Max-Planck-Institut für Sonnensystemforschung

Max Planck Institute for Solar System Research

Referierte Publikationen 2012

Refereed Publications 2012

Refereed Publications 2012

(bold: affiliated to MPS)

Total: 249

A'Hearn, M. F., L. M. Feaga, H. U. Keller, H. Kawakita, D. L. Hampton, ***J. Kissel****, K. P. Klaasen, L. A. McFadden, K. J. Meech, P. H. Schultz, J. M. Sunshine, P. C. Thomas, J. Veverka, D. K. Yeomans, S. Besse, D. Bodewits, T. L. Farnham, O. Groussin, M. S. Kelley, C. M. Lisse, F. Merlin, S. Protopapa1 and D. D. Wellnitz*, Cometary Volatiles and the Origin of Comets, Astrophys. J., 758, 29, doi:10.1088/0004-637X/758/1/29, 2012.

Alexandrova, A., R.Nakamura, V. S. Semenov, I. V. Kubyshkin, S. Apatenkov, E. V. Panov, D. Korovinskiy, H. Biernat, W. Baumjohann, ***K. -H. Glassmeier*** *and J. P. McFadden,* Remote estimation of reconnection parameters in the Earth's magnetotail: model and observations, Ann. Geophys., 30, 1727-1741, doi:10.5194/angeo-30-1727-2012, 2012

Alipour, N., H. Safari and ***D. E. Innes****,* An Automatic Detection Method for Extreme-ultraviolet Dimmings Associated with Small-scale Eruption, Astrophys. J., 746, 12–19, doi:10.1088/0004-637X/746/1/12, 2012.

Altwegg, K., H. Balsiger, U. Calmonte, M. Hässig, L. Hofer, A. Jäckel, B. Schläppi, P. Wurz, J.J. Berthelier, J. De Keyser*, B. Fiethe, S. Fuselier,* ***U. Mall****, H. Rème and M. Rubin*, In situ mass spectrometry during the Lutetia flyby, Planet. Space Sci., 66, 173-178, doi:10.1016/j.pss.2011.08.011, 2012.

Ammler-von Eiff, M*. and A. Reiners,* New measurements of rotation and differential rotation in A-F stars: Are there two populations of differentially rotating stars?, Astron. & Astrophys., 542, A116, doi:10.1051/0004-6361/201118724, 2012.

Andriopoulou, M., E. Roussos, N. Krupp*, C. Paranicas, M. Thomsen, S. Krimigis, M. K. Dougherty and* ***K. H. Glassmeier***, A noon-to-midnight electric field and nightside dynamics in Saturns inner magnetosphere, using microsignature observations, Icarus, 220, 503–513, doi:10.1016/j.icarus.2012.05.010, 2012.

Araneda, J. A., H. Astudillo and ***E. Marsch****,* Interactions of Alfven-Cyclotron Waves with Ions in the Solar Wind, Space Sci. Rev., 172, 361-372, doi:10.1007/s11214-011-9773-0, 2012.

Arridge, C., C. B. Agnor, N. André, K. Baines, L. Fletcher, D. Gautier, M. Hofstadter, G. H. Jones, L. Lamy, Y. Langevin, O. Mousis, N. Nettelmann, C. T. Russell, T. Stallard, M. S. Tiscareno, G. Tobie, A. Bacon, C. Chaloner, M. Guest, S. Kemble, L. Peacocke, N. Achilleos, T. P. Andert, D. Banfield, S. Barabash, M. Barthelemy, C. Bertucci, P. Brandt, B. Cecconi, S. Chakrabarti, A. F. Cheng, ***U. Christensen****, A. Christou, A. J. Coates, G. Collinson, J. F. Cooper, R. Courtin, M. K. Dougherty, R. W. Ebert, M. Entradas, A. N. Fazakerley, K. J. Fortney, M. Galand, J. Gustin, M. Hedman, R. Helled, P. Henri, S. Hess, R. Holme, Ö. Karatekin,* ***N. Krupp****, J. Leisner, J. Martin-Torres, A. Masters, H. Melin, S. Miller, I. Müller-Wodarg, B. Noyelles, C. Paranicas, I. de Pater, M. Pätzold, R. Prangé, E. Quémerais,* ***E. Roussos****, A. M. Rymer, A. Sánchez-Lavega, J. Saur, K. M. Sayanagi, P. Schenk, G. Schubert, N. Sergis, F. Sohl, E. C. Sittler Jr., N. A. Teanby, S. Tellmann, E. T. Turtle, S. Vinatier, J.-E. Wahlund and P. Zarka*, Uranus Pathfinder: exploring the origins and evolution of Ice Giant planets, Experimental Astronomy, 33, 753–791, doi:10.1007/s10686-011-9251-4, 2012.

Bachelet, E., I.-G. Shin, C. Han, P. Fouqué, A. Gould, J. W. Menzies, J.-P. Beaulieu, D. P. Bennett, I. A. Bond, Subo Dong, D. Heyrovský, J.-B. Marquette, J. Marshall, J. Skowron, R. A. Street, T. Sumi, A. Udalski, L. Abe, K. Agabi, M. D. Albrow, W. Allen, E. Bertin, M. Bos, D. M. Bramich, J. Chavez, G. W. Christie, A. A. Cole, N. Crouzet, S. Dieters, M. Dominik, J. Drummond, J. Greenhill, T. Guillot, C. B. Henderson, F. V. Hessman, K. Horne, M. Hundertmark, J. A. Johnson, U. G. Jørgensen, R. Kandori, C. Liebig, D. Mékarnia, J. McCormick, D. Moorhouse, T. Nagayama, D.

*Nataf, T. Natusch, S. Nishiyama, J.-P. Rivet, K. C. Sahu, Y. Shvartzvald, G. Thornley, A. R. Tomczak, Y. Tsapras, J. C. Yee, V. Batista, C. S. Bennett, S. Brillant, J. A. R. Caldwell, A. Cassan, E. Corrales, C. Coutures, D. Dominis Prester, J. Donatowicz, D. Kubas, R. Martin, A. Williams, M. Zub, L. Andrade de Almeida, D. L. DePoy, B. S. Gaudi, L.-W. Hung, F. Jablonski, S. Kaspi, N. Klein, C.-U. Lee, Y. Lee, J.-R. Koo, D. Maoz, J. A. Muñoz, R. W. Pogge, D. Polishook, A. Shporer, F. Abe, C. S. Botzler, P. Chote, M. Freeman, A. Fukui, K. Furusawa, P. Harris, Y. Itow, S. Kobara, C. H. Ling, K. Masuda, Y. Matsubara, N. Miyake, K. Ohmori, K. Ohnishi, N. J. Rattenbury, To. Saito, D. J. Sullivan, D. Suzuki, W. L. Sweatman, P. J. Tristram, K. Wada, P. C. M. Yock, M. K. Szymański, I. Soszyński, M. Kubiak, R. Poleski, K. Ulaczyk, G. Pietrzyński1, Ł. Wyrzykowski, N. Kains, **C. Snodgrass**, I. A. Steele, K. A. Alsubai, V. Bozza, P. Browne, M. J. Burgdorf, S. Calchi Novati, P. Dodds, S. Dreizler, F. Finet, T. Gerner, S. Hardis, K. Harpsøe, T. C. Hinse, E. Kerins, L. Mancini, M. Mathiasen, M. T. Penny, S. Proft, S. Rahvar, D. Ricci, G. Scarpetta, S. Schäfer, F. Schönebeck, J. Southworth, J. Surdej and J. Wambsganss*, MOA 2010-BLG-477Lb: Constraining the Mass of a Microlensing Planet from Microlensing Parallax, Orbital Motionand Detection of Blended Light, Astrophys. J., 754, 73, doi:10.1088/0004-637X/754/1/73, 2012.

*Ball, W. T. , Y. C. Unruh, **N. A. Krivova, S. Solanki**, T. Wenzler, D. J. Mortlock and A. H. Jaffe*, Reconstruction of total solar irradiance 1974-2009, Astron. & Astrophys., 541, A27, doi:10.1051/0004-6361/201118702, 2012.

*Barucci, M. A., I. N. Belskaya, S. Fornasier, M. Fulchignoni, B. E. Clark, A. Coradini, F. Capaccioni, E. Dotto, M. Birlan, C. Leyrat, **H. Sierks**, N. Thomas and **J.-B. Vincent***, Overview of Lutetia's surface composition, Planet. Space Sci., 66(1), 23–30, doi:10.1016/j.pss.2011.11.009, 2012.

*Barucci, M. A., A. F. Cheng, P. Michel, L. A. M. Benner, R. P. Binzel, P. A. Bland, **H. Böhnhardt**, J. R. Brucato, A. Campo Bagatin, P. Cerroni, E. Dotto, A. Fitzsimmons, I. A. Franchi, S. F. Green, L.-M. Lara, J. Licandro, B. Marty, K. Muinonen, **A. Nathues**, J. Oberst, A. S. Rivkin, F. Robert, R. Saladino, J. M. Trigo-Rodriguez, S. Ulamec and M. Zolensky*, MarcoPolo-R near earth asteroid sample return mission, Experimental Astronomy, 33, 645–684, doi:10.1007/s10686-011-9231-8, 2012.

*Basilevsky, A. T., **E. V. Shalygin**, D. V. Titov, **W. J. Markiewicz**, F. Scholten, T. Roatsch, M. A. Kreslavsky, L. V. Moroz, N. I. Ignatiev, B. Fietheh, B. Osterlohh and H. Michalikh*, Geologic interpretation of the near-infrared images of the surface taken by the Venus Monitoring Camera, Venus Express, Icarus, 217(2), 434–450, doi:10.1016/j.icarus.2011.11.003, 2012.

***Bebesi, Z., N. Krupp**, K. Szego, **M. Fränz**, Z. Nemeth, S. M. Krimigis, D. G. Mitchell, G. Erdos, D. T. Young and M. K. Dougherty*, Analysis of energetic electron drop-outs in the upper atmosphere of Titan during flybys in the dayside magnetosphere of Saturn, Icarus, 218, 1020–1026, doi:10.1016/j.icarus.2012.01.009, 2012.

Beeck, B**., R. Collet, M. Steffen, M. Asplund, **R. H. Cam**eron, B. Freytag, W. Hayek, H.-G. Ludwig and **M. Schüssler, Simulations of the solar near-surface layers with the CO5BOLD, MURaMand Stagger codes, Astron. & Astrophys., 539, A121, doi:10.1051/0004-6361/201118252, 2012.

*Bertini, I., W. Sabolo, P. J. Gutierrez, F. Marzari, **C. Snodgrass, C. Tubiana, R. Moissl**, M. Pajola, S. C. Lowry, C. Barbieri, F. Ferri, B. Davidsson, **H. Sierks** and the OSIRIS Team,* Search for satellites near (21) Lutetia using OSIRIS/Rosetta images, Planet. Space Sci., 66(1), 64–70, doi:10.1016/j.pss.2011.12.022, 2012.

*Bethge, C., C. Beck, **H. Peter** and **A. Lagg***, Siphon flow in a cool magnetic loop, Astron. & Astrophys., 537, A130, doi:10.1051/0004-6361/201118333, 2012.

Bharti, L., R. H. Cameron**, M. Rempel**, J. Hirzberger** and **S. K. Solanki, Waves as the Source of Apparent Twisting Motions in Sunspot Penumbrae, Astrophys. J., 752, 128, doi:10.1088/0004-637X/752/2/128, 2012.

Bhatt, M., U. Mall, R. Bugiolacchi*, S. McKenna-Lawlor, M. Banaszkiewicz,* ***A. Nathues*** *and K. Ullaland*, Lunar iron abundance determination using the 2-µm absorption band parameters, Icarus, 220(1), 51–64, doi:10.1016/j.icarus.2012.04.010, 2012.

Bishop, J. L., H. B. Franz, ***W. Goetz****, D. F. Blake, C. Freissinet,* ***H. Steininger, F. Goesmann****, W. B. Brinckerhoff, S. Getty, V. T. Pinnick, P. R. Mahaffy and D. M. Darby*, Coordinated analyses of Antarctic sediments as Mars analog materials using reflectance spectroscopy and current flight-like instruments for CheMin, SAM and MOMA, Icarus, doi:10.1016/j.icarus.2012.05.014, 2012.

Biver, N., J. Crovisier, D. Bockelée-Morvan, S. Szutowicz, D. C. Lis, ***P. Hartogh, M. de Val-Borro****, R. Moreno, J. Boissier, M. Kidger, M. Küppers, G. Paubert, N. Dello Russo, R. Vervack, H. Weaver and the HssO team*, Ammonia and other parent molecules in comet 10P/Tempel 2 from Herschel/HIFI and ground-based radio observations, Astron. & Astrophys., 539, A68, doi:10.1051/0004-6361/201118447, 2012.

Bockelée-Morvan, D., N. Biver, B. Swinyard, M. ***de Val-Borro****, J. Crovisier,* ***P. Hartogh****, D. C. Lis, R. Moreno, S. Szutowicz, E. Lellouch, M. Emprechtinger, G. A. Blake, R. Courtin,* ***C. Jarchow****, M. Kidger, K. Küppers,* ***M. Rengel****, G. R. Davis, T. Fulton, D. Naylor, S. Sidher and H. Walker*, Herschel measurements of the D/H and 16O/18O ratios in water in the Oort-cloud comet C/2009 P1 (Garradd), Astron. & Astrophys., 544, L15, doi:10.1051/0004-6361/201219744, 2012.

Borrero, J. M. and ***P. Kobel****,* Inferring the magnetic field vector in the quiet Sun II. Interpreting results from the inversion of Stokes profiles, Astron. & Astrophys., 547, A89, doi:10.1051/0004-6361/201118238, 2012.

Bourouaine, S*., O. Alexandrova,* ***E. Marsch*** *and M. Maksimovic*, On spectral breaks in the power spectra of magnetic fluctuations in fast solar wind between 0.3 and 0.9 AU, Astrophys. J., 749, 102–109, doi:10.1088/0004-637X/749/2/102, 2012.

Bozza, V., M. Dominik, N. J. Rattenbury, U. G. Joergensen, Y. Tsapras, D. M. Bramich, A. Udalski, I. A. Bond, C. Liebig, A. Cassan, P. Fouque, A. Fukui, M. Hundertmark, I.-G. Shin, S. H. Lee, J.-Y. Choi, S.-Y. Park, A. Gould, A. Allan, S. Mao, L. Wyrzykowski, R. A. Street, D. Buckley, T. Nagayama, M. Mathiasen, T. C. Hinse, S. Calchi Novati, K. Harpsoee, L. Mancini, G. Scarpetta, T. Anguita, M. J. Burgdorf, K. Horne, A. Hornstrup, N. Kains, E. Kerins, P. Kjaergaard, G. Masi, S. Rahvar, D. Ricci, ***C. Snodgrass****, J. Southworth, I. A. Steele, J. Surdej, C. C. Thoene, J. Wambsganss, M. Zub, M. D. Albrow, V. Batista, J.-P. Beaulieu, D. P. Bennett, J. A. R. Caldwell, A Cole, K. H. Cook, C. Coutures, S. Dieters, D. Dominis Prester, J. Donatowicz, J. Greenhill, S. R. Kane, D. Kubas, J.-B. Marquette, R. Martin, J. Menzies, K. R. Pollard, K. C. Sahu, A. Williams, M.K. Szymański, M. Kubiak, G. Pietrzyński, I. Soszyński, R. Poleski, K. Ulaczyk, D. L. DePoy, S. Dong, C. Han, J. Janczak, C.-U. Lee, R. W. Pogge, F. Abe, K. Furusawa, J. B. Hearnshaw, Y. Itow, P. M. Kilmartin, A. V. Korpela, W. Lin, C. H. Ling, K. Masuda, Y. Matsubara, N. Miyake, Y. Muraki, K. Ohnishi, Y. C. Perrott, To. Saito, L. Skuljan, D. J. Sullivan, T. Sumi, D. Suzuki, W. L. Sweatman, P. J. Tristram, K. Wada, P. C. M. Yock, A. Gulbis, Y. Hashimoto, A. Kniazev and P. Vaisanen,* OGLE-2008-BLG-510: first automated real-time detection of a weak microlensing anomaly – brown dwarf or stellar binary?, Mon. Not. Roy. Astron. Soc., 424(2), 902-918, doi:10.1111/j.1365-2966.2012.21233.x, 2012.

Bučík, R., U. Mall, A. Korth *and G. M. Mason*, Abundances of suprathermal heavy ions in CIRs during the minimum of solar cycle 23, Solar Phys., doi:10.1007/s11207-012-0094-6, 2012.

Buczkowski, D. L., D. Y. Wyrick, K. Iyer, E. Kahn, J. Scully, ***A. Nathues****, B. Gaskell, T. Roatsch, F. Preusker, P. M. Schenk,* ***L. Le Corre, V. Reddy****, R. A. Yingst, S. C. Mest, D. A. Williams, W. B. Garry, O. S. Barnouin, R. Jaumann, C. A. Raymond and C. T. Russell*, Large-scale troughs on Vesta: A signature of planetary tectonics, Geophys. Res. Lett., doi:10.1029/2012GL052959, 2012.

Cameron, R. H., D. Schmitt*, J. Jiang and E. Isik*, Surface flux evolution constraints for flux transport dynamos, Astron. & Astrophys., 524, A127, doi:10.1051/0004-6361/201218906, 2012.

Cameron, R. H. *and* ***M. Schuessler,*** Are the strengths of solar cycles determined by converging flows towards the activity belts?, Astron. & Astrophys., 548, A57, doi:10.1051/0004-6361/201219914, 2012.

Cao, H., C. T. Russel, ***J. Wicht, U. R. Christensen*** *and M. K. Dougherty*, Saturn's high degree magnetic moments: Evidence for a unique planetary dynamo, Icarus, 221(1), 388-394, doi:10.1016/j.icarus.2012.08.007, 2012.

Cao, X., Z. Y. Pu, A. M. Du, V. M. Mishin, X. G. Wang, C. J. Xiao, T. L. Zhang, V. Angelopoulos, J. P. McFadden and ***K. H. Glassmeier***, On the retreat of near-Earth neutral line during substorm expansion phase: a THEMIS case study during the 9 January 2008 substorm, Ann. Geophys., 30 (1), 143-151, doi:10.5194/angeo-30-143-2012, 2012

Carbary, J. F., D. G. Mitchell, S. M. Krimigis and ***N. Krupp***, Unusually short period in electrons at Saturn, Geophys. Res. Lett., 39, L22103, doi:10.1029/2012GL054019, 2012.

Carry, B., ***C. Snodgrass****, P. Lacerda, O. Hainaut and C. Dumas*, Characterisation of candidate members of (136108) Haumea's family, Astron. & Astrophys., 544, A137, doi:10.1051/0004-6361/201219044, 2012

Carry, B., M. Kaasalainen, W. J. Merline, T. G. Müller, L. Jorda, J. D. Drummond, J. Berthier, L. O'Rourke, J. Durech, M. Küppers, A. Conrad, P. Tamblyn, C. Dumas, ***H. Sierks*** *and the OSIRIS Team*, Shape modeling technique KOALA validated by ESA Rosetta at (21) Lutetia, Planet. Space Sci., 66(1), 200-212, doi:10.1016/j.pss.2011.12.018, 2012.

Cavalié, T*., N. Biver,* ***P. Hartogh****, M. Dobrijevic, F. Billebaud, E. Lellouch, Aa. Sandqvist, J. Brillet, A. Lecacheux, A. Hjalmarson, U. Frisk, M. Olberg and the Odin Team*, Odin Space Telescope monitoring of water vapor in the stratosphere of Jupiter, Planet. Space Sci., 61, 3–14, doi:10.1016/j.pss.2011.04.001, 2012.

Cheung M. C. M.and ***R. H. Cameron***, Magnetohydrodynamics of the Weakly Ionized Solar Photosphere, Astrophys. J., 750, 6, doi:10.1088/0004-637X/750/1/6, 2012.

Chifu, I., B. Inhester*, M. Mierla,* ***V. Chifu and T. Wiegelmann***, First 4D Reconstruction of an Eruptive Prominence Using Three Simultaneous View Directions, Sol. Phys., 281(1), 121-135, doi:10.1007/s11207-012-0107-5, 2012.

Choi, J.-Y., I.-G. Shin, C. Han, A. Udalski, T. Sumi, A. Gould, V. Bozza, M. Dominik, P. Fouqué, K. Horne, M. K. Szymański, M. Kubiak, I. Soszyński, G. Pietrzyński, R. Poleski, K. Ulaczyk, P. Pietrukowicz, S. Kozłowski, J. Skowron, Ł. Wyrzykowski, F. Abe, D. P. Bennett, I. A. Bond, C. S. Botzler, P. Chote, M. Freeman, A. Fukui, K. Furusawa, Y. Itow, S. Kobara, C. H. Ling, K. Masuda, Y. Matsubara, N. Miyake, Y. Muraki, K. Ohmori, K. Ohnishi, N. J. Rattenbury, To. Saito, D. J. Sullivan, D. Suzuki, K. Suzuki, W. L. Sweatman, S. Takino, P. J. Tristram, K. Wada, P. C. M. Yock, D. M. Bramich, ***C. Snodgrass****, I. A. Steele, R. A. Street, Y. Tsapras, K. A. Alsubai, P. Browne, M. J. Burgdorf, S. Calchi Novati, P. Dodds, S. Dreizler, X.-S. Fang, F. Grundahl, C.-H. Gu, S. Hardis, K. Harpsøe, T. C. Hinse, A. Hornstrup, M. Hundertmark, J. Jessen-Hansen, U. G. Jørgensen, N. Kains, E. Kerins, C. Liebig, M. Lund, M. Lunkkvist, L. Mancini, M. Mathiasen, M. T. Penny, S. Rahvar, D. Ricci, G. Scarpetta, J. Skottfelt, J. Southworth, J. Surdej, J. Tregloan-Reed, J. Wambsganss, O. Wertz, L. A. Almeida, V. Batista, G. Christie, D. L. DePoy, Subo Dong, B. S. Gaudi, C. Henderson, F. Jablonski, C.-U. Lee, J. McCormick, D. McGregor, D. Moorhouse, T. Natusch, H. Ngan, R. W. Pogge, T.-G. Tan, G. Thornley, J. C. Yee, M. D. Albrow, E. Bachelet, J.-P. Beaulieu, S. Brillant, A. Cassan, A. A. Cole, E. Corrales, C. Coutures, S. Dieters, D. Dominis Prester, J. Donatowicz, J. Greenhill, D. Kubas, J.-B. Marquette, J. W. Menzies, K. C. Sahu and M. Zub*, A New Type of Ambiguity in the Planet and Binary Interpretations of Central Perturbations of High-magnification Gravitational Microlensing Events, Astrophys. J., 756(1), 48, doi:10.1088/0004-637X/756/1/48, 2012.

*Choi, J.-Y., I.-G. Shin, S.-Y. Park, C. Han, A. Gould, T. Sumi, A. Udalski, J.-P. Beaulieu, R. Street, M. Dominik, W. Allen, L. A. Almeida, M. Bos, G. W. Christie, D. L. Depoy, S. Dong, J. Drummond, A. Gal-Yam, B. S. Gaudi, C. B. Henderson, L.-W. Hung, F. Jablonski, J. Janczak, C.-U. Lee, F. Mallia, A. Maury, J. McCormick, D. McGregor, L. A. G. Monard, D. Moorhouse, J. A. Muñoz, T. Natusch, C. Nelson, B.-G. Park, R. W. Pogge, T.-G. "TG" Tan, G. Thornley, J. C. Yee, F. Abe, E. Barnard, J. Baudry, D. P. Bennett, I. A. Bond, C. S. Botzler, M. Freeman, A. Fukui, K. Furusawa, F. Hayashi, J. B. Hearnshaw, S. Hosaka, Y. Itow, K. Kamiya, P. M. Kilmartin, S. Kobara, A. Korpela, W. Lin, C. H. Ling, S. Makita, K. Masuda, Y. Matsubara, N. Miyake, Y. Muraki, M. Nagaya, K. Nishimoto, K. Ohnishi, T. Okumura, K. Omori, Y. C. Perrott, N. Rattenbury, To. Saito, L. Skuljan, D. J. Sullivan, D. Suzuki, K. Suzuki, W. L. Sweatman, S. Takino, P. J. Tristram, K. Wada, P. C. M. Yock, M. K. Szymański, M. Kubiak, G. Pietrzyński, I. Soszyński, R. Poleski, K. Ulaczyk, Ł. Wyrzykowski, S. Kozłowski, P. Pietrukowicz, M. D. Albrow, E. Bachelet, V. Batista, C. S. Bennett, R. Bowens-Rubin, S. Brillant, A. Cassan, A. Cole, E. Corrales, Ch. Coutures, S. Dieters, D. Dominis Prester, J. Donatowicz, P. Fouqué, J. Greenhill, S. R. Kane, J. Menzies, K. C. Sahu, J. Wambsganss, A. Williams, M. Zub, A. Allan, D. M. Bramich, P. Browne, N. Clay, S. Fraser, K. Horne, N. Kains, C. Mottram, **C. Snodgrass**, I. Steele, Y. Tsapras, K. A. Alsubai, V. Bozza, M. J. Burgdorf, S. Calchi Novati, P. Dodds, S. Dreizler, F. Finet, T. Gerner, M. Glitrup, F. Grundahl, S. Hardis, K. Harpsøe, T. C. Hinse, M. Hundertmark, U. G. Jørgensen, E. Kerins, C. Liebig, G. Maier, L. Mancini, M. Mathiasen, M. T. Penny, S. Proft, S. Rahvar, D. Ricci, G. Scarpetta, S. Schäfer, F. Schönebeck, J. Skottfelt, J. Surdej, J. Southworth and F. Zimmer*, Characterizing Lenses and Lensed Stars of High-Magnification Single-lens Gravitational Microlensing Events With Lenses Passing Over Source Stars, Astrophys. J., 751(1), 41, doi:10.1088/0004-637X/751/1/41, 2012.

***Christensen, U. R.**, I. Wardinski and V. Lesur,* Timescales of geomagnetic secular acceleration in satellite field models and geodynamo models, Geophys. J. Intern., 190(1), 243-254, doi:10.1111/j.1365-246X.2012.05508.x, 2012.

*Cohen, C. M. S., G. M. Mason, M. E. Wiedenbeck, D. K. Haggerty, R. Gomez-Herrero, **R. Bučík**, E. R. Christian, A. C. Cummings, **A. Korth**, A. W. Labrador, R. A. Leske, **U. Mall**, R. A. Mewaldt, E. C. Stone and T. T. V. Rosenvinge*, Observations of the longitudinal spread of solar energetic particle events in solar cycle 24, in: Physics of the Heliosphere: A 10 Year Retrospective, vol. 1436 of AIP Conf. Proc., pp. 103–109, 2012, doi:10.1063/1.4723596.

*Collados, M., R. López, E. Páez, E. Hernández, M. Reyes, A. Calcines, E. Ballesteros, J. J. Díaz, C. Denker, **A. Lagg**, R. Schlichenmaier, W. Schmidt, **S. K. Solanki**, K. G. Strassmeier, O. von der Lühe and R. Volkmer,* GRIS: The GREGOR Infrared Spectrograph, Astron. Nachr., 333(9), 872–879, doi:10.1002/asna.201211738, 2012.

*Cottini, V., N. I. Ignatiev, G. Piccioni, P. Drossart, D. Grassi and **W. J. Markiewicz***, Water vapor near the cloud tops of Venus from Venus Express/VIRTIS dayside data, Icarus, 217, 682–701, doi:10.1016/j.icarus.2011.06.018, 2012.

*Csengeri, T., K. M. Menten, F. Wyrowski, M. A. Requena-Torres, R. Güsten, H. Wiesemeyer, H.-W. Hübers, **P. Hartogh** and K. Jacobs*, SOFIA observations of far-infrared hydroxyl emission toward classical ultracompact HII/OH maser regions, Astron. & Astrophys., 542, L8, doi:10.1051/0004-6361/201218933, 2012.

Curdt, W**., H. Tian and **S. Kamio, Explosive events: swirling transition region jets, Solar Phys., doi:10.1007/s11207-012-9940-9, 2012.

*Czechowski, A., **M. Hilchenbach** and K. C. Hsieh*, HSTOF ENA observations and energetic ion distributions in the heliosheath, Astron. & Astrophys., 541, A14, doi:10.1051/0004-6361/201118570, 2012.

***Dadashi, N., L. Teriaca,** D. Tripathi, **S. K. Solanki and T. Wiegelmann**,* Doppler shift of hot coronal lines in a moss area of an active region, Astron. & Astrophys., 548, A115, doi:10.1051/0004-6361/201220329, 2012.

De Sanctis, M. C., E. Ammannito1, M. T. Capria, F. Tosi, F. Capaccioni, F. Zambon, F. Carraro, S. Fonte, A. Frigeri, R. Jaumann, G. Magni, S. Marchi, T. B. McCord, L. A. McFadden, H. Y. McSween, D. W. Mittlefehldt, ***A. Nathues****, E. Palomba, C. M. Pieters, C. A. Raymond, C. T. Russell, M. J. Toplis and D. Turrini,* Spectroscopic Characterization of Mineralogy and Its Diversity Across Vesta, Science, 336(6082), 697-700, doi:10.1126/science.1219270, 2012.

de Val-Borro, M., P. Hartogh, C. Jarchow, M. Rengel*, G. L. Villanueva, M. Küppers, N. Biver, D. Bockelée-Morvan and J. Crovisier*, Submillimetric spectroscopic observations of volatiles in comet C/2004 Q2 (Machholz), Astron. & Astrophys., 545, A2, doi:10.1051/0004-6361/201219172, 2012.

de Val-Borro, M., L. Rezac, P. Hartogh*, N. Biver, D. Bockelée-Morvan, J. Crovisier, M. Küppers, D. C. Lis, S. Szutowicz, G. A. Blake, M. Emprechtinger,* ***C. Jarchow****, E. Jehin, M. Kidger, L.-M. Lara, E. Lellouch, R. Moreno and* ***M. Rengel***, An upper limit for the water outgassing rate of the main-belt comet 176P/LINEAR observed with Herschel/HIFI, Astron. & Astrophys., 547, L4, doi:10.1051/0004-6361/201220169, 2012.

Deheuvels, S., R. A. García, W. J. Chaplin, S. Basu, H. M. Antia, T. Appourchaux, O. Benomar, G. R. Davies, Y. Elsworth, ***L. Gizon****, M. J. Goupil, D. R. Reese, C. Regulo, J. Schou,* ***T. Stahn****, L. Casagrande, J. Christensen-Dalsgaard, D. Fischer, S. Hekker, H. Kjeldsen, S. Mathur, B. Mosser, M. Pinsonneault, J. Valenti, J. L. Christiansen, K. Kinemuchi and F. Mullally*, Seismic evidence for a rapidly rotating core in a lower-giant-branch star observed with KEPLER, Astrophys. J., 756, 19, doi:10.1088/0004-637X/756/1/19, *2012.*

Denevi, B. W., D. T. Blewett, D. L. Buczkowski, F. Capaccioni, M. T. Capria, M. C. De Sanctis, W. B. Garry, R. W. Gaskell, ***L. Le Corre****, J.-Y. Li, S. Marchi, T. J. McCoy,* ***A. Nathues****, D. P. OBrien, N. E. Petro, C. M. Pieters, F. Preusker, C. A. Raymond,* ***V. Reddy****, C. T. Russell, P. Schenk, J. E. C. Scully, J. M. Sunshine, F. Tosi, D. A. Williams and D. Wyrick*, Pitted Terrain on Vesta and Implications for the Presence of Volatiles, Science, doi:10.1126/science.1225374, 2012.

Denker C., O. von der Lühe, ***A. Feller****, K. Arlt, H. Balthasa1, S.-M. Bauer, N. Bello González, Th. Berkefeld, P. Caligari, M. Collados, A. Fischer, T. Granzer, T. Hahn, C. Halbgewachs, F. Heidecke, A. Hofmann,T. Kentischer, M. Klvaňa, F. Kneer,* ***A. Lagg****, H. Nicklas, E. Popow, K.G. Puschmann, J. Rendtel, D. Schmidt, W. Schmidt, M. Sobotka,* ***S.K. Solanki****, D. Soltau, J. Staude, K.G. Strassmeier, R. Volkmer, T. Waldmann, E. Wiehr, A.D. Wittmann and M. Woche,* A retrospective of the GREGOR solar telescope in scientific literature, Astron. Nachr., 333(9), 810–815, doi:10.1002/asna.201211728, 2012.

Dubinin, E., M. Fraenz, J. Woch*, R. Modolo, G. Chanteur, F. Duru, D. A. Gurnett, S. Barabas and R. Lundin*, Upper ionosphere of Mars is not axially symmetrical, Earth, Planets and Space, 64, 113–120, doi:10.5047/eps.2011.05.022, 2012.

Dubinin, E., M. Fraenz, J. Woch*, T.-L. Zhang, J. Wei, S. Barabash and R. Lundin*, Bursty escape fluxes in plasma sheets of Mars and Venus, Geophys. Res. Lett., 39, L01104, doi:10.1029/2011GL049883, 2012.

Duvall, T. L. and ***S. M. Hanasoge***, Subsurface supergranular vertical flows as measured using large distance separations in time-distance helioseismology, Solar Phys., doi:10.1007/s11207-012-0010-0, 2012.

Edgett, K. S., R. A. Yingst, M. A. Ravine, M. A. Caplinger, J. N. Maki, F. T. Ghaemi, J. A. Schaffner, J. F. Bell III, L. J. Edwards, K. E. Herkenhoff, E. Heydari, L. C. Kah, M. T. Lemmon, M. E. Minitti, T. S. Olson, T. J. Parker, S. K. Rowland, J. Schieber, R. J. Sullivan, D. Y. Sumner, P. C. Thomas, E. H. Jensen, J. J. Simmonds, A. J. Sengstacken, R. G. Willson and ***W. Goetz****,* Curiosity's Mars Hand Lens Imager (MAHLI) Investigation, Space Sci. Rev., 170:259–317, doi:10.1007/s11214-012-9910-4, 2012.

***Ejeta, C., H. Boehnhardt**, S. Bagnulo and G. P. Tozzi,* Spectro-polarimetry of the bright side of Saturn's moon Iapetus, Astron. & Astrophys., 537, A23, doi:10.1051/0004-6361/201117870, 2012.

***El Maarry, M. R**., J. M. Dohm, G. A. Marzo, R. Fergason, **W. Goetz**, E. Heggy, A. Pack and **W. J. Markiewicz**,* Searching for evidence of hydrothermal activity at Apollinaris Mons, Mars, Icarus, 217, 297–314, doi:10.1016/j.icarus.2011.10.022, 2012.

***El Maarry, M. R**., J. Kodikara, S. Wijessoriya, **W. J. Markiewicz** and N. Thomas*, Desiccation mechanism for formation of giant polygons on Earth and intermediate-sized polygons on Mars: Results from a pre-fracture model, Earth and Planetary Science Letters, 323, 10.1016/j.epsl.2012.01.016, 2012.

*Ermolli, I., K. Matthes, T. Dudok de Wit, **N. A. Krivova**, K. Tourpali, M. Weber, Y. C. Unruh, L. Gray, U. Langematz, P. Pilewskie, E. Rozanov, W. Schmutz, A. Shapiro, **S. K. Solanki**, G. Thuillier and T. N. Woods*, Recent variability of the solar spectral irradiance and its impact on climate modelling, Atmospheric Chemistry and Physics Discussions, 12(9), 24557–24642, doi:10.5194/acpd-12-24557-2012, 2012.

*Escobar, M. E., S. Théado, S. Vauclair, J. Ballot, S. Charpinet, N. Dolez, A. Hui-Bon-Hoa, G. Vauclair, **L. Gizon**, S. Mathur, P. O. Quirion and **T. Stahn***, Precise modeling of the exoplanet host star and CoRoT main target HD 52265, Astron. & Astrophys., 543, A96, doi:10.1051/0004-6361/201218969, 2012.

*Evans, A. C., C. Meinert, **C. Giri, F. Goesmann** and U. J. Meierhenrich*, Chirality, photochemistry and the detection of amino acids in interstellar ice analogues and comets, Chemical Society Reviews, 41, 5447–5458, doi:10.1039/C2CS35051C, 2012.

*Felipe, T., D. Braun, A. Crouch and **A. Birch***, Scattering of the f-mode by small magnetic flux elements from observations and numerical simulations, Astrophys. J., 757, 148, doi:10.1088/0004-637X/757/2/148, 2012.

***Feng, L., B. Inhester, J. de Patoul, T. Wiegelmann** and W. Q. Gan*, Particle kinetic analysis of a polar jet from SECCHI COR data, Astron. & Astrophys., 538, A34, doi:10.1051/0004-6361/201117071, 2012.

***Feng, L., B. Inhester,** Y. Wei, W.Q. Gan, T.L. Zhang and M.Y. Wang,* Morphological evolution of a 3D CME cloud reconstructed from three viewpoints, Astrophys. J., 751(1), 18, doi:10.1088/0004-637X/751/1/18, 2012.

*Fletcher, L., B. Swinyard, C. Salji, E. Polehampton, T. Fulton, S. Sidner, E. Lellouch, R. Moreno, G. Orton, T. Cavalié, R. Courtin, **M. Rengel, H. Sagawa**, G. R. Davis, **P. Hartogh**, D. Naylor, H. Walker and T. Lim*, Sub-millimetre spectroscopy of Saturn's trace gases from Herschel/SPIRE, Astron. & Astrophys., 539, A44, doi:10.1051/0004-6361/201118415, 2012.

*French, M., A. Becker, W. Lorenzen, N. Nettelmann, M. Bethkenhagen, **J. Wicht** and R. Redmer,* Ab Initio Simulations for Material Properties along the Jupiter Adiabat, : Astrophys. J. Supp. Series, 202(1), 5, doi:10.1088/0067-0049/202/1/5, 2012.

*Fu, H. S., Y. V. Khotyaintsev, A. Vaivads, M. Andre, V. A. Sergeev, S. Y. Huang, **E. A. Kronberg** and **P. W. Daly**,* Pitch angle distribution of suprathermal electrons behind dipolarization fronts: A statistical overview, Journal of Geophys. Res.-Space Physics, 117, A12221, doi:10.1029/2012JA018141, 2012.

*Garnier, P., J.-E. Wahlund, M. Holmberg, M. W. Morooka, S. Grimald, A. I. Eriksson, P. Schippers, D. A. Gurnett, S. M. Krimigis, **N. Krupp**, A. J. Coates, F. J. Crary and G. Gustafsson*, The detection of energetic electrons with the Cassini Langmuir probe at Saturn, J. Geophys. Res., 117, A10202, doi:10.1029/2011JA017298, 2012.

Gastine, T., L. Duarte** and **J. Wicht, Dipolar versus multipolar dynamos: the influence of the background density stratification, Astron. & Astrophys., 546, A19, doi:10.1051/0004-6361/201219799, 2012.

Gastine T**. and **J. Wicht, Effects of compressibility on driving zonal flow in gas giants, Icarus, 219, 428–442, doi:10.1016/j.icarus.2012.03.018, 2012.

Gizon L.** and **A. C. Birch, Helioseismology challenges models of solar convection, PNAS, 109(30), 11896–11897, doi:10.1073/pnas.1208875109, 2012.

***Goesmann, F.** , S. McKenna-Lawlor, **R. Roll**, J. H. Bredehöft, U. Meierhenrich, F. Raulin, W. Thiemann, G. M. M. Caro and C. Szopa*, Interpretation of COSAC mass spectrometer data acquired during Rosettas Lutetia fly-by 10 July 2010, Planet. Space Sci., 66, 187–191, doi:10.1016/j.pss.2012.01.012, 2012.

***Goetz, W**., M. H. Hecht, **S. F. Hviid**, M. B. Madsen, W. T. Pike, U. Staufer, M. A. Velbelf N. H. Harrit, E. Zych and K. S. Edgett,* Search for ultraviolet luminescence of soil particles at the Phoenix landing site, Mars, Planet. Space Sci., 70(1), 134-147, doi:10.1016/j.pss.2012.05.002, 2012.

*Graf, U. U., R. Simon, J. Stutzki, S. W. J. Colgan, X. Guan, R. Güsten, **P. Hartogh**, C. E. Honingh and H.-W. Hübers,* [12Cii] and [13C ii] 158 μ m emission from NGC 2024: Large column densities of ionized carbon, Astron. & Astrophys., 542, L16, doi:10.1051/0004-6361/201218930, 2012.

*Guglielmino, S. L., V. Martínez Pillet, J. A. Bonet, J. Carlos del Toro Iniesta, L. R. Bellot Rubio, **S. K. Solanki**, W. Schmidt, **A. Gandorfer, P. Barthol** and M. Knölker,* The frontier between Small-scale bipoles and Ephemeral Regions in the solar photosphere: Emergence and Decay of an Intermediate-scale bipole observed with IMaX/SUNRISE, Astrophs. J., 745(2), 160, doi:10.1088/0004-637X/745/2/160, 2012.

*Gulkis, S., S. Keihm, L. Kamp, S. Lee, **P. Hartogh**, J. Crovisier, E. Lellouch, P. Encrenaz, D. Bockelée-Morvan, M. Hofstadter, G. Beaudin, M. Janssen, P. Weissman, P. A. von Allmen, T. Encrenaz, C. R. Backus, W.-H. Ip, P. F. Schloerb, N. Biver, T. Spilker and I. Mann*, Continuum and spectroscopic observations of asteroid (21) Lutetia at millimeter and submillimeter wavelengths with the MIRO instrument on the Rosetta spacecraft, Planet. Space Sci., 66, 31–42, doi:10.1016/j.pss.2011.12.004, 2012.

*Guo, Y., M. D. Ding, Y. Liu, X. D.Sun, M. L. DeRosa and **T. Wiegelmann,*** Modelling magnetic field structure of a solar active region corona using nonlinear force-free fields in spherical geometry, Astrophs. J., 760, A47 doi:10.1088/0004-637X/760/1/47, 2012.

***Gupta, G. R.,** S. Subramanian, D. Banerjee, M. S. Madjarska and J. G. Doyle*, Nature of Quiet Sun Oscillations Using Data from the Hinode, TRACEand SOHO Spacecraft, Solar Phys., doi:10.1007/s11207-012-0146-y, 2012.

***Gupta, G. R., L. Teriaca, E. Marsch, S. K. Solanki** and D. Banerjee*, Spectroscopic observations of propagating disturbances in a polar coronal hole: evidence of slow magneto-acoustic waves, Astron. & Astrophys., 546, A93, doi:10.1051/0004-6361/201219795, 2012.

*Gusdorf, A., S. Anderl, R. Güsten, J. Stutzki, H.-W. Hübers, **P. Hartogh**, S. Heyminck and Y. Okada*, Probing magnetohydrodynamic shocks with high-J CO observations: W28F, Astron. & Astrophys., 542, L19, doi:10.1051/0004-6361/201218907, 2012.

***Haaland, S**., A. Eriksson, E. Engwall, B. Lybekk, H. Nilsson, A. Pedersen, K. Svenes, M. André, M. Förster, **K. Li**, C. Johnsen and N. Østgaard*, Estimating the capture and loss of cold plasma from ionospheric outflow, J. Geophys. Res., 117, A07311, doi:10.1029/2012JA017679, 2012.

***Haaland, S**., B. Sonnerup and G. Paschmann*, More about arc-polarized structures in the solar wind, Ann. Geophys., 30, 867–883, doi:10.5194/angeo-30-867-2012, 2012.

***Haaland, S.**, K. Svenes, B. Lybekk and A. Pedersen*, A survey of the polar cap density based on Cluster EFW probe measurements: Solar wind and solar irradiation dependence, J. Geophys. Res., 117, A01216, doi:10.1029/2011JA017250, 2012.

*Hainaut, O. R., **H. Boehnhardt** and S. Protopapa*, Colours of minor bodies in the outer solar system II. A statistical analysis revisited, Astron. & Astrophys., 546, A115, doi:10.1051/0004-6361/201219566, 2012.

Hallgren K.** and **P. Hartogh, First detection of tidal behaviour in polar mesospheric water vapour by ground based microwave spectroscopy, Atmospheric Chemistry and Physics, 12, 3753–3759, doi:10.5194/acp-12-3753-2012, 2012.

Hanasoge, S. M., The influence of noise sources on cross-correlation amplitudes, Geophysical Journal International, doi:10.1093/gji/ggs015, 2012.

***Hanasoge, S., A. Birch, L. Gizon** and J. Tromp*, Seismic probes of solar interior magnetic structure, Phys. Rev. Lett., 109, 101101, doi:10.1103/PhysRevLett.109.101101, 2012.

***Hanasoge, S. M**., T. L. Duvall, Jr. and K. R. Sreenivasan*, Anomalously weak solar convection, PNAS, 109(30), 11928–11932, doi:10.1073/pnas.1206570109, 2012.

Hartogh, P., C. Jarchow** and **K. Hallgren, Investigations of the Solar Influence on Middle Atmospheric Water Vapour and Ozone During the Last Solar Cycle - Analysis of the MPS Data Set, in: Climate and Weather of the Sun-Earth System (CAWSES) Highlights from a Priority Program (edited by F.-J. Lübken), pp. 109–124, Springer Atmospheric Sciences, Springer, Dordrecht, 2012, ISBN 978-94-007-4348-9, doi:10.1007/978-94-007-4348-9_7.

*He, J., C. Tu, **E. Marsch** and S. Yao*, Do oblique Alfven/ion-cyclotron or fast-mode/whistler waves dominate the dissipation of solar wind turbulence near the proton inertial length?, Astrophys. J., 745, L8, doi:10.1088/2041-8205/745/1/L8, 2012.

He, J., C. Tu, **E. Marsch** and S. Yao, Reproduction of the Observed Two-component Magnetic Helicity in Solar Wind Turbulence by a Superposition of Parallel and Oblique Alfvén Waves, Astrophys. J., 749(1), 86, doi:10.1088/0004-637X/749/1/86, 2012.

*Hendrix, A. R., T. A. Cassidy, B. J. Buratti, C. Paranics, C. J. Hansen, B. Teolis, **E. Roussos**, E. T. Bradley, **P. Kollman** and R. E. Johnson*, Mimas far-UV albedo: Spatial variations, Icarus, 220, 922–931, doi:10.1016/j.icarus.2012.06.012, 2012.

*Heyminck, S., U. U. Graf, R. Güsten, J. Stutzki, H. W. Hübers and **P. Hartogh***, GREAT: the SOFIA high-frequency heterodyne instrument, Astron. & Astrophys., 542, L1, doi:10.1051/0004-6361/201218811, 2012.

*Heyner, D., **K.-H. Glassmeier** and **D. Schmitt***, Stellar Wind Influence on Planetary Dynamos, Astrophys. J., 750(2), 133, doi:10.1088/0004-637X/750/2/133, 2012.

***Hilchenbach, M., R. Kallenbach**, K. C. Hsieh and A. Czechowski*, Potential sources for energetic neutrals from the heliosphere and beyond, in: Physics of the Heliosphere: a 10 year Retrospective: Proceedings of the 10th Annual International Astrophysics Conference. AIP Conference Proceedings, vol. 1436, pp. 227–232, 2012.

*Holzreuter, R. and **S. K. Solanki,*** Three-dimensional non-LTE radiative transfer effects in Fe I lines I. Flux sheet and flux tube geometries, Astron. & Astrophys. 547, A46, doi:10.1051/0004-6361/201219477, 2012.

***Hori, K., J. Wicht** and **U.R. Christensen**,* The influence of thermo-compositional boundary conditions on convection and dynamos in a rotating spherical shell, Phys. Earth Planet. Inter., 196, 32-48, doi:10.1016/j.pepi.2012.02.002, 2012.

Hsieh, H. H., B. Yang, N. Haghighipour, B. Novakovic, R. Jedicke, R. J. Wainscoat, L. Denneau, S. Abe, W.-P. Chen, A. Fitzsimmons, M. Granvik, T. Grav, W. Ip, H. M. Kaluna, D. Kinoshita, J.

Kleyna, M. M. Knight, P. Lacerda, C. M. Lisse, E. Maclennan, K. J. Meech, M. Micheli, A. Milani, J. Pittichova, E. Schunova, D. J. Tholen, L. H. Wasserman, W. S. Burgett, K. C. Chambers, J. N. Heasley, N. Kaiser, E. A. Magnier, J. S. Morgan, P. A. Price, U. G. Jorgensen, M. Dominik, T. Hinse, K. Sahu and ***C. Snodgrass***, Observational and Dynamical Characterization of Main-Belt Comet P/2010 R2 (La Sagra), Astrophys. J., 143(5), 104, doi:10.1088/0004-6256/143/5/104, 2012.

Innes, D. E., R. H. Cameron*, L. Fletcher,* ***B. Inhester*** *and* ***S. K. Solanki***, Break up of returning plasma after the 7 June 2011 filament eruption by Rayleigh-Taylor instabilities, Astron. & Astrophys., 540, L10, doi:10.1051/0004-6361/201118530, 2012.

Jackiewicz, J., A. C. Birch, ***L. Gizon, S. M. Hanasoge****, T. Hohage, J.-B. Ruffio and* ***M. Švanda***, Multi-channel Three-Dimensional SOLA Inversion for Local Helioseismology, Solar Phys., 276(1-2), 19–33, doi:10.1007/s11207-011-9873-8, 2012.

Jain, N*., A. Das, S. Sengupta and P. Kaw*, Nonlinear electron-magnetohydrodynamic simulations of three dimensional current shear instability, Phys. of Plasmas, 19(9), 092305, doi:10.1063/1.4751872, 2012.

Jaumann, R., D. A. Williams, D. L. Buczkowski, R. A. Yingst, F. Preusker, H. Hiesinger, N. Schmedemann, T. Kneissl, ***J. B. Vincent****, D. T. Blewett, B. J. Buratti, U. Carsenty, B. W. Denevi, M. C. D. Sanctis, W. B. Garry, H. U. Keller, E. Kersten, K. Krohn, J.-Y. Li, S. Marchi, K. D. Matz, T. B. McCord, H. Y. McSween, S. C. Mest, D. W. Mittlefehldt, S. Mottola,* ***A. Nathues****, G. Neukum, D. P. O'Brien, C. M. Pieters, T. H. Prettyman, C. A. Raymond, T. Roatsch, C. T. Russell, P. Schenk, B. E. Schmidt, F. Scholten, K. Stephan, M. V. Sykes, P. Tricarico, R. Wagner, M. T. Zuber and* ***H. Sie*****rks**, Vesta's Shape and Morphology, Science, 336, 687, doi:10.1126/science.1219122, 2012.

Jing, J., S.-H. Park, C. Liu, J. Lee, ***T. Wiegelmann****, Y. Xu, N. Deng and H. Wang*, Evolution of Relative Magnetic Helicity and Current Helicity in NOAA Active Region 11158, Astrophys. J., 752, L9, doi:10.1088/2041-8205/752/1/L9, 2012.

Kamio S*. and J. T. Mariska*, Long-Term Variation of the Corona in Quiet Regions, Solar Phys., 279, 419–426, doi:10.1007/s11207-012-0014-9, 2012.

Karkoschka, E., ***S. E. Schröder****, M. G. Tomasko and H. U. Keller*, The reflectivity spectrum and opposition effect of Titan's surface observed by Huygens' DISR spectrometers, Planet. Space Sci., 60, 342–355, doi:10.1016/j.pss.2011.10.014, 2012.

Kasai, Y., H. Sagawa, T. Kuroda, S. Ochiai, K. Kikuchi, T. Nishibori, P. Baron, J. Mendrok, ***P. Hartogh****, D. Murtagh, J. Urban, F. von Schéele and U. Frisk*, Overview of the Martian atmospheric submillimetre sounder FIRE, Planet. Space Sci., 63, 62–82, doi:10.1016/j.pss.2011.10.013, 2012.

Kobel, P., S. K. Solanki *and J. M. Borrero*, The continuum intensity as a function of magnetic field II. Local magnetic flux and convective flows, Astron. & Astrophys., 542, A96, doi:10.1051/0004-6361/201118291, 2012.

Kollmann, P., E. Roussos*, C. Paranicas,* ***N. Krupp*** *and D. K. Haggerty*, Processes forming and sustaining Saturns proton radiation belts, Icarus, doi:10.1016/j.icarus.2012.10.033, 2012.

Korablev, O. I., L. V. Zasova, A. A. Fedorova, ***D. V. Titov,*** *N. I. Ignatiev, A. V. Rodin, V. I. Shematovich, D. A. Belyaev, I. V. Khatuntsev, M. N. Izakov, A. V. Shakun, A. V. Burlakov and B. S. Mayorov,* Studies of the planetary atmospheres in Russia (2007-2010), Izvestiya Atmospheric and Oceanic Physics, 48, 309-331, doi:10.1134/S0001433812030048, 2012

Krishnappa N. *and* ***A. Feller***, Precision in ground-based solar polarimetry: simulating the role of adaptive optics, Appl. Opt., 51(33), 7953–7961, doi:10.1364/AO.51.007953, 2012.

Kronberg, E A*., S. Kasahara,* ***N. Krupp*** *and* ***J. Woch***, Field-aligned beams and reconnection in the jovian magnetotail, Icarus, 217, 55–65, doi:10.1016/j.icarus.2011.10.011, 2012.

***Kronberg, E. A., S. E. Haaland, P. W. Daly**, E. E. Grigorenko, L. M. Kistler, **M. Fraenz** and I. Dandouras,* Oxygen and hydrogen ion abundance in the near-Earth magnetosphere: Statistical results on the response to the geomagnetic and solar wind activity conditions, J. Geophys. Res., 117, A12208, doi:10.1029/2012JA018071, 2012

***Krupp, N., E. Roussos, P. Kollmann**, C. Paranicas, D. G. Mitchell, S. M. Krimigis, A. Rymer, G. H. Jones, C. S. Arridge, T. P. Armstrong and K. K. Khurana*, The Cassini Enceladus encounters 2005-2010 in the view of energetic electron measurements, Icarus, 218, 433–447, doi:10.1016/j.icarus.2011.12.018, 2012.

*Küppers, M., R. Moissl**, J.-B. Vincent**, S. Besse, **S. F. Hviid**, B. Carry, B. Grieger, **H. Sierks,** H. U. Keller, S. Marchi and the OSIRIS team*, Boulders on Lutetia, Planet. Space Sci., 66(1), 71–78, doi:10.1016/j.pss.2011.11.004, 2012.

*Kutepov, A. A., A. G. Feofilov, **A. S. Medvedev**, U. Berger, M. Kaufmann and A. W. A. Pauldrach*, Infra-red Radiative Cooling/Heating of the Mesosphere and Lower Thermosphere Due to the Small-Scale Temperature Fluctuations Associated with GravityWaves, in: Climate and Weather of the Sun-Earth System (CAWSES) Highlights from a Priority Program (edited by F.-J. Lübken), pp. 429–442, Springer, Dordrecht, 2012, ISBN 978-94-007-4348-9, doi:10.1007/978-94-007-4348-9_23.

*Lamy, P., P. Vernazza, J. Poncy, V. Martinot, E. Hinglais, E. Canalias, J. Bell, D. Cruikshank, O. Groussin, J. Helbert, F. Marzari, A. Morbidelli, P. Rosenblatt and **H. Sierks***, Trojans' Odyssey: Unveiling the early history of the Solar System, Experimental Astronomy, 33(2-3), 685-72, doi:10.1007/s10686-011-9253-2, 2012.

*Lemaire, P., J.-C. Vial, **W. Curdt, U. Schühle** and T. N. Woods*, The solar hydrogen Lyman α to Lyman β line ratio, Astron. & Astrophys., 542, L25, doi:10.1051/0004-6361/201219026, 2012.

*Le Roy, L., G. Briani, Ch. Briois, H. Cottin, N. Fray, L. Thirkell, G. Poulet and **M. Hilchenbach***, On the prospective detection of polyoxymethylene in comet 67P/Churyumov-Gerasimenko with the COSIMA instrument onboard Rosetta, Planet. Space Sci., 65, 83–92, doi:10.1016/j.pss.2012.01.011, 2012.

***Lee, Y. J., D. V. Titov**, S. Tellmann, **A. Piccialli**, N. Ignatiev, M. Pätzold, B. Häusler, G. Piccioni and P. Drossart,* Vertical structure of the Venus cloud top from the VeRa and VIRTIS observations onboard Venus Express, Icarus, 217(2), 599–609, doi:10.1016/j.icarus.2011.07.001, 2012.

***Li, K., S. Haaland**, A. Eriksson, M. André, E. Engwall, **Y. Wei, E. A. Kronberg, M. Fränz, P. W. Daly**, H. Zhaoand Q. Y. Ren*, On the ionospheric source region of cold ion outflow, Geophys. Res. Lett., 39, L18102, doi:10.1029/2012GL053297, 2012.

*Lin, Z.-Y., L. M. Lara, **J.-B. Vincent** and W.-H. Ip,* Physical studies of 81P/Wild 2 from the last two apparitions, Astron. & Astrophys., 537, A101, doi:10.1051/0004-6361/201116848, 2012.

*Liu, C., N. Deng, R. Liu, J. Lee, **T. Wiegelmann**, J. Jing, Y. Xu, S. Wang and H. Wang*, Rapid Changes of Photospheric Magnetic Field after Tether-cutting Reconnection and Magnetic Implosion, Astrophys. J., 745, L4, doi:10.1088/2041-8205/745/1/L4, 2012.

*Liu, J., L. Liu, B. Zhao, **Y. Wei**, L. Hu and B. Xiong*, High-speed Stream Impacts on the Equatorial Ionization Anomaly Region during the Deep Solar Minimum Year 2008, J. Geophys. Res., 117, A10304, doi:10.1029/2012JA018015, 2012.

*Lowry, S., S. R. Duddy, B. Rozitis, S. F. Green, A. Fitzsimmons, **C. Snodgrass**, H. H. Hsieh and O. Hainaut*, The nucleus of Comet 67P/Churyumov-Gerasimenko. A new shape model and thermophysical analysis, Astron. & Astrophys., 548, A12, doi:10.1051/0004-6361/201220116, 2012.

*Luo, Y., **S. Hanasoge**, J. Tromp and F. Pretorius*, Detectable seismic consequences of the interaction of a primordial black hole with Earth, Astrophys. J., 751, 16, doi:10.1088/0004-637X/751/1/16, 2012.

*Lybekk, B., A. Pedersen, **S. Haaland**, K. Svenes, A. N. Fazakerley, A. Masson, M. G. G. T. Taylor and J.-G. Trotignon*, Solar cycle variations of the Cluster spacecraft potential and its use for electron density estimations, J. Geophys. Res., 117, A01217, doi:10.1029/2011JA016969, 2012.

Machtoub, G., Modeling the hydrological cycle on Mars, J. Adv. Modeling Earth Systems, 4, M03001, doi:10.1029/2011MS000069, 2012.

*Magrin, S., F. La Forgia, M. Pajola, M. Lazzarin, M. Massironi, F. Ferri, V. Da Deppo, C. Barbieri, **H. Sierks** and the OSIRIS Team*, (21) Lutetia spectrophotometry from Rosetta-OSIRIS images and comparison to ground-based observations, Planet. Space Sci., 66(1), 43-53, doi:10.1016/j.pss.2011.10.001, 2012.

*Majewski, P., L. Andricek, A. Bahr, G. De Vita, B. Gunther, K. Hermenau, **M. Hilchenbach**, T. Lauf, P. Lechner, G. Lutz, D. Miessner, M. Porro, J. Reiffers, R. Richter, G. Schaller, M. Schnecke, F. Schopper, H. Soltau, A. Stefanescu, R. Strecker, L. Struder and J. Treis*, DEPFET Macropixel Detectors for MIXS: Integration and Qualification of the Flight Detectors, IEEE Transactions on Nuclear Science, 59, 5, doi:10.1109/TNS.2012.2211616, 2012.

*Marchi, S., M. Massironi, **J.-B. Vincent**, A. Morbidelli, S. Mottola, F. Marzari, M. Küppers, S. Besse, N. Thomas, C. Barbieri, G. Naletto and **H. Sierks***, The Cratering History of Asteroid (21) Lutetia, Planet. Space Sci., 66(1), 87–95, doi:10.1016/j.pss.2011.10.010, 2012.

Marsch, E., Helios: Evolution of Distribution Functions 0.3-1 AU, Space Sci. Rev., 172, 23-39, doi: 10.1007/s11214-010-9734-z, 2012.

*Martens, P. C. H., G. D. R. Attrill, A. R. Davey, A. Engell, S. Farid, P. C. Grigis, J. Kasper, K. Korreck, S. H. Saar, A. Savcheva, Y. Su, P. Testa, M. Wills-Davey, P. N. Bernasconi, N.-E. Raouafi, V. A. Delouille, J. F. Hochedez, J. W. Cirtain, C. E. Deforest, R. A. Angryk, I. de Moortel, **T. Wiegelmann**, M. K. Georgoulis, R. T. J. McAteer and R. P. Timmons*, Computer Vision for the Solar Dynamics Observatory (SDO), Solar Phys., 275, 79–113, doi:10.1007/s11207-010-9697-y, 2012.

*Martínez González, M. J., L. R. Bellot Rubio, **S. K. Solanki**, V. Martínez Pillet, J. C. Del Toro Iniesta, **P. Barthol** and W. Schmidt,* Resolving the internal magnetic structure of the solar network, Astrophys. J., 758(2), L4, doi:10.1088/2041-8205/758/2/L40, 2012.

*Massironi, M., S. Marchi, M. Pajola, **C. Snodgrass**, N. Thomas, **C. Tubiana, J.-B. Vincent**, C. Barberi, G. Creomonese, V. da Deppo, F. Ferri, S. Magrin, **H. Sierks**, C. Barbieri, P. Lamy, H. Rickman, R. Rodrigo, D. Koschny and the Rosetta-OSIRIS Team*, Geological map and stratigraphy of asteroid 21 Lutetia, Planet. Space Sci., 66(1), 125–136, doi:10.1016/j.pss.2011.12.024, 2012.

*Matsui, H., F. Darrouzet, J. Goldstein, P. A. Puhl-Quinn, Yu. V. Khotyaintsev, P.-A. Lindqvist, **E. Georgescu**, C. G. Mouikis and R. B. Torbert*, Multi-spacecraft observations of small-scale fluctuations in density and fields in plasmaspheric plumes, Ann. Geophys., 30, 623–637, doi:10.5194/angeo-30-623-2012, 2012.

*Matthews, S. A., D. R. Williams, K.-L. Klein, E. P. Kontar, D. M. Smith, **A. Lagg,** S. Krucker, G. J. Hurford, N. Vilmer, A. L. MacKinnon, V. V. Zharkova, L. Fletcher, I. G. Hannah, P. K. Browning, **D. E. Innes**, G. Trottet, C. Foullon, V. M. Nakariakov, L. M. Green, H. Lamoureux, C. Forsyth, D. M. Walton, M. Mathioudakis, **A. Gandorfer**, V. Martinez-Pillet, O. Limousin, E. Verwichte, S. Dalla, G. Mann, H. Aurass and T. Neukirch,* Solar Particle Acceleration Radiation and Kinetics (SPARK) A mission to understand the nature of particle acceleration, Exp. Astron. 33, SI, 237-269, doi:10.1007/s10686-011-9260-3, 2012

*McCord, T. B., J.-Y. Li, J.-P. Combe, H. Y. McSween, R. Jaumann, **V. Reddy**, F. Tosi, D. A. Williams, D. T. Blewett, D. Turrini, E. Palomba, C. M. Pieters, M. C. De Sanctis, E. Ammannito, M. T. Capria,*

L. Le Corre, *A. Longobardo,* ***A. Nathues****, D. W. Mittlefehldt,* ***S. E. Schroeder****, H. Hiesinger, A. W. Beck, F. Capaccioni, U. Carsenty, H. U. Keller, B. W. Denevi, J. M. Sunshine, C. A. Raymond and C. T. Russell*, Dark material on Vesta from the infall of carbonaceous volatile-rich material, Nature, 491, 83–86, doi:10.1038/nature11561, 2012.

Medvedev A. S*. and E. Yiğit*, Thermal effects of internal gravity waves in the Martian upper atmosphere, Geophys. Res. Lett., L05201, doi:10.1029/2012GL050852, 2012.

Metcalfe, T. S., W. J. Chaplin, T. Appourchaux, R. A. García, S. Basu, I. Brandão, O. L. Creevey, S. Deheuvels, G. Doğan, P. Eggenberger, C. Karoff, A. Miglio, D. Stello, M. Yıldız, Z. Çelik, H. M. Antia, O. Benomar, R. Howe, C. Régulo, D. Salabert, ***T. Stahn****, T. R. Bedding, G. R. Davies, Y. Elsworth,* ***L. Gizon****, S. Hekker, S. Mathur, B. Mosser, S. T. Bryson, M. D. Still, J. Christensen-Dalsgaard, R. L. Gilliland, S. D. Kawaler, H. Kjeldsen, K. A. Ibrahim, T. C. Klaus and J. Li,* Asteroseismology of the Solar Analogs 16 Cyg A and B from Kepler Observations, Astrophys. J., 748(1), L10, doi:10.1088/2041-8205/748/1/L10, 2012.

Miyake, N., A. Udalski, T. Sumi, D. P. Bennett, S. Dong, R. A. Street, J. Greenhill, I. A. Bond, A. Gould, M. Kubiak, M. K. Szymanski, G. Pietrzynski, I. Soszynski, K. Ulaczyk, L. Wyrzykowski, F. Abe, A. Fukui, K. Furusawa, S. Holderness, Y. Itow, A. Korpela, C. H. Ling, K. Masuda, Y. Matsubara, Y. Muraki, T. Nagayama, K. Ohnishi, N. Rattenbury, To. Saito, T. Sako, D. J. Sullivan, W. L. Sweatman, P. J. Tristram, P. C. M. Yock, W. Allen, G. W. Christie, D. L. DePoy, B. S. Gaudi, C. Han, C.-U. Lee, J. McCormick, B. Monard, T. Natusch, B.-G. Park, R. W. Pogge, A. Allan, M. Bode, D. M. Bramich, N. Clay, M. Dominik, K. D. Horne, N. Kains, C. Mottram, ***C. Snodgrass****, I. Steele, Y. Tsapras, M. D. Albrow, V. Batista, J. P. Beaulieu, S. Brillant, M. Burgdorf, J. A. R. Caldwell, A. Cassan, A. Cole, K. H. Cook, Ch. Coutures, S. Dieters, D. Dominis Prester, J. Donatowicz, P. Fouqué, U. G. Jorgensen, S. Kane, D. Kubas, J. B. Marquette, R. Martin, J. Menzies, K. R. Pollard, K. C. Sahu, J. Wambsganss, A. Williams and M.* Zub, A possible binary system of a stellar remnant in the high magnification gravitational microlensing event OGLE-2007-BLG-514, Astrophys. J., 752(2), 82, doi:10.1088/0004-637X/752/2/82, 2012.

Modolo, R., G. Chanteur and ***E. Dubinin***, Dynamic Martian magnetosphere: Transient twist induced by a rotation of the IMF, Geophys. Res. Lett., 39, L01106, doi:10.1029/2011GL049895, 2012.

Moll, R., R. H. Cameron *and* ***M. Schüssler***, Vortices, shocksand heating in the solar photosphere: effect of a magnetic field, Astron. & Astrophys., 541, A68, doi:10.1051/0004-6361/201218866, 2012.

Mommert, M., A. W. Harris, C. Kiss, A. Pál, P. Santos-Sanz, J. Stansberry, A. Delsanti, E. Vilenius, T. G. Müller, N. Peixinho, E. Lellouch, N. Szalai, F. Henry, R. Duffard, S. Fornasier, ***P. Hartogh****, M. Mueller, J. L. Ortiz, S. Protopapa,* ***M. Rengel*** *and A. Thirouin*, TNOs are Cool: A survey of the trans-Neptunian region V. Physical characterization of 18 Plutinos using Herschel PACS observations, Astron. & Astrophys., 541, A93, doi:10.1051/0004-6361/201118562, 2012.

Moreno, R., E. Lellouch, L. Lara, H. Feuchtgruber, ***M. Rengel, P. Hartogh*** *and R. Courtin*, The abundance, vertical distribution and origin of H2O in Titan's atmosphere: Herschel observations and photochemical modelling, Icarus, 221, 753–767, doi:10.1016/j.icarus.2012.09.006, 2012.

Morgenthaler, A., P. Petit, S. Saar, ***S.K. Solanki****, J. Morin, S.C. Marsden, M. Auriere, B. Dintrans, R. Fares,* ***T. Gastine****, J. Lanoux, F. Lignieres, F. Paletou, J.C. Ramirez Velez, S. Theado and V. Van Grootel*, Long-term magnetic field monitoring of the Sun-like star ξ Bootis A, Astron. & Astrophys., 540, A138, doi:10.1051/0004-6361/201118139, 2012.

Morse, A. D., K. Altwegg, D. J. Andrews, H. U. Auster, C. M. Carr, M. Galand, ***F. Goesmann****, S. Gulkis, S. Lee, I. Richter, S. Sheridan, S. A. Stern, M. F. AHearn, P. Feldman, J. Parker, K. D. Retherford, H. A. Weaver and I. P. Wright*, The Rosetta campaign to detect an exosphere at Lutetia, Planet. Space Sci., 66, 165–172, doi:10.1016/j.pss.2012.01.003, 2012.

Nagnibedaa, V. G. and ***M. A. Loukitcheva***, Diagnostics of solar chromosphere plasma based on observations of millimeter radiation, Chemical Physics, 398, 33-36, doi:10.1016/j.chemphys.2011.06.018, 2012.

Nakamichi, A., H. Mouri, ***D. Schmitt****, A. Ferriz-Mas,* ***J. Wicht*** *and M. Morikawa*, Coupled spin models for magnetic variation of planets and stars, Mon. Not. Roy. Astron. Soc., 423(4), 2977-2990, doi:10.1111/j.1365-2966.2012.20862.x, 2012.

Nickeler D. H. and ***T. Wiegelmann***, Relation between current sheets and vortex sheets in stationary incompressible MHD, Ann. Geophys., 30, 545–555, doi:10.5194/angeo-30-545-2012, 2012.

Nickeler, D. H., M. Karlický and ***M. Bárta***, Topological skeleton of the 2-D slightly non-ideal MHD system close to X-type magnetic null points – an analysis of the general solution for the generic case, Ann. Geophys. , 30(6), 1015-1023, doi:10.5194/angeo-30-1015-2012, 2012.

Nindos, A., S. Patsourakos and ***T. Wiegelmann***, On the Role of the Background Overlying Magnetic Field in Solar Eruptions, Astrophys. J., 748, L6, doi:10.1088/2041-8205/748/1/L6, 2012.

*Nykyri, K., A. Otto, E. Adamson****, E. Kronberg and P. Daly***, On the origin of high-energy particles in the cusp diamagnetic cavity, J. Atmos. Solar-Terr. Phys., 87-88, 70–81, doi:10.1016/j.jastp.2011.08.012, 2012.

Oberländer, S., U. Langematz, K. Matthes, M. Kunze, A. Kubin, J. Harder, ***N. A. Krivova, S. K. Solanki****, J. Pagaran and M. Weber*, The influence of spectral solar irradiance data on stratospheric heating rates during the 11 year solar cycle, Geophys. Res. Lett., 39(1), L01801, doi:10.1029/2011GL049539, 2012.

Okada, Y., R. Güsten, M. A. Requena-Torres, M. Röllig, ***P. Hartogh****, H.-W. Hübers, T. Klein, O. Ricken, R. Simon and J. Stutzki*, Dynamics and photodissociation region properties in IC 1396A, Astron. & Astrophys., 542, L10, doi:10.1051/0004-6361/201218911, 2012.

Olson, P., ***U. R. Christensen*** *and P. E. Driscoll*, From Superchrons to Secular Variation: A Broadband Dynamo Frequency Spectrum for the Geomagnetic Dipole Moment, Earth Planet. Sci. Lett., 319, 75-82, doi:10.1016/j.epsl.2011.12.008, 2012.

Paganini, L., M. J. Mumma, G. L. Villanueva, M. A. DiSanti, B. P. Bonev, ***M. Lippi*** *and* ***H. Boehnhardt***, The Chemical Composition of CO-rich Comet C/2009 P1 (Garradd) AT R h = 2.4 and 2.0 AU before Perihelion, Astrophys. J., 748, L13, doi:10.1088/2041-8205/748/1/L13, 2012.

Pajola, M., M. Lazzarin, I. Bertini, F. Marzari, D. Turrini, S. Magrin, F. La Forgia, N. Thomas, M. Kuppers, R. Moissl, F. Ferri, C. Barbieri, H. Rickman, ***H. Sierks*** *and the OSIRIS Team,* Spectrophotometric investigation of Phobos with the Rosetta OSIRIS-NAC camera and implications for its collisional capture, Monthly notices of the Royal Astronomical Society, 427, 3230-3243, doi:10.1111/j.1365-2966.2012.22026.x, 2012.

Pál, A., C. Kiss, T. G. Müller, P. Santos-Sanz, E. Vilenius, N. Szalai, M. Mommert, E. Lellouch, ***M. Rengel, P. Hartogh****, S. Protopapa, J. Stansberry, J.-L. Ortiz, R. Duffard, A. Thirouin, F. Henry and A. Delsanti*, "TNOs are Cool": A survey of the trans-Neptunian region. VII. Size and surface characteristics of (90377) Sedna and 2010 EK139, Astron. & Astrophys., 541, L6, doi:10.1051/0004-6361/201218874, 2012.

Palacios, J., J. Blanco Rodríguez, S. Vargas Domínguez, V. Domingo, V. Martínez Pillet, J. A. Bonet, L. R. Bellot Rubio, J. C. Del Toro Iniesta, ***S. K. Solanki, P. Barthol, A. Gandorfer****, T. Berkefeld, W. Schmidt and M. Knölker*, Magnetic Fiel Emergence in Mesogranular-Sized Exploring Granules Observed with SUNRISE/IMaX Data, Astron. & Astrophys., 537, A21, doi:10.1051/0004-6361/201117936, 2012.

Panov, E. V., R. Nakamura, W. Baumjohann, M. G. Kubyshkina, A. V. Artemyev, V. A. Sergeev, A. A. Petrukovich, V. Angelopoulos, ***K.-H. Glassmeier****, J. P. McFadden and D. Larson*, Kinetic balloon-

ing/interchange instability in a bent plasma sheet, J. Geophys. Res., 117, A06228, doi:10.1029/2011JA017496, 2012.

*Paranicas, C., **E. Roussos, N. Krupp, P. Kollmann**, A. R. Hendrix, T. Cassidy, R. E. Johnson, P. Schenk, G. Jones, J. Carbary, D. G. Mitchell and K. Dialynas*, Energetic charged particle weathering of Saturns inner satellites, Planet. Space Sci., 61, 60–65, doi:10.1016/j.pss.2011.02.012, 2012.

*Park, S. S., J. Kim, H. K. Cho, H. Lee, **Y. Lee** and K. Miyagawa*, Sudden increase in the total ozone density due to secondary ozone peaks and its effect on total ozone trends over Korea, Atmospheric Environment, 47, 226–235, doi:10.1016/j.atmosenv.2011.11.011, 2012.

Peter H.** and **S. Bingert, Constant cross section of loops in the solar corona, Astron. & Astrophys., 548, A1, doi:10.1051/0004-6361/201219473, 2012.

Peter, H., S. Bingert** and **S. Kamio, Catastrophic cooling and cessation of heating in the solar corona, Astron. & Astrophys., 537, A152, doi:10.1051/0004-6361/201117889, 2012.

***Peter, Hardi**, L. Abbo, V. Andretta, F. Auchere, A. Bemporad, F. Berrilli, V. Bommier, A. Braukhane, R. Casini, **W. Curdt**, J. Davila, H. Dittus, S. Fineschi, A. Fludra, **A. Gandorfer**, D. Griffin, **B. Inhester**, **A. Lagg**, E. L. Degl'Innocenti, V. Maiwald, R. Manso Sainz, V. Martinez Pillet, S. Matthews, D. Moses, S. Parenti, A. Pietarila, D. Quantius, N. -E. Raouafi, J. Raymond, P. Rochus, O. Romberg, M. Schlotterer, **U. Schuehle**, **S. Solanki**, D. Spadaro, **L. Teriaca**, S. Tomczyk, J. Trujillo Bueno and J.-C. Vial,* Solar magnetism eXplorer (SolmeX) Exploring the magnetic field in the upper atmosphere of our closest star, Exp. Astron., 33, SI, 271-303, doi:10.1007/s10686-011-9271-0, 2012.

*Petrova, E., **N. M. Hoekzema, W. J. Markiewicz**, N. Thomas and **O. J. Stenzel***, Optical depth of the Martian atmosphere and surface albedo from high-resolution orbiter images, Planet. Space Sci., 60, 287–296, doi:10.1016/j.pss.2011.09.008, 2012.

***Piccialli, A**., S. Tellmann, **D.V. Titov**, S.S. Limayed, I.V. Khatuntsev, M. Pätzold and B. Häusler*, Dynamical properties of the Venus mesosphere from the radio-occultation experiment VeRa onboard Venus Express, Icarus, 217(2), 669-681, doi:10.1016/j.icarus.2011.07.016, 2012.

*Pieters, C. M., E. Ammannito, D. T. Blewett, B. W. Denevi, M. C. De Sanctis, M. J. Gaffey, **L. Le Corre**, J.-Y. Li, S. Marchi, T. B. McCord, L. A. McFadden, D. W. Mittlefehldt, **A. Nathues**, E. Palmer, **V. Reddy**, C. A. Raymond and C. T. Russell*, Distinctive space weathering on Vesta from regolith mixing processes, Nature, 491, 79–82, doi:10.1038/nature11534, 2012.

*Prettyman, T. H., D. W. Mittlefehldt, N. Yamashita, D. J. Lawrence, A. W. Beck, W. C. Feldman, T. J. McCoy, H. Y. McSween, M. J. Toplis, T. N. Titus, P. Tricarico, R. C. Reedy, J. S. Hendricks, O. Forni, **L. Le Corre**, J.-Y. Li, H. Mizzon, **V. Reddy**, C. A. Raymond and C. T. Russell*, Elemental Mapping by Dawn Reveals Exogenic H in Vesta's Regolith, Science, doi:10.1126/science.1225354, 2012.

*Puschmann, K. G., C. Denker, F. Kneer, N. Al Erdogan, H. Balthasar, S. M. Bauer, C. Beck, N. Bello González, M. Collados, T. Hahn, **J. Hirzberger**, A. Hofmann, R.E. Louis, H. Nicklas, O. Okunev, V. Martínez Pillet, E. Popow, T. Seelemann, R. Volkmer, A. D. Wittmann and M. Woche,* The GREGOR Fabry-Pérot Interferometer, Astron. Nachr., 333(9), 880–893, doi:10.1002/asna.201211734, 2012.

***Reddy, V**., M. J. Gaffey, P. A. Abell and P. S. Hardersen*, Constraining albedo, diameter and composition of near-Earth asteroids via near-infrared spectroscopy, Icarus, 219, 382–392, doi:10.1016/j.icarus.2012.03.005, 2012.

***Reddy, V., L. Le Corre**, M. Hicks, K. Lawrence, B. J. Buratti, P. A. Abell, M. J. Gaffey and P. S. Hardersen*, Composition of Near-Earth Asteroid 2008 EV5: Potential target for Robotic and Human Exploration, Icarus, 221(2), 678–681, doi:10.1016/j.icarus.2012.08.035, 2012.

***Reddy, V., L. Le Corre**, D. P. O'Brien, **A. Nathues**, E. A. Cloutis, D. D. Durda, W. F. Bottke, **M. U. Bhatt**, D. Nesvorny, D. Buczkowski, J. E. C. Scully, E. M. Palmer, **H. Sierks**, P. J. Mann, K. J. Becker, A. W. Beck, D. Mittlefehldt, J.-Y. Li, R. Gaskell, C. T. Russell, M. J. Gaffey, H. Y. McSween, T. B. McCord, J.-P. Combe and D. Blewett*, Delivery of Dark Material to Vesta via Carbonaceous Chondritic Impacts, Icarus, doi:10.1016/j.icarus.2012.08.011, 2012.

***Reddy, V., A. Nathues, L. Le Corre, H. Sierks**, J.-Y. Li, R. Gaskell, T. McCoy, A. W. Beck, **S. E. Schröder**, C. M. Pieters, K. J. Becker, B. J. Buratti, B. Denevi, D. T. Blewett, **U. Christensen**, M. J. Gaffey, **P. Gutierrez-Marques**, M. Hicks, H. U. Keller, **T. Maue**, S. Mottola, L. A. McFadden, H. Y. McSween, D. Mittlefehldt, D. P. O'Brien, C. Raymond and C. Russell,* Color and Albedo Heterogeneity of Vesta from Dawn, Science, 336, 700–704, doi:10.1126/science.1219088, 2012.

***Reddy, V**., J. A. Sanchez, M. J. Gaffey, P. A. Abell**, L. Le Corre** and P. S. Hardersen*, Composition of Near-Earth Asteroid (4179) Toutatis, Icarus, 221(2), 1177–1179, doi:10.1016/j.icarus.2012.10.005, 2012.

***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. Paul 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, doi:10.1016/j.icarus.2011.10.010, 2012.

*Richer, E., G. M. Chanteur, R. Modolo and **E. Dubinin***, Reflection of solar wind protons on the Martian bow shock: Investigations by means of 3-dimensional simulations, Geophys. Res. Lett., 39, L17101, doi:10.1029/2012GL052858, 2012.

*Richter, I., H.U. Auster, **K.H. Glassmeier, C. Koenders**, C.M. Carr, U. Motschmannd, J. Müllerd and S. McKenna-Lawlor*, Magnetic field measurements during the ROSETTA flyby at asteroid (21)Lutetia, Planet. Space Sci., 66(1), 155-164, doi:10.1016/j.pss.2011.08.009, 2012.

*Roelfsema, P. R., F. P. Helmich, D. Teyssier, V. Ossenkopf, P. Morris, M. Olberg, R. Shipman, C. Risacher, M. Akyilmaz, R. Assendorp, I. M. Avruch, D. Beintema, N. Biver, A. Boogert, C. Borys, J. Braine, M. Caris, E. Caux, J. Cernicharo, O. Coeur-Joly, C. Comito, G. de Lange, B. Delforge, P. Dieleman, L. Dubbeldam, T. de Graauw, K. Edwards, M. Fich, F. Flederus, C. Gal, A. di Giorgio, F. Herpin, D. R. Higgins, A. Hoac, R. Huisman, **C. Jarchow**, W. Jellema, A. de Jonge, D. Kester, T. Klein, J. Kooi, C. Kramer, W. Laauwen, B. Larsson, C. Leinz, S. Lord, A. Lorenzani, W. Luinge, A. Marston, J. Martín-Pintado, C. McCoey, M. Melchior, M. Michalska, R. Moreno, H. Müller, W. Nowosielski, Y. Okada, P. Orleański, T. G. Phillips, J. Pearson, D. Rabois, L. Ravera, J. Rector, **M. Rengel**, **H. Sagawa**, W. Salomons, E. Sánchez-Suárez, R. Schieder, F. Schlöder, , F. Schmülling, M. Soldati, J. Stutzki, B. Thomas, A. G. G. M. Tielens, C. Vastel, K. Wildeman, Q. Xie, M. Xilouris, C. Wafelbakker, N. Whyborn, P. Zaal, T. Bell, P. Bjerkeli, E. de Beck, T. Cavalié, N. R. Crockett, P. Hily-Blant, M. Kama, T. Kaminski, B. Leflóch, R. Lombaert., M. De Luca, Z. Makai, M. Marseille, Z. Nagy, S. Pacheco, M. H. D. van der Wiel, S. Wag and U. Yıldız*, In-orbit performance of Herschel-HIFI, Astron. & Astrophys., 537, A17, doi:10.1051/0004-6361/201015120, 2012.

*Röllig, M., R. Simon, R. Güsten, J. Stutzki, H.-W. Hübers, **P. Hartogh**, K. Jakobs, X. Guan and F. Israel*, [CII] gas in IC 342, Astron. & Astrophys., 542, L22, doi:10.1051/0004-6361/201218935, 2012.

*Roudier, Th., M. Rieutord, J. M. Malherbe, N. Renon, T. Berger, Z. Frank, V. Prat, **L. Gizon** and **M. Švanda***, Quasi full-disk maps of solar horizontal velocities using SDO/HMI data, Astron. & Astrophys., 540, A88, doi:10.1051/0004-6361/201118678, 2012.

***Roussos, E., P. Kollmann, N. Krupp**, C. Paranicas, S. M. Krimigis, D. G. Mitchell, A. M. Persoon, D. A. Gurnett, W. S. Kurth, H. Kriegel, S. Simon, K. K. Khurana, G. H. Jones, J.-E. Wahlund and M. K. G. Holmberg,* Energetic electron observations of Rhea's magnetospheric interaction, Icarus, 221, 116–134, doi:10.1016/j.icarus.2012.07.006, 2012.

Russell, C. T., C. A. Raymond, A. Coradini, H. Y. McSween, M. T. Zuber, ***A. Nathues****, M. C. De Sanctis, R. Jaumann, A. S. Konopliv, F. Preusker, S. W. Asmar, R. S. Park, R. Gaskell,* ***H. U. Keller****, S. Mottola, T. Roatsch, J. E. C. Scully, D. E. Smith, P. Tricarico, M. J. Toplis,* ***U. R. Christensen****, W. C. Feldman, D. J. Lawrence, T. J. McCoy, T. H. Prettyman, R. C. Reedy, M. E. Sykes and T. N. Titus,* Dawn at Vesta: Testing the Protoplanetary Paradigm, Science, 336(6082), 684-686, doi:10.1126/science.1219381, 2012.

Sanchez, J., V. Reddy, A. Nathues*, E. Cloutis, P. Mann and H. Hiesinger,* Phase reddening on near-Earth asteroids: Implications for mineralogical analysis, space weathering and taxonomic classification, Icarus, 220, 36–50, doi:10.1016/j.icarus.2012.04.008, 2012.

Santos-Sanz, P., E. Lellouch, S. Fornasier, C. Kiss, A. Pal, T. G. Müller, E. Vilenius, J. Stansberry, M. Mommert, A. Delsanti, M. Mueller, N. Peixinho, F. Henry, J. L. Ortiz, A. Thirouin, S. Protopapa, R. Duffard, N. Szalai, T. Lim, ***C. Ejeta, P. Hartogh****, A. W. Harris and* ***M. Rengel***, "TNOs are Cool": A survey of the trans-Neptunian region. IV. Size/albedo characterization of 15 scattered disk and detached objects observed with Herschel-PACS, Astron. & Astrophys., 541, A92, doi:10.1051/0004-6361/201118541, 2012.

Savin, S., E. Amata, L. Zelenyi, V. Lutsenko, J. Safrankova, Z. Nemecek, N. Borodkova, ***J. Buechner, P. W. Daly, E. A. Kronberg,*** *J. Blecki, V. Budaev, L. Kozak, A. Skalsky and L. Lezhen*, Super fast plasma streams as drivers of transient and anomalous magnetospheric dynamics, Ann. Geophys., 30, 1–7, doi:10.5194/angeo-30-1-2012, 2012.

*Schmidt, W., O. von der Lühe, R. Volkmer, C. Denker****, S.K. Solanki****, H. Balthasar, N. Bello González, Th. Berkefeld, M. Collados, A. Fischer, C. Halbgewach1, F. Heidecke, A. Hofmann, F. Kneer,* ***A. Lagg****, H. Nicklas, E. Popow, K.G. Puschmann, D. Schmidt, M. Sigwarth, M. Sobotka, D. Soltau, J. Staude, K.G. Strassmeier and T.A. Waldmann,* The 1.5 meter solar telescope GREGOR, Astron. Nachr., 333(9), 796–809, doi:10.1002/asna.201211725, 2012.

Schmidt, G. A., J. H. Jungclaus, C. M. Ammann, E. Bard, P. Braconnot, T. J. Crowley, G. Delaygue, F. Joos, ***N. A. Krivova****, R. Muscheler, B. L. Otto-Bliesner, J. Pongratz, D. T. Shindell****, S. K. Solanki****, F. Steinhilber and L. E. A. Vieira*, Climate forcing reconstructions for use in PMIP simulations of the Last Millennium (v1.1), Geoscientific Model Development, 5(1), 185–191, doi:10.5194/gmd-5-185-2012, 2012.

Schroeder, S. E., *E. L. Karkoschka and R. D. Lorenz*, Bouncing on Titan: Motion of the Huygens probe in the seconds after landing, Planet. Space Sci., 73, 327-340, doi:10.1016/j.pss.2012.08.007, 2012.

Schulz, R., ***H. Sierks****, M. Küppers and A. Accomazzo*, Rosetta fly-by at asteroid (21) Lutetia: An overview, Planet. Space Sci., 66(1), 2-8, doi:10.1016/j.pss.2011.11.013, 2012.

Shalygin, E. V., A. T. Basilevsky, W. J. Markiewicz*, D. V. Titov, M. A. Kreslavsky and Th. Roatsch*, Search for ongoing volcanic activity on Venus: Case study of Maat Mons, Sapas Mons and Ozza Mons volcanoes, Planet. Space Sci., doi:10.1016/j.pss.2012.08.018, 2012.

Shin, I.-G., C. Han, J.-Y. Choi, A. Udalski, T. Sumi, A. Gould, V. Bozza, M. Dominik, P. Fouqué, K. Horne, M., K. Szymański, M. Kubiak, I. Soszyński, G. Pietrzyński, R. Poleski, K. Ulaczyk, P. Pietrukowicz, S. Kozłowski, J. Skowron, Ł. Wyrzykowski, F. Abe, D.P. Bennett, I.A. Bond, C.S. Botzler, P. Chote, M. Freeman, A. Fukui, K. Furusawa, Y. Itow, S. Kobara, C.H. Ling, K. Masuda, Y. Matsubara, N. Miyake, Y. Muraki, K. Ohmori, K. Ohnishi, N.J. Rattenbury, To. Saito, D.J. Sullivan, D. Suzuki, K. Suzuki, W.L. Sweatman, S. Takino, P.J. Tristram, K. Wada, P.C.M. Yock, D.M. Bramich, ***C. Snodgrass****, I.A. Steele, R.A. Street, Y. Tsapras, K.A. Alsubai, P. Browne, M.J. Burgdorf, S. Calchi Novati, P. Dodds, S. Dreizler, X.-S. Fang, F. Grundahl, C.-H. Gu, S. Hardis, K. Harpsœ, T. C. Hinse, A. Hornstrup, M. Hundertmark, J. Jessen-Hansen, U. G. Jørgensen, N. Kains, E. Kerins, C. Liebig, M. Lund, M. Lunkkvist, L. Mancini, M. Mathiasen, M. T. Penny, S. Rahvar, D. Ricci, G. Scarpetta, J. Skottfelt, J. Southworth, J. Surdej, J. Tregloan-Reed, J. Wambsganss, O. Wertz, L. A. Almeida, V. Batista, G. Christie, D. L. DePoy, Subo Dong, B. S.*

Gaudi, C. Henderson, F. Jablonski, C.-U. Lee, J. McCormick, D. McGregor, D. Moorhouse, T. Natusch, H. Ngan, S.-Y. Park, R. W. Pogge, T.-G. Tan, G. Thornley, J. C. Yee, M. D. Albrow, E. Bachelet, J.-P. Beaulieu, S. Brillant, A. Cassan, A. A. Cole, E. Corrales, C. Coutures, S. Dieters, D. Dominis Prester, J. Donatowicz, J. Greenhill, D. Kubas, J.-B. Marquette, J. W. Menzies, K. C. Sahu and M. Zub, Characterizing Low-Mass Binaries From Observation of Long Time-scale Caustic-crossing Gravitational Microlensing Events, Astrophys. J., 755(2), 91, doi:10.1088/0004-637X/755/2/91, 2012.

Shin, I.-G., J.-Y. Choi, S.-Y. Park, C. Han, A. Gould, T. Sumi, A. Udalski, J.-P. Beaulieu, M. Dominik, W. Allen, M. Bos, G.W. Christie, D.L. Depoy, S. Dong, J. Drummond, A. Gal-Yam, B.S. Gaudi, L.-W. Hung, J. Janczak, S. Kaspi, C.-U. Lee, F. Mallia, D. Maoz, A. Maury, J. McCormick, L.A.G. Monard, D. Moorhouse, J. A. Muñoz, T. Natusch, C. Nelson, B.-G. Park, R. W. Pogge, D. Polishook, Y. Shvartzvald, A. Shporer, G. Thornley, J.C. Yee, F. Abe, D.P. Bennett, I.A. Bond, C.S. Botzler, A. Fukui, K. Furusawa, F. Hayashi, J.B. Hearnshaw, S. Hosaka, Y. Itow, K. Kamiya, P.M. Kilmartin, S. Kobara, A. Korpela, W. Lin, C.H. Ling, S. Makita, K. Masuda, Y. Matsubara, N. Miyake, Y. Muraki, M. Nagaya, K. Nishimoto, K. Ohnishi, T. Okumura, K. Omori, Y.C. Perrott, N. Rattenbury, To. Saito, L. Skuljan, D. J. Sullivan, D. Suzuki, W. L. Sweatman, P. J. Tristram, K. Wada, P. C. M. Yock, M. K. Szymański, M. Kubiak, G. Pietrzyński, I. Soszyński, R. Poleski, K. Ulaczyk, Ł. Wyrzykowski, S. Kozłowski, P. Pietrukowicz, M. D. Albrow, V. Batista, D. M. Bramich, S. Brillant, J. A. R. Caldwell, J. J. Calitz, A. Cassan, A. Cole, K. H. Cook, E. Corrales, Ch. Coutures, S. Dieters, D. Dominis Prester, J. Donatowicz, P. Fouqué, J. Greenhill, M. Hoffman, U. G. Jørgensen, S. R. Kane, D. Kubas, J.-B. Marquette, R. Martin, P. Meintjes, J. Menzies, K. R. Pollard, K. C. Sahu, J. Wambsganss, A. Williams, C. Vinter, M. Zub, A. Allan, P. Browne, K. Horne, ***C. Snodgrass****, I. Steele, R. Street, Y. Tsapras, K. A. Alsubai, V. Bozza, P. Browne, M. J. Burgdorf, S. Calchi Novati, P. Dodds, S. Dreizler, F. Finet, T. Gerner, M. Glitrup, F. Grundahl, S. Hardis, K. Harpsøe, F. V. Hessman, T. C. Hinse, M. Hundertmark, N. Kains, E. Kerins, C. Liebig, G. Maier, L. Mancini, M. Mathiasen, M. T. Penny, S. Proft, S. Rahvar, D. Ricci, G. Scarpetta, S. Schäfer, F. Schönebeck, J. Skottfelt, J. Surdej, J. Southworth and F. Zimmer*, Microlensing Binaries Discovered through High-Magnification Channel, Astrophys. J., 746(2), 127. doi:10.1088/0004-637X/746/2/127, 2012.

Shin, I.–G., C. Han, A. Gould, A. Udalski, T. Sumi, M. Dominik, J.-P. Beaulieu, Y. Tsapras, V. Bozza, M. K. Szymański, M. Kubiak, I. Soszyński, G. Pietrzyński, R. Poleski, K. Ulaczyk, P. Pietrukowicz, S. Kozłowski, J. Skowron, L. Wyrzykowski, F. Abe, D.P. Bennett, I.A. Bond, C.S. Botzler, M. Freeman, A. Fukui, K. Furusawa, F. Hayashi, J.B. Hearnshaw, S. Hosaka, Y. Itow, K. Kamiya, P.M. Kilmartin, S. Kobara, A. Korpela, W. Lin, C.H. Ling, S. Makita, K. Masuda, Y. Matsubara, N. Miyake, Y. Muraki, M. Nagaya, K. Nishimoto, K. Ohnishi, T. Okumura, K. Omori, Y.C. Perrott, N. Rattenbury, To. Saito, L. Skuljan, D. J. Sullivan, D. Suzuki, W. L. Sweatman, P. J. Tristram, K. Wada, P. C. M. Yock, G.W. Christie, D.L. Depoy, S. Dong, A. Gal-Yam, B.S. Gaudi, L.-W. Hung, J. Janczak, S. Kaspi, D. Maoz, J. McCormick, D. McGregor, D. Moorhouse, J. A. Muñoz, T. Natusch, C. Nelson, W. Pogge, T. -G. Tan, D. Polishook, Y. Shvartzvald, A. Shporer, G. Thornley, U. Malamud, J. C. Yee, J. -Y. Choi, Y. -K. Jung, H. Park, C. -U. Lee, B. -G. Park, J. -R. Koo, D. Bajek, D. M. Bramich, P. Browne, K. Horne, S. Ipatov, ***C. Snodgrass,*** *I. Steele, R. Street, K. A. Alsubai, M. J. Burgdorf, S. C. Novati, P. Dodds, S. Dreizler, X. -S. Fang, F. Grundahl, C. -H. Gu, S. Hardis, K. Harpsøe, T. C. Hinse, M. Hundertmark, J. Jessen-Hansen, U. G. Jørgensen, N. Kains, E. Kerins, C. Liebig, M. Lund, M. Lundkvist, L. Mancini, M. Mathiasen, A. Hornstrup, M. T. Penny, S. Proft, S. Rahvar, D. Ricci, G. Scarpetta, J. Skottfelt, J. Southworth, J. Surdej, J. Tregloan-Reed, O. Wertz, F. Zimmer, M. D. Albrow, V. Batista, S. Brillant, J. A. R. Caldwell, J. J. Calitz, A. Cassan, A. Cole, K. H. Cook, E. Corrales, Ch. Coutures, S. Dieters, D. Dominis Prester, , J. Donatowicz, P. Fouqué, , J. Greenhill, K. Hill, M. Hoffman, S. R. Kane, D. Kubas, J. -B. Marquette, R. Martin, P. Meintjes, J. Menzies, K. R. Pollard, K. C. Sahu, J. Wambsganss, A. Williams, C. Vinter, M. Zub, OGLE Collaboration, MOA Collaboration and FUN Collaboration,* Microlensing Binaries with Candidate Brown Dwarf Companions, Astrophys. J., 760, A116, doi: 10.1088/0004-637X/760/2/116, 2012.

Simon, R., N. Schneider, J. Stutzki, R. Güsten, U. U. Graf, ***P. Hartogh****, X. Guan, J. G. Staguhn and D. J. Bendord*, SOFIA observations of S106: dynamics of the warm gas, Astron. & Astrophys., 542, L12, doi:10.1051/0004-6361/201218931, 2012.

Simon, S., H. Kriegel, J. Saur, A. Wennmacher, F. M. Neubauer, ***E. Roussos****, U. Motschmann and M. K. Dougherty*, Analysis of Cassini magnetic field observations over the poles of Rhea, J. Geophys. Res., 117, A07211, doi:10.1029/2012JA017747, 2012.

Smith, H. M., ***E. Marsch*** *and P. Helander*, Electron Transport in the Fast Solar Wind, Astrophys. J., 753(1), 31, doi:10.1088/0004-637X/753/1/31, 2012.

Sonnemann, G. R., ***P. Hartogh****, U. Berger, F.-J. Lübken and M. Grygalashvyly*, Anthropogenic effects on the distribution of minor chemical constituents in the mesosphere/lower thermosphere - A model study, Adv. Space Res., 50, 5, doi:10.1016/j.asr.2012.05.016, 2012.

Southworth, J., M. Dominik, X.-S. Fang, K. Harpsøe, U. G. Jørgensen, E. Kerins, C. Liebig, L. Mancini, J. Skottfelt, D. R. Anderson, B. Smalley, J. Tregloan-Reed, O. Wertz, K. A. Alsubai, V. Bozza, S. Calchi Novati, S. Dreizler, S.-H. Gu, T. C. Hinse, M. Hundertmark, J. Jessen-Hansen, N. Kains, H. Kjeldsen, M. N. Lund, M. Lundkvist, M. Mathiasen, M. T. Penny, S. Rahvar, D. Ricci, G. Scarpetta, ***C. Snodgrass*** *and J. Surdej*, High-precision photometry by telescope defocussing IV. Confirmation of the huge radius ofWASP-17 b, Mon. Not. Roy. Astron. Soc., 426(2), 1338-1348, doi:10.1111/j.1365-2966.2012.21781.x, 2012.

Spjuth, S., *L. Jorda, P. L. Lamy, H. U. Keller and J.-Y. Li,* Disk-resolved photometry of Asteroid (2867) Steins, Icarus, 221, 1101-1118, doi:10.1016/j.icarus.2012.06.021, 2012.

Srama, R., ***H. Krüger****, T. Yamaguchi, T. Stephan, M. Burchell, A. T. Kearsley, V. Sterken, F. Postberg, S. Kempf, E. Grün, N. Altobelli, P. Ehrenfreund, V. Dikarev, M. Horanyi, Z. Sternovsky, J. D. Carpenter, A. Westphal, Z. Gainsforth, A. Krabbe, J. Agarwal, H. Yano, J. Blum, H. Henkel, J. Hillier, P. Hoppe, M. Trieloff, S. Hsu, A. Mocker, K. Fiege, S. F. Green, A. Bischoff, F. Esposito, R. Laufer, T. W. Hyde, G. Herdrich, S. Fasoulas, A. Jäckel, G. Jones, P. Jenniskens, E. Khalisi, G. Moragas-Klostermeyer, F. Spahn, H. U. Keller, P. Frisch, A. C. Levasseur-Regourd, N. Pailer, K. Altwegg, C. Engrand, S. Auer, J. Silen, S. Sasaki, M. Kobayashi, J. Schmidt, J. Kissel, B. Marty, P. Michel, P. Palumbo, O. Vaisberg, J. Baggaley, A. Rotundi and H. P. Röser*, SARIM PLUS—sample return of comet 67P/CG and of interstellar matter, Experimental Astronomy, 33(2-3), 723-751, doi:10.1007/s10686-011-9285-7, 2012.

Steininger, H., F. Goesmann *and* ***W. Goetz***, Influence of Magnesium Perchlorate on the Pyrolysis of Organic Compounds in Mars Analogue Soils, Planet. Space Sci., 71, 9–17, doi:10.1016/j.pss.2012.06.015, 2012.

Sterken, V. J., N. Altobelli, S. Kempf, ***H. Krüger****, F. Postberg, R. H. Soja, R. Srama and E. Grün*, An optimum opportunity for interstellar dust measurements by the JUICE mission, Planet. Space Sci., 71(1), 142-146, doi:10.1016/j.pss.2012.06.020, 2012.

Stevens, M. H., S. Lossow, J. Fiedler, G. Baumgarten, F.-J. Lübken, ***K. Hallgren, P. Hartogh****, C. E. Randall, J. Lumpe, S. M. Bailey, R. Niciejewski, R. R. Meier, J. M. C. Plane, A. J. Kochenash, D. P. Murtagh and C. R. Englert*, Bright polar mesospheric clouds formed by main engine exhaust from the space shuttles final launch, J. Geophys. Res., 117, D19206, doi:10.1029/2012JD017638, 2012.

Sun, X., J. T. Hoeksema, Y. Liu, ***T. Wiegelmann****, K. Hayashi, Q. Chenand and* ***J. Thalmann***, Evolution of Magnetic Field and Energy in a Major Eruptive Active Region Based on SDO/HMI Observation, Astrophys. J., 748, 77–92, doi:10.1088/0004-637X/748/2/77, 2012.

Tadesse, T., T. Wiegelmann, B. Inhester *and A. Pevtsov*, Coronal Magnetic Field Structure and Evolution for Flaring AR 11117 and Its Surroundings, Solar Phys., doi:10.1007/s11207-012-9961-4, 2012.

Tadesse, T., T. Wiegelmann, B. Inhester *and A. Pevtsov*, Magnetic Connectivity Between Active Regions 10987, 10988and 10989 by Means of Nonlinear Force-Free Field Extrapolation, Solar Phys., 277, 119–130, doi:10.1007/s11207-011-9764-z, 2012.

Teh, W.-L., R. Nakamura, M. Fujimoto, ***E. A. Kronberg****, A. N. Fazakerley,* ***P. W. Daly*** *and W. Baumjohann,* Electron dynamics in the reconnection ion diffusion region, Journal of Gephys. Res.-Space Physics, 117, A12225, doi:10.1029/2012JA017896, 2012.

Teriaca, L*., V. Andretta, F. Auchère, C. M. Brown, E. Buchlin, G. Cauzzi, J. L. Culhane,* ***W. Curdt****, J. M. Davila, G. Del Zanna, G. A. Doschek, S. Fineschi, A. Fludra, P. T. Gallagher, L. Green, L. K. Harra, S. Imada,* ***D. Innes****, B. Kliem, C. Korendyke, J. T. Mariska, V. Martínez-Pillet, S. Parenti, S. Patsourakos,* ***H. Peter****, L. Poletto, R. J. Rutten,* ***U. Schühle****, M. Siemer, T. Shimizu, H. Socas-Navarro,* ***S. K. Solanki****, D. Spadaro, J. Trujillo-Bueno, S. Tsuneta, S. V. Dominguez, J.-C. Vial, R. Walsh, H. P. Warren,* ***T. Wiegelmann****, B. Winter and P. Young*, LEMUR: Large European module for solar Ultraviolet Research. European contribution to JAXA's Solar-C mission, Experimental Astronomy, 34(2), 273–309, doi:10.1007/s10686-011-9274-x, 2012.

Teriaca, L., *H. P. Warren and* ***W. Curdt***, Spectroscopic Observations of Fe XVIII in Solar Active Regions, Astrophysical Journal Letters, 754, 40–44, doi:10.1088/2041-8205/754/2/L40, 2012.

Thalmann, J. K., *A. Pietarila, X. Sun and* ***T. Wiegelmann***, Nonlinear Force-free Field Modeling of a Solar Active Region Using SDO/HMI and SOLIS/VSM Data, Astron. J., 144, 33, doi:10.1088/0004-6256/144/2/33, 2012.

Thomas, M., C. Barbieri, H. U. Keller, P. Lamy, H. Rickman, R. Rodrigo, ***H. Sierks****, K. P. Wenzel, G. Cremonese, L. Jorda, M. Küppers, S. Marchi, F. Marzari, M. Massironi, F. Preusker, F. Scholten, K. Stephan, M. A. Barucci, S. Besse,* ***M. R. El-Maarry****, S. Fornasier, O. Groussin,* ***S. F. Hviid****, D. Koschny, E. Kührt, E. Martellato, R. Moissl,* ***C. Snodgrass, C. Tubiana*** *and* ***J.-B. Vincent***, The geomorphology of (21) Lutetia: Results from the OSIRIS imaging system onboard ESA's Rosetta spacecraft, Planet. Space Sci., 66(1), 96–124, doi:10.1016/j.pss.2011.10.003, 2012.

Thomsen, M. F., ***E. Roussos, M. Andriopoulou, P. Kollmann****, C. S. Arridge, C. P. Paranicas, D. A. Gurnett, R. L. Powell, R. L. Tokar and T. D. Young*, Saturn's inner magnetospheric convection pattern: Further evidence, J. Geophys. Res., 117, A09208, doi:10.1029/2011JA017482, 2012.

Tian, A. M., Q. G. Zong, T. L. Zhang, R. Nakamura, A. M. Du, W. Baumjohann, ***K. H. Glassmeier,*** *M. Volwerk, M. Hartinger, Y. F. Wang, J. Du, B. Yang, X. Y. Zhang and E. Panov,* Dynamics of long-period ULF waves in the plasma sheet: Coordinated space and ground observations, Journal of Geophys. Res.-Space Physics, 117, A03211, doi:10.1029/2011JA016551, 2012.

Tian, H., S. W. McIntosh, T. Wang, L. Ofman, B. De Pontieu, ***D. E. Innes*** *and* ***H. Peter***, Persistent Doppler Shift Oscillations Observed with Hinode/EIS in the Solar Corona: Spectroscopic Signatures of Alfvénic Waves and Recurring Upflows, Astrophys. J., 759, 144, doi:10.1088/0004-637X/759/2/144, 2012.

Titov, D. V., W. J. Markiewicz, N. I. Ignatiev, L. Song*, S. S. Limaye, A. Sanchez-Lavega,,* ***J. Hesemann****, M. Almeida, T. Roatsch, K.-D. Matz, F. Scholten, D. Crisp, L. W. Esposito,* ***S. F. Hviid****, R. Jaumann,* ***H. U. Keller*** *and* ***R. Moissl***, Morphology of the cloud tops as observed by the Venus Express Monitoring Camera, Icarus, 217(2), 682–701, doi:10.1016/j.icarus.2011.06.020, 2012.

Tiwari, S. K., On the Force-free Nature of Photospheric Sunspot Magnetic Fields as Observed from Hinode (SOT/SP), Astrophys. J., 744, 65, doi:10.1088/0004-637X/744/1/65, 2012.

Traversi, R., I.G. Usoskin, ***S.K. Solanki****, S. Becagli, M. Frezzotti, M. Severi, B. Stenni and R. Udisti*, Nitrate in Polar Ice: A New Tracer of Solar Variability, Sol. Phys., 280(1), 237-254, doi:10.1007/s11207-012-0060-3, 2012.

Ulamec, S., J. Biele, C. Fantinati, J.-F. Fronton, P. Gaudon, K. Geurts, C. Krause, ***O. Küchemann****, M. Maibaum, B. Pätz,* ***R. Roll****, R. Willnecker and the Philae Team,* Rosetta Lander—After seven

years of cruise, prepared for hibernation, Acta Astronautica, 81, 151-159, doi:10.1016/j.actaastro.2012.06.020, 2012.

Unruh, Y. C., W. T. Balland and ***N. A. Krivova***, Solar Irradiance Models and Measurements: A Comparison in the 220-240 nm wavelength band, Surveys in Geophys., 33(3-4), 475–481, doi:10.1007/s10712-011-9166-7, 2012.

van Noort, M., Spatially coupled inversion of spectro-polarimetric image data I. Method and first results, Astron. & Astrophys., 548, A5, doi:10.1051/0004-6361/201220220, 2012.

Vasyliūnas, V. M., The physical basis of ionospheric electrodynamics, Ann. Geophys., 30, 357–369, doi:10.5194/angeo-30-357-2012, 2012.

Vecchio, A., M. Laurenza, ***D. Meduri****, V. Carbone and M. Storini*, The Dynamics of the Solar Magnetic Field: Polarity Reversals, Butterfly Diagramand Quasi-biennial Oscillations, Astrophys. J., 749(1), 27, doi:10.1088/0004-637X/749/1/27, 2012.

Verscharen, D., E. Marsch*, U. Motschmann and J. Müller*, Kinetic cascade beyond magnetohydrodynamics of solar wind turbulence in two-dimensional hybrid simulations, Phys. Plasmas, 19, 022305, doi:10.1063/1.3682960, 2012.

Verscharen, D., E. Marsch*, U. Motschmann and J. Müller*, Parametric decay of oblique Alfvén waves in two-dimensional hybrid simulations, Phys. Rev. E, 86, 027401, doi:10.1103/PhysRevE.86.027401, 2012.

Vilenius, E., C. Kiss, M. Mommert, T. Mueller, P. Santos-Sanz, A. Pal, J. Stansberry, M. Mueller, S. Peixinho, S. Fornasier, E. Lellouch, A. Delsanti, A. Thirouin, J. L. Ortiz, R. Duffard, N. Perna, S. Szalai, S. Protopapa, F. Henry., D. Hestroffer, ***M. Rengel****, E. Dotto and* ***P. Hartogh***, "TNOs are Cool": A survey of the trans-Neptunian region. VI. Herschel/PACS observations and thermal modeling of 19 classical Kuiper belt objects, Astron. & Astrophys., 541, A94, doi:10.1051/0004-6361/201118743, 2012.

Vincent, J.-B*., S. Besse, S. Marchi,* ***H. Sierks****, M. Massironi and the OSIRIS team*, Physical properties of craters on asteroid (21)Lutetia, Planet. Space Sci., 66(1), 79–86, doi:10.1016/j.pss.2011.12.025, 2012.

Walsh, B. M., ***S. E. Haaland, P. W. Daly, E. A. Kronberg*** *and T. A. Fritz*, Energetic electrons along the high-latitude magnetopause, Ann. Geophys., 30, 1003–1013, doi:10.5194/angeo-30-1003-2012, 2012.

Wang, X., J. He, C. Tu, ***E. Marsch****, L. Zhang and J.-K. Chao*, Large-amplitude Alfven wave in interplanetary space: The WIND spacecraft observations, Astrophys. J., 746, 147, doi:10.1088/0004-637X/746/2/147, 2012.

Wei, Y., M. Fraenz, E. Dubinin*, A. J. Coates, T. L. Zhang, W. Wan, L. Feng,* ***A. Angsmann****, A. Opitz,* ***J. Woch,*** *S. Barabash and R. Lundin,* A teardrop-shaped ionosphere at Venus in tenuous solar wind, Planet. Space Sci., 73, 254-261, doi:10.1016/j.pss.2012.08.024, 2012.

Wei, Y., M. Fraenz, E. Dubinin, J. Woch*, H. Lühr, W. Wan, Q.-G. Zong, T. L. Zhang, Z. Y. Pu, S. Y. Fu, S. Barabash, R. Lundin and I. Dandouras*, Enhanced atmospheric oxygen outflow on Earth and Mars driven by a corotating interaction region, J. Geophys. Res., 117, A03208, doi:10.1029/2011JA017340, 2012.

Wei, Y.*, W. Wan, B. Zhao, M. Hong, A. Ridley, Z. Ren,* ***M. Fraenz, E. Dubinin*** *and M. He*, Solar wind density controlling penetration electric field at the equatorial ionosphere during a saturation of cross polar cap potential, J. Geophys. Res., 117, A09308, doi:10.1029/2012JA017597, 2012.

Weiss, B., L. Elkins-Tanton, A. Barucci, ***H. Sierks, C. Snodgrass, J.-B. Vincent****, S. Marchi, P. Weissman, M. Pätzold, I. Richter, M. Fulchignoni, R. Binzel and R. Schulz*, Possible evidence for partial

differentiation of asteroid Lutetia from Rosetta, Planet. Space Sci., 66(1), 137–146, doi:10.1016/j.pss.2011.09.012, 2012.

***Wiegelmann T**. and T. Sakurai*, Solar Force-free Magnetic Fields, Living Rev. Solar Phys., vol. 9, no. 5, 2012.

***Wiegelmann, T., J. K. Thalmann, B. Inhester, T. Tadesse**, X. Sun and J. T. Hoeksema*, How Should One Optimize Nonlinear Force-Free Coronal Magnetic Field Extrapolations from SDO/HMI Vector Magnetograms?, Solar Phys., doi:10.1007/s11207-012-9966-z, 2012.

Wilhelm, K., SUMER Observations of Coronal-Hole Temperatures, Space Sci. Rev., 172, 57–68, doi:10.1007/s11214-010-9700-9, 2012.

***Wilhelm, K.** and B. N. Dwivedi*, Gravity, massive particles, photons and Shapiro delay, Astrophys. Space Sci., doi:10.1007/s10509-012-1207-2, 2012.

***Wilhelm,K.,** H. Wilhelm and B. N. Dwivedi*, An impact model of Newton's law of gravitation, Astrophys. Space Sci., doi:10.1007/s10509-012-1206-3, 2012.

Wood, A. G., S. E. Pryse, M. Grande, I. C. Whittaker, A. J. Coates, K. Husband, W. Baumjohann, T. L. Zhang, C. Mazelle, E. Kallio, ***M. Fraenz**, S. McKenna-Lawlor and P. Wurz,* The transterminator ion flow at Venus at solar minimum, Planet. Space Sci., 73, 341-346, doi: 10.1016/j.pss.2012.08.006, 2012.

Woodard, M., J. Schou, ***A. C. Birch** and T. P. Larson*, Global-oscillation eigenfunction measurements of solar meridional flow, Solar Phys., doi:10.1007/s11207-012-0075-9, 2012.

Xu, Z., ***A. Lagg, S. Solanki** and Y. Liu*, Magnetic Fields of an Active Region Filament from Full Stokes Analysis of Si I 1082.7 nm and He I 1083.0 nm, Astrophys. J., 749, 138–148, doi:10.1088/0004-637X/749/2/138, 2012.

Yamauchi, M., Y. Futaana, A. Fedorov, R.A. Frahm, ***E. Dubinin**, R. Lundin, J.-A. Sauvaud, J. D. Winningham, S. Barabash and H. Holmström,* Ion Acceleration by Multiple Reflections at Martian Bow Shock, Earth Planets Space, 64, 61–71, doi:10.5047/eps.2011.07.007, 2012.

Yiğit, E. and ***A. S. Medvedev***, Extending the Parameterization of Gravity Waves into the Thermosphere and Modeling Their Effects, in: Climate and Weather of the Sun-Earth System (CAWSES) Highlights from a Priority Program (edited by F.-J. Lübken), pp. 467–480, Springer, Dordrecht, 2012, ISBN 978-94-007-4348-9, doi:10.1007/978-94-007-4348-9_25.

Yigit, E. and ***A. S. Medvedev***, Gravity waves in the thermosphere during a sudden stratospheric warming, Geophys. Res. Lett., L21101, doi:10.1029/2012GL053812, 2012.

Yiğit, E., ***A. S. Medvedev**, A. D. Aylward, A. J. Ridley, M. J. Harris, M. B. Moldwin and* ***P. Hartogh***, Dynamical effects of internal gravity waves in the equinoctial thermosphere, J. Atmos. Solar-Terr. Phys., 90-91, 104–116, doi:10.1016/j.jastp.2011.11.014, 2012.

Zhang, T. L., W. Baumjohann, W. L. Teh, R. Nakamura, C. T. Russell, J. G. Luhmann, ***K. H. Glassmeier, E. Dubinin, H. Y. Wei,** A. M. Du, Q. M. Lu, S. Wang, and M. Balikhin,* Giant flux ropes observed in the magnetized ionosphere at Venus, Geophys. Res. Lett., 39, L23103, doi:10.1029/2012GL054236, 2012.

Zhao, B., W. Wan, J. Lei, ***Y. Wei**, Y. Sahai and B. Reinisch*, Positive ionospheric storm effects at Latin America longitude during the superstorm of 20–22 November 2003: revisit, Ann. Geophys., 30, 831-840, doi:10.5194/angeo-30-831-2012, 2012.