 6425 (2012)
- Kartaltepe, J. S., et al., including **Morrison, G.** GOODS-*Herschel* and CANDELS: The Morphologies of Ultraluminous Infrared Galaxies at $z \sim 2$. *ApJ*, 757, 23 (2012)
- Keenan, R. C., **Barger, A. J.**, **Cowie, L. L.**, Wang, W.-H., Wold, I., & Trouille, L. Testing for a Large Local Void by Investigating the Near-infrared Galaxy Luminosity Function. *ApJ*, 754, 131 (2012)
- Kelley, M. S., Lindler, D. J., Bodewits, D., Lisse, C. M., A’Hearn, M. F., Kolokolova, L., Farnham, T., Kissel, J., **Hermalyn, B.**, & DIXI Science Team. New Constraints on the Large Particles of Comet 103P/Hartley 2. In *LPI*

- Contributions 1667: Proc. Asteroids, Comets, Meteors 2012, 6379 (2012)
- Kenworthy, M. A., & **Scuderi, L. J.** Infrared Variability of the Gliese 569B System. *ApJ*, 752, 131 (2012)
- Khazdadyan, T., Davis, C. J., **Aspin, C.**, et al. A Wide-Field Near-Infrared H_2 2.122 μm Line Survey of the Braid Nebula Star Formation Region in Cygnus OB7. *A&A*, 542, A111 (2012)
- Kim, H., et al., including **Dopita, M. A., Hall, D. N. B.** The Resolved Stellar Population in 50 Regions of M83 from HST/WFC3 Early Release Science Observations. *ApJ*, 753, 26 (2012)
- Kim, M. J., et al., including **Williams, J. P.** AzTEC 1.1 mm Observations of the MBM12 Molecular Cloud. *ApJ*, 746, 11 (2012)
- Kim, S. J., et al., including **Goto, T.** The North Ecliptic Pole Wide Survey of *AKARI*: A Near- and Mid-Infrared Source Catalog. *A&A*, 548, A29 (2012)
- Kirkpatrick, et al., including **Morrison, G.** GOODS-Herschel: Impact of Active Galactic Nuclei and Star Formation Activity on Infrared Spectral Energy Distributions at High Redshift. *ApJ*, 759, 139 (2012)
- Kleyna, J., Meech, K. J.,** & Hainaut, O. R. Faint Moving Object Detection, and the Low Signal-to-Noise Recovery of Main Belt Comet P/2008 R1 Garradd. *PASP*, 124, 1083–1089 (2012)
- Koenigsberger, G., Moreno, E., & **Harrington, D. M.** Tidal Effects on the Radial Velocity Curve of HD 77581 (Vela X-1). *A&A*, 539, A84 (2012)
- Kornos, L., **Veres, P.,** & Toth, J. Frequency of Asteroid's Tidal Break-Up. In *LPI Contributions 1667: Proc. Asteroids, Comets, Meteors 2012*, 6320 (2012)
- Koss, M.,** Mushotzky, R., Treister, E., Veilleux, S., Vasudevan, R., & Trippe, M. Understanding Dual Active Galactic Nucleus Activation in the Nearby Universe. *ApJ*, 746, L22 (2012)
- Kourkchi, E., Khosroshahi, H. G., Carter, D., Karick, A. M., Mármol-Queraltó, E., **Chiboucas, K., Tully, R. B.,** et al. Dwarf Galaxies in the Coma Cluster - I. Velocity Dispersion Measurements. *MNRAS*, 420, 2819–2834 (2012)
- Kraus, A. L.,** & Hillenbrand, L. A. Multiple Star Formation to the Bottom of the Initial Mass Function. *ApJ*, 757, 141 (2012)
- Kraus, A. L.,** & Ireland, M. J. LkCa 15: A Young Exoplanet Caught at Formation? *ApJ*, 745, 5 (2012)
- Kraus, A. L.,** Ireland, M. J., Hillenbrand, L. A., & Martiache, F. The Role of Multiplicity in Disk Evolution and Planet Formation. *ApJ*, 745, 19 (2012)
- Kudritzki, R.-P.,** & **Urbaneja, M. A.** Distances to Galaxies from the Brightest Stars in the Universe. *Ap&SS*, 341, 131–142 (2012)
- Kudritzki, R.-P., Urbaneja, M. A., Gazak, Z., Bresolin, F.,** Przybilla, N., Gieren, W., & Pietrzyński, G. Quantitative Spectroscopy of Blue Supergiant Stars in the Disk of M81: Metallicity, Metallicity Gradient, and Distance. *ApJ*, 747, 15 (2012)
- Kuhn, J. R.,** Bush, R., Emilio, M., & **Scholl, I. F.** The Precise Solar Shape and Its Variability. *Science*, 337, 1638 (2012)
- Kuhn, J. R., Scholl, I. F.,** & **Mickey, D. L.** Solar Dark Matter and Dark Energy: How Can CryoNIRSP Help? In *ASP Conf. Ser. 463: Second ATST-EAST Meeting: Magnetic Fields from the Photosphere to the Corona*, 207–213 (2012)
- Kurczynski, P., Gawiser, E., Huynh, M., Ivison, R. J., **Treister, E.,** et al. Panchromatic Estimation of Star Formation Rates in BzK Galaxies at $1 < z < 3$. *ApJ*, 750, 117 (2012)
- Kusakabe, N., et al., including **Hodapp, K. W.** High-Contrast Near-infrared Polarization Imaging of MWC480. *ApJ*, 753, 153 (2012)
- Law, N. M., **Kraus, A. L.,** et al. Three New Eclipsing White-Dwarf-M-Dwarf Binaries Discovered in a Search for Transiting Planets around M-Dwarfs. *ApJ*, 757, 133 (2012)
- Lebreton, J., et al., including **Mathews, G. S., Williams, J. P.** An Icy Kuiper Belt around the Young Solar-Type Star HD 181327. *A&A*, 539, A17 (2012)
- Lee, C.-H., et al., including **Sweeney, W. E., Burgett, W. S., Chambers, K. C., Heasley, J. N., Hodapp, K. W., Kaiser, N., Magnier, E. A., Morgan, J. S., Tonry, J. L., Wainscoat, R. J.** PANDROMEDA—First Results from the High-Cadence Monitoring of M31 with Pan-STARRS 1. *AJ*, 143, 89 (2012)
- Leka, K. D., **Mickey, D. L.,** Uitenbroek, H., Wagner, E. L., & Metcalf, T. R. The Imaging Vector Magnetograph at Haleakalā IV: Stokes Polarization Spectra in the Sodium D_1 589.6 nm Spectral Line. *Sol. Phys.*, 278, 471–485 (2012)
- Lemaux, B. C., **Gal, R. R.,** et al. The Assembly of the Red Sequence at $z \sim 1$: The Color and Spectral Properties of Galaxies in the Cl1604 Supercluster. *ApJ*, 745, 106 (2012)
- Li, X., **Morgan, H.,** Leonard, D., & Jeska, L. A Solar Tornado Observed by AIA/SDO: Rotational Flow and Evolution of Magnetic Helicity in a Prominence and Cavity. *ApJ*, 752, L22 (2012)
- Limousin, M., **Ebeling, H.,** et al. Strong Lensing by a Node of the Cosmic Web. The Core of MACS J0717.5+3745 at $z = 0.55$. *A&A*, 544, A71 (2012)
- Lin, H.** SPIES: The Spectropolarimetric Imager for the Energetic Sun. *Proc. SPIE*, 8446, 84461D (2012)
- Littlejohns, O. M., et al., including **Flewelling, H.** The Origin of the Early-Time Optical Emission of Swift GRB 080310. *MNRAS*, 421, 2692–2712 (2012)

- Liu, M. C., Dupuy, T. J., Bowler, B. P., Leggett, S. K., & Best, W. M. J.** Two Extraordinary Substellar Binaries at the T/Y Transition and the Y-band Fluxes of the Coolest Brown Dwarfs. *ApJ*, 758, 57 (2012)
- Livermore, R. C., et al., including **Ebeling, H.** *Hubble Space Telescope* H α Imaging of Star-Forming Galaxies at $z \simeq 1$ –1.5: Evolution in the Size and Luminosity of Giant H II Regions. *MNRAS*, 427, 688–702 (2012)
- López-Sánchez, Á. R., **Dopita, M. A., Kewley, L. J., Zahid, H. J., Nicholls, D. C., & Scharwächter, J.** Eliminating Error in the Chemical Abundance Scale for Extragalactic H II Regions. *MNRAS*, 426, 2630–2651 (2012)
- López-Sanjuan, C., et al., including **Sanders, D., Le Floc’h, E.** The Dominant Role of Mergers in the Size Evolution of Massive Early-Type Galaxies since $z \sim 1$. *A&A*, 548, A7 (2012)
- Lowry, S., Duddy, S. R., Rozitis, B., Green, S. F., Fitzsimmons, A., Snodgrass, C., **Hsieh, H. H., & Hainaut, O.** The Nucleus of Comet 67P/Churyumov-Gerasimenko. A New Shape Model and Thermophysical Analysis. *A&A*, 548, A12 (2012)
- Lugaz, N., Farrugia, C. J., Davies, J. A., Móstl, C., Davis, C. J., **Roussev, I. I., & Temmer, M.** The Deflection of the Two Interacting Coronal Mass Ejections of 2010 May 23–24 as Revealed by Combined in situ Measurements and Heliospheric Imaging. *ApJ*, 759, 68 (2012)
- Lugaz, N., Kintner, P., Móstl, C., Jian, L. K., Davis, C. J., & Farrugia, C. J.** Heliospheric Observations of STEREO-Directed Coronal Mass Ejections in 2008–2010: Lessons for Future Observations of Earth-Directed CMEs. *Sol. Phys.*, 279, 497–515 (2012)
- MacLennan, E. M., & **Hsieh, H. H.** The Nucleus of Main-Belt Comet 259P/Garradd. *ApJ*, 758, L3 (2012)
- Mahaffy, P. R., et al., including **Owen, T.** The Sample Analysis at Mars Investigation and Instrument Suite. *Space Sci. Rev.*, 170, 401–478 (2012)
- Mahoney, W., **Morrison, G., & Matsushige, G.** Autonomous Real-Time All-Sky Cloud Detection over Mauna Kea. *Proc. SPIE*, 8448, 84481Y (2012)
- Mainzer, A., et al., including **Tholen, D. J., Jedicke, R.** Characterizing Subpopulations within the Near-Earth Objects with NEOWISE: Preliminary Results. *ApJ*, 752, 110 (2012)
- Mainzer, A., Grav, T., Masiero, J., Bauer, J., Cutri, R. M., McMillan, R. S., Nugent, C. R., **Tholen, D., et al.** Physical Parameters of Asteroids Estimated from the WISE 3-Band Data and NEOWISE Post-Cryogenic Survey. *ApJ*, 760, L12 (2012)
- Mainzer, A., Masiero, J., Grav, T., Bauer, J., **Tholen, D. J., et al.** NEOWISE Studies of Asteroids with Sloan Photometry: Preliminary Results. *ApJ*, 745, 7 (2012)
- Manchado, A., et al., including **Mendez, R.** Division VI / Commission 24 / Working Group Planetary Nebulae. In *Trans. IAU, Ser. A*, 28, 240–242 (2012)
- Mann, A. W., & Ebeling, H.** X-ray-Optical Classification of Cluster Mergers and the Evolution of the Cluster Merger Fraction. *MNRAS*, 420, 2120–2138 (2012)
- Mann, A. W., Gaidos, E., Lépine, S., & Hilton, E. J.** They Might be Giants: Luminosity Class, Planet Occurrence, and Planet-Metallicity Relation of the Coolest *Kepler* Target Stars. *ApJ*, 753, 90 (2012)
- Martins, L. P., Lanfranchi, G., Gonçalves, D. R., Magrini, L., **Teodorescu, A. M., & Quireza, C.** The Ionization Mechanism of NGC 185: How to Fake a Seyfert Galaxy? *MNRAS*, 419, 3159–3166 (2012)
- Masiero, J. R., Mainzer, A. K., Grav, T., Bauer, J. M., & **Jedicke, R.** Revising the Age for the Baptistina Asteroid Family Using WISE/NEOWISE Data. *ApJ*, 759, 14 (2012)
- Masiero, J. R., Mainzer, A. K., Grav, T., Bauer, J. M., Wright, E. L., McMillan, R. S., **Tholen, D. J., & Blain, A. W.** A Revised Asteroid Polarization-Albedo Relationship Using WISE/NEOWISE Data. *ApJ*, 749, 104 (2012)
- Masters, D., Capak, P., Salvato, M., Civano, F., Mobasher, B., Siana, B., **Hasinger, G., et al.** Evolution of the Quasar Luminosity Function over $3 < z < 5$ in the COSMOS Survey Field. *ApJ*, 755, 169 (2012)
- Mathews, G. S., Williams, J. P., & Ménard, F.** 880 μm Imaging of a Transitional Disk in Upper Scorpius: Holdover from the Era of Giant Planet Formation? *ApJ*, 753, 59 (2012)
- Mathews, G. S., Williams, J. P., Ménard, F., Phillips, N., Duchêne, G., & Pinte, C.** The Late Stages of Protoplanetary Disk Evolution: A Millimeter Survey of Upper Scorpius. *ApJ*, 745, 23 (2012)
- Matsuhara, H., Wada, T., Takagi, T., Nakagawa, T., Murata, K., Churei, S., **Goto, T., et al.** Overview of the North Ecliptic Pole Deep Multi-Wavelength Survey NEP-DEEP. *Publ. Korean Astron. Soc.*, 27, 123–128 (2012)
- Mauduit, J.-C., et al., including **Gal, R. R.** The Spitzer Extragalactic Representative Volume Survey (SERVS): Survey Definition and Goals (PASP, 124, 714, [2012]). *PASP*, 124, 1135–1136 (2012)
- Mayama, S., et al., including **Hodapp, K. W.** Subaru Imaging of Asymmetric Features in a Transitional Disk in Upper Scorpius. *ApJ*, 760, L26 (2012)
- Mazzarella, J. M., et al., including **Sanders, D. B., U, V.** Investigation of Dual Active Nuclei, Outflows, Shock-heated Gas, and Young Star Clusters in Markarian 266. *AJ*, 144, 125 (2012)
- Meech, K. J.** An Amateur-Professional International Observing Campaign for the EPOXI Mission: New Insights Into Comets. *Journal of the American Association of Variable Star Observers (JAAVSO)*, 40, 422 (2012)
- Meech, K. J., et al., including Kaluna, H., Keane, J. V., S., Riesen, T. E., Sarid, G., Urban, L., Zenn, A.** New

- Insights into Comet Activity from the EPOXI Mission Campaign and the Spitzer Comet Nucleus Survey. In *LPI Contributions 1667: Proc. Asteroids, Comets, Meteors 2012*, 6303 (2012)
- Meech, K., Zenn, T.,** Bauer, J., Fernandez, Y., & Hainaut, O. Comets and Carbon Dioxide. In *European Planetary Science Congress 2012*, 838 (2012)
- Meeus, G., Montesinos, B., Mendigutía, I., Kamp, I., Thi, W. F., Eiroa, C., Grady, C. A., **Mathews, G.,** et al., including **Williams, J. P.** Observations of Herbig Ae/Be stars with *Herschel*/PACS. The Atomic and Molecular Contents of their Protoplanetary Discs. *A&A*, 544, A78 (2012)
- Mei, Z., Shen, C., Wu, N., Lin, J., Murphy, N. A., & **Roussev, I. I.** Numerical Experiments on Magnetic Reconnection in Solar Flare and Coronal Mass Ejection Current Sheets. *MNRAS*, 425, 2824–2839 (2012)
- Méndez, R. H., Teodorescu, A. M.,** Hattori, T., Magrini, L., & Johnson, L. C. Planetary Nebula Spectra in M 60 and M 82. In *IAU Symp. 283: Planetary Nebulae: An Eye to the Future*, 434–435 (2012)
- Méndez, R. H., Urbaneja, M. A., Kudritzki, R.-P.,** & Prinja, R. K. Peculiar CNO Photospheric Abundances in the Central Star of NGC 2392. In *IAU Symp. 283: Planetary Nebulae: An Eye to the Future*, 436–437 (2012)
- Mesa-Delgado, A.,** Núñez-Díaz, M., Esteban, C., García-Rojas, J., Flores-Fajardo, N., López-Martín, L., Tsamis, Y. G., & Henney, W. J. Ionized Gas Diagnostics from Protoplanetary Discs in the Orion Nebula and the Abundance Discrepancy Problem. *MNRAS*, 426, 614–634 (2012)
- Messineo, M., et al., including **Kudritzki, R. P.** Young Massive Stellar Clusters in the Milky Way: The Cl1813-178 and GLIMPSE 9 Clusters. *Star Clusters in the Era of Large Surveys*, 185 (2012)
- Meyer, L., Ghez, A. M., Schödel, R., Yelda, S., Boehle, A., **Lu, J. R.,** et al. The Shortest-Known-Period Star Orbiting Our Galaxy’s Supermassive Black Hole. *Science*, 338, 84–87 (2012)
- Micheli, M., Tholen, D. J., & Elliott, G. T.** Detecting Non-Gravitational Effects on Small-Sized NEOs with Accurate Ground-Based Astrometry: The Case of 2011 MD. In *LPI Contributions 1667: Proc. Asteroids, Comets, Meteors 2012*, 6177 (2012)
- Micheli, M., Tholen, D. J., & Elliott, G. T.** Detection of Radiation Pressure Acting on 2009 BD. *New A*, 17, 446–452 (2012)
- Milani, A., Knežević, Z., Farnocchia, D., Bernardi, F., **Jedicke, R., Denneau, L., Wainscoat, R. J., Burgett, W.,** Grav, T., **Kaiser, N., Magnier, E.,** & Price, P. A. Identification of Known Objects in Solar System Surveys. *Icarus*, 220, 114–123 (2012)
- Miller, E. D., Bautz, M., George, J., Mushotzky, R., Davis, D., & **Henry, J. P.** The Outer Limits of Galaxy Clusters: Observations to the Virial Radius with *Suzaku*, *XMM*, and *Chandra*. In *AIP Conf. Ser. 1427: SUZAKU 2011: Exploring the X-ray Universe: Suzaku and Beyond*, 13–20 (2012)
- Miloch, W. J., **Habbal, S. R.,** & Esser, R. Plasma Dynamics at the Prominence—Corona Interface. *ApJ*, 752, 85 (2012)
- Milone, E. F., et al., including **Tokunaga, A.** Division IX / Commission 25 / Working Group Infrared Astronomy. In *Trans. IAU, Ser. A*, 28, 297–302 (2012)
- Mitsuishi, I., Gupta, A., Yamasaki, N. Y., Takei, Y., Ohashi, T., Sato, K., Galeazzi, M., **Henry, J. P.,** & Kelley, R. L. Search for X-ray Emission from the Shapley Supercluster and the WHIM with *Suzaku*. In *AIP Conf. Ser. 1427: SUZAKU 2011: Exploring the X-ray Universe: Suzaku and Beyond*, 344–345 (2012)
- Mitsuishi, I., Gupta, A., Yamasaki, N. Y., Takei, Y., Ohashi, T., Sato, K., Galeazzi, M., **Henry, J. P.,** & Kelley, R. L. Search for X-Ray Emission Associated with the Shapley Supercluster with *Suzaku*. *PASJ*, 64, 18 (2012)
- Modica, F., et al., including **Sanders, D. B., Barnes, J. E.** Multi-wavelength GOALS Observations of Star Formation and Active Galactic Nucleus Activity in the Luminous Infrared Galaxy IC 883. *AJ*, 143, 16 (2012)
- Morgan, H., Byrne, J. P., & Habbal, S. R.** Automatically Detecting and Tracking Coronal Mass Ejections. I. Separation of Dynamic and Quiescent Components in Coronagraph Images. *ApJ*, 752, 144 (2012)
- Morgan, J. S., Kaiser, N.,** Moreau, V., Anderson, D., & **Burgett, W.** Design Differences between the Pan-STARRS PS1 and PS2 Telescopes. *Proc. SPIE*, 8444, 84440H (2012)
- Morganson, E., De Rosa, G., Decarli, R., Walter, F., **Chambers, K.,** et al., including **Burgett, W., Flewelling, H., Hodapp, K., Kaiser, N., Magnier, E., Sweeney, B., & Waters, C.** The First High-redshift Quasar from Pan-STARRS. *AJ*, 143, 142 (2012)
- Moskovitz, N. A., **Yang, B.,** Lim, L. F., Emery, J. P., Granvik, M., Sheppard, S. S., **Willman, M.,** & McMillan, M. The Near-Earth Encounter of Asteroid 2005 YU55: Visible and Near-Infrared Spectroscopy. In *LPI Sci. Conf. Abstracts 43*, 2080 (2012)
- Moskovitz, N. A., **Yang, B.,** Lim, L. F., **Willman, M.,** Rivkin, A. S., Emery, J. P., Granvik, M., & Sheppard, S. S. The Near-Earth Encounter of 2005 YU55: Time-Resolved Visible and Near-Infrared Spectroscopy. In *LPI Contributions 1667: Proc. Asteroids, Comets, Meteors 2012*, 6382 (2012)
- Muto, T., et al., including **Hodapp, K. W.** Discovery of Small-Scale Spiral Structures in the Disk of SAO 206462 (HD 135344B): Implications for the Physical State of the Disk from Spiral Density Wave Theory. *ApJ*, 748, L22 (2012)
- Narita, N., et al., including **Hodapp, K. W.** A Common Proper Motion Stellar Companion to HAT-P-7. *PASJ*, 64,

- L7 (2012)
- Ni, L., **Roussev, I. I.**, Lin, J., & Ziegler, U. Impact of Temperature-Dependent Resistivity and Thermal Conduction on Plasmoid Instabilities in Current Sheets in the Solar Corona. *ApJ*, 758, 20 (2012)
- Nielsen, E. L.**, **Liu, M. C.**, **Wahhaj, Z.**, et al., including **Bowler, B.**, **Kraus, A.**, **Chun, M.**, **Ftaclas, C.** The Gemini NICI Planet-Finding Campaign: Discovery of a Multiple System Orbiting the Young A Star HD 1160. *ApJ*, 750, 53 (2012)
- Noble, A. G., Webb, T. M. A., Ellingson, E., Faloon, A. J., **Gal, R. R.**, et al. Submillimetre Source Counts in the Fields of High-Redshift Galaxy Clusters. *MNRAS*, 419, 1983–2013 (2012)
- Novakovic, B., **Hsieh, H. H.**, & Cellino, A. Linking Main-Belt Comets to Asteroid Families. In European Planetary Science Congress 2012, 746 (2012)
- Novakovic, B., **Hsieh, H. H.**, & Cellino, A. Main Belt Comet P/2006 VW139: A Fragment from a Recent Collision? In LPI Contributions 1667: Proc. Asteroids, Comets, Meteors 2012, 6226 (2012)
- Novaković, B., Hsieh, H. H., & Cellino, A. P/2006 VW₁₃₉: A Main-Belt Comet Born in an Asteroid Collision? *MNRAS*, 424, 1432–1441 (2012)
- Onaka, P.**, **Rae, C.**, **Isani, S.**, **Tonry, J. L.**, **Lee, A.**, **Uyeshiro, R.**, **Robertson, L.**, & **Ching, G.** GPC1 and GPC2: The Pan-STARRS 1.4 Gigapixel Mosaic Focal Plane CCD Cameras with an On-Sky On-CCD Tip-Tilt Image Compensation. Proc. SPIE, 8453, 84530K (2012)
- Onodera, M., et al., including **Sanders, D. B.** Deep Near-Infrared Spectroscopy of Passively Evolving Galaxies at $z \gtrsim 1.4$. *ApJ*, 755, 26 (2012)
- Orellana, M., **Cieza, L. A.**, Schreiber, M. R., Merín, B., Brown, J. M., Pellizza, L. J., & Romero, G. A. Transition Disks: Four Candidates for Ongoing Giant Planet Formation in Ophiuchus. *A&A*, 539, A41 (2012)
- Orosz, J. A., et al., including **Haghighipour, N.** The Neptune-Sized Circumbinary Planet Kepler-38b. *ApJ*, 758, 87 (2012)
- Orosz, J. A., Welsh, W. F., Carter, J. A., Fabrycky, D. C., Cochran, W. D., Endl, M., Ford, E. B., **Haghighipour, N.**, et al. Kepler-47: A Transiting Circumbinary Multiplanet System. *Science*, 337, 1511 (2012)
- Oshagh, M., Boué, G., **Haghighipour, N.**, Montalto, M., Figueira, P., & Santos, N. C. Transit-Timing Measurements with the Model-Independent Barycenter Method: Application to the LHS 6343 System. *A&A*, 540, A62 (2012)
- Oszkiewicz, D., Muinonen, K., Virtanen, J., **Granvik, M.**, & **Bowell, E.** Modeling Collision Probability for Earth-Impactor 2008 TC₃. *Planet. Space Sci.*, 73, 30–38 (2012)
- Packham, C., et al., including **Tokunaga, A.**, **Chun, M.** Key Science Drivers for MICH1: A Mid-IR Instrument Concept for the TMT. Proc. SPIE, 8446, 84467G (2012)
- Paganini, L., Mumma, M. J., Bonev, B. P., Villanueva, G. L., Disanti, M. A., **Keane, J. V.**, & **Meech, K. J.** The Formation Heritage of Jupiter Family Comet 10P/Tempel 2 as Revealed by Infrared Spectroscopy. *Icarus*, 218, 644–653 (2012)
- Pandian, J. D.**, Wyrowski, F., & Menten, K. M. Physical Conditions around 6.7 GHz Methanol Masers. I. Ammonia. *ApJ*, 753, 50 (2012)
- Peacock, M. B., Zepf, S. E., Kundu, A., Maccarone, T. J., Rhode, K. L., Salzer, J. J., **Waters, C. Z.**, et al. Spatially Resolved Spectroscopy of the Globular Cluster RZ 2109 and the Nature of its Black Hole. *ApJ*, 759, 126 (2012)
- Peña, M., Stasinska, G., **Bresolin, F.**, & Tsamis, Y. PNe in NGC 300: Their Abundances and Chemical Gradients. In IAU Symp. 283: Planetary Nebulae: An Eye to the Future, 263–266 (2012)
- Penner, K., et al., including **Morrison, G.** Evidence for a Wide Range of Ultraviolet Obscuration in $z \sim 2$ Dusty Galaxies from the GOODS-*Herschel* Survey. *ApJ*, 759, 28 (2012)
- Polishook, D., Binzel, R. P., Lockhart, M., DeMeo, F. E., **Golisch, W.**, **Bus, S. J.**, & Gulbis, A. A. S. Spectral and Spin Measurement of Two Small and Fast-Rotating Near-Earth Asteroids. *Icarus*, 221, 1187–1189 (2012)
- Popesso, P., et al., including **Ilbert, O.** The Evolution of the Star Formation Activity per Halo Mass Up to Redshift ~ 1.6 as Seen by *Herschel*. *A&A*, 537, A58 (2012)
- Prinja, R. K., Massa, D. L., **Urbaneja, M. A.**, & **Kudritzki, R.-P.** PN Fast Winds: Temporal Structure and Stellar Rotation. *MNRAS*, 422, 3142–3150 (2012)
- Rayner, J.**, **Bond, T.**, **Bonnet, M.**, Jaffe, D., Muller, G., & **Tokunaga, A.** iSHELL: A 1–5 Micron Cross-Dispersed $R = 70,000$ Immersion Grating Spectrograph for IRTF. Proc. SPIE, 8446, 84462C (2012)
- Reddy, N., Dickinson, M., Elbaz, D., **Morrison, G.**, et al. GOODS-*Herschel* Measurements of the Dust Attenuation of Typical Star-forming Galaxies at High Redshift: Observations of Ultraviolet-Selected Galaxies at $z \sim 2$. *ApJ*, 744, 154 (2012)
- Reipurth, B.** Book review of *Star Clusters: Basic Galactic Building Blocks Throughout Time and Space*, IAU S266, edited by Richard de Grijs and Jacques Lépine. *Contemporary Phys.*, 53, 268–269 (2012)
- Reipurth, B.**, **Aspin, C.**, & **Herbig, G. H.** V900 Mon and Thommes’ Nebula: A New FUor in Monoceros. *ApJ*, 748, L5 (2012)
- Reipurth, B.**, & Mikkola, S. Formation of the Widest Binary Stars from Dynamical Unfolding of Triple Systems. *Nature*, 492, 221–224 (2012)
- Rice, T. S., Wolk, S. J., & **Aspin, C.** Near-Infrared Variability in Young Stars in Cygnus OB7. *ApJ*, 755, 65 (2012)

- Rich, J. A.**, Torrey, P., **Kewley, L. J.**, **Dopita, M. A.**, & Rupke, D. S. N. An Integral Field Study of Abundance Gradients in Nearby Luminous Infrared Galaxies. *ApJ*, 753, 5 (2012)
- Rimmele, T. R., et al., including **Kuhn, J. R.**, **Lin, H.** Construction of the Advanced Technology Solar Telescope. In ASP Conf. Ser. 463: Second ATST-EAST Meeting: Magnetic Fields from the Photosphere to the Corona, 377–394 (2012)
- Rimmele, T. R., Keil, S., McMullin, J., Goode, P. R., Knoelker, M., **Kuhn, J. R.**, Rosner, R., & ATST Team. Advanced Technology Solar Telescope Construction Progress Report (slide presentation). In Proc. IAU Special Session 6: Science with Large Telescopes, E2.06 (2012)
- Rivkin, A. S., Howell, E. S., Emery, J. P., **Volquardsen, E. L.**, & DeMeo, F. E. Toward a Taxonomy of Asteroid Spectra in the 3- μ m Region. In European Planetary Science Congress 2012, 359 (2012)
- Romero, G. A., Schreiber, M. R., **Cieza, L. A.**, Rebassamansergas, A., Merín, B., Smith Castelli, A. V., Allen, L. E., & Morrell, N. The Nature of Transition Circumstellar Disks. II. Southern Molecular Clouds. *ApJ*, 749, 79 (2012)
- Roseboom, I. G., et al., including **Casey, C.** FMOS Near-IR Spectroscopy of *Herschel*-Selected Galaxies: Star Formation Rates, Metallicity and Dust Attenuation at $z \sim 1$. *MNRAS*, 426, 1782–1792 (2012)
- Roseboom, I. G., et al., including **Morrison, G.** The *Herschel* Multi-tiered Extragalactic Survey: SPIRE-mm Photometric Redshifts. *MNRAS*, 419, 2758–2773 (2012)
- Roussev, I. I.**, Galsgaard, K., Downs, C., Lugaz, N., Sokolov, I. V., Moise, E., & Lin, J. Explaining Fast Ejections of Plasma and Exotic X-ray Emission from the Solar Corona. *Nature Physics*, 8, 845–849 (2012)
- Rovilos, E., et al., including **Morrison, G.** GOODS-*Herschel*: Ultra-deep *XMM-Newton* Observations Reveal AGN/Star-Formation Connection. *A&A*, 546, A58 (2012)
- Roychowdhury, S., Chengalur, J. N., **Chiboucas, K.**, Karachentsev, I. D., **Tully, R. B.**, & Kaisin, S. S. Atomic Hydrogen, Star Formation and Feedback in the Lowest Mass Blue Compact Dwarf Galaxies. *MNRAS*, 426, 665–672 (2012)
- Rumbaugh, N., Kocevski, D. D., **Gal, R. R.**, Lemaux, B. C., Lubin, L. M., Fassnacht, C. D., McGrath, E. J., & Squires, G. K. The Evolution and Environments of X-Ray Emitting Active Galactic Nuclei in High-Redshift Large-scale Structures. *ApJ*, 746, 155 (2012)
- Rutkowski, M. J., et al., including **Hall, D. N. B.** A Panchromatic Catalog of Early-type Galaxies at Intermediate Redshift in the *Hubble Space Telescope* Wide Field Camera 3 Early Release Science Field. *ApJS*, 199, 4 (2012)
- Ryan, R. E., Jr., et al., including **Hall, D. N. B.** The Size Evolution of Passive Galaxies: Observations from the Wide-Field Camera 3 Early Release Science Program. *ApJ*, 749, 53 (2012)
- Saglia, R. P., **Tonry, J. L.**, et al., including **Burgett, W. S.**, **Chambers, K. C.**, **Heasley, J. N.**, **Kaiser, N.**, **Magnier, E. A.**, **Morgan, J. S.**, **Wainscoat, R. J.** The Photometric Classification Server for Pan-STARRS1. *ApJ*, 746, 128 (2012)
- Sanders, N. E., et al., including **Chambers, K. C.**, **Heasley, J. N.**, **Hodapp, K. W.**, **Jedicke, R.**, **Kaiser, N.**, **Kudritzki, R.-P.**, **Luppino, G. A.**, **Magnier, E. A.**, **Morgan, J. S.**, **Onaka, P. M.**, **Tonry, J. L.**, **Wainscoat, R. J.** SN 2010ay is a Luminous and Broad-lined Type Ic Supernova within a Low-metallicity Host Galaxy. *ApJ*, 756, 184 (2012)
- Sarid, G.** Stories of Pre-Accreted Icy Planetesimals: Internal Evolution and Volatile Delivery. In LPI Contributions 1667: Proc. Asteroids, Comets, Meteors 2012, 6491 (2012)
- Scheirich, P., et al., including **Pittichová, J.** Zero Drift in Mean Anomaly of the Satellite of 1996 FG3 and Its Implication for the BYORP Theory. In LPI Contributions 1667: Proc. Asteroids, Comets, Meteors 2012, 6123 (2012)
- Schlafly, E. F., et al., including **Magnier, E. A.**, **Burgett, W. S.**, **Chambers, K. C.**, **Hodapp, K. W.**, **Kaiser, N.**, **Kudritzki, R.-P.**, **Morgan, J. S.**, **Tonry, J. L.**, **Wainscoat, R. J.** Photometric Calibration of the First 1.5 Years of the Pan-STARRS1 Survey. *ApJ*, 756, 158 (2012)
- Schläppi, B., Altwegg, K., **Riesen, T.**, & Rubin, M. An Underestimated Onboard Generated Recoil Force Contributing to the Pioneer Anomaly. *Adv. Space Res.*, 49, 579–585 (2012)
- Schmidt, S. J., Kowalski, A. F., Hawley, S. L., **Hilton, E. J.**, Wisniewski, J. P., & Tofflemire, B. M. Probing the Flare Atmospheres of M Dwarfs Using Infrared Emission Lines. *ApJ*, 745, 14 (2012)
- Schorghofer, N.**, & Forget, F. History and Anatomy of Sub-surface Ice on Mars. *Icarus*, 220, 1112–1120 (2012)
- Schunová, E., **Granvik, M.**, **Jedicke, R.**, Gronchi, G., **Wainscoat, R.**, & Abe, S. Searching for the First Near-Earth Object Family. *Icarus*, 220, 1050–1063 (2012)
- Schunova, E. S.**, Walsh, K. J. W., Granvik, M. G., **Jedicke, R. J.**, & **Wainscoat, R. J. W.** The Short Detectability of NEA Families Created by Tidal Disruptions during Close Planetary Encounters. In LPI Contributions 1667: Proc. Asteroids, Comets, Meteors 2012, 6076 (2012)
- Schwarz, R., **Haghighipour, N.**, Funk, B., Eggl, S., & Pilat-Lohinger, E. Eclipse Timing Variations of Planets in P-Type Binary Star Systems. In IAU Symposium 282: From Interacting Binaries to Exoplanets: Essential Modeling Tools, 444–445 (2012)
- Scott, K. S., et al., including **Sanders, D.** The Source Counts of Submillimetre Galaxies Detected at $\lambda = 1.1$ mm.

- MNRAS, 423, 575–589 (2012)
- Sedgwick, C., Serjeant, S., Pearson, C., Matsuura, S., Shirahata, M., Oyabu, S., **Goto, T.**, et al. Far Infrared Luminosity Function of Local Galaxies in the *AKARI* Deep Field South. In IAU Symposium 284: The Spectral Energy Distribution of Galaxies, 289–291 (2012)
- Shetty, R., **Beaumont, C. N.**, Burton, M. G., Kelly, B. C., & Klessen, R. S. The Linewidth-Size Relationship in the Dense Interstellar Medium of the Central Molecular Zone. MNRAS, 425, 720–729 (2012)
- Shkolnik, E. L., Anglada-Escudé, G., **Liu, M. C.**, **Bowler, B. P.**, Weinberger, A. J., Boss, A. P., Reid, I. N., & Tamura, M. Identifying the Young Low-Mass Stars within 25 pc. II. Distances, Kinematics, and Group Membership. ApJ, 758, 56 (2012)
- Siegler, M., Aharonson, O., Carey, E., Choukroun, M., Hudson, T., **Schorghofer, N.**, & Xu, S. Measurements of Thermal Properties of Icy Mars Regolith Analogs. J. Geophys. Res. (Planets), 117, 3001 (2012)
- Silverman, J. M., et al., including **Lee, N.**, **Barris, B. J.**, **Tonry, J. L.** Berkeley Supernova Ia Program - I. Observations, Data Reduction and Spectroscopic Sample of 582 Low-Redshift Type Ia Supernovae. MNRAS, 425, 1789–1818 (2012)
- Siverd, R. J., et al., including **Fulton, B. J.**, KELT-1b: A Strongly Irradiated, Highly Inflated, Short Period, 27 Jupiter-Mass Companion Transiting a Mid-F Star. ApJ, 761, 123 (2012)
- Solarz, A., et al., including **Goto, T.** Star-Galaxy Separation in the *AKARI* NEP Deep Field. A&A, 541, A50 (2012)
- Sonnett, S.**, **Meech, K. J.**, & **Sarid, G.** Bi-Color Light Curves of Eight Neutral Trans-Neptunian Objects. In LPI Contributions 1667: Proc. Asteroids, Comets, Meteors 2012, 6429 (2012)
- Sorce, J. G., **Courtois, H. M.**, & **Tully, R. B.** The Mid-Infrared Tully-Fisher Relation: Spitzer Surface Photometry. AJ, 144, 133 (2012)
- Sorce, J. G., **Tully, R. B.**, & **Courtois, H. M.** The Mid-Infrared Tully-Fisher Relation: Calibration of the Type Ia Supernova Scale and H_0 . ApJ, 758, L12 (2012)
- Sudol, J. J., & **Haghighipour, N.** High-Mass, Four-Planet Configurations for HR 8799: Constraining the Orbital Inclination and Age of the System. ApJ, 755, 38 (2012)
- Szapudi, I.**, & Czimmer, V. G. Cosmological Perturbations from a Group Theoretical Point of View. Classical and Quantum Gravity, 29, 015007 (2012)
- Takagi, T., Matsuhara, H., **Goto, T.**, et al. The *AKARI* NEP-Deep Survey: A Mid-Infrared Source Catalogue. A&A, 537, A24 (2012)
- Takamiya, M., **Chun, M.**, Kulkarni, V. P., & Gharanfoli, S. The Nature of a Galaxy along the Sight Line to PKS 0454+039. AJ, 144, 111 (2012)
- Tamura, M., et al., including **Hall, D.**, **Hodapp, K.** Infrared Doppler Instrument for the Subaru Telescope (IRD). Proc. SPIE, 8446, 84461T (2012)
- Tanii, R., et al., including **Hodapp, K. W.** High-Resolution Near-Infrared Polarimetry of a Circumstellar Disk around UX Tau A. PASJ, 64, 124 (2012)
- Tanner, A., White, R., Bailey, J., Blake, C., Blake, G., Cruz, K., Burgasser, A. J., & **Kraus, A.** Keck NIRSPEC Radial Velocity Observations of Late-M Dwarfs. ApJS, 203, 10 (2012)
- Terada, H., & **Tokunaga, A. T.** Discovery of Crystallized Water Ice in a Silhouette Disk in the M43 Region. ApJ, 753, 19 (2012)
- Terada, H., **Tokunaga, A. T.** et al. Adaptive Optics Observations of 3 μm Water Ice in Silhouette Disks in the Orion Nebula Cluster and M43. AJ, 144, 175 (2012)
- Tholen, D. J.**, Buie, M. W., & Grundy, W. M. Masses in the Pluto System. In LPI Contributions 1667: Proc. Asteroids, Comets, Meteors 2012, 6327 (2012)
- Tobin, J. J., Hartmann, L., Bergin, E., **Chiang, H.-F.**, Looney, L. W., Chandler, C. J., Maret, S., & Heitsch, F. Complex Structure in Class 0 Protostellar Envelopes. III. Velocity Gradients in Non-axisymmetric Envelopes, Infall, or Rotation? ApJ, 748, 16 (2012)
- Tobin, J. J., Hartmann, L., **Chiang, H.-F.**, Wilner, D. J., Looney, L. W., Loinard, L., Calvet, N., & D’Alessio, P. A ~ 0.2 -Solar-Mass Protostar with a Keplerian Disk in the Very Young L1527 IRS System. Nature, 492, 83–85 (2012)
- Tofflemire, B. M., Wisniewski, J. P., Kowalski, A. F., Schmidt, S. J., Kundurthy, P., **Hilton, E. J.**, Holtzman, J. A., & Hawley, S. L. The Implications of M Dwarf Flares on the Detection and Characterization of Exoplanets at Infrared Wavelengths. AJ, 143, 12 (2012)
- Tonry, J. L.**, et al., including **Burgett, W. S.**, **Chambers, K. C.**, **Hodapp, K. W.**, **Kaiser, N.**, **Kudritzki, R.-P.**, **Magnier, E. A.**, **Morgan, J. S.**, **Wainscoat, R. J.** The Pan-STARRS1 Photometric System. ApJ, 750, 99 (2012)
- Tonry, J. L.**, Stubbs, C. W., Kilic, M., **Flewelling, H. A.**, **Deacon, N. R.**, et al., including **Burgett, W. S.**, **Chambers, K. C.**, **Kaiser, N.**, **Kudritzki, R.-P.**, **Hodapp, K. W.**, **Magnier, E. A.**, **Morgan, J. S.**, **Wainscoat, R. J.** First Results from Pan-STARRS1: Faint, High Proper Motion White Dwarfs in the Medium-Deep Fields. ApJ, 745, 42 (2012)
- Treister, E.** Multiwavelength Observations of Ultra-luminous IR Galaxies. In AIP Conf. Ser. 1427: SUZAKU 2011: Exploring the X-ray Universe: *Suzaku* and Beyond, 201–208 (2012)
- Treister, E.**, & Urry, C. M. The Cosmic History of Black Hole Growth from Deep Multiwavelength Surveys. In Adv. Astron. 2012: 516193 (2012)

- Tully, R. B.** Astronomy: Collision Course. *Nature*, 488, 600–601 (2012)
- Tully, R. B., & Courtois, H. M.** Cosmicflows-2: I-band Luminosity-H I Linewidth Calibration. *ApJ*, 749, 78 (2012)
- U, V., Sanders, D. B., et al., including Casey, C. M., Larson, K. L., Barnes, J. E., Ishida, C. M.** Spectral Energy Distributions of Local Luminous and Ultraluminous Infrared Galaxies. *ApJS*, 203, 9 (2012)
- Urban, L. E., Rieke, G., Su, K., & Trilling, D. E.** The Incidence of Debris Disks at 24 μm and 670 Myr. *ApJ*, 750, 98 (2012)
- Valenti, S., et al., including **Magnier, E.** A Spectroscopically Normal Type Ic Supernova from a Very Massive Progenitor. *ApJ*, 749, L28 (2012)
- van Driel, W., Green, R., **Wainscoat, R. J., et al.** Division XII / Commission 50 Protection of Existing and Potential Observatory Sites. In *Trans. IAU, Ser. A*, 28, 408–412 (2012)
- Van Dyk, S. D., Cenko, S. B., Poznanski, D., Arcavi, I., Gal-Yam, A., Filippenko, A. V., Silverio, K., **Stockton, A., et al.** The Red Supergiant Progenitor of Supernova 2012aw (PTF12bvh) in Messier 95. *ApJ*, 756, 131 (2012)
- van Weeren, R. J., Bonafede, A., **Ebeling, H., Edge, A. C., Brüggem, M., Giovannini, G., Hoefl, M., & Röttgering, H. J. A.** Diffuse Radio Emission in MACS J1752.0+4440. *MNRAS*, 425, L36–L40 (2012)
- Verbeek, K., et al., including **Deacon, N.** A First Catalogue of Automatically Selected Ultraviolet-Excess Sources from the UVEX Survey. *MNRAS*, 420, 1115–1134 (2012)
- Verbeek, K., et al., including **Deacon, N.** Spectroscopic Follow-Up of Ultraviolet-Excess Objects Selected from the UVEX Survey. *MNRAS*, 426, 1235–1261 (2012)
- Veres, P., Jedicke, R., Denneau, L., Wainscoat, R., Holman, M. J., & Lin, H.-W.** Improved Asteroid Astrometry and Photometry with Trail Fitting. *PASP*, 124, 1197–1207 (2012)
- Veverka, J., et al., including **Meech, K.** A Second Encounter with 9P/Tempel 1: Overview of the Stardust-NEXT Results. In *LPI Contributions 1667: Proc. Asteroids, Comets, Meteors 2012*, 6171 (2012)
- Vogt, S. S., Butler, R. P., & **Haghighipour, N.** GJ 581 Update: Additional Evidence for a Super-Earth in the Habitable Zone. *Astron. Nachr.*, 333, 561 (2012)
- Wainscoat, R. J., Jedicke, R., Denneau, L., & Veres, P.** The Pan-STARRS1 Search for Near Earth Asteroids. In *LPI Contributions 1667: Proc. Asteroids, Comets, Meteors 2012*, 6341 (2012)
- Wang, W.-H., **Barger, A. J., & Cowie, L. L.** A K_S and IRAC Selection of High-Redshift Extremely Red Objects. *ApJ*, 744, 155 (2012)
- Wang, X., et al., including **Barris, B. J., Tonry, J. L.** Evidence for Type Ia Supernova Diversity from Ultraviolet Observations with the *Hubble Space Telescope*. *ApJ*, 749, 126 (2012)
- White, G. J., et al., including **Goto, T.** A Deep ATCA 20 cm Radio Survey of the *AKARI* Deep Field South near the South Ecliptic Pole. *MNRAS*, 427, 1830–1846 (2012)
- Williams, J. P.** Astronomical Evidence for the Rapid Growth of Millimeter-Sized Particles in Protoplanetary Disks. *Meteoritics Planet. Sci.*, 47, 1915–1921 (2012)
- Williams, J. P.** *Herschel* Observations of Protoplanetary Disks. In *Proc. From Atoms to Pebbles: Herschel’s view of Star and Planet Formation* (slide presentation) (2012)
- Wold, I. G. B., Owen, F. N., Wang, W.-H., **Barger, A. J., & Keenan, R. C.** Very Large Array 1.4 GHz Catalogs of the A370 and A2390 Cluster Fields. *ApJS*, 202, 2 (2012)
- Yamada, T., Iwata, I., Ando, M., Doi, M., **Goto, T., et al.** WISH for Deep and Wide NIR Surveys. *Proc. SPIE*, 8442, 84421A (2012)
- Yang, B., & Drahus, M.** Submillimeter Spectroscopic Observations of C/2009 P1 with the JCMT Telescope. In *LPI Contributions 1667: Proc. Asteroids, Comets, Meteors 2012*, 6322 (2012)
- Yelda, S., Ghez, A. M., **Lu, J. R., Do, T., Meyer, L., & Morris, M. R.** Adaptive Optics Observations of the Galactic Center Young Stars. *Proc. SPIE*, 8447, 84470A (2012)
- Yuan, T.-T., Kewley, L. J., Swinbank, A. M., & Richard, J.** The A2667 Giant Arc at $z = 1.03$: Evidence for Large-Scale Shocks at High Redshift. *ApJ*, 759, 66 (2012)
- Yun, M. S., et al., including **Morrison, G.** Deep 1.1 mm-Wavelength Imaging of the GOODS-S field by AzTEC/ASTE - II. Redshift Distribution and Nature of the Submillimetre Galaxy Population. *MNRAS*, 420, 957–985 (2012)
- Zahid, H. J., Bresolin, F., Kewley, L. J., Coil, A. L., & Davé, R.** The Metallicities of Low Stellar Mass Galaxies and the Scatter in the Mass-Metallicity Relation. *ApJ*, 750, 120 (2012)
- Zahid, H. J., Dima, G. I., Kewley, L. J., Erb, D. K., & Davé, R.** A Census of Oxygen in Star-Forming Galaxies: An Empirical Model Linking Metallicities, Star Formation Rates, and Outflows. *ApJ*, 757, 54 (2012)
- Zheng, W., et al., including **Flewelling, H.** Panchromatic Observations of the Textbook GRB 110205A: Constraining Physical Mechanisms of Prompt Emission and Afterglow. *ApJ*, 751, 90 (2012)
- Zurita, A., & **Bresolin, F.** The Chemical Abundance in M31 from H II Regions. *MNRAS*, 427, 1463–1481 (2012)