

## Contributions from the Department of Terrestrial Magnetism

2011-2012

(Updated through September 1, 2012)

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7026 Adam, J., T. Rushmer, J. O'Neil, and D. Francis, Hadean greenstones from the Nuvvuagittuq fold belt and the origin of the Earth's early continental crust, *Geology* 40, 363-366, 2012. [Link](#)  
[nk](#)

6997 Adams, E. R., M. López-Morales, J. L. Elliot, S. Seager, D. J. Osip, M. J. Holman, J. N. Winn, S. Hoyer, and P. Rojo, Twenty-one new light curves of OGLE-TR-56b: new system parameters and limits on timing variations, *Astrophys. J.* 741, 102, 2011. [Link](#)

7000 Albrecht, S., J. N. Winn, R. P. Butler, J. D. Crane, S. A. Shectman, I. B. Thompson, T. Hirano, and R. A. Wittenmyer, A high stellar obliquity in the WASP-7 exoplanetary system, *Astrophys. J.* 744, 189, 2012. [Link](#)

7072 Alexander, C. M. O'D., A common origin for organics in meteorites and comets: Was it interstellar? in *The Molecular Universe*, J. Cernicharo and R. Bachiller, eds., pp. 288-301, International Astronomical Union Symposium 280, Cambridge University Press, New York, 2011.

7075 Alexander, C. M. O'D., R. Bowden, M. L. Fogel, K. T. Howard, C. D. K. Herd, and L. R. Nittler, The provenances of asteroids, and their contributions to the volatile inventories of the terrestrial planets, *Science* 337, 721-723, 2012. [Link](#)

7063 Alexander, C. M. O'D., and D. S. Ebel, Questions, questions: Can the contradictions between the petrologic, isotopic, thermodynamic, and astrophysical constraints on chondrule formation be resolved? *Meteorit. Planet. Sci.* 47, 1157-1175, 2012. [Link](#)

6954 Anderson, B. J., C. L. Johnson, H. Korth, M. E. Purucker, R. M. Winslow, J. A. Slavin, S. C. Solomon, R. L. McNutt, Jr., J. M. Raines, and T. H. Zurbuchen, The global magnetic field of Mercury from MESSENGER orbital observations, *Science* 333, 1859-1862, 2011. [Link](#)

6981 Anderson, B. J., J. A. Slavin, H. Korth, S. A. Boardsen, T. H. Zurbuchen, J. M. Raines, G. Gloeckler, R. L. McNutt, Jr., and S. C. Solomon, The dayside magnetospheric boundary layer at Mercury, *Planet. Space Sci.* 59, 2037-2050, 2011. [Link](#)

7038 Anglada-Escudé, G., P. Arriagada, S. S. Vogt, E. J. Rivera, R. P. Butler, J. D. Crane, S. A. Shectman, I. B. Thompson, D. Minniti, N. Haghighipour, B. D. Carter, C. G. Tinney, R. A. Wittenmyer, J. A. Bailey, S. J. O'Toole, H. R. A. Jones, and J. S. Jenkins, A planetary system around the nearby M dwarf GJ 667C with at least one super-Earth in its habitable zone, *Astrophys. J. Lett.* 751, L16, 2012.  
[Link](#)

7033 Anglada-Escudé, G., A. P. Boss, A. J. Weinberger, I. B. Thompson, R. P. Butler, S. S. Vogt, and E. J. Rivera, Astrometry and radial velocities of the planet host M dwarf GJ 317: new trigonometric distance, metallicity, and upper limit to the mass of GJ 317b, *Astrophys. J.* 746, 37, 2012.  
[Link](#)

7052 Anglada-Escudé, G., and R. P. Butler, The HARPS-TERRA project. I. Description of the algorithms, performance, and new measurements on a few remarkable stars observed by

HARPS, *Astrophys. J. Suppl. Ser.* 200, 15, 2012. [Link](#)

7059 Anglada-Escudé, G., P. Plavchan, S. Mills, P. Gao, E. García-Berríos, N. S. Lewis, K. Sung, D. Ciardi, C. Beichman, C. Brinkworth, J. Johnson, C. Davison, R. White, and L. Prato, Design and construction of absorption cells for precision radial velocities in the *K* band using methane isotopologues, *Publ. Astron. Soc. Pacific* 124, 586-597, 2012.

[Link](#)

6977 Baker, D. M. H., J. W. Head, S. C. Schon, C. M. Ernst, L. M. Prockter, S. L. Murchie, B. W. Denevi, S. C. Solomon, and R. G. Strom, The transition from complex crater to peak-ring basin on Mercury: new observations from MESSENGER flyby data and constraints on basin formation models, *Planet. Space Sci.* 59, 1932-1948, 2011. [Link](#)

6983 Baker, D. N., D. Odstroil, B. J. Anderson, C. N. Arge, M. Benna, G. Gloeckler, H. Korth, L. R. Mayer, J. M. Raines, D. Schriver, J. A. Slavin, S. C. Solomon, P. Trávníček, and T. H. Zurbuchen, The space environment of Mercury at the times of the second and third MESSENGER flybys, *Planet. Space Sci.* 59, 2066-2074, 2011. [Link](#)

7084 Barnes, R., V. S. Meadows, S. D. Domagal-Goldman, R. Heller, B. Jackson, M. López-Morales, A. Tanner, N. Gómez-Pérez, and T. Ruedas, Habitability of planets orbiting cool stars, in *The 16th Cambridge Workshop on Cool Stars, Stellar Systems and the Sun*, C. M. Johns-Krull, M. K. Browning, and A. A. West, eds., pp. 391-402, Conference Series, Vol. 448, Astronomical Society of the Pacific, San Francisco, 2011.

7019 Black, B. A., L. T. Elkins-Tanton, M. C. Rowe, and I. U. Peate, Magnitude and consequences of volatile release from the Siberian Traps, *Earth Planet. Sci. Lett.* 317-318, 363-373, 2012.

[Link](#)

6953 Blewett, D. T., N. L. Chabot, B. W. Denevi, C. M. Ernst, J. W. Head, N. R. Izenberg, S. L. Murchie, S. C. Solomon, L. R. Nittler, T. J. McCoy, Z. Xiao, D. M. H. Baker, C. I. Fassett, S. E. Braden, J. Oberst, F. Scholten, F. Preusker, and D. M. Hurwitz, Hollows on Mercury:

MESSENGER evidence for geologically recent volatile-related activity, *Science* 333, 1856-1859, 2011. [Link](#)

6987 Bochanski, J. J., A. J. Burgasser, R. A. Simcoe, and A. A. West, FIRE spectroscopy of the ultra-cool brown dwarf, UGPS J072227.51–054031.2: kinematics, rotation and atmospheric parameters, *Astron. J.* 142, 169, 2011. [Link](#)

6946 Borg, L. E., J. E. Connelly, M. Boyet, and R. W. Carlson, Chronological evidence that the Moon is either young or did not have a global magma ocean, *Nature* 477, 70-72, 2011. [Link](#)

7009 Borucki, W. J., D. G. Koch, N. Batalha, S. T. Bryson, J. Rowe, F. Fressin, G. Torres, D. A. Caldwell, J. Christensen-Dalsgaard, W. D. Cochran, E. DeVore, T. N. Gautier, J. C. Geary, R. Gilliland, A. Gould, S. B. Howell, J. M. Jenkins, D. W. Latham, J. J. Lissauer, G. W. Marcy, D. Sasselov, A. Boss, D. Charbonneau, D. Ciardi, L. Kaltenegger, L. Doyle, A. K. Dupree, E. B. Ford, J. Fortney, M. J. Holman, J. H. Steffen, F. Mullally, M. Still, J. Tarter, S. Ballard, L. A. Buchhave, J. Carter, J. L. Christiansen, B.-O. Demory, J.-M. Désert, C. Dressing, M. Endl, D. Fabrycky, D. Fischer, M. R. Haas, C. Henze, E. Horch, A. W. Howard, H. Isaacson, H. Kjeldsen, J. A. Johnson, T. Klaus, J. Kolodziejczak, T. Barclay, J. Li, S. Meibom, A. Prsa, S. N. Quinn, E. V. Quintana, P. Robertson, W. Sherry, A. Shporer, P. Tenenbaum, S. E. Thompson, J. D. Twicken, J. Van Cleve, W. F. Welsh, S. Basu, W. Chaplin, A. Miglio, S. D. Kawaler, T. Arentoft, D. Stello, T. S. Metcalfe, G. A. Verner, C. Karoff, M. Lundkvist, M. N. Lund, R. Handberg, Y. Elsworth, S. Hekker, D. Huber, T. R. Bedding, and W. Rapin, Kepler-22b: a 2.4 Earth-radius planet in the habitable zone of a Sun-like star, *Astrophys. J.* 745, 120, 2012. [Link](#)

7048 Boss, A., *Uchū wa seimei de ippai [The Crowded Universe] (in Japanese)*, NTT Publishing Co., Tokyo, 275 pp., 2012.

6948 Boss, A. P., Evolution of the solar nebula. IX. Gradients in the spatial heterogeneity of the short-lived radioisotopes  $^{60}\text{Fe}$  and  $^{26}\text{Al}$  and the stable oxygen isotopes, *Astrophys. J.* 739, 61, 2011. [Link](#)

6969 Boss, A. P., A well-defined planet, *Science* 334, 1057, 2011. [Link](#)

7005 Boss, A. P., Giant planet formation by disk instability: flux-limited radiative diffusion and protostellar wobbles, *Mon. Not. Roy. Astron. Soc.* 419, 1930-1936, 2012. [Link](#)

7045 Boss, A. P., Mixing and transport of isotopic heterogeneity in the early Solar System, *Ann u. Rev. Earth Planet. Sci.* 40, 23-43, 2012.  
[Link](#)

7067 Boss, A. P., C. M. O'D. Alexander, and M. Podolak, Cosmochemical consequences of particle trajectories during FU Orionis outbursts by the early Sun, *Earth Planet. Sci. Lett.* 345-348, 18-26, 2012. [Link](#)

7050 Boss, A. P., D. M. Hudgins, and W. A. Traub, New Worlds, New Horizons and NASA's approach to the next decade of exoplanet discoveries, in *The Astrophysics of Planetary Systems: Formation, Structure, and Dynamical Evolution*, A. Sozzetti, M. G. Lattanzi, and A. P. Boss, eds., pp. 324-334, International Astronomical Union Symposium 276, Cambridge University Press, New York, 2011.

7068 Boss, A. P., and S. A. Keiser, Supernova-triggered molecular cloud core collapse and the Rayleigh-Taylor fingers that polluted the Solar Nebula, *Astrophys. J. Lett.* 756, L9, 2012. [Link](#)

7088 Boyajian, T. S., K. von Braun, G. van Belle, T. ten Brummelaar, D. Ciardi, T. Henry, M. López-Morales, H. McAlister, S. Ridgway, C. Farrington, P. J. Goldfinger, L. Sturmann, J. Sturmann, and N. Turner, Fundamental properties of cool stars with interferometry, in *The 16th Cambridge Workshop on Cool Stars, Stellar Systems and the Sun*, C. M. Johns-Krull, M. K. Browning, and A. A. West, eds., pp. E-811-E-818, Conference Series, Vol. 448, Astronomical Society of the Pacific, San Francisco, 2011.

6986 Bryson, K. L., Z. Peeters, F. Salama, B. Foing, P. Ehrenfreund, A. J. Ricco, E. Jessberger, A. Bischoff, M. Breitfellner, W. Schmidt, and F. Robert, The ORGANIC experiment on EXPOSE-R on the ISS: flight sample preparation and ground control spectroscopy, *Adv.*

*Space Res. 48*,  
1980-1996, 2011.

7016 Busemann, H., N. H. Spring, C. M. O'D. Alexander, and L. R. Nittler, Raman spectroscopy on cometary and meteoritic organic matter, *Spectrosc. Lett. 44*, 554-559, 2011.

7081 Byrne, P. K., B. van Wyk de Vries, J. B. Murray, and V. R. Troll, A volcanotectonic survey of Ascraeus Mons, Mars, *J. Geophys. Res. 117*, E01004, 10.1029/2011JE003825, 2012. [Link](#)

7041 Chabot, N. L., C. M. Ernst, B. W. Denevi, J. K. Harmon, S. L. Murchie, D. T. Blewett, S. C. Solomon, and E. D. Zhong, Areas of permanent shadow in Mercury's south polar region ascertained by MESSENGER orbital imaging, *Geophys. Res. Lett. 39*, L09204, 10.1029/2012GL051526, 2012.  
[Link](#)

7034 Chanamé, J., and I. Ramírez, Toward precise ages for single stars in the field. Gyrochronology constraints at several Gyr using wide binaries. I. Ages for initial sample, *Astrophys. J. 746*, 102, 2012.  
[Link](#)

6947 Chen, C. H., E. E. Mamajek, M. A. Bitner, M. Pecaut, K. Y. L. Su, and A. J. Weinberger, A Magellan MIKE and *Spitzer* MIPS study of 1.5-1.0  $M_{\text{solar}}$  stars in Scorpius-Centaurus, *Astrophys. J. 738*, 122, 2011.  
[Link](#)

6985 Cody, G. D., E. Heying, C. M. O'D. Alexander, L. R. Nittler, A. L. D. Kilcoyne, S. A. Sandford, and R. M. Stroud, Establishing a molecular relationship between chondritic and cometary organic solids, *Proc. Natl. Acad. Sci. USA 108*, 19171-19176, 2011. [Link](#)

7012 Collins, J. A., C. J. Wolfe, and G. Laske, Shear wave splitting at the Hawaiian hot spot

from the PLUME land and ocean bottom seismometer deployments, *Geochem. Geophys. Geosyst.* 13, Q02007, 10.1029/2011GC003881, 2012.

[Link](#)

7003 Coughlin, J. L., and M. López-Morales, A uniform search for secondary eclipses of hot Jupiters in *Kepler* Q2 light curves, *Astron. J.* 143, 39, 2012. [Link](#)

7035 Coughlin, J. L., and M. López-Morales, Modeling multi-wavelength stellar astrometry. III. Determination of the absolute masses of exoplanets and their host stars, *Astrophys. J.* 750, 100, 2012.

[Link](#)

7083 Coughlin, J. L., M. López-Morales, T. E. Harrison, N. Ule, and D. I. Hoffman, New low-mass eclipsing binaries from Kepler, in *The 16th Cambridge Workshop on Cool Stars, Stellar Systems and the Sun*, C. M. Johns-Krull, M. K. Browning, and A. A. West, eds., pp. 121-130, Conference Series, Vol. 448, Astronomical Society of the Pacific, San Francisco, 2011.

7015 Dahm, S. E., C. L. Slesnick, and R. J. White, A correlation between circumstellar disks and rotation in the Upper Scorpius OB Association, *Astrophys. J.* 745, 56, 2012. [Link](#)

6957 De Gregorio, B. T., R. M. Stroud, G. D. Cody, L. R. Nittler, A. L. D. Kilcoyne, and S. Wirick, Correlated microanalysis of cometary organic grains returned by Stardust, *Meteorit. Planet. Sci.* 46, 1376-1396, 2011.

[Link](#)

7061 Debes, J. H., M. Kilic, F. Faedi, E. L. Shkolnik, M. Lopez-Morales, A. J. Weinberger, C. Slesnick, and R. G. West, Detection of weak circumstellar gas around the DAZ white dwarf WD 1124-293: evidence for the accretion of multiple asteroids, *Astrophys. J.* 754, 59, 2012. [Link](#)

7028 Debes, J. H., K. J. Walsh, and C. Stark, The link between planetary systems, dusty white dwarfs, and metal-polluted white dwarfs, *Astrophys. J.* 747, 148, 2012. [Link](#)

7066 Deming, D., J. D. Fraine, P. V. Sada, N. Madhusudhan, H. A. Knutson, J. Harrington, J. Blečić, S. Nymeyer, A. M. S. Smith, and B. Jackson, Infrared eclipses of the strongly irradiated planet WASP-33b, and oscillations of its host star, *Astrophys. J.* 754, 106, 2012. [Link](#)

7042 Demory, B.-O., M. Gillon, S. Seager, B. Benneke, D. Deming, and B. Jackson, Detection of thermal emission from a super-Earth, *Astrophys. J. Lett.* 751, L28, 2012. [Link](#)

7064 Desch, S. J., M. A. Morris, H. C. Connolly, Jr., and A. P. Boss, The importance of experiments: constraints on chondrule formation models, *Meteorit. Planet. Sci.* 47, 1139-1156, 2012. [Link](#)

7051 Ding, X., E. M. Ripley, S. B. Shirey, and C. Li, Os, Nd, O and S isotope constraints on country rock contamination in the conduit-related Eagle Cu-Ni-(PGE) deposit, Midcontinent Rift System, upper Michigan, *Geochim. Cosmochim. Acta* 89, 10-30, 2012. [Link](#)

6949 Doyle, L. R., J. A. Carter, D. C. Fabrycky, R. W. Slawson, S. B. Howell, J. N. Winn, J. A. Orosz, A. Prsa, W. F. Welsh, S. N. Quinn, D. Latham, G. Torres, L. Buchhave, G. W. Marcy, J. J. Fortney, A. Shporer, E. B. Ford, J. J. Lissauer, D. Ragozzine, M. Rucker, N. Batalha, J. M. Jenkins, W. J. Borucki, D. Koch, C. K. Middour, J. R. Hall, S. McCauliff, M. N. Fanelli, E. V. Quintana, M. J. Holman, D. A. Caldwell, M. Still, R. P. Stefanik, W. R. Brown, G. A. Esquerdo, S. Tang, G. Furesz, J. C. Geary, P. Berlind, M. L. Calkins, D. R. Short, J. H. Steffen, D. Sasselov, E. W. Dunham, W. D. Cochran, A. Boss, M. R. Haas, D. Buzasi, and D. Fischer, Kepler-16: a transiting circumbinary planet, *Science* 333, 1602-1606, 2011. [Link](#)

7046 Eagar, K. C., and M. J. Fouch, FuncLab: a MATLAB interactive toolbox for handling receiver function datasets, *Seismol. Res. Lett.* 83, 596-603, 2012. [Link](#)

6972 Ebel, D. S., and C. M. O'D. Alexander, Equilibrium condensation from chondritic porous IDP enriched vapor: implications for Mercury and enstatite chondrite origins, *Planet. Space Sci.*

59,  
2011.

1888-1894,  
[Link](#)

7074 Elkins-Tanton, L. T., Magma oceans in the inner Solar System, *Annu. Rev. Earth Planet. Sci.* 40, 113-139, 2012. [Link](#)

7055 Faherty, J. K., A. J. Burgasser, F. M. Walter, N. Van der Bliet, M. M. Shara, K. L. Cruz, A. A. West, F. J. Vrba, and G. Anglada-Escudé, The Brown Dwarf Kinematics Project (BDKP). III. Parallaxes for 70 ultracool dwarfs, *Astrophys. J.* 752, 56, 2012. [Link](#)

7023 Fekel, F. C., M. J. Cordero, R. Galicher, B. Zuckerman, C. Melis, and A. J. Weinberger, Third component search and abundances of the very dusty short-period binary BD +20°307, *Astrophys. J.* 749, 7, 2012. [Link](#)

7036 Fouch, M. J., The Yellowstone hotspot: plume or not? *Geology* 40, 479-480, 2012. [Link](#)

7001 Gaillou, E., J. E. Post, D. Rost, and J. E. Butler, Boron in natural type IIb blue diamonds: chemical and spectroscopic measurements, *Am. Mineral.* 97, 1-18, 2012. [Link](#)

6994 Gallego, A., M. P. Panning, R. M. Russo, D. Comte, V. I. Mocanu, R. E. Murdie, and J. C. Vandecar, Azimuthal anisotropy in the Chile Ridge subduction region retrieved from ambient noise, *Lithosphere* 3, 393-400, 2011. [Link](#)

6967 García-Melendo, E., and M. López-Morales, Potential biases in the detection of planetary systems with large transit timing variations, *Mon. Not. Roy. Astron. Soc.* 417, L16-L20, 2011. [Link](#)

7062 Grundy, W. M., S. D. Benecchi, D. L. Rabinowitz, S. B. Porter, L. H. Wasserman, B. A. Skiff, K. S. Noll, A. J. Verbiscer, M. W. Buie, S. W. Tourtellotte, D. C. Stephens, and H. F. Levison, Mutual events in the Cold Classical transneptunian binary system Sila and Nunam, *Icarus* 220, 74-83, 2012.

[Link](#)

7090 Haghhighipour, N., R. P. Butler, E. J. Rivera, G. W. Henry, and S. S. Vogt, The Lick-Carnegie Survey: a new two-planet system around the star HD 207832, *Astrophys. J.* 756, 91, 2012.

[Link](#)

7029 Hahm, D., D. R. Hilton, P. R. Castillo, J. W. Hawkins, B. B. Hanan, and E. H. Hauri, An overview of the volatile systematics of the Lau Basin--resolving the effects of source variation, magmatic degassing and crustal contamination, *Geochim. Cosmochim. Acta* 85, 88-113, 2012.

[Link](#)

7013 Hanson-Hedgecock, S., L. S. Wagner, M. J. Fouch, and D. E. James, Constraints on the causes of mid-Miocene volcanism in the Pacific Northwest US from ambient noise tomography, *Geophys. Res. Lett.* 39, L05301, 10.1029/2012GL051108, 2012.

[Link](#)

6952 Head, J. W., C. R. Chapman, R.G. Strom, C. I. Fassett, B. W. Denevi, D. T. Blewett, C. M. Ernst, T. R. Watters, S. C. Solomon, S. L. Murchie, L. M. Prockter, N. L. Chabot, J. J. Gillis-Davis, J. L. Whitten, T. A. Goudge, D. M. H. Baker, D. M. Hurwitz, L. R. Ostrach, Z. Xiao, W. J. Merline, L. Kerber, J. L. Dickson, J. Oberst, P. K. Byrne, C. Klimczak, and L. R. Nittler, Flood volcanism in the northern high latitudes of Mercury revealed by MESSENGER, *Science* 333, 1853-1856, 2011.

[Link](#)

6956 Ho, G. C., S. M. Krimigis, R. E. Gold, D.N. Baker, J. A. Slavin, B. J. Anderson, H. Korth, R. D. Starr, D. J. Lawrence, R. L. McNutt, Jr., and S. C. Solomon, MESSENGER observations of transient bursts of energetic electrons in Mercury's magnetosphere, *Science* 333, 1865-1868, 2011.

[Link](#)

6980 Ho, G. C., R. D. Starr, R. E. Gold, S. M. Krimigis, J. A. Slavin, D. N. Baker, B. J. Anderson, R. L. McNutt, Jr., L. R. Nittler, and S. C. Solomon, Observations of suprathermal electrons in Mercury's magnetosphere during the three MESSENGER flybys, *Planet. Space Sci.* 59, 2016-2025, 2011. [Link](#)

7027 Howard, A. W., G. Á. Bakos, J. Hartman, G. Torres, A. Shporer, T. Mazeh, G. Kovács, D. W. Latham, R. W. Noyes, D. A. Fischer, J. A. Johnson, G. W. Marcy, G. A. Esquerdo, B. Béky, R. P. Butler, D. D. Sasselov, R. P. Stefanik, G. Perumpilly, J. Lázár, I. Papp, and P. Sári, HAT-P-17b,c: a transiting, eccentric, hot Saturn and a long-period, cold Jupiter, *Astrophys. J.* 749, 134, 2012. [Link](#)

7073 Howard, A. W., G. W. Marcy, S. T. Bryson, J. M. Jenkins, J. F. Rowe, N. M. Batalha, W. J. Borucki, D. G. Koch, E. W. Dunham, T. N. Gautier III, J. Van Cleve, W. D. Cochran, D. W. Latham, J. J. Lissauer, G. Torres, T. M. Brown, R. L. Gilliland, L. A. Buchhave, D. A. Caldwell, J. Christensen-Dalsgaard, D. Ciardi, F. Fressin, M. R. Haas, S. B. Howell, H. Kjeldsen, S. Seager, L. Rogers, D. D. Sasselov, J. H. Steffen, G. S. Basri, D. Charbonneau, J. Christiansen, B. Clarke, A. Dupree, D. C. Fabrycky, D. A. Fischer, E. B. Ford, J. J. Fortney, J. Tarter, F. R. Girouard, M. J. Holman, J. A. Johnson, T. C. Klaus, P. Machalek, A. V. Moorhead, R. C. Morehead, D. Ragozzine, P. Tenenbaum, J. D. Twicken, S. N. Quinn, H. Isaacson, A. Shporer, P. W. Lucas, L. M. Walkowicz, W. F. Welsh, A. Boss, E. Devore, A. Gould, J. C. Smith, R. L. Morris, A. Prsa, T. D. Morton, M. Still, S. E. Thompson, F. Mullally, M. Endl, and P. J. MacQueen, Planet occurrence within 0.25 AU of solar-type stars from *Kepler*, *Astrophys. J. Suppl. Ser.* 201, 15, 2012. [Link](#)

7087 Hoyer, S., P. Rojo, and M. López-Morales, Transit Monitoring in the South (TraMoS) project: discarding transit timing variations in WASP-5b, *Astrophys. J.* 748, 22, 2012. [Link](#)

7043 Jackson, B. K., N. K. Lewis, J. W. Barnes, L. D. Deming, A. P. Showman, and J. J. Fortney, The EVIL-MC model for ellipsoidal variations of planet-hosting stars and applications to the HAT-P-7 system, *Astrophys. J.* 751, 112, 2012. [Link](#)

7054 Jackson, M. G., and R. W. Carlson, Homogeneous superchondritic  $^{142}\text{Nd}/^{144}\text{Nd}$  in the mid-ocean ridge basalt and ocean island basalt mantle, *Geochem. Geophys. Geosyst.* 13, Q06011, 10.1029/2012GC004114, 2012.

[Link](#)

6995 Jackson, M. G., and S. B. Shirey, Re-Os isotope systematics in Samoan shield lavas and the use of Os-isotopes in olivine phenocrysts to determine primary magmatic compositions, *Earth Planet. Sci. Lett.* 312, 91-101, 2011.

[Link](#)

6998 James, D. E., M. J. Fouch, R. W. Carlson, and J. B. Roth, Slab fragmentation, edge flow and the origin of the Yellowstone hotspot track, *Earth Planet. Sci. Lett.* 311, 124-135, 2011. [Link](#)

7053 Jenner, F. E., R. J. Arculus, J. A. Mavrogenes, N. J. Dyriw, O. Nebel, and E. H. Hauri, Chalcophile element systematics in volcanic glasses from the northwestern Lau Basin, *Geochem. Geophys. Geosyst.* 13, Q06014, 10.1029/2012GC004088, 2012.

[Link](#)

7008 Jenner, F. E., and H. St.C. O'Neill, Analysis of 60 elements in 616 ocean floor basaltic glasses, *Geochem. Geophys. Geosyst.* 13, Q02005, 10.1029/2011GC004009, 2012. [Link](#)

7017 Jenner, F. E., and H. St.C. O'Neill, Major and trace analysis of basaltic glasses by laser-ablation ICP-MS, *Geochem. Geophys. Geosyst.* 13, Q03003, 10.1029/2011GC003890, 2012. [Link](#)

6996 Johnston, M. D., M. D. Long, and P. G. Silver, State of stress and age offsets at oceanic fracture zones and implications for the initiation of subduction, *Tectonophysics* 512, 47-59, 2011.

7060 Kafka, S., Forecasting life: a study of activity cycles in low-mass stars, *Origins Life Evol. Biospheres* 42, 143-152, 2012.

[Link](#)

7082 Kafka, S., Challenges to observations of low mass binaries, in *From Interacting Binaries to Exoplanets: Essential Modeling Tools*, M. T. Richard and I. Hubeny, eds., pp. 99-104, International Astronomical Union Symposium 282, Cambridge University Press, New York, 2011.

7086 Kafka, S., Cataclysmic variables as supernova Ia progenitors, *J. Astron. Space Sci.* 29, 163-167, 2012.

[Link](#)

7069 Kafka, S., R. K. Honeycutt, and R. Williams, QU Carinae: type Ia supernova in the making? *Mon. Not. Roy. Astron. Soc.* 425, 1585-1590, 2012. [Link](#)

6973 Kerber, L., J. W. Head, D. T. Blewett, S. C. Solomon, L. Wilson, S. L. Murchie, M. S. Robinson, B. W. Denevi, and D. L. Domingue, The global distribution of pyroclastic deposits on Mercury: the view from MESSENGER flybys 1-3, *Planet. Space Sci.* 59, 1895-1909, 2011. [Link](#)

7040 Klawonn, M., C. J. Wolfe, L. N. Frazer, and B. F. Houghton, Novel inversion approach to constrain plume sedimentation from tephra deposit data: application to the 17 June 1996 eruption of Ruapehu volcano, New Zealand, *J. Geophys. Res.* 117, B05205, 10.1029/2011JB008767, 2012.

[Link](#)

6991 Korth, H., B. J. Anderson, J. M. Raines, J. A. Slavin, T. H. Zurbuchen, C. L. Johnson, M. E. Purucker, R. M. Winslow, S. C. Solomon, and R. L. McNutt, Jr., Plasma pressure in Mercury's equatorial magnetosphere derived from MESSENGER Magnetometer observations, *Geophys. Res. Lett.* 38, L22201, 10.1029/2011GL049451, 2011.

[Link](#)

6984 Korth, H., B. J. Anderson, T. H. Zurbuchen, J. A. Slavin, S. Perri, S. A. Boardsen, D. N. Baker, S. C. Solomon, and R. L. McNutt, Jr., The interplanetary magnetic field environment at Mercury's orbit, *Planet. Space Sci.* 59, 2075-2085, 2011. [Link](#)

6989 Laske, G., A. Markee, J. A. Orcutt, C. J. Wolfe, J. A. Collins, S. C. Solomon, R. S. Detrick, D. Bercovici, and E. H. Hauri, Asymmetric shallow mantle structure beneath the Hawaiian Swell--evidence from Rayleigh waves recorded by the PLUME network, *Geophys. J. Int.* 187, 1725-1742, 2011. [Link](#)

6962 Lawrence, D. J., J. K. Harmon, W. C. Feldman, J. O. Goldsten, D. A. Paige, P. N. Peplowski, E. A. Rhodes, C. M. Selby, and S. C. Solomon, Predictions of MESSENGER Neutron Spectrometer measurements for Mercury's north polar region, *Planet. Space Sci.* 59, 1665-1669, 2011. [Link](#)

7076 Lee, M. R., P. Lindgren, M. R. Sofo, C. M. O'D. Alexander, and J. Wang, Extended chronologies of aqueous alteration in the CM2 carbonaceous chondrites: evidence from carbonates in Queen Alexandra Range 93005, *Geochim. Cosmochim. Acta* 92, 148-169, 2012. [Link](#)

7006 Lissauer, J. J., J. W. Barnes, and J. E. Chambers, Obliquity variations of a moonless Earth, *Icarus* 217, 77-87, 2012. [Link](#)

7070 Lockridge, J. S., M. J. Fouch, and J. R. Arrowsmith, Seismicity within Arizona during the deployment of the EarthScope USArray Transportable Array, *Bull. Seismol. Soc. Am.* 102, 1850-1863, 2012. [Link](#)

7089 López-Morales, M., Exoplanet atmospheres: a brand-new and rapidly expanding research field, in *Highlights of Spanish Astrophysics VI*, M. R. Zapatero Osorio et al., eds., pp.

60-72, Sociedad Española de Astronomía, Barcelona, 2011.

[Link](#)

7025 López-Morales, M., N. Gómez-Pérez, and T. Ruedas, Magnetic fields in Earth-like exoplanets and implications for habitability around M-dwarfs, *Origins Life Evol. Biospheres* 61, 533-537, 2011.

[Link](#)

6990 MacPherson, G. J., and A. Boss, Cosmochemical evidence for astrophysical processes during the formation of our solar system, *Proc. Natl. Acad. Sci. USA* 108, 19152-19158, 2011.

[Link](#)

6959 Mao, Z., S. D. Jacobsen, D. J. Frost, C. A. McCammon, E. H. Hauri, and T. S. Duffy, Effect of hydration on the single-crystal elasticity of Fe-bearing wadsleyite to 12 GPa, *Am. Mineral.* 96, 1606-1612, 2011.

[Link](#)

7091 Mao, Z., J.-F. Lin, S. D. Jacobsen, T. S. Duffy, Y.-Y. Chang, J. R. Smyth, D. J. Frost, E. H. Hauri, and V. B. Prakapenka, Sound velocities of hydrous ringwoodite to 16 GPa and 673 K, *Earth Planet. Sci. Lett.* 331-332, 112-119, 2012.

[Link](#)

7077 McCubbin, F. M., E. H. Hauri, S. M. Elardo, K. E. Vander Kaaden, J. Wang, and C. K. Shearer, Jr., Hydrous melting of the martian mantle produced both depleted and enriched shergottites, *Geology* 40, 683-686, 2012. [Link](#)

7020 Mloszewska, A. M., E. Pecoits, N. L. Cates, S. J. Mojzsis, J. O'Neil, L. J. Robbins, and K. O. Konhauser, The composition of Earth's oldest iron formations: the Nuvvuagittuq Supracrustal Belt (Québec, Canada), *Earth Planet. Sci. Lett.* 317-318, 331-342, 2012. [Link](#)

7071 Nelson, W. R., T. Furman, P. E. van Keken, S. B. Shirey, and B. B. Hanan, Os-Hf isotopic insight into mantle plume dynamics beneath the East African Rift System, *Chem. Geol.* 320–321, 66-79, 2012.

[Link](#)

7030 Nielsen, E. L., M. C. Liu, Z. Wahhaj, B. A. Biller, T. L. Hayward, A. Boss, B. Bowler, A. Kraus, E. L. Shkolnik, M. Tecza, M. Chun, F. Clarke, L. M. Close, C. Ftaclas, M. Hartung, J. R. Males, I. N. Reid, A. J. Skemer, S. H. P. Alencar, A. Burrows, E. de Gouveia Dal Pino, J. Gregorio-Hetem, M. Kuchner, N. Thatte, and D. W. Toomey, The Gemini NICI Planet-Finding Campaign: discovery of a multiple system orbiting the young A star HD 1160, *Astrophys. J.* 750, 53, 2012.

[Link](#)

6950 Nittler, L. R., R. D. Starr, S. Z. Weider, T. J. McCoy, W. V. Boynton, D. S. Ebel, C. M. Ernst, L. G. Evans, J. O. Goldsten, D. K. Hamara, D. J. Lawrence, R. L. McNutt, Jr., C. E. Schlemm II, S. C. Solomon, and A. L. Sprague, The major-element composition of Mercury's surface from MESSENGER X-ray spectrometry, *Science* 333, 1847-1850, 2011. [Link](#)

6975 Oberst, J., S. Elgner, F. S. Turner, M. E. Perry, R. W. Gaskell, M. T. Zuber, M. S. Robinson, and S. C. Solomon, Radius and limb topography of Mercury obtained from images acquired during the MESSENGER flybys, *Planet. Space Sci.* 59, 1918-1924, 2011. [Link](#)

7037 Pavlis, G. L., K. Sigloch, S. Burdick, M. J. Fouch, and F. L. Vernon, Unraveling the geometry of the Farallon plate: synthesis of three-dimensional imaging results from USArray, *Tectonophysics* 532, 82-102, 2012.

7044 Penev, K., B. Jackson, F. Spada, and N. Thom, Constraining tidal dissipation in stars from the destruction rates of exoplanets, *Astrophys. J.* 751, 96, 2012. [Link](#)

6961 Peplowski, P. N., D. T. Blewett, B. W. Denevi, L. G. Evans, D. J. Lawrence, L. R. Nittler, E. A. Rhodes, C. M. Selby, and S. C. Solomon, Mapping iron abundances on the surface of Mercury: predicted spatial resolution of the MESSENGER Gamma-Ray Spectrometer, *Planet.*

*Space Sci.* 59,  
1654-1658, 2011.

[Link](#)

6951 Peplowski, P. N., L. G. Evans, S. A. Hauck II, T. J. McCoy, W. V. Boynton, J. J. Gillis-Davis, D. S. Ebel, J. O. Goldsten, D. K. Hamara, D. J. Lawrence, R. L. McNutt, Jr., L. R. Nittler, S. C. Solomon, E. A. Rhodes, A. L. Sprague, R. D. Starr, and K. R. Stockstill-Cahill, Radioactive elements on Mercury's surface from MESSENGER: implications for the planet's formation and evolution, *Science* 333, 1850-1852, 2011. [Link](#)

6976 Perry, M. E., D. S. Kahan, O. S. Barnouin, C. M. Ernst, S. C. Solomon, M. T. Zuber, D. E. Smith, R. J. Phillips, D. K. Srinivasan, J. Oberst, and S. W. Asmar, Measurement of the radius of Mercury by radio occultation during the MESSENGER flybys, *Planet. Space Sci.* 59, 1925-1931, 2011.

[Link](#)

6974 Preusker, F., J. Oberst, J. W. Head, T. R. Watters, M. S. Robinson, M. T. Zuber, and S. C. Solomon, Stereo topographic models of Mercury after three MESSENGER flybys, *Planet. Space Sci.* 59, 1910-1917, 2011.

[Link](#)

6968 Qin, L., R. W. Carlson, and C. M. O'D. Alexander, Correlated nucleosynthetic isotopic variability in Cr, Sr, Ba, Sm, Nd and Hf in Murchison and QUE 97008, *Geochim. Cosmochim. Acta* 75, 7806-7828, 2011. [Link](#)

6992 Reddy, V., J. M. Carvano, D. Lazzaro, T. A. Michtchenko, M. J. Gaffey, M. S. Kelley, T. Mothé-Diniz, A. Alvarez-Candal, N. A. Moskovitz, E. A. Cloutis, and E. L. Ryan, Mineralogical characterization of Baptistina Asteroid Family: implications for K/T impactor source, *Icarus* 216, 184-197, 2011.

[Link](#)

7007 Reddy, V., J. A. Sanchez, A. Nathues, N. A. Moskovitz, J.-Y. Li, E. A. Cloutis, K. Archer,

R. A. Tucker, M. J. Gaffey, J. P. Mann, H. Sierks, and U. Schade, Photometric, spectral phase and temperature effects on 4 Vesta and HED meteorites: implications for the Dawn mission, *Icarus* 217, 153-168, 2012.

[Link](#)

6971 Rhodes, E. A., L. G. Evans, L. R. Nittler, R. D. Starr, A. L. Sprague, D. J. Lawrence, T. J. McCoy, K. R. Stockstill-Cahill, J. O. Goldsten, P. N. Peplowski, D. K. Hamara, W. V. Boynton, and S. C. Solomon, Analysis of MESSENGER Gamma-Ray Spectrometer data from the Mercury flybys, *Planet. Space Sci.* 59, 1829-1841, 2011. [Link](#)

6963 Ribeiro, T., R. Baptista, and S. Kafka, V405 Andromeda revisited, *Astron. J.* 142, 106, 2011.

[Link](#)

7085 Rice, E. L., J. K. Faherty, K. Cruz, T. Barman, D. Looper, L. Malo, E. E. Mamajek, S. Metchev, and E. L. Shkolnik, Juvenile ultracool dwarfs, in *The 16th Cambridge Workshop on Cool Stars, Stellar Systems and the Sun*, C. M. Johns-Krull, M. K. Browning, and A. A. West, eds., pp. 481-492, Conference Series, Vol. 448, Astronomical Society of the Pacific, San Francisco, 2011.

7047 Rodler, F., M. López-Morales, and I. Ribas, Weighing the non-transiting hot Jupiter  $\tau$  Boo b, *Astrophys. J. Lett.* 753, L25, 2012. [Link](#)

7018 Schmerr, N., The Gutenberg discontinuity: melt at the lithosphere-asthenosphere boundary, *Science* 335, 1480-1483, 2012. [Link](#)

6999 Schmerr, N., and C. Thomas, Subducted lithosphere beneath the Kuriles from migration of PP precursors, *Earth Planet. Sci. Lett.* 311, 101-111, 2011. [Link](#)

6978 Schon, S. C., J. W. Head, D. M. H. Baker, C. M. Ernst, L. M. Prockter, S. L. Murchie, and S. C. Solomon, Eminescu impact structure: insight into the transition from complex crater to

peak-ring basin on Mercury, *Planet. Space Sci.* 59, 1949-1959, 2011. [Link](#)

6993 Schriver, D., P. M. Trávníček, B. J. Anderson, M. Ashour-Abdalla, D. N. Baker, M. Benna, S. A. Boardsen, R. E. Gold, P. Hellinger, G. C. Ho, H. Korth, S. M. Krimigis, R. L. McNutt, Jr., J. M. Raines, R. L. Richard, J. A. Slavin, S. C. Solomon, R. D. Starr, and T. H. Zurbuchen, Quasi-trapped ion and electron populations at Mercury, *Geophys. Res. Lett.* 38, L23103, 10.1029/2011GL049629, 2011.

[Link](#)

7011 Shaw, A. M., E. H. Hauri, M. D. Behn, D. R. Hilton, C. G. Macpherson, and J. M. Sinton, Long-term preservation of slab signatures in the mantle inferred from hydrogen isotopes, *Nature Geosci.* 5, 224-228, 2012.

[Link](#)

7014 Sheppard, S. S., D. Ragozzine, and C. Trujillo, 2007 TY430: a cold classical Kuiper Belt binary in the Plutino population, *Astron. J.* 143, 58, 2012. [Link](#)

6964 Sheppard, S. S., A. Udalski, C. Trujillo, M. Kubiak, G. Pietrzynski, R. Poleski, I. Soszynski, M. K. Szymański, and K. Ulaczyk, A southern sky and Galactic plane survey for bright Kuiper belt objects, *Astron. J.* 142, 98, 2011. [Link](#)

7002 Simon, T. A., W. A. Ward, Jr., and A. P. Boss, Performance analysis of Intel multiprocessors using astrophysics simulations, *Concurr. Comput.: Pract. Exp.* 24, 155-166, 2012.

7004 Slavin, J. A., B. J. Anderson, D. N. Baker, M. Benna, S. A. Boardsen, R. E. Gold, G. C. Ho, S. M. Imber, H. Korth, S. M. Krimigis, R. L. McNutt, Jr., J. M. Raines, M. Sarantos, D. Schriver, S. C. Solomon, P. Trávníček, and T. H. Zurbuchen, MESSENGER and Mariner 10 flyby observations of magnetotail structure and dynamics at Mercury, *J. Geophys. Res.* 117, A01215, 10.1029/2011JA016900, 2012.

[Link](#)

7021 Smith, D. E., M. T. Zuber, R. J. Phillips, S. C. Solomon, S. A. Hauck II, F. G. Lemoine, E. Mazarico, G. A. Neumann, S. J. Peale, J.-L. Margot, C. L. Johnson, M. H. Torrence, M. E. Perry, D. D. Rowlands, S. Goossens, J. W. Head, and A. H. Taylor, Gravity field and internal structure of Mercury from MESSENGER, *Science* 336, 214-217, 2012. [Link](#)

6970 Solomon, S. C., A new look at the planet Mercury (in Japanese), *Parity* 26 (no. 11), 4-12, 2011.

7049 Sozzetti, A., M. G. Lattanzi, and A. P. Boss, eds., *The Astrophysics of Planetary Systems: Formation, Structure, and Dynamical Evolution*, International Astronomical Union Symposium 276, Cambridge University Press, New York, 563 pp., 2011.

6965 Stark, C. C., The transit light curve of an exozodiacal dust cloud, *Astron. J.* 142, 123, 2011.

[Link](#)

[Li](#)

7080 Starr, R. D., D. Schriver, L. R. Nittler, S. Z. Weider, P. K. Byrne, G. C. Ho, E. A. Rhodes, C. E. Schlemm II, S. C. Solomon, and P. M. Trávníček, MESSENGER detection of electron-induced X-ray fluorescence from Mercury's surface, *J. Geophys. Res.* 117, E00L02, 10.1029/2012JE004118, 2012.

[Link](#)

7056 Steele, A., F. M. McCubbin, M. Fries, L. Kater, N. Z. Boctor, M. L. Fogel, P. G. Conrad, M. Glamoclija, M. Spencer, A. L. Morrow, M. R. Hammond, R. N. Zare, E. P. Vicenzi, S. Siljeström, R. Bowden, C. D. K. Herd, B. O. Mysen, S. B. Shirey, H. E. F. Amundsen, A. H. Treiman, E. S. Bullock, and A. J. T. Jull, A reduced organic carbon component in martian basalts, *Science* 337, 212-215, 2012. [Link](#)

7039 Steffen, J. H., D. Ragozzine, D. C. Fabrycky, J. A. Carter, E. B. Ford, M. J. Holman, J. F. Rowe, W. F. Welsh, W. J. Borucki, A. P. Boss, D. R. Ciardi, and S. N. Quinn, Kepler constraints on planets near hot Jupiters, *Proc. Natl. Acad. Sci. USA* 109, 7982-7987, 2012. [Link](#)

6979 Strom, R. G., M. E. Banks, C. R. Chapman, C. I. Fassett, J. A. Forde, J. W. Head III, W. J. Merline, L. M. Prockter, and S. C. Solomon, Mercury crater statistics from MESSENGER flybys: implications for stratigraphy and resurfacing history, *Planet. Space Sci.* 59, 1960-1967, 2011. [Link](#)

7079 Suckale, J., L. T. Elkins-Tanton, and J. A. Sethian, Crystals stirred up: 2. Numerical insights into the formation of the earliest crust on the Moon, *J. Geophys. Res.* 117, E08005, 10.1029/2012JE004067, 2012. [Link](#)

7078 Suckale, J., J. A. Sethian, J.-D. Yu, and L. T. Elkins-Tanton, Crystals stirred up: 1. Direct numerical simulations of crystal settling in non-dilute magmatic suspensions, *J. Geophys. Res.* 117, E08004, 10.1029/2012JE004066, 2012. [Link](#)

7032 Sundberg, T., S. A. Boardsen, J. A. Slavin, B. J. Anderson, H. Korth, T. H. Zurbuchen, J. M. Raines, and S. C. Solomon, MESSENGER orbital observations of large-amplitude Kelvin-Helmholtz waves at Mercury's magnetopause, *J. Geophys. Res.* 117, A04216, 10.1029/2011JA017268, 2012. [Link](#)

6982 Sundberg, T., S. A. Boardsen, J. A. Slavin, L. G. Blomberg, J. A. Cumnock, S. C. Solomon, B. J. Anderson, and H. Korth, Reconstruction of propagating Kelvin-Helmholtz vortices at Mercury's magnetopause, *Planet. Space Sci.* 59, 2051-2057, 2011. [Link](#)

7065 Vogt, S. S., R. P. Butler, and N. Haghighipour, GJ 581 update: additional evidence for a Super-Earth in the habitable zone, *Astron. Nachr.* 333, 561-575, 2012.

7057 von Braun, K., T. S. Boyajian, S. R. Kane, L. Hebb, G. T. van Belle, C. Farrington, D. R. Ciardi, H. A. Knutson, T. A. ten Brummelaar, M. López-Morales, H. A. McAlister, G. Schaefer, S. Ridgway, A. C. Cameron, P. J. Goldfinger, N. H. Turner, L. Sturmann, and J. Sturmann, The GJ 436 system: directly determined astrophysical parameters of an M dwarf and implications for the transiting hot Neptune, *Astrophys. J.* 753, 171, 2012. [Link](#)

6960 von Braun, K., T. S. Boyajian, T. A. ten Brummelaar, S. R. Kane, G. T. van Belle, D. R. Ciardi, S. N. Raymond, M. López-Morales, H. A. McAlister, G. Schaefer, S. T. Ridgway, L. Sturmann, J. Sturmann, R. White, N. H. Turner, C. Farrington, and P. J. Goldfinger, 55 Cancri: stellar astrophysical parameters, a planet in the habitable zone, and implications for the radius of a transiting super-Earth, *Astrophys. J.* 740, 49, 2011. [Link](#)

6958 Walter, M. J., S. C. Kohn, D. Araujo, G. P. Bulanova, C. B. Smith, E. Gaillou, J. Wang, A. Steele, and S. B. Shirey, Deep mantle cycling of oceanic crust: evidence from diamonds and their mineral inclusions, *Science* 334, 54-57, 2011. [Link](#)

7010 Weider, S. Z., B. J. Kellett, B. M. Swinyard, I. A. Crawford, K. H. Joy, M. Grande, C. J. Howe, J. Huvelin, S. Narendranath, L. Alha, M. Anand, P. S. Athiray, N. Bhandari, J. A. Carter, A. C. Cook, L. C. d'Uston, V. A. Fernandes, O. Gasnault, J. N. Goswami, J. P. D. Gow, A. D. Holland, D. Koschny, D. J. Lawrence, B. J. Maddison, S. Maurice, D. J. McKay, T. Okada, C. Pieters, D. A. Rothery, S. S. Russell, A. Shrivastava, D. R. Smith, and M. Wieczorek, The Chandrayaan-1 X-ray Spectrometer: first results, *Planet. Space Sci.* 60, 217-228, 2012. [Link](#)

6966 Weider, S. Z., B. M. Swinyard, B. J. Kellett, C. J. Howe, K. H. Joy, I. A. Crawford, J. Gow, and D. R. Smith, Planetary X-ray fluorescence analogue laboratory experiments and an elemental abundance algorithm for C1XS, *Planet. Space Sci.* 59, 1393-1407, 2011. [Link](#)

6988 Winn, J. N., S. Albrecht, J. A. Johnson, G. Torres, W. D. Cochran, G. W. Marcy, A. W. Howard, H. Isaacson, D. Fischer, L. Doyle, W. Welsh, J. A. Carter, D. C. Fabrycky, D. Ragozzine, S. N. Quinn, A. Shporer, S. B. Howell, D. W. Latham, J. Orosz, A. Prsa, R. W. Slawson, W. J. Borucki, D. Koch, T. Barclay, A. P. Boss, J. Christensen-Dalsgaard, F. R. Girouard, J. Jenkins, T. C. Klaus, S. Meibom, R. L. Morris, D. Sasselov, M. Still, and J. Van Cleve, Spin-orbit alignment for the circumbinary planet host Kepler-16 A, *Astrophys. J. Lett.* 741, L1, 2011. [Link](#)

7031 Winslow, R. M., C. L. Johnson, B. J. Anderson, H. Korth, J. A. Slavin, M. E. Purucker, and S. C. Solomon, Observations of Mercury's northern cusp region with MESSENGER's Magnetometer, *Geophys. Res. Lett.* 39, L08112, 10.1029/2012GL051472, 2012. [Link](#)

7058 Wittenmyer, R. A., J. Horner, M. Tuomi, G. S. Salter, C. G. Tinney, R. P. Butler, H. R. A. Jones, S. J. O'Toole, J. Bailey, B. D. Carter, J. S. Jenkins, Z. Zhang, S. S. Vogt, and E. J. Rivera, The Anglo-Australian Planet Search. XXII. Two new multi-planet systems, *Astrophys. J.* 753, 169, 2012. [ink](#) [L](#)

7024 Ye, Y., D. A. Brown, J. R. Smyth, W. R. Panero, S. D. Jacobsen, Y.-Y. Chang, J. P. Townsend, S.-M. Thomas, E. H. Hauri, P. Dera, and D. J. Frost, Compressibility and thermal expansion of hydrous ringwoodite with 2.5(3) wt% H<sub>2</sub>O, *Am. Mineral.* 97, 573-582, 2012. [Link](#)

7022 Zuber, M. T., D. E. Smith, R. J. Phillips, S. C. Solomon, G. A. Neumann, S. A. Hauck II, S. J. Peale, O. S. Barnouin, J. W. Head, C. L. Johnson, F. G. Lemoine, E. Mazarico, X. L. Sun, M. H. Torrence, A. M. Freed, C. Klimczak, J.-L. Margot, J. Oberst, M. E. Perry, R. L. McNutt, Jr., J. A. Balcerski, N. Michel, M. J. Talpe, and D. Yang, Topography of the northern hemisphere of Mercury from MESSENGER laser altimetry, *Science* 336, 217-220, 2012. [Link](#)

6955 Zurbuchen, T. H., J. M. Raines, J. A. Slavin, D. J. Gershman, J. A. Gilbert, G. Gloeckler, B. J. Anderson, D. N. Baker, H. Korth, S. M. Krimigis, M. Sarantos, D. Schriver, R. L. McNutt, Jr., and S. C. Solomon, MESSENGER observations of the spatial distribution of planetary ions near Mercury, *Science* 333, 1862-1865, 2011. [Link](#)