INSTRUMENTS & SCIENCE DATA SYSTEMS DIVISION

FY 2011 Publications

Adell, Philippe C.; Vo, Tuan; Del Castillo, Linda; Miyahira, Tetsuo; Thornbourn, Dennis; Mojarradi, Mohammad. *A Rad-Hard Miniaturized Switching Module for High-Voltage Applications*. IEEE Transactions on Nuclear Science, 57(6), 3596-3601, 2010.

Amashukeli, X.; Chattopadhyay, G.; Siegel, P.; Lin, R.; Peralta, A.; Toda, R. *RF-powered aqueous extractor for identification of chemical signatures of life on Mars, comets and asteroids*. IEEE Aerospace Conference Proceedings, 5747471, 2011.

Anderson, Rodney L.; Lo, Martin W. *Dynamical systems analysis of planetary flybys and approach: Planar Europa Orbiter*. Journal of Guidance, Control, and Dynamics, 33(6), 1899-1912, 2010.

Anderson, Rodney L.; Lo, Martin W. *Flyby design using heteroclinic and homoclinic connections of unstable resonant orbits*. Advances in the Astronautical Sciences, 140, 321-340, 2011.

Angeli, George Z.; Seo, Byoung-Joon; Nissly, Carl; Troy, Mitchell. *A convenient telescope performance metric for imaging through turbulence*. Proceedings of SPIE - The International Society for Optical Engineering, 8127, 812709, 2011.

Ashley, J. W.; Christensen, P. R.; Golombek, M. P.; Parker, T. J.; Squyres, S. W.; McCoy, T. J.; Schroder, C; Fleischer, I.; Johnson, J. R.; Herkenhoff, K. E. *Post-Fall Surface Modification Features Of Iron Meteorites Found By The Opportunity Rover And Their Implications For Martian Weathering Processes*. Meteoritics & Planetary Science, 46, A13-A13, 2011.

Aumann, Hartmut H.; Jiang, Yibo; Elliott, Denis A. *Evaluation of cloudy data as stable references for climate research using AIRS and IRIS data*. Proceedings of SPIE - The International Society for Optical Engineering, 8153, 815304, 2011.

Bagge, Leif; Epp, Larry; Kaul, Abdur R.; Kaul, Anupama B.; Bagge, Leif; Kaul, Abdur R. *Modeling and In-Situ Observation of Mechanical Resonances in Single, Vertically-Oriented Carbon Nanofibers*. Journal of Nanoscience and Nanotechnology, 10(10), 6388-6394, 2010.

Balasubramanian, Kunjithapatham; Cady, Eric; An, Xin; Shaklan, Stuart; Pueyo, Laurent; Guyon, Olivier; Belikov, Ruslan. *Diamond turned high precision PIAA optics and four mirror PIAA system for high contrast imaging of exo-planets*. Proceedings of SPIE - The International Society for Optical Engineering, 8151, 815105, 2011.

Balasubramanian, Kunjithapatham; Shaklan, Stuart; Give'on, Amir; Cady, Eric; Marchen, Luis. *Deep UV to NIR space telescopes and exoplanet coronagraphs: A trade study on throughput, polarization, mirror coating options and requirements*. Proceedings of SPIE - The International Society for Optical Engineering, 8151, 81511G, 2011.

Barry, Richard; Kruk, Jeffery; Gehrels, Neil; Anderson, Jay; Beaulieu, Jean-Philippe; Bennett, David P.; Catanzarite, Joseph; Traub, Wesley; Cheng, Ed; Gaudi, Scott; Kane, Stephen; Lunine, Jonathan; Sumi, Takahiro; Tanner, Angelle. *The exoplanet microlensing survey by the proposed WFIRST Observatory*. Proceedings of SPIE - The International Society for Optical Engineering, 8151, 81510L, 2011.

Beasley, Matthew; Greer, Frank; Nikzad, Shouleh. *Progress in new ultraviolet reflective coating techniques*. Proceedings of SPIE - The International Society for Optical Engineering, 8145, 81450F, 2011.

Beegle, Luther; Kirby, James P.; Fisher, Anita; Hodyss, Robert; Saltzman, Alison; Soto, Juancarlos; Lasnik, James; Roark, Shane. *Sample handling and processing on Mars for future astrobiology missions*. IEEE Aerospace Conference Proceedings, 5747298, 2011.

Bekker, Dmitriy L.; Blavier, Jean-Francois L.; Key, Richard W.; Rider, David M.; Sander, Stanley P. *An FPGA-based focal plane array interface for the panchromatic Fourier transform spectrometer*. IEEE Aerospace Conference Proceedings, 5747411, 2011.

Belton, Michael J. S.; Meech, Karen J.; Pittichova, Jana; Hsieh, Henry; Kadooka, M. A.; Kaluna, H.; Keane, J.; Kleyna, J.; Raja, N. S.; Riesen, T.; Sarid, G.; Sonnett, S.; Yang, B.; Zenn, T.; Chesley, Steven; Gillam, Stephen; Mastrodemos, Nicholas; Owen, William; Bauer, James M.; Klaasen, Kenneth; Carcich, Brian; Veverka, Joseph; Thomas, Peter; Drahus, Michal; Harris, Alan; Bastien, Fabienne; Crockett, Christopher J.; Farnham, Tony; Li, JY; Bagnulo, S.; Bai, J.; Barrera, L.; Bhatt, B. C.; Sahu, D. K.; Vasundhara, R.; Boehnhardt, Hermann; Vincent, JB; Brosch, N.; Polishook, D.; Buie, Marc; Candia, Pablo; Chen, WP; Chiang, P.; Choi, YJ; Cochran, A.; Duddy, S.; Lowry, Stephen C.; Fernandez, Yan R.; Gutierrez, Pedro; Lara, Luisa M.; Hainaut, Olivier R.; Hampton, Donald; Herrmann, Kimberly A.; Taylor, Brian W.; Wasserman, Lawrence H.; Kim, MJ; Krisciunas, Kevin; Suntzeff, Nicholas B.; Lauer, Tod R.; Licandro, Javier; Licandro, Javier; Lisse, Carey M.; McFadden, Lucy; Moskovitz, N.; Mueller, Beatrice; Samarasinha, Nalin; Sekiguchi, Tomohiko; Taylor, Brian W.; Tozzi, Gian Paolo; Webster-Schultz, Bryant; Zhao, H. *Stardust-NExT, Deep Impact, and the accelerating spin of 9P/Tempel 1*. ICARUS, 213(1), 345-368, 2011.

Bender, Holly A.; Mouroulis, Pantazis; Eastwood, Michael L.; Green, Robert O.; Geier, Sven; Hochberg, Eric B. *Alignment and characterization of high uniformity imaging spectrometers*. Proceedings of SPIE - The International Society for Optical Engineering, 8158, 81580J, 2011.

Benz, A.O.; Bruderer, S.; Stauber, P.; Wampfler, S.F.; Melchior, M.; Dedes, C.; Monstein, C.; Van Dishoeck, E.F.; Hogerheijde, M.R.; Kristensen, L.E.; Tielens, A.G.G.M.; Visser, R.; Yildiz, U.A.; Wyrowski, F.; Parise, B.; Doty, S.D.; Van Der Tak, F.; Dieleman, P.; De Graauw, Th.; Helmich, F.; Jellema, W.; Marseille, M.; Risacher, C.; Shipman, R.; Bachtold, W.; Megej, A.; Csillaghy, A.; Soldati, M.; Bachiller, R.; Tafalla, M.; Baudry, A.; Bontemps, S.; Braine, J.; Herpin, F.; Benedettini, M.; Di Giorgio, A.M.; Saraceno, P.; Bergin, E.; Bjerkeli, P.; Liseau, R.; Olberg, M.; Blake, G.A.; Caselli, P.; Cernicharo, J.; Daniel, F.; Goicoechea, J.R.; Codella, C.; Jacq, T.; Dominik, C.; Encrenaz, P.; Fich, M.; McCoey, C.; Fuente, A.; Giannini, T.; Nisini, B.; Herczeg, G.J.; Johnstone, D.; Jrgensen, J.K.; Larsson, B.; Lis, D.; Melnick, G.; Van Kempen, T.A.; Neufeld, D.; Ossenkopf, V.; Schieder, R.; Stutzki, J.; Pearson, J.C.; Plume, R.; Santiago-Garcia, J. *Hydrides in young stellar objects: Radiation tracers in a protostar-disk-outflow system*. Astronomy and Astrophysics, 521(1), L35, 2010.

Bergin, E.A.; Crockett, N.R.; Wang, S.; Phillips, T.G.; Lis, D.C.; Bell, T.A.; Emprechtinger, M.; Zmuidzinas, J.; Comito, C.; Schilke, P.; Menten, K.M.; Blake, G.A.; Bumble, B.; Goldsmith, P.F.; Gupta, H.; Kawamura, J.H.; Langer, W.D.; Pearson, J.C.; Yorke, H.W.; Yu, S.; Caux, E.; Joblin, C.; Vastel, C.; Cabrit, S.; Pagani, L.; Salez, M.; Ceccarelli, C.; Maret, S.; Cernicharo, J.; Daniel, F.; Goicoechea, J.R.; De Graauw, Th.; Helmich, F.P.; Roelfsema, P.; Van Der Tak, F.F.S.; Dubernet, M.-L.; Encrenaz, P.; Falgarone, E.; Gerin, M.; Perault, M.; Giesen, T.F.; Muller, H.S.P.; Ossenkopf, V.; Qin, S.-L.; Schlemmer, S.; Stutzki, J.; Hartogh, P.; Herbst, E.; Johnstone, D.; Latter, W.B.; Lord, S.D.; Morris, P.; Martin, P.G.; Melnick, G.J.; Murphy, J.A.; Trappe, N.; Neufeld, D.A.; Plume, R.; Tielens, A.G.G.M. *Herschel observations of EXtra-Ordinary Sources (HEXOS), The present and future of spectral surveys with Herschel/HIFI*. Astronomy and Astrophysics, 521(1), L20, 2010.

Bergin, E.A.; Fogel, J.; Hogerheijde, M.R.; Brinch, C.; Yildiz, U.A.; Kristensen, L.E.; Van Dishoeck, E.F.; Visser, R.; Tielens, A.G.G.M.; Bell, T.A.; Blake, G.A.; Daniel, F.; Goicoechea, J.R.; Cernicharo, J.; Dominik, C.; Lis, D.; Melnick, G.; Van Kempen, T.A.; Neufeld, D.; Panic, O.; Pearson, J.C.; Bachiller, R.; Tafalla, M.; Baudry, A.; Di Giorgio, A.M.; Herpin, F.; Nisini, B.; Saraceno, P.; Benedettini, M.; Caselli, P.; Codella, C.; Jacq, T.; Benz, A.O.; Bruderer, S.; Wampfler, S.F.; Bjerkeli, P.; Liseau, R.; Olberg, M.; Bontemps, S.; Braine, J.; Doty, S.D.; Encrenaz, P.; Fich, M.; Mc Coey, C.; Fuente, A.; Giannini, T.; De Graauw, Th.; Helmich, F.; Marseille, M.; Risacher, C.; Shipman, R.; Van Der Tak, F.; Jellema, W.; Herczeg, G.J.; Johnstone, D.; Jrgensen, J.K.; Larsson, B.; Parise, B.; Wyrowski, F.; Plume, R.; Santiago-Garcia, J.; Hartogh, P.; Stutzki, J.; Szczerba, R. *Sensitive limits on the abundance of cold water vapor in the DM Tauri protoplanetary disk*. Astronomy and Astrophysics, 521(1), L33, 2010.

Besikci, C.; Gunapala, S.D.; Razeghi, M. *Infrared Physics & Technology: Preface*. Infrared Physics and Technology, 54(3), 131, 2011.

Besse, S.; Sunshine, J. M.; Boardman, J. W.; Green, R. O.; Head, J. W.; Isaacson, P. J.; Mustard, J. F.; Pieters, C. M.; Petro, N. E.; Staid, M. I. *Compositional variability of the Marius Hills volcanic complex from the Moon Mineralogy Mapper (M(3))*. Journal of Geophysical Research-Planets, 116, E00G13, 2011.

Beyer, A. D.; Kenyon, M. E.; Echternach, P. M.; Eom, BH; Bueno, J.; Day, P. K.; Bock, J. J.; Bradford, C. M.; Khosropanah, P.; Ridder, M.; Bruijn, M.; Hoevers, H.; Gao, J. R. *Characterization of an Ultra-Sensitive Transition-Edge Sensor for Space-Borne Far-IR/Sub-mm Spectroscopy*. IEEE Transactions on Applied Superconductivity, 21(3), 199-202, 2011.

Birnbaum, Kevin M.; Charles, Jeffrey R.; Farr, William H.; Gin, Jonathan; Quirk, Kevin J.; Roberts, William T.; Stern, Jeffrey A.; Wu, Yen-Hung. *Deep-space optical terminals: Ground laser receiver*. 2011 International Conference on Space Optical Systems and Applications, ICSOS'11, 136-1415783657, 2011.

Blacksberg, Jordana; Maruyama, Yuki; Charbon, Edoardo; Rossman, George R. *Fast single-photon avalanche diode arrays for laser Raman spectroscopy*. Optics Letters, 36(18), 3672-3674, 2011.

Blodget, Chad J.; Sherrit, Stewart; Bao, Xiaoqi; Jones, Christopher M.; Aldrich, Jack B.; Moore, James D.; Carson, John W.; Goullioud, Renaud; Jau, Bruno. *Piezoelectric stack actuator life test*. IEEE Aerospace Conference Proceedings, 5747384, 2011.

Boardman, Joseph W.; Besse, S.; Green, R. O.; Lundeen, S. R.; Varanasi, P.; Pieters, C. M.; Nettles, J.; Isaacson, P.; Petro, N.; Taylor, L. A. *Measuring moonlight: An overview of the spatial properties, lunar coverage, selenolocation, and related Level 1B products of the Moon Mineralogy Mapper*. Journal of Geophysical Research-Planets, 116, E00G14, 2011.

Bonetti, J. A.; Turner, A. D.; Kenyon, M.; LeDuc, H. G.; Nguyen, H. T.; Day, P. K.; Bock, J. J.; Brevik, J. A.; Orlando, A.; Trangsrud, A.; Sudiwala, R.; Golwala, S. R.; Kovac, J. M.; Jones, W. C.; Kuo, C. L. *Transition Edge Sensor Focal Plane Arrays for the BICEP2, Keck, and Spider CMB Polarimeters*. IEEE Transactions on Applied Superconductivity, 21(3), 219-222, 2011.

Bornstein, Benjamin; Estlin, Tara; Clement, Bradley; Springer, Paul. *Using a multicore processor for rover autonomous science*. IEEE Aerospace Conference Proceedings, 5747454, 2011.

Bosch-Lluis, X.; Reising, S.C.; Sahoo, S.; Park, H.; Camps, A.; Rodriguez-Alvarez, N.; Ramos-Perez, I.; Valencia, E.; Padmanabhan, S. *A radiometer concept to retrieve the 3-D radiometric emission from atmospheric temperature and water vapor density*. International Geoscience and Remote Sensing Symposium (IGARSS), 4253-42566050170, 2011.

Bradford, C.M.; Bock, J.J.; Naylor, B.J.; Nguyen, H.T.; Zmuidzinas, J.; Bolatto, A.D.; Maloney, P.R.; Aguirre, J.E.; Glenn, J.; Kamenetzky, J.; Lupu, R.; Scott, K.; Matsuhara, H.; Murphy, E.J. *The Water Vapor Spectrum of APM 08279+5255: X-ray Heating and Infrared Pumping over Hundreds of Parsecs*. Astrophysical Journal, Letters, 741(2), L37 (6 pp.), 2011.

Brandon, Erik J.; Vozoff, Max; Kolawa, Elizabeth A.; Studor, George F.; Lyons, Frankel; Keller, Michael W.; Beiermann, Brett; White, Scott R.; Sottos, Nancy R.; Curry, Mark A.; Banks, David L.; Brocato, Robert; Zhou, Lisong; Jung, Soyoun; Jackson, Thomas N.; Champaigne, Kevin. *Structural health management technologies for inflatable/deployable structures: Integrating sensing and self-healing*. Acta Astronautica, 68(7-8), 883-903, 2011.

Braverman, Amy; Teixeira, Joao; Cressie, Noel. *A likelihood-based comparison of temporal models for physical processes*. Statistical Analysis and Data Mining, 4(3), 247-258, 2011.

Brisbin, D.; Harwit, M.; Altieri, B.; Conversi, L.; Sanchez Portal, M.; Valtchanov, I.; Amblard, A.; Cooray, A.; Arumugam, V.; Ivison, R. J.; Aussel, H.; Chanial, P.; Elbaz, D.; Madden, S.; Panuzzo, P.; Babbedge, T.; Clements, D. L.; Fox, M.; Rizzo, D.; Rowan-Robinson, M.; Blain, A.; Bock, J.; Cooray, A.; Dowell, C. D.; Levenson, L.; Lu, N.; Nguyen, H. T.; Schulz, B.; Shupe, D. L.; Xu, C. K.; Zemcov, M.; Bock, J.; Dowell, C. D.; Levenson, L.; Nguyen, H. T.; Zemcov, M.; Boselli, A.; Buat, V.; Castro-Rodriguez, N.; Cava, A.; Perez-Fournon, I.; Castro-Rodriguez, N.; Cava, A.; Perez-Fournon, I.; Conley, A.; Glenn, J.; Dwek, E.; Eales, S.; Gear, W.; Griffin, M.; Isaak, K.; Papageorgiou, A.; Pohlen, M.; Franceschini, A.; Mainetti, G.; Marchetti, L.; Vaccari, M.; Halpern, M.; Hatziminaoglou, E.; Ibar, E.; Ivison, R. J.; Wright, G.; Lagache, G.; Lagache, G.; Lonsdale, Carol J.; Owen, F. N.; Pannella, M.; Strazzullo, V.; Lu, N.; Schulz, B.; Shupe, D. L.; Xu, C. K.; Maffei, B.; Morrison, G. E.; Morrison, G. E.; Oliver, S. J.; Roseboom, I. G.; Smith, A. J.; Wang, L.; Ward, R.; Omont, A.; Vigroux, L.; Pearson, C. P.; Pearson, C. P.; Seymour, N.; Symeonidis, M.; Tugwell, K. E.; Stevens, J. A.; Trichas, M. *The Deep SPIRE HerMES Survey: spectral energy distributions and their astrophysical indications at high redshift*. Monthly Notices of The Royal Astronomical Society, 409(1), 66-74, 2010.

Brown, Shannon T.; Lambrigtsen, Bjorn; Denning, Richard F.; Gaier, Todd; Kangaslahti, Pekka; Lim, Boon H.; Tanabe, Jordan M.; Tanner, Alan B. *The High-Altitude MMIC Sounding Radiometer for the Global Hawk Unmanned Aerial Vehicle: Instrument Description and Performance*. IEEE Transactions on Geoscience and Remote Sensing, 49(9), 3291-3301, 2011.

Bruderer, S.; Benz, A.O.; Stauber, P.; Wampfler, S.F.; Dedes, C.; Monstein, C.; Van Dishoeck, E.F.; Yildiz, U.A.; Hogerheijde, M.R.; Kristensen, L.E.; Visser, R.; Melchior, M.; Csillaghy, A.; Doty, S.D.; Van Der Tak, F.; Jellema, W.; Shipman, R.; Helmich, F.; Marseille, M.; Risacher, C.; Shipman, R.; Pagani, L.; Encrenaz, P.; Giannini, T.; Nisini, B.; De Graauw, Th.; Whyborn, N.; Teyssier, D.; Schieder, R.; Honingh, N.; Caux, E.; Bachtold, W.; Bachiller, R.; Tafalla, M.; Baudry, A.; Bontemps, S.; Braine, J.; Herpin, F.; Benedettini, M.; Di Giorgio, A.M.; Saraceno, P.; Bergin, E.; Bjerkeli, P.; Liseau, R.; Olberg, M.; Blake, G.A.; Caselli, P.; Cernicharo, J.; Daniel, F.; Goicoechea, J.R.; Codella, C.; Jacq, T.; Dominik, C.; Fich, M.; McCoey, C.; Fuente, A.; Herczeg, G.J.; Johnstone, D.; Jrgensen, J.K.; Larsson, B.; Lis, D.; Melnick, G.; Van Kempen, T.A.; Neufeld, D.; Parise, B.; Wyrowski, F.; Pearson, J.C.; Plume, R.; Santiago-Garcia, J. *Herschel/HIFI detections of hydrides towards AFGL 2591: Envelope emission versus tenuous cloud absorption*. Astronomy and Astrophysics, 521(1), L44, 2010.

Bryden, Geoffrey; Traub, Wesley; Roberts Jr., Lewis C.; Bruno, Robin; Unwin, Stephen; Brugarolas, Paul; Chen, Pin; Krist, John; Mawet, Dimitri; Mennesson, Bertrand; Moody, Dwight; Rahman, Zahidul; Trauger, John; Vaischt, Gautam; Backovsky, Stan; Chakrabarti, Supriya; Hillenbrand, Lynne; Lillie, Charles; Macintosh, Bruce; Rey, Justin; Stapelfeldt, Karl; Stuchlik, David. *Zodiac II: Debris disk science from a balloon*. Proceedings of SPIE - The International Society for Optical Engineering, 8151, 81511E, 2011.

Bui, Bach; Chang, George; Kim, Richard; Law, Emily; Malhotra, Shan. *Demonstration of LMMP (lunar mapping and modeling) using amazon's elastic compute cloud*. Proceedings - International Conference on Software Engineering, 69, 2011.

Burl, Michael C.; Wetzler, Philipp G. *Onboard object recognition for planetary exploration*. Machine Learning, 84(3), 341-367, 2011.

Cady, Eric; McElwain, Michael; Kasdin, N. Jeremy; McElwain, Michael; McElwain, Michael; Thalmann, Christian. *A Dual-Mask Coronagraph for Observing Faint Companions to Binary Stars*. Publications of the Astronomical Society of the Pacific, 123(901), 333-340, 2011.

Caselli, P.; Keto, E.; Melnick, G.; Van Kempen, T.A.; Pagani, L.; Encrenaz, P.; Aikawa, Y.; Yildiz, U.A.; Van Dishoeck, E.F.; Hogerheijde, M.R.; Kristensen, L.E.; Visser, R.; Van Der Tak, F.F.S.; De Graauw, Th.; Helmich, F.; Jackson, B.; Kester, D.; Laauwen, W.; Luinge, W.; Marseille, M.; Risacher, C.; Shipman, R.; Tafalla, M.; Bachiller, R.; Bergin, E.A.; Nisini, B.; Giannini, T.; Codella, C.; Jacq, T.; Baudry, A.; Bontemps, S.; Braine, J.; Herpin, F.; Benedettini, M.; Di Giorgio, A.M.; Saraceno, P.; Benz, A.O.; Bruderer, S.; Wampfler, S.F.; Bjerkeli, P.; Liseau, R.; Olberg, M.; Blake, G.A.; Cernicharo, J.; Daniel, F.; Goicoechea, J.R.; Dominik, C.; Doty, S.D.; Fich, M.; McCoey, C.; Fuente, A.; Gaier, T.; Javadi, H.; Pearson, J.C.; Siegel, P.; Herczeg, G.J.; Johnstone, D.; Jrgensen, J.K.; Larsson, B.; Lis, D.; Megej, A.; Neufeld, D.; Parise, B.; Wyrowski, F.; Plume, R.; Santiago-Garcia, J. *Water vapor toward starless cores: The Herschel view*. Astronomy and Astrophysics, 521(1), L29, 2010.

Catanzarite, Joseph; Shao, Michael. *The Occurrence Rate of Earth Analog Planets Orbiting Sun-Like Stars*. Astrophysical Journal, 738(2), 151, 2011.

Ceccarelli, C.; Bacmann, A.; Lefloch, B.; Castets, A.; Crimier, N.; Hily-Blant, P.; Kahane, C.; Maret, S.; Pacheco, S.; Boogert, A.; Lord, S.; Caux, E.; Bottinelli, S.; Coutens, A.; Demyk, K.; Klotz, A.; Vastel, C.; Walters, A.; Dominik, C.; Kama, M.; Lis, D.; Bell, T.; Blake, G.A.; Phillips, T.; Schilke, P.; Comito, C.; Parise, B.; Wyrowski, F.; Van Der Tak, F.; Helmich, F.; Van Der Wiel, M.H.D.; Olberg, M.; Caselli, P.; Benedettini, M.; Saraceno, P.; Cernicharo, J.; Codella, C.; Lorenzani, A.; Fuente, A.; Baudry, A.; Jacq, T.; Wakelam, V.; Bergin, E.A.; Cabrit, S.; Encrenaz, P.; Falgarone, E.; Gerin, M.; Hennebelle, P.; Pagani, L.; Salez, M.; Goldsmith, P.F.; Langer, W.; Pearson, J.; Yorke, H.; Henning, T.; Herbst, E.; Melnick, G.; Neufeld, D.; Nisini, B.; Schuster, K.; Tielens, X.; Viti, S.; Liseau, R.; Szczerba, R.; Benz, A.O.; Melchior, M. *Herschel spectral surveys of star-forming regions: Overview of the 555-636 GHz range*. Astronomy and Astrophysics, 521(1), L22, 2010.

Cernicharo, J.; Agúndez, M.; Goicoechea, J.R.; Crimier, N.; Daniel, F.; Pardo, J.R.; Sanchez Contreras, C.; Waters, L.B.F.M.; Decin, L.; De Koter, A.; Khouri, T.; Encrenaz, P.; Tielens, A.G.G.M.; De Beck, E.; Lombaert, R.; Muller, H.S.P.; Barlow, M.J.; Benz, A.; Di Giorgio, A.M.; Fich, M.; Gaier, T.; Pearson, J.C.; Garcia-Lario, P.; Teyssier, D.; Liseau, R.; Erickson, N.; Shipman, R. *A high-resolution line survey of IRC +10216 with Herschel/HIFI: First results: Detection of warm silicon dicarbide (SiC2)*. Astronomy and Astrophysics, 521(1), L8, 2010.

Chang, George; Law, Emily; Malhotra, Shan. *Demonstration of LMMP workflow system using cloud computing architecture*. Proceedings - International Conference on Software Engineering, 70, 2011.

Chatterjee, Abhishek; Michalak, Anna M.; Paradise, Susan R.; Braverman, Amy J.; Miller, Charles E.; Kahn, Ralph A.; Michalak, Anna M. *A geostatistical data fusion technique for merging remote sensing and ground-based observations of aerosol optical thickness.* Journal of Geophysical Research-Atmospheres, 115, D20207, 2010.

Chattopadhayay, Goutam; Lee, Choonsup; Jung, Cecil; Lin, Robert; Peralta, Alessandro; Mehdi, Imran; Llombert, Nuria; Thomas, Bertrand. *Integrated arrays on silicon at terahertz frequencies*. IEEE Antennas and Propagation Society, AP-S International Symposium (Digest), 3007-30105997162, 2011.

Chattopadhyay, Goutam. *Technology, capabilities, and performance of low power terahertz sources*. IEEE Transactions on Terahertz Science and Technology, 1(1), 33-536005327, 2011.

Chattopadhyay, Goutam; Cooper, Ken B.; Dengler, Robert; Siegel, Peter H.; Llombart, Nuria. *Imaging at a stand-off distance with terahertz FMCW radar*. 2011 30th URSI General Assembly and Scientific Symposium, URSIGASS 2011, 6050617, 2011.

Chattopadhyay, Goutam; Ward, John S.; Llombert, Nuria; Cooper, Ken B. *Submillimeter-wave 90 polarization twists for integrated waveguide circuits*. IEEE Microwave and Wireless Components Letters, 20(11), 592-5945580033, 2010.

Chavarria, L.; Herpin, F.; Jacq, T.; Braine, J.; Bontemps, S.; Baudry, A.; Pietropaoli, B.; Marseille, M.; Van Der Tak, F.; Shipman, R.; Frieswijk, W.; De Graauw, Th.; Helmich, F.; Risacher, C.; Willem, J.; Wyrowski, F.; Parise, B.; Van Dishoeck, E.F.; Hogerheijde, M.R.; Kristensen, L.E.; Tielens, A.; Visser, R.; Yildiz, U.A.; Cernicharo, J.; Daniel, F.; Goicoechea, J.R.; Bachiller, R.; Tafalla, M.; Benedettini, M.; Di Giorgio, A.M.; Saraceno, P.; Benz, A.O.; Bruderer, S.; Wampfler, S.F.; Bergin, E.; Bjerkeli, P.; Liseau, R.; Olberg, M.; Blake, G.A.; Caselli, P.; Codella, C.; Dominik, C.; Doty, S.D.; Encrenaz, P.; Fich, M.; McCoey, C.; Fuente, A.; Giannini, T.; Nisini, B.; Hartogh, P.; Herczeg, G.J.; Johnstone, D.; Jrgensen, J.K.; Larsson, B.; Lis, D.; Melnick, G.; Van Kempen, T.A.; Pearson, J.C.; Plume, R.; Santiago-Garcia, J.; Stutzki, J.; Szczerba, R. *Water in massive star-forming regions: HIFI observations of W3 IRS5*. Astronomy and Astrophysics, 521(1), L37, 2010.

Che, X.; Monnier, J. D.; Zhao, M.; Pedretti, E.; Thureau, N.; Merand, A.; Ten Brummelaar, T.; McAlister, H.; Turner, N.; Sturmann, J.; Sturmann, L.; Merand, A.; Ridgway, S. T. *Colder and Hotter: Interferometric Imaging of Beta Cassiopeiae and Alpha Leonis*. Astrophysical Journal, 732(2), 68, 2011.

Chen, YA; Mojarradi, Mohammad; Suehle, John; Westergard, Lynett. *Introduction to the Extreme Environment Technology and Reliability Special Issue*. IEEE Transactions on Device and Materials Reliability, 10(4), 417-417, 2010.

Chen, Yuan; Tudryn Weber, Carissa; Mojarradi, Mohammad; Kolawa, Elizabeth. *Micro- and nano-electronic technologies and their qualification methodology for space applications under harsh environments*. Proceedings of SPIE - The International Society for Optical Engineering, 8031, 80311Y, 2011.

Chernin, D.; Dobbs, R.; Hyttinen, M.; Roitman, A.; Berry, D.; Blank, M.; Khanh Nguyen; Jabotinski, V.; Wright, E.; Pershing, D.; Calame, J.; Joye, C.; Levush, B.; Neilson, J.; Maiwald, F.; Barker, N.S.; Weikle, R.; Booske, J. *Development of a 670 GHz extended interaction klystron amplifier*. Science Applications Inernational Corp. , 1 pp., 2011.

Christensen, L.E.; Spiers, G.D.; Menzies, R.T.; Jacob, J.C.; Hyon, J. *Carbon Dioxide Laser Absorption Spectrometer (CO_2LAS) aircraft measurements of CO_2*. Proceedings of the SPIE - The International Society for Optical Engineering, 8159, 81590C (8 pp.), 2011.

Christensen, Lance E.; Spiers, Gary D.; Menzies, Robert T.; Jacob, Joseph C.; Hyon, Jason. *Carbon Dioxide Laser Absorption Spectrometer (CO_2LAS) aircraft measurements of CO_2*. Proceedings of SPIE - The International Society for Optical Engineering, 8159, 81590C, 2011.

Chui, T.; Bock, J.; Holmes, W.; Raab, J. *Thermal design and analysis of a multi-stage 30K radiative cooling system for EPIC*. Cryogenics, 50(9), 633-7, 2010.

Clark, C. N.; Contaldi, C. R.; Ade, P. A. R.; Tucker, C.; Amiri, M.; Burger, B.; Davis, G.; Hasselfield, M.; Wiebe, D.; Benton, S. J.; Netterfield, C. B.; Bock, J. J.; Crill, B. P.; Dore, O.; Filippini, J. P.; Golwala, S.; Hristov, V. V.; Mason, P. V.; Morford, T. A.; Runyan, M. C.; Schenker, M. A.; Trangsrud, A.; Tucker, R. S.; Bock, J. J.; Bonetti, J. A.; Crill, B. P.; Dore, O.; Holmes, W.; Turner, A. D.; Bond, J. R.; Farhang, M.; Bryan, S.; Montroy, T. E.; Ruhl, J. E.; Chiang, H. C.; Fraisse, A. A.; Gudmundsson, J. E.; Jones, W. C.; Rahlin, A. S.; Farhang, M.; Fissel, L. M.; Gandilo, N. N.; Netterfield, C. B.; Shariff, J. A.; Soler, J. D.; Hilton, G.; Irwin, K.; Reintsema, C.; Kuo, C. L.; MacTavish, C. J. *Spider Optimization. II. Optical, Magnetic, and Foreground Effects*. Astrophysical Journal, 738(1), 63, 2011.

Clark, C.N.; Contaldi, C.R.; Ade, P.A.R.; Tucker, C.; Amiri, M.; Burger, B.; Davis, G.; Hasselfield, M.; Wiebe, D.; Benton, S.J.; Netterfield, C.B.; Bock, J.J.; Crill, B.P.; Dore´, O.; Filippini, J.P.; Golwala, S.; Hristov, V.V.; Mason, P.V.; Morford, T.A.; Runyan, M.C.; Schenker, M.A.; Trangsrud, A.; Tucker, R.S.; Bond, J.R.; Farhang, M.; Bonetti, J.A.; Holmes, W.; Turner, A.D.; Bryan, S.; Montroy, T.E.; Ruhl, J.E.; Chiang, H.C.; Fraisse, A.A.; Gudmundsson, J.E.; Jones, W.C.; Rahlin, A.S.; Fissel, L.M.; Gandilo, N.N.; Shariff, J.A.; Soler, J.D.; Hilton, G.; Irwin, K.; Reintsema, C.; Kuo, C.L.; MacTavish, C.J. *Spider Optimization. II. Optical, Magnetic, and Foreground Effects*. Astrophysical Journal, 738(1), 63 (14 pp.), 2011.

Clark, Roger N.; Boardman, J. W.; Green, Robert O.; Petro, Noah E.; Pieters, Carle M. *Thermal removal from near-infrared imaging spectroscopy data of the Moon*. Journal of Geophysical Research-Planets, 116, E00G16, 2011.

Cofield, Richard E.; Kasl, Eldon P. *Thermal stability of a 4 meter primary reflector for the Scanning Microwave Limb Sounder*. Proceedings of SPIE - The International Society for Optical Engineering, 8153, 81530Y, 2011.

Coles, J.B.; Richardson, Brandon S.; Eastwood, Michael L.; Sarture, Charles M.; Quetin, Gregory R.; Hernandez, Marco A.; Kroll, Linley A.; Nolte, Scott H.; Porter, Michael D.; Green, Robert O. *Spectrally and radiometrically stable wide-band on-board calibration source for in-flight data validation in imaging spectroscopy applications*. IEEE Aerospace Conference Proceedings, 5747392, 2011.

Comito, C.; Schilke, P.; Rolffs, R.; Belloche, A.; Menten, K.M.; Lis, D.C.; Phillips, T.G.; Bell, T.A.; Blake, G.A.; Emprechtinger, M.; Bergin, E.A.; Crockett, N.R.; Wang, S.; Caux, E.; Joblin, C.; Vastel, C.; Ceccarelli, C.; Maret, S.; Cernicharo, J.; Daniel, F.; Goicoechea, J.R.; Dubernet, M.-L.; Encrenaz, P.; Gerin, M.; Perault, M.; Giesen, T.F.; Muller, H.S.P.; Ossenkopf, V.; Qin, S.-L.; Schlemmer, S.; Stutzki, J.; Goldsmith, P.F.; Gupta, H.; Langer, W.D.; Pearson, J.C.; Yorke, H.W.; Yu, S.; Lin, R.H.; Samoska, L.A.; Schlecht, E.; Herbst, E.; Johnstone, D.; Latter, W.D.; Lord, S.D.; Morris, P.; Martin, P.G.; Melnick, G.J.; Murphy, J.A.; Trappe, N.; Neufeld, D.A.; Plume, R.; Van Der Tak, F.F.S.; Olberg, M.; Liseau, R.; Szczerba, R.; Larsson, B. *Herschel observations of deuterated water towards Sgr B2(M)*. Astronomy and Astrophysics, 521(1), L38, 2010.

Content, D.A.; Mentzell, J.E.; Goullioud, R.; Lehan, J.P. *Optical design trade study for the Wide Field Infrared Survey Telescope [WFIRST]*. Proceedings of SPIE - The International Society for Optical Engineering, 8146, 81460Y, 2011.

Cooper, Ken B.; Dengler, Robert J.; Chattopadhyay, Goutam; Siegel, Peter H.; Llombart, Nuria; Thomas, Bertrand. *THz imaging radar for standoff personnel screening*. IEEE Transactions on Terahertz Science and Technology, 1(1), 169-1826005328, 2011.

Cooper, Ken B.; Dengler, Robert J.; Llombart, Nuria. *Impact of frequency and polarization diversity on a terahertz radar's imaging performance*. Proceedings of SPIE - The International Society for Optical Engineering, 8022, 80220D, 2011.

Cooray, A.; Kim, S.; Amblard, A.; Serra, P.; Conley, A.; Earle, L.; Glenn, J.; Maloney, P. D.; Rangwala, N.; Cooray, A.; Vieira, J. D.; Blain, A.; Bock, J.; Bradford, C. M.; Bridge, C.; Carpenter, J. M.; Djorgovski, S. G.; Dowell, C. D.; Fu, H.; Levenson, L.; Mahabal, A.; Murphy, E.; Nguyen, H. T.; Riechers, D.; Schulz, B.; Shupe, D. L.; Viero, M. P.; Xu, C. K.; Zemcov, M.; Zmuidzinas, J.; Solares, E. A. Gonzalez; Aguirre, J. E.; Lupu, R.; Scott, K.; Auld, R.; Eales, S.; Papageorgiou, A.; Pohlen, M.; Raymond, G.; Baker, A. J.; Beelen, A.; Beelen, A.; Blundell, R.; Gurwell, M. A.; Bock, J.; Bradford, C. M.; Dowell, C. D.; Levenson, L.; Naylor, B. J.; Nguyen, H. T.; Zemcov, M.; Zmuidzinas, J.; Brisbin, D.; Burgarella, D.; Chanial, P.; Chapin, E.; Halpern, M.; Marsden, G.; Scott, Douglas; Valiante, E.; Wiebe, D.; Christopher, N.; Verma, A.; Clements, D. L.; Mortier, A. M. J.; Rowan-Robinson, M.; Cox, P.; Krips, M.; Neri, R.; Ellsworth-Bowers, T. P.; Glenn, J.; Kamenetzky, J.; Farrah, D.; Oliver, S. J.; Roseboom, I. G.; Smith, A. J.; Wang, L.; Franceschini, A.; Marchetti, L.; Rodighiero, G.; Vaccari, M.; Frayer, D.; Omont, A.; Gavazzi, R.; Vigroux, L.; Ibar, E.; Wright, G.; Ivison, R. J.; Ivison, R. J.; Jarvis, M.; Maraston, C.; Matsuhara, H.; Murphy, E.; Schulz, B.; Shupe, D. L.; Xu, C. K.; Page, M. J.; Rawlings, J. I.; Seymour, N.; Symeonidis, M.; Tugwell, K. E.; Pearson, C. P.; Pearson, C. P.; Perez-Fournon, I.; Perez-Fournon, I.; Valtchanov, I.; Zeimann, G. *Discovery of A Multiply Lensed Submillimeter Galaxy in Early Hermes Herschel/Spire* Data*. Astrophysical Journal Letters, 732(2), L35, 2011.

Crepp, Justin R.; Hinkley, Sasha; Beichman, Charles; Hillenbrand, Lynne; Dekany, Richard; Bouchez, Antonin; Pueyo, Laurent; Vasisht, Gautam; Beichman, Charles; Shao, Mike; Burruss, Rick; Roberts, Lewis C.; Roberts, Jenny; Pueyo, Laurent; Soummer, Remi; Pueyo, Laurent; Brenner, Douglas; Oppenheimer, Ben R.; Zimmerman, Neil; Zimmerman, Neil; Parry, Ian; King, David; Beichman, Charles. *Speckle Suppression with the Project 1640 Integral Field Spectrograph*. Astrophysical Journal, 729(2), 132, 2011.

Crichton, Daniel J.; Mattmann, Chris A.; Hart, Andrew F.; Braverman, Amy; Goodale, Cameron; Kale, David; Khemani, Robinder G.; Ross, Patrick; Rubin, Sarah; Veeravatanayothin, Paul; Wetzel, Randall C. *An informatics architecture for the virtual pediatric intensive care unit*. Proceedings - IEEE Symposium on Computer-Based Medical Systems, 5999031, 2011.

Crockett, N.R.; Bergin, E.A.; Wang, S.; Lis, D.C.; Bell, T.A.; Blake, G.A.; Emprechtinger, M.; Karpov, A.; Kooi, J.; Phillips, T.G.; Zmuidzinas, J.; Boogert, A.; Latter, W.D.; Lord, S.D.; Morris, P.; Bumble, B.; Goldsmith, P.F.; Gupta, H.; Kawamura, J.H.; Langer, W.D.; Pearson, J.C.; Yorke, H.W.; Yu, S.; Cabrit, S.; Caux, E.; Joblin, C.; Vastel, C.; Ceccarelli, C.; Maret, S.; Cernicharo, J.; Daniel, F.; Goicoechea, J.R.; Comito, C.; Gusten, R.; Menten, K.M.; Schilke, P.; Dubernet, M.-L.; Encrenaz, P.; Falgarone, E.; Gerin, M.; Krieg, J.-M.; Perault, M.; Giesen, T.F.; Honingh, N.; Muller, H.S.P.; Ossenkopf, V.; Qin, S.-L.; Schieder, R.; Schlemmer, S.; Stutzki, J.; Hartogh, P.; Helmich, F.; Roelfsema, P.; Herbst, E.; Johnstone, D.; Martin, P.G.; Melnick, G.J.; Murphy, J.A.; Trappe, N.; Neufeld, D.A.; Plume, R.; Van Der Tak, F.F.S.; Tielens, A. *Herschel observations of EXtra-Ordinary Sources (HEXOS), The Terahertz spectrum of Orion KL seen at high spectral resolution*. Astronomy and Astrophysics, 521(1), L21, 2010.

Davidsson, Bjorn J. R.; Warell, Johan; Gulkis, Samuel; Alexander, Claudia; von Allmen, Paul; Kamp, Lucas; Lee, Seungwon. *Gas kinetics and dust dynamics in low-density comet comae*. ICARUS, 210(1), 455-471, 2010.

Day, Jason O.; Pollock, Randy; Bruegge, Carol J.; Castano, Rebecca; Tkatcheva, Irina; Miller, Charles E.; Crisp, David. *Preflight radiometric calibration of the orbiting carbon observatory*. IEEE Transactions on Geoscience and Remote Sensing, 49(6 PART 2), 2438-24475673019, 2011.

Day, Jason O.; Pollock, Randy; Bruegge, Carol J.; Rider, David; Crisp, David; Miller, Charles E. *Preflight Spectral Calibration of the Orbiting Carbon Observatory*. IEEE Transactions on Geoscience and Remote Sensing, 49(7), 2793-2801, 2011.

Des Jardins, Marie; Sahami, Mehran; Wagstaff, Kiri. *EAAI-10: The first symposium on educational advances in artificial intelligence*. AI Magazine, 32(1), 91-92, 2011.

Drouin, B.J.; Pearson, J.C.; Dick, M.J. *Reply to "Comment on `Collisional cooling investigation of THz rotational transitions of water'"*. Physical Review A (Atomic, Molecular, and Optical Physics), 82(3), 036704 (2 pp.), 2010.

Drouin, Brian J.; Yu, Shanshan; Pearson, John C.; Gupta, Harshal. *Terahertz spectroscopy for space applications: 2.5-2.7 THz spectra of HD, H_2O and NH3*. Journal of Molecular Structure, 1006(1-3), 2-12, 2011.

Emprechtinger, M.; Lis, D.C.; Bell, T.; Phillips, T.G.; Blake, G.; Kooi, J.; Schilke, P.; Comito, C.; Rolffs, R.; Parise, B.; Wyrowski, F.; Van Der Tak, F.; Aarts, H.; Helmich, F.; Risacher, C.; Van Der Wiel, M.; Ceccarelli, C.; Castets, A.; Crimier, N.; Hily-Blant, P.; Kahane, C.; Lefloch, B.; Maret, S.; Pacheco, S.; Bacmann, A.; Baudry, A.; Jacq, T.; Wakelam, V.; Benedettini, M.; Saraceno, P.; Bergin, E.A.; Boogert, A.; Lord, S.; Bottinelli, S.; Caux, E.; Coutens, A.; Demyk, K.; Klotz, A.; Vastel, C.; Walters, A.; Cabrit, S.; Encrenaz, P.; Falgarone, E.; Gerin, M.; Hennebelle, P.; Pagani, L.; Salez, M.; Caselli, P.; Cernicharo, J.; Codella, C.; Lorenzani, A.; Dominik, C.; Kama, M.; Fuente, A.; Goldsmith, P.; Langer, W.; Pearson, J.; Yorke, H.; Henning, T.; Herbst, E.; Loose, A.; Melnick, G.; Neufeld, D.; Nisini, B.; Ossenkopf, V.; Stutzki, J.; Schuster, K.; Tielens, X.; Viti, S. *The distribution of water in the high-mass star-forming region NGC 6334 i*. Astronomy and Astrophysics, 521(1), L28, 2010.

Feaga, Lori M.; McFadden, Lucy A.; Sunshine, Jessica M.; Wellnitz, Dennis D.; Besse, Sebastien; Bodewits, Dennis; Farnham, Tony L.; Kelley, Michael S.; Li, JY; McLaughlin, Stephanie A.; Merlin, Frederic; Protopapa, Silvia; Williams, Jade L.; Belton, Michael J. S.; Delamere, W. Alan; Hampton, Donald; Kissel, Jochen; Klaasen, Kenneth P.; Yeomans, Donald K.; Collins, Steven M.; McFadden, Lucy A.; Meech, Karen J.; Melosh, H. Jay; Melosh, H. Jay; Bowling, Timothy J.; Richardson, James E.; Schultz, Peter H.; Hermalyn, Brendan; Thomas, Peter C.; Veverka, Joseph; Carcich, Brian T.; Groussin, Olivier; Groussin, Olivier; Kelley, Michael S.; Lindler, Don J.; Lisse, Carey M.; Merlin, Frederic. *EPOXI at Comet Hartley 2*. Science, 332(6036), 1396-1400, 2011.

Frank, Jill V.; Amashukeli, Xenia; Fisher, Anita. *RF-powered micro-extractor sample injection protocol development.* Abstracts of Papers of the American Chemical Society, 241, 2011.

Franz, Kale J.; Frez, Clifford; Qiu, Yueming; Freilich, Daniel V.; Forouhar, Siamak; Chen, Jianfeng; Shterengas, Leon; Belenky, Gregory L. *GaSb-based high-power single-spatial-mode lasers at 2.0m*. 2011 Conference on Lasers and Electro-Optics: Laser Science to Photonic Applications, CLEO 2011, 5950586, 2011.

Fuente, A.; Berne, O.; Cernicharo, J.; Rizzo, J.R.; Goicoechea, J.R.; Martin-Pintado, J.; Gonzalez-Garcia, M.; Kramer, C.; Pilleri, P.; Joblin, C.; Ossenkopf, V.; Akyilmaz, M.; Okada, Y.; Rollig, M.; Simon, R.; Stutzki, J.; Gerin, M.; Gusten, R.; Klein, T.; Benz, A.O.; Bruderer, S.; Dedes, C.; Boulanger, F.; France, K.; Martin, P.G.; Garcia-Burillo, S.; Usero, A.; Harris, A.; Le Petit, F.; Lord, S.D.; Mookerjea, B.; Neufeld, D.A.; Pety, J.; Schuster, K.; Phillips, T.G.; Van Der Tak, F.; Teyssier, D.; Yorke, H.; Pearson, J.; Melchior, M.; Lorenzani, A.; Szczerba, R.; Fich, M.; McCoey, C.; Dieleman, P. *Herschel observations in the ultracompact HII region Mon R2: Water in dense photon-dominated regions (PDRs)*. Astronomy and Astrophysics, 521(1), L23, 2010.

Gaier, Todd; Lambrigtsen, Bjorn; Kangaslahti, Pekka; Lim, Boon; Tanner, Alan; Harding, Dennis; Owen, Heather; Soria, Mary; O'Dwyer, Ian; Ruf, Christopher; Miller, Ryan; Block, Bruce; Flynn, Michael; Whitaker, Sterling. *GeoSTAR-II: A prototype water vapor imager/sounder for the PATH mission*. International Geoscience and Remote Sensing Symposium (IGARSS), 3626-36286050009, 2011.

Gao, J.; Vale, L. R.; Mates, J. A. B.; Schmidt, D. R.; Hilton, G. C.; Irwin, K. D.; Mallet, F.; Castellanos-Beltran, M. A.; Lehnert, K. W.; Mallet, F.; Castellanos-Beltran, M. A.; Lehnert, K. W.; Zmuidzinas, J.; Leduc, H. G. *Strongly quadrature-dependent noise in superconducting microresonators measured at the vacuum-noise limit*. Applied Physics Letters, 98(23), 232508, 2011.

Garay, Michael J.; Burl, Michael C. *Adaptive Sky: From Instrument Pixels to a Sensor Web Gestalt*. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 3(4), 481-487, 2010.

Gavazzi, R.; Omont, A.; Vigroux, L.; Cooray, A.; Kim, S.; Serra, P.; Wardlow, J.; Cooray, A.; Blain, A.; Bock, J.; Bradford, C. M.; Bridge, C.; Djorgovski, S. G.; Dowell, C. D.; Fu, H.; Mahabal, A.; Murphy, E.; Nguyen, H. T.; Riechers, D.; Schulz, B.; Shupe, D. L.; Vieira, J. D.; Xu, C. K.; Zemcov, M.; Zmuidzinas, J.; Conley, A.; Ellsworth-Bowers, T. P.; Glenn, J.; Rangwala, N.; Aguirre, J. E.; Lupu, R.; Scott, K. S.; Amblard, A.; Auld, R.; Eales, S.; Griffin, M.; Papageorgiou, A.; Pohlen, M.; Raymond, G.; Beelen, A.; Beelen, A.; Blundell, R.; Gurwell, M. A.; Bock, J.; Bradford, C. M.; Dowell, C. D.; Levenson, L.; Naylor, B. J.; Nguyen, H. T.; Zemcov, M.; Zmuidzinas, J.; Brisbin, D.; Burgarella, D.; Chanial, P.; Chapin, E.; Halpern, M.; Marsden, G.; Scott, Douglas; Valiante, E.; Wiebe, D.; Christopher, N.; Verma, A.; Clements, D. L.; Mortier, A. M. J.; Rowan-Robinson, M.; Cox, P.; Krips, M.; Neri, R.; Earle, L.; Kamenetzky, J.; Maloney, P. D.; Farrah, D.; Oliver, S. J.; Roseboom, I. G.; Smith, A. J.; Wang, L.; Franceschini, A.; Marchetti, L.; Rodighiero, G.; Vaccari, M.; Solares, E. A. Gonzalez; Ibar, E.; Ivison, R. J.; Wright, G.; Ivison, R. J.; Jarvis, M.; Maraston, C.; Matsuhara, H.; Murphy, E.; Schulz, B.; Shupe, D. L.; Xu, C. K.; Page, M. J.; Rawlings, J. I.; Seymour, N.; Symeonidis, M.; Tugwell, K. E.; Pearson, C. P.; Pearson, C. P.; Perez-Fournon, I.; Perez-Fournon, I.; Valtchanov, I.; Zeimann, G. *Modeling of the Hermes Submillimeter Source Lensed by a Dark Matter Dominated Foreground Group of Galaxies*. Astrophysical Journal, 738(2), 125, 2011.

Geissler, P. E.; Johnson, J. R.; Herkenhoff, K.; Vaughan, A.; Sullivan, R.; Bell, J.; Golombek, M.; Maki, J.; Parker, T.; Bridges, N. *Gone with the wind: Eolian erasure of the Mars Rover tracks*. Journal of Geophysical Research-Planets, 115, E00F11, 2010.

Gerlach, Christian G.; Gerlach, Christian G.; Gerlach, Christian G.; Gerlach, Christian G.; Karla, Ingo; Ewe, Lutz; Kuehn, Edgar; Weber, Andreas; Karla, Ingo; Weber, Andreas; Kuehn, Edgar; Bakker, Hajo; Rao, Anil; Rao, Anil. *ICIC in DL and UL With Network Distributed and Self-Organized Resource Assignment Algorithms in LTE*. Bell Labs Technical Journal, 15(3), 43-62, 2010.

Gerlach, Christian G.; Gerlach, Christian G.; Gerlach, Christian G.; Rao, Anil; Seymour, James P.; Soni, Robert; Soni, Robert; Soni, Robert; Viswanathan, Harish; Weber, Andreas; Gerlach, Christian G.; Rao, Anil; Weaver, Carl; Weaver, Carl; Weaver, Carl. *Self-Organizing Interference Management for LTE*. Bell Labs Technical Journal, 15(3), 19-42, 2010.

Gilmore, Martha S.; Anderson, Laura J.; Thompson, David R.; Karamzadeh, Nader; Mandrake, Lukas; Castano, Rebecca. *Superpixel segmentation for analysis of hyperspectral data sets, with application to Compact Reconnaissance Imaging Spectrometer for Mars data, Moon Mineralogy Mapper data, and Ariadnes Chaos, Mars*. Journal of Geophysical Research-Planets, 116, E07001, 2011.

Give'on, Amir; Kern, Brian D.; Shaklan, Stuart. *Pair-wise, deformable mirror, image plane-based diversity electric field estimation for high contrast coronagraphy*. Proceedings of SPIE - The International Society for Optical Engineering, 8151, 815110, 2011.

Glavin, Daniel P.; Callahan, Michael P.; Dworkin, Jason P.; Elsila, Jamie E.; Aubrey, Andrew D.; Parker, Eric T.; Bada, Jeffrey L.; Jenniskens, Peter; Shaddad, Muawia H. *Extraterrestrial amino acids in the Almahata Sitta meteorite*. Meteoritics & Planetary Science, 45(40827), 1695-1709, 2010.

Glenn, J.; Conley, A.; Ellsworth-Bowers, T. P.; Bethermin, M.; Lagache, G.; Bethermin, M.; Lagache, G.; Altieri, B.; Conversi, L.; Sanchez Portal, M.; Valtchanov, I.; Amblard, A.; Cooray, A.; Arumugam, V.; Ivison, R. J.; Aussel, H.; Elbaz, D.; Madden, S.; Panuzzo, P.; Babbedge, T.; Chanial, P.; Clements, D. L.; Fox, M.; Rizzo, D.; Rowan-Robinson, M.; Trichas, M.; Blain, A.; Bock, J.; Cooray, A.; Dowell, C. D.; Levenson, L.; Lu, N.; Nguyen, H. T.; Schulz, B.; Shupe, D. L.; Vieira, J. D.; Xu, C. K.; Zemcov, M.; Bock, J.; Dowell, C. D.; Levenson, L.; Nguyen, H. T.; Zemcov, M.; Boselli, A.; Buat, V.; Castro-Rodriguez, N.; Cava, A.; Perez-Fournon, I.; Castro-Rodriguez, N.; Cava, A.; Perez-Fournon, I.; Dwek, E.; Eales, S.; Gear, W.; Griffin, M.; Isaak, K.; Papageorgiou, A.; Pohlen, M.; Franceschini, A.; Mainetti, G.; Marchetti, L.; Vaccari, M.; Halpern, M.; Marsden, G.; Scott, Douglas; Hatziminaoglou, E.; Ibar, E.; Ivison, R. J.; Wright, G.; Laurent, G.; Lu, N.; Schulz, B.; Shupe, D. L.; Xu, C. K.; Maffei, B.; Oliver, S. J.; Roseboom, I. G.; Smith, A. J.; Wang, L.; Ward, R.; Omont, A.; Vigroux, L.; Page, M. J.; Seymour, N.; Symeonidis, M.; Tugwell, K. E.; Pearson, C. P.; Rigopoulou, D.; Pearson, C. P.; Rigopoulou, D.; Stevens, J. A. *HerMES: deep galaxy number counts from a P(D) fluctuation analysis of SPIRE Science Demonstration Phase observations*. Monthly Notices of The Royal Astronomical Society, 409(1), 109-121, 2010.

Goldstein, R.; Davis, M.; Frahm, R.; Slater, D.; Nikzad, S.; Jones, T. J. *Results of measurements of the response of a delta-doped CCD to neutral and charged particle beams*. Advances in Space Research, 47(11), 1931-1936, 2011.

Gowda, Suraj; Parsons, Aaron; Jarnot, Robert; Werthimer, Dan. *Automated placement for parallelized FPGA FFTs*. Proceedings - IEEE International Symposium on Field-Programmable Custom Computing Machines, FCCM 2011, 206-2095771274, 2011.

Groppi, Christopher E.; Kawamura, Jonathan H. *Coherent detector arrays for terahertz astrophysics applications*. IEEE Transactions on Terahertz Science and Technology, 1(1), 85-966005331, 2011.

Gupta, H.; Pearson, J.C.; Yu, S.; Chattopadhyay, G.; Gill, J.J.; Goldsmith, P.F.; Langer, W.D.; Lin, R.H.; Maiwald, F.W.; Samoska, L.A.; Schlecht, E.; Yorke, H.W.; Rimmer, P.; Herbst, E.; Harada, N.; Bergin, E.A.; Crockett, N.R.; Wang, S.; Neufeld, D.A.; Melnick, G.J.; Bachiller, R.; Diez-Gonzalez, M.C.; Baechtold, W.; Bell, T.A.; Blake, G.A.; Emprechtinger, M.; Lis, D.C.; Phillips, T.G.; Zmuidzinas, J.; Boogert, A.; Karpov, A.; Kooi, J.; Caux, E.; Joblin, C.; Vastel, C.; Ceccarelli, C.; Maret, S.; Cernicharo, J.; Daniel, F.; Goicoechea, J.R.; Martin-Pintado, J.; Krieg, J.-M.; Comito, C.; Menten, K.M.; Schilke, P.; Gusten, R.; Cabrit, S.; Pagani, L.; Salez, M.; Falgarone, E.; Encrenaz, P.; Gerin, M.; Perault, M.; Dubernet, M.-L.; Erickson, N.; Giesen, T.F.; Muller, H.S.P.; Ossenkopf, V.; Qin, S.-L.; Schlemmer, S.; Stutzki, J.; Schieder, R.; Johnstone, D.; Honingh, N.; Larsson, B.; Nordh, L.H.; Latter, W.B.; Lord, S.D.; Morris, P.; Liseau, R.; Olberg, M.; Martin, P.G.; Murphy, J.A.; Trappe, N.; Plume, R.; Szczerba, R.; Van Der Tak, F.F.S.; Zaal, P.; Hartogh, P. *Detection of OH+ and H_2O+ towards Orion KL*. Astronomy and Astrophysics, 521(1), L47, 2010.

Guyon, Olivier; Bendek, Eduardo; Ammons, Mark; Shao, Michael; Shaklan, Stuart; Woodruff, Robert A.; Belikov, Ruslan. *Diffractive pupil telescope for high precision space astrometry*. Proceedings of SPIE - The International Society for Optical Engineering, 8151, 81510S, 2011.

Guyon, Olivier; Kern, Brian; Shaklan, Stuart; Kuhnert, Andreas; Give'on, Amir; Belikov, Ruslan. *Phase-Induced Amplitude Apodization (PIAA) coronagraphy: Recent results and future prospects*. Proceedings of SPIE - The International Society for Optical Engineering, 8151, 81510H, 2011.

Hall, Laverne; Francel, Pamela C. *Multi-mission technical subsystem management measures taken and lessons learned*. IEEE Aerospace Conference Proceedings, 5747637, 2011.

Hamden, Erika T.; Schiminovich, David; Greer, Frank; Hoenk, Michael E.; Blacksberg, Jordana; Dickie, Matthew R.; Nikzad, Shouleh; Martin, D. Christopher. *Ultraviolet antireflection coatings for use in silicon detector design*. Applied Optics, 50(21), 4180-4188, 2011.

Hamlin, L.; Green, R.O.; Mouroulis, P.; Eastwood, M.; Wilson, D.; Dudik, M.; Paine, C. *Imaging spectrometer science measurements for terrestrial ecology: AVIRIS and new developments*. IEEE Aerospace Conference Proceedings, 5747395, 2011.

Hanot, C.; Riaud, P.; Absil, O.; Mennesson, B.; Martin, S.; Liewer, K.; Loya, F.; Mawet, D.; Serabyn, E. *Improving Interferometric Null Depth Measurements Using Statistical Distributions: Theory and First Results with The Palomar Fiber Nuller*. Astrophysical Journal, 729(2), 110, 2011.

Hart, Andrew F.; Goodale, Cameron E.; Mattmann, Chris A.; Zimdars, Paul; Crichton, Dan; Lean, Peter; Walise, Duane; Kim, Jinwon. *A cloud-enabled regional climate model evaluation system*. Proceedings - International Conference on Software Engineering, 43-49, 2011.

Hartogh, P.; Jarchow, C.; De Val-Borro, M.; Rengel, M.; Medvedev, A.S.; Sagawa, H.; Cavalie, T.; Lellouch, E.; Moreno, R.; Bockelee-Morvan, D.; Crovisier, J.; Encrenaz, T.; Biver, N.; Swinyard, B.M.; Sidher, S.; Lis, D.C.; Blake, G.A.; Becka, M.I.; Banaszkiewicz, M.; Szutowicz, S.; Kuppers, M.; Lara, L.-M.; Vandenbussche, B.; Blommaert, J.A.D.L.; Decin, L.; Waelkens, C.; Bensch, F.; Bergin, E.A.; Billebaud, F.; Cernicharo, J.; Encrenaz, P.; Feuchtgruber, H.; Fulton, T.; De Graauw, T.; Helmich, F.; Roelfsema, P.; Jehin, E.; Kidger, M.; Lorente, R.; Sanchez-Portal, M.; Verdugo, E.; Teyssier, D.; Naylor, D.A.; Portyankina, G.; Thomas, N.; Schieder, R.; Stutzki, J.; Whyborn, N.; Leduc, H.G.; Stern, J.A. *Herschel/HIFI observations of Mars: First detection of O_2 at submillimetre wavelengths and upper limits on HCl and H_2O_2*. Astronomy and Astrophysics, 521(1), L49, 2010.

Hartogh, P.; Jarchow, C.; Sagawa, H.; De Val-Borro, M.; Rengel, M.; Medvedev, A.S.; Cavalie, T.; Becka, M.I.; Banaszkiewicz, M.; Szutowicz, S.; Lellouch, E.; Moreno, R.; Bockelee-Morvan, D.; Crovisier, J.; Encrenaz, T.; Biver, N.; Swinyard, B.M.; Sidher, S.; Lis, D.C.; Blake, G.A.; Kuppers, M.; Lara, L.-M.; Vandenbussche, B.; Blommaert, J.A.D.L.; Decin, L.; Waelkens, C.; Bensch, F.; Bergin, E.A.; Billebaud, F.; Cernicharo, J.; Encrenaz, P.; Feuchtgruber, H.; Fulton, T.; De Graauw, T.; Jehin, E.; Kidger, M.; Lorente, R.; Sanchez-Portal, M.; Verdugo, E.; Naylor, D.A.; Portyankina, G.; Thomas, N.; Schieder, R.; Kramer, C.; Lorenzani, A.; Tofani, G.; Natale, E.; Pearson, J.; Klein, T.; Leinz, C.; Gusten, R. *First results on Martian carbon monoxide from Herschel/HIFI observations*. Astronomy and Astrophysics, 521(1), L48, 2010.

Hinkley, Sasha; Crepp, Justin R.; Oppenheimer, Ben R.; Zimmerman, Neil; Brenner, Douglas; Sivaramakrishnan, Anand; Zimmerman, Neil; Parry, Ian R.; King, David; Vasisht, Gautam; Ligon, Edgar; Shao, Michael; Roberts, Lewis C., Jr.; Pueyo, Laurent; Roberts, Jennifer E.; Lockhart, Thomas; Zhai, CX; Shelton, Chris; Burruss, Rick; Soummer, Remi; Sivaramakrishnan, Anand; Sivaramakrishnan, Anand; Beichman, Charles; Bouchez, Antonin; Dekany, Richard. *A New High Contrast Imaging Program at Palomar Observatory*. Publications of The Astronomical Society of The Pacific, 123(899), 74-86, 2011.

Hinkley, Sasha; Hillenbrand, Lynne; Crepp, Justin R.; Monnier, John D.; Oppenheimer, Ben R.; Zimmerman, Neil; Brenner, Douglas; Sivaramakrishnan, Anand; Roberts, Lewis C., Jr.; Zhao, Ming; Vasisht, Gautam; Pueyo, Laurent; Shao, Michael; Roberts, Jennifer E.; Burruss, Rick; Ireland, Michael; Zimmerman, Neil; Parry, Ian R.; King, David L.; Martinache, Frantz; Lai, Olivier; Soummer, Remi; Sivaramakrishnan, Anand; Sivaramakrishnan, Anand; Sivaramakrishnan, Anand; Beichman, Charles; Lloyd, James P.; Bernat, David; Perrin, Marshall D.; Bouchez, Antonin; Dekany, Richard. *Establishing alpha Oph As a Prototype Rotator: Improved Astrometric Orbit*. Astrophysical Journal, 726(2), 104, 2011.

Hoff, C.; Cady, E.; Chainyk, M.; Kissil, A.; Levine, M.; Moore, G. *High-precision thermal, structural, and optical analysis of an external occulter using a common model and the general purpose multi-physics analysis tool Cielo*. Proceedings of the SPIE - The International Society for Optical Engineering, 8127, 81270M (13 pp.), 2011.

Hoglund, L.; Liao, A.; Khoshakhlagh, A.; Ting, D.Z.; Soibel, A.; Nguyen, J.; Keo, S.A.; Gunapala, S.D. *Growth and characteristics of type-II InAs/GaSb superlattice-based detectors*. Proceedings of SPIE - The International Society for Optical Engineering, 8154, 81540K, 2011.

Hoglund, Linda; Khoshakhlagh, Arezou; Soibel, Alexander; Ting, David Z.; Hill, Cory J.; Nguyen, Jean; Keo, Sam; Gunapala, Sarath D. *Photoluminescence study of long wavelength superlattice infrared detectors*. Proceedings of SPIE - The International Society for Optical Engineering, 8155, 81550M, 2011.

Huang, Thomas; Gangl, Michael E.; Bingham, Andrew W. *Building climatological services on the cloud*. Proceedings - International Conference on Software Engineering, 72, 2011.

Hwang, H. S.; Elbaz, D.; Magdis, G.; Daddi, E.; Aussel, H.; Dannerbauer, H.; Madden, S.; Okumura, K.; Panuzzo, P.; Riguccini, L.; Sauvage, M.; Symeonidis, M.; Page, M. J.; Rawlings, J. I.; Seymour, N.; Tugwell, K. E.; Altieri, B.; Conversi, L.; Sanchez Portal, M.; Valtchanov, I.; Amblard, A.; Cooray, A.; Andreani, P.; Hatziminaoglou, E.; Andreani, P.; Arumugam, V.; Dunlop, J. S.; Ivison, R. J.; Auld, R.; Eales, S.; Gear, W.; Griffin, M.; Isaak, K.; Papageorgiou, A.; Pohlen, M.; Babbedge, T.; Chanial, P.; Clements, D. L.; Fox, M.; Mortier, A. M. J.; Rizzo, D.; Rowan-Robinson, M.; Trichas, M.; Berta, S.; Schreiber, N. Foerster; Genzel, R.; Lutz, D.; Magnelli, B.; Nordon, R.; Poglitsch, A.; Popesso, P.; Saintonge, A.; Shao, L.; Sturm, E.; Tacconi, L.; Blain, A.; Bock, J.; Cooray, A.; Dowell, C. D.; Levenson, L.; Lu, N.; Nguyen, H. T.; Schulz, B.; Shupe, D. L.; Vieira, J. D.; Xu, C. K.; Zemcov, M.; Bock, J.; Dowell, C. D.; Levenson, L.; Nguyen, H. T.; Zemcov, M.; Bongiovanni, A.; Castro-Rodriguez, N.; Cava, A.; Cepa, J.; Perez-Fournon, I.; Perez Garcia, A. M.; Bongiovanni, A.; Castro-Rodriguez, N.; Cava, A.; Cepa, J.; Perez-Fournon, I.; Perez Garcia, A. M.; Boselli, A.; Buat, V.; Burgarella, D.; Chapin, E.; Halpern, M.; Scott, D.; Chary, R. -R.; Cimatti, A.; Conley, A.; Glenn, J.; Dickinson, M.; Dominguez, H.; Maiolino, R.; Santini, P.; Dwek, E.; Farrah, D.; Oliver, S. J.; Roseboom, I. G.; Smith, A. J.; Wang, L.; Ward, R.; Franceschini, A.; Mainetti, G.; Marchetti, L.; Rodighiero, G.; Vaccari, M.; Gruppioni, C.; Pozzi, F.; Ibar, E.; Ivison, R. J.; Wright, G.; Jeong, W. -S.; Lagache, G.; Lagache, G.; Le Borgne, D.; Omont, A.; Vigroux, L.; Lee, H. M.; Lee, J. C.; Lee, M. G.; Lu, N.; Schulz, B.; Shupe, D. L.; Xu, C. K.; Maffei, B.; Pearson, C. P.; Rigopoulou, D.; Pearson, C. P.; Rigopoulou, D.; Stevens, J. A. *Evolution of dust temperature of galaxies through cosmic time as seen by Herschel*. Monthly Notices Of The Royal Astronomical Society, 409(1), 75-82, 2010.

Jacquot, Blake C.; Monacos, Steve P.; Hoenk, Michael E.; Greer, Frank; Jones, Todd J.; Nikzad, Shouleh. *A system and methodologies for absolute quantum efficiency measurements from the vacuum ultraviolet through the near infrared*. Review of Scientific Instruments, 82(4), 43102, 2011.

Jau, Bruno M.; McKinney, Colin M.; Smythe, Robert F.; Palmer, Dean. *Alignment mirror mechanisms for space use*. IEEE Aerospace Conference Proceedings, 5747381, 2011.

Johnson, William R.; Hook, Simon J.; Foote, Marc; Eng, Bjorn T.; Jau, Bruno. *High speed, multi-channel, thermal instrument development in support of HyspIRI-TIR*. Proceedings of SPIE - The International Society for Optical Engineering, 8155, 81550X, 2011.

Johnson, William R.; Hook, Simon J.; Mouroulis, Pantazis; Wilson, Daniel W.; Gunapala, Sarath D.; Realmuto, Vincent; Lamborn, Andy; Paine, Chris; Mumolo, Jason M.; Eng, Bjorn T. *HyTES: Thermal imaging spectrometer development*. IEEE Aerospace Conference Proceedings, 5747394, 2011.

Johnstone, D.; Fich, M.; McCoey, C.; Van Kempen, T.A.; Kristensen, L.E.; Visser, R.; Van Dishoeck, E.F.; Hogerheijde, M.R.; Yildiz, U.A.; Fuente, A.; Bachiller, R.; Santiago-Garcia, J.; Tafalla, M.; Cernicharo, J.; Caselli, P.; Plume, R.; Herczeg, G.J.; Wampfler, S.; Baudry, A.; Benz, A.O.; Bruderer, S.; Benedettini, M.; Codella, C.; Di Giorgio, A.M.; Giannini, T.; Nisini, B.; Saraceno, P.; Bergin, E.; Bjerkeli, P.; Liseau, R.; Olberg, M.; Blake, G.; Lis, D.; Bontemps, S.; Braine, J.; Herpin, F.; Jacq, T.; Daniel, F.; Dominik, C.; Doty, S.D.; Encrenaz, P.; Goicoechea, J.R.; De Graauw, Th.; Whyborn, N.; Helmich, F.; Marseille, M.; Risacher, C.; Shipman, R.; Van Der Tak, F.; Jellema, W.; Jrgensen, J.K.; Larsson, B.; Melnick, G.; Neufeld, D.; Parise, B.; Wyrowski, F.; Pearson, J.; Caux, E.; Honingh, N.; Schieder, R.; Teyssier, D. *Herschel/HIFI spectroscopy of the intermediate mass protostar NGC 7129 FIRS 2.* Astronomy and Astrophysics, 521(1), L41, 2010.

Jung, C.; Thomas, B.; Lee, C.; Peralta, A.; Gill, J.; Cooper, K.; Chattopadhyay, G.; Schlecht, E.; Lin, R.; Mehdi, I. *Compact submillimeter-wave receivers made with semiconductor nano-fabrication technologies.* IEEE MTT-S International Microwave Symposium Digest, 5972898, 2011.

Kahn, Ralph A.; Remer, Lorraine A.; Garay, Michael J.; Nelson, David L.; Levy, Robert C.; Bull, Michael A.; Diner, David J.; Martonchik, John V.; Hansen, Earl G.; Tanre, Didier. *Response to Toward unified satellite climatology of aerosol properties. 3. MODIS versus MISR versus AERONET.* Journal of Quantitative Spectroscopy & Radiative Transfer, 112(5), 901-909, 2011.

Kalashnikova, Olga V.; Garay, Michael J.; Davis, Anthony B.; Diner, David J.; Martonchik, John V.; Garay, Michael J. *Sensitivity of multi-angle photo-polarimetry to vertical layering and mixing of absorbing aerosols: Quantifying measurement uncertainties.* Journal of Quantitative Spectroscopy & Radiative Transfer, 112(13), 2149-2163, 2011.

Kama, M.; Dominik, C.; Maret, S.; Ceccarelli, C.; Crimier, N.; Bacmann, A.; Castets, A.; Hily-Blant, P.; Kahane, C.; Lefloch, B.; Pacheco, S.; Van Der Tak, F.; Helmich, F.; Van Der Wiel, M.H.D.; Helmich, F.; Caux, E.; Bottinelli, S.; Coutens, A.; Demyk, K.; Klotz, A.; Vastel, C.; Walters, A.; Fuente, A.; Lord, S.; Boogert, A.; Baudry, A.; Jacq, T.; Wakelam, V.; Cais, P.; Bell, T.; Blake, G.A.; Lis, D.; Phillips, T.; Benedettini, M.; Saraceno, P.; Bergin, E.A.; Cabrit, S.; Encrenaz, P.; Falgarone, E.; Gerin, M.; Hennebelle, P.; Pagani, L.; Salez, M.; Caselli, P.; Cernicharo, J.; Codella, C.; Lorenzani, A.; Comito, C.; Parise, B.; Schilke, P.; Wyrowski, F.; Gusten, R.; Philipp, S.; Klein, T.; Goldsmith, P.F.; Langer, W.; Pearson, J.; Yorke, H.; Henning, T.; Herbst, E.; Melnick, G.; Nisini, B.; Schuster, K.; Tielens, X.; Viti, S. *The methanol lines and hot core of OMC2-FIR4, an intermediate-mass protostar, with Herschel/HIFI.* Astronomy and Astrophysics, 521(1), L39, 2010.

Kamenetzky, J.; Glenn, J.; Maloney, P. R.; Earle, L.; Aguirre, J. E.; Bock, J. J.; Bradford, C. M.; Naylor, B. J.; Nguyen, H. T.; Zmuidzinas, J.; Earle, L.; Inami, H.; Matsuhara, H.; Murphy, E. J. *The Dense Molecular Gas in the Circumnuclear Disk of NGC 1068.* Astrophysical Journal, 731(2), 83, 2011.

Kangaslahti, Pekka; Pukala, David; Hoppe, Daniel; Gaier, Todd; Tanner, Alan; Lambrigtsen, Bjorn. *Broadband millimeter wave receiver with dual polarization.* IEEE MTT-S International Microwave Symposium Digest, 5972645, 2011.

Karasik, Boris S.; Sergeev, Andrei V.; Prober, Daniel E. *Nanobolometers for THz photon detection.* IEEE Transactions on Terahertz Science and Technology, 1(1), 97-1116005334, 2011.

Karasik, Boris S.; Cantor, Robin. *Demonstration of high optical sensitivity in far-infrared hot-electron bolometer.* Applied Physics Letters, 98(19), 193503, 2011.

Kar-Ming Cheung; Ho, C.; Kantak, A.; Lee, C.; Tye, R.; Richards, E.; Sham, C.; Schlesinger, A.; Barritt, B. *Wallops' low elevation link analysis for the Constellation launch/ascent links.* IEEE Aerospace Conference Proceedings, 15 pp., 2011.

Karpov, Alexandre; Miller, David A.; Zmuidzinas, Jonas; Stern, Jeffrey A.; Bumble, Bruce; Leduc, HG; Mehdi, Imran; Lin, Robert H. *Low Noise 1 THz SIS Mixer for Stratospheric Observatory: Design and Characterization*. IEEE Transactions on Applied Superconductivity, 21(3), 616-619, 2011.

Kasdin, N.J.; Spergel, D.N.; Vanderbei, R.J.; Lisman, D.; Shaklan, S.; Thomson, M.; Walkemeyer, P.; Bach, V.; Oakes, E.; Cady, E.; Martin, S.; Marchen, L.; Macintosh, B.; Rudd, R.E.; Mikula, J.; Lynch, D. *Advancing technology for starlight suppression via an external occulter*. Proceedings of SPIE - The International Society for Optical Engineering, 8151, 81510J, 2011.

Kateb, Babak; Moore, David F.; Okun, Michael S.; Prakash, Neal; Grundfest, Warren; Nikzad, Shouleh; Heiss, John D.; Kateb, Babak; Ahdoot, Daniel; Grundfest, Warren; Nikzad, Shouleh; Kateb, Babak; Kateb, Babak; Yamamoto, Vicky; Nikzad, Shouleh; Kateb, Babak; Black, Keith L.; Ljubimova, Julia Y.; Ding, Hui; Patil, Rameshwar; Portilla-Arias, Jose Antonio; Chiu, Katherine; Khalsa, Bhavraj; Moore, David F.; Modo, Mike; Neman, Josh; Grundfest, Warren; Okun, Michael S.; Okun, Michael S.; Prakash, Neal; Farahani, Keyvan; Heiss, John D.; Nikzad, Shouleh. *Nanoplatforms for constructing new approaches to cancer treatment, imaging, and drug delivery: What should be the policy?* NEUROIMAGE, 54, S106-S124, 2011.

Kaul, Anupama B.; Coles, James B.; Megerian, Krikor G.; Green, Robert O.; Pagano, Thomas; Bandaru, Prabhakar R.; Dokmeci, Mehmet R. *High-efficiency optical absorbers derived from carbon nanostructures*. Technical Proceedings of the 2011 NSTI Nanotechnology Conference and Expo, NSTI-Nanotech 2011, 2, 104-107, 2011.

Kaul, Anupama B.; Khan, Abdur R.; Megerian, Krikor; Bagge, Leif; Epp, Larry; Dokmeci, Mehmet R. *AC and DC applications of three-dimensional nano-electro-mechanical-systems*. Technical Proceedings of the 2011 NSTI Nanotechnology Conference and Expo, NSTI-Nanotech 2011, 2, 290-293, 2011.

Kausinis, Saulius; Yee, Karl; Barauskas, Rimantas. *Finite element modelling and simulation of thermo-elastical damping of MEMS vibrations*. Proceedings of SPIE - The International Society for Optical Engineering, 8031, 80311B, 2011.

Kern, Brian; Give'on, Amir; Kuhnert, Andreas; Niessner, Albert; Guyon, Olivier. *Laboratory testing of a Phase-Induced Amplitude Apodization (PIAA) coronagraph*. Proceedings of SPIE - The International Society for Optical Engineering, 8151, 815104, 2011.

Kjellgren, J.; Svedin, J.; Cooper, K.B. *Standoff imaging of a masked human face using a 670 GHz high resolution radar*. Proceedings of the SPIE - The International Society for Optical Engineering, 8188, 818809 (15 pp.), 2011.

Klima, Rachel L.; Pieters, Carle M.; Head, James W., III; Isaacson, Peter J.; Mustard, John F.; Nettles, Jeff W.; Boardman, Joseph W.; Green, Robert O.; Petro, Noah E.; Staid, Matthew I.; Sunshine, Jessica M.; Taylor, Lawrence A.; Tompkins, Stefanie. *New insights into lunar petrology: Distribution and composition of prominent low-Ca pyroxene exposures as observed by the Moon Mineralogy Mapper (M^3)*. Journal of Geophysical Research-Planets, 116, E00G06, 2011.

Kohno, K.; Shimasaku, K.; Aguirre, J. E.; Lupu, R.; Scott, K. S.; Aretxaga, I.; Hughes, D. H.; Arumugam, V.; Cirasuolo, M.; Ivison, R. J.; Matsuhara, H.; Austermann, J. E.; Ikarashi, S.; Kohno, K.; Motohara, K.; Tsukagoshi, T.; Bock, J. J.; Bradford, C. M.; Naylor, B. J.; Nguyen, H. T.; Zmuidzinas, J.; Bock, J. J.; Bradford, C. M.; Murphy, E. J.; Zmuidzinas, J.; Cirasuolo, M.; Ivison, R. J.; Earle, L.; Glenn, J.; Kamenetzky, J.; Maloney, P.; Ezawa, H.; Nakanishi, K.; Furusawa, H.; Furusawa, J.; Takata, T.; Hatsukade, B.; Iono, D.; Kawabe, R.; Tamura, Y.; Johnson, S.; Wilson, G. W.; Yun, M. S.; Takagi, T.; Mauskopf, P. D.; Nakajima, K.; Shimasaku, K.; Perera, T. A.; Tanaka, K.; Wilner, D. J. *Detection of an ultrabright submillimetre galaxy in the Subaru/XMM-Newton Deep Field using AzTEC/ASTE*. Monthly Notices of The Royal Astronomical Society, 415(4), 3081-3096, 2011.

Korniski, Ronald; Bae, Sam Y.; Shearn, Michael; Manohara, Harish; Shahinian, Hrayr. *3d imaging with a single-aperture 3-mm objective lens: Concept, fabrication and test*. Proceedings of SPIE - The International Society for Optical Engineering, 8129, 812904, 2011.

Kramer, Georgiana Y.; Combe, JP; McCord, Thomas B.; Besse, Sebastien; Nettles, Jeffrey; Pieters, Carle M.; Head, James W., III; Clark, Roger N.; Staid, Matthew; Malaret, Erik; Boardman, Joseph; Green, Robert O. *Newer views of the Moon: Comparing spectra from Clementine and the Moon Mineralogy Mapper*. Journal of Geophysical Research-Planets, 116, E00G04, 2011.

Krasnicki, Adam; Kisiel, Zbigniew; Drouin, Brian J.; Pearson, John C. *Terahertz spectroscopy of isotopic acrylonitrile*. Journal of Molecular Structure, 1006(1-3), 20-27, 2011.

Krist, John E.; Moody, Dwight; Trauger, John T.; Shaklan, Stuart B.; Belikov, Ruslan; Pueyo, Laurent; Mawet, Dimitri P. *Assessing the performance limits of internal coronagraphs through end-to-end modeling: A NASA TDEM study*. Proceedings of SPIE - The International Society for Optical Engineering, 8151, 81510E, 2011.

Kristensen, L.E.; Visser, R.; Van Dishoeck, E.F.; Yildiz, U.A.; Brinch, C.; Hogerheijde, M.R.; Deul, E.; Tielens, A.G.G.M.; Doty, S.D.; Herczeg, G.J.; Liu, F.-C.; Parise, B.; Wyrowski, F.; Jrgensen, J.K.; Van Kempen, T.A.; Melnick, G.; Wampfler, S.F.; Bruderer, S.; Benz, A.O.; Bachiller, R.; Tafalla, M.; Baudry, A.; Bontemps, S.; Braine, J.; Herpin, F.; Jacq, T.; Benedettini, M.; Di Giorgio, A.M.; Saraceno, P.; Bergin, E.A.; Bjerkeli, P.; Liseau, R.; Olberg, M.; Blake, G.A.; Caselli, P.; Cernicharo, J.; Daniel, F.; Goicoechea, J.R.; Codella, C.; De Graauw, Th.; Helmich, F.; Marseille, M.; Risacher, C.; Shipman, R.; Van Der Tak, F.; Beintema, D.; De Jonge, A.; Dieleman, P.; Roelfsema, P.; Dominik, C.; Encrenaz, P.; Fich, M.; McCoey, C.; Fuente, A.; Giannini, T.; Nisini, B.; Johnstone, D.; Kaufman, M.J.; Larsson, B.; Lis, D.; Neufeld, D.; Pearson, J.C.; Plume, R.; Santiago-Garcia, J.; Ossenkopf, V.; Stutzki, J.; Whyborn, N. *Water in low-mass star-forming regions with Herschel: HIFI spectroscopy of NGC 1333*. Astronomy and Astrophysics, 521(1), L30, 2010.

Kuze, Akihiko; Kawakami, Shuji; Shiomi, Kei; Urabe, Tomoyuki; Suto, Hiroshi; Taylor, T. E.; Day, Jason O.; Kataoka, Fumie; Yoshida, Mayumi; Mitomi, Yasushi; Bruegge, Carol J.; Pollock, Harold; Basilio, Ralph; Helmlinger, Mark; Matsunaga, Tsuneo. *Vicarious Calibration of the GOSAT Sensors Using the Railroad Valley Desert Playa*. IEEE Transactions on Geoscience and Remote Sensing, 49(5), 1781-1795, 2011.

Lawson, P.R.; Lay, O.P.; Martin, S.R.; Peters, R.D.; Booth, A.J.; Gappinger, R.O.; Ksendzov, A.; Scharf, D.P. *New technologies for exoplanet detection with mid-IR interferometers*. EPJ Web of Conferences, 16, 07001 (11 pp.), 2011.

Lee, Seungwon; Kahn, Brian H.; Teixeira, Joao. *Characterization of cloud liquid water content distributions from CloudSat*. Journal of Geophysical Research-Atmospheres, 115, D20203, 2010.

Lee, Tong; Hobbs, William R.; Willis, Joshua K.; Halkides, Daria; Fukumori, Ichiro; Armstrong, Edward M.; Hayashi, Akiko K.; Liu, W. Timothy; Patzert, William; Wang, Ou. *Record warming in the South Pacific and western Antarctica associated with the strong central-Pacific El Nino in 2009-10*. Geophysical Research Letters, 37, L19704, 2010.

Levenson, L.; Zemcov, M.; Blain, A.; Bock, J.; Cooray, A.; Dowell, C. D.; Nguyen, H. T.; Schulz, B.; Shupe, D. L.; Vieira, J. D.; Xu, C. K.; Levenson, L.; Zemcov, M.; Bock, J.; Dowell, C. D.; Nguyen, H. T.; Marsden, G.; Chapin, E.; Halpern, M.; Scott, Douglas; Valiante, E.; Wiebe, D.; Amblard, A.; Cooray, A.; Serra, P.; Conley, A.; Ellsworth-Bowers, T. P.; Glenn, J.; Rangwala, N.; Franceschini, A.; Griffin, M.; Papageorgiou, A.; Pohlen, M.; Oliver, S. J.; Page, M. J.; Perez-Fournon, I.; Perez-Fournon, I.; Rowan-Robinson, M.; Schulz, B.; Shupe, D. L.; Xu, C. K.; Vigroux, L.; Wright, G. *HerMES: SPIRE Science Demonstration Phase maps*. Monthly Notices Of The Royal Astronomical Society, 409(1), 83-91, 2010.

Li, HB; Blundell, Raymond; Hedden, Abigail; Paine, Scott; Tong, Edward; Kawamura, Jonathan. *Evidence for dynamically important magnetic fields in molecular clouds*. Monthly Notices of The Royal Astronomical Society, 411(3), 2067-2075, 2011.

Li, Yuan; Papapolymerou, John; Mehdi, Imran; Lin, Robert H.; Maestrini, Alain; Maestrini, Alain. *A Broadband 900-GHz Silicon Micromachined Two-Anode Frequency Tripler*. IEEE Transactions on Microwave Theory and Techniques, 59(6), 1673-1681, 2011.

Liewer, P.C.; Hall, J.R.; De Jong, E.M.; Howard, R.A; Thompson, W.T; Thernisien, A. *Stereoscopic analysis of STEREO/SECCHI data for CME trajectory determination*. Journal of Atmospheric and Solar-Terrestrial Physics, 73(10), 1173-1186, 2011.

Lis, D.C.; Gupta, H.; Bell, T.A.; Phillips, T.G.; Blake, G.A.; Emprechtinger, M.; Zmuidzinas, J.; Pearson, J.C.; Goldsmith, P.F.; Langer, W.D.; Li, D.; Morris, P.; Yorke, H.W.; Yu, S.; Neufeld, D.A.; Schilke, P.; Comito, C.; Menten, K.M.; Parise, B.; Wyrowski, F.; Gusten, R.; Muller, H.S.P.; Giesen, T.F.; Ossenkopf, V.; Qin, S.-L.; Schlemmer, S.; Stutzki, J.; Bergin, E.A.; Crockett, N.R.; Wang, S.; Ceccarelli, C.; Bacmann, A.; Castets, A.; Crimier, N.; Hily-Blant, P.; Kahane, C.; Lefloch, B.; Maret, S.; Pacheco, S.; Baudry, A.; Jack, T.; Wakelam, V.; Desbat, J.-P.; Benedettini, M.; Lorenzani, A.; Benz, A.; Black, J.; Liseau, R.; Boogert, A.; Lord, S.D.; Bottinelli, S.; Caux, E.; Coutens, A.; Demyk, K.; Joblin, C.; Klotz, A.; Vastel, C.; Walters, A.; Cabrit, S.; Encrenaz, P.; Pagani, L.; Salez, M.; Caselli, P.; Cernicharo, J.; Daniel, F.; Goicoechea, J.R.; Codella, C.; Dominic, C.; Kama, M.; Dubernet, M.-L.; Falgarone, E.; Gerin, M.; Hennebelle, P.; Perault, M.; Fuente, A.; Helmich, F.; Henning, T.; Herbst, E.; Hjalmarson, A?.; Hollenbach, D.; Johnstone, D.; Kaufman, M.; Larsson, B.; Le Bourlot, J.L.; Le Petit, F.; Roueff, E.; Martin, P.G.; Melnick, G.J.; Murphy, J.A.; Trappe, N.; Nagy, Z.; Plume, R.; Van Der Tak, F.F.S.; Van Der Wiel, M.H.D.; Nisini, B.; Sandqvist, A.; Saraceno, P.; Schuster, K.; Snell, R.; Tielens, A.; Van Dishoeck, E.; Viti, S.; Delorme, Y.; Krieg, J.-M.; Delforge, B. *Herschel/HIFI discovery of interstellar chloronium (H_2Cl+)*. Astronomy and Astrophysics, 521(1), L9, 2010.

Lis, D.C.; Phillips, T.G.; Bell, T.A.; Emprechtinger, M.; Blake, G.A.; Monje, R.; Zmuidzinas, J.; Karpov, A.; Kooi, J.; Goldsmith, P.F.; Gry, C.; Gupta, H.; Pearson, J.C.; Yorke, H.W.; Yu, S.; Maiwald, F.W.; Neufeld, D.A.; Sonnentrucker, P.; Herbst, E.; Comito, C.; Schilke, P.; Menten, K.M.; Muller, H.S.P.; Giesen, T.F.; Ossenkopf, V.; Qin, S.-L.; Schlemmer, S.; Stutzki, J.; Schieder, R.; Bergin, E.A.; Crockett, N.R.; Wang, S.; Gerin, M.; De Luca, M.; Encrenaz, P.; Falgarone, E.; Godard, B.; Hennebelle, P.; Perault, M.; Salez, M.; Black, J.H.; Persson, C.; Boulanger, F.; Dartois, E.; Caux, E.; Coutens, A.; Joblin, C.; Vastel, C.; Ceccarelli, C.; Hily-Blant, P.; Maret, S.; Cernicharo, J.; Daniel, F.; Goicoechea, J.R.; Martin-Pintado, J.; Dubernet, M.-L.; Geballe, T.R.; Koos, R.; Kreowski, J.; Kazmierczak, M.; Johnstone, D.; Lord, S.D.; Morris, P.; Boogert, A.; Martin, P.G.; Melnick, G.J.; Mookerjea, B.; Murphy, J.A.; Trappe, N.; Plume, R.; Schmidt, M.; Teyssier, D.; Van Der Tak, F.F.S.; Zaal, P.; Erickson, N. *Herschel/HIFI measurements of the ortho/para ratio in water towards Sagittarius B2(M) and W31C*. Astronomy and Astrophysics, 521(1), L26, 2010.

Llombart, N.; Thomas, B.; Lee, C.; Chattopadhyay, G.; Mehdi, I.; Alonso, M.; Jofre, L. *Silicon based antennas for THz integrated arrays*. Proceedings of the 5th European Conference on Antennas and Propagation, EUCAP 2011, 3176-31795782257, 2011.

Llombart, Nuria; Dengler, Robert J.; Cooper, Ken B. *Terahertz antenna system for a near-video-rate radar imager [Antenna Applications]*. IEEE Antennas and Propagation Magazine, 52(5), 251-2595687558, 2010.

Llombart, Nuria; Chattopadhyay, Goutam; Skalare, Anders; Mehdi, Imran. *Novel Terahertz Antenna Based on a Silicon Lens Fed by a Leaky Wave Enhanced Waveguide*. IEEE Transactions on Antennas and Propagation, 59(6), 2160-2168, 2011.

Magdis, G. E.; Elbaz, D.; Hwang, H. S.; Aussel, H.; Madden, S.; Panuzzo, P.; Amblard, A.; Cooray, A.; Arumugam, V.; Blain, A.; Bock, J.; Cooray, A.; Dowell, C. D.; Levenson, L.; Lu, N.; Nguyen, H. T.; Schulz, B.; Shupe, D. L.; Xu, C. K.; Zemcov, M.; Bock, J.; Dowell, C. D.; Levenson, L.; Nguyen, H. T.; Zemcov, M.; Boselli, A.; Buat, V.; Castro-Rodriguez, N.; Cava, A.; Perez-Fournon, I.; Castro-Rodriguez, N.; Cava, A.; Perez-Fournon, I.; Chanial, P.; Clements, D. L.; Rizzo, D.; Rowan-Robinson, M.; Trichas, M.; Conley, A.; Glenn, J.; Conversi, L.; Valtchanov, I.; Dwek, E.; Eales, S.; Griffin, M.; Isaak, K.; Papageorgiou, A.; Pohlen, M.; Farrah, D.; Oliver, S. J.; Roseboom, I. G.; Wang, L.; Franceschini, A.; Mainetti, G.; Marchetti, L.; Vaccari, M.; Halpern, M.; Scott, Douglas; Hatziminaoglou, E.; Huang, J.; Ibar, E.; Wright, G.; Lagache, G.; Lagache, G.; Lonsdale, C. J.; Lu, N.; Schulz, B.; Shupe, D. L.; Xu, C. K.; Maffei, B.; Morrison, G. E.; Morrison, G. E.; Omont, A.; Vigroux, L.; Owen, F. N.; Pannella, M.; Strazzullo, V.; Page, M. J.; Seymour, N.; Symeonidis, M.; Tugwell, K. E.; Pearson, C. P.; Rigopoulou, D.; Pearson, C. P.; Rigopoulou, D.; Stevens, J. A. *Herschel reveals a T-dust-unbiased selection of z similar to 2 ultraluminous infrared galaxies*. Monthly Notices of The Royal Astronomical Society, 409(1), 22-28, 2010.

Mahabal, A.A.; Djorgovski, S.G.; Donalek, C.; Drake, A.J.; Graham, M.J.; Williams, R.D.; Moghaddam, B.; Turmon, M. *Classification of optical transients: Experiences from PQ and CRTS surveys*. EAS Publications Series, 45, 173-178, 2011.

Mantry, Sonny; Ramsey-Musolf, Michael J.; Ramsey-Musolf, Michael J.; Sacco, Gian Franco. *Examination of higher-order twist contributions in parity-violating deep-inelastic electron-deuteron scattering*. Physical Review, C, 82(6), 65205, 2010.

Marseille, M.G.; Van Der Tak, F.F.S.; Frieswijk, W.; Shipman, R.; Dieleman, P.; De Graauw, Th.; Helmich, F.; Jackson, B.; Jellema, W.; Kester, D.; Laauwen, W.; Luinge, W.; Risacher, C.; Roelfsema, P.; Herpin, F.; Chavarria, L.; Pietropaoli, B.; Baudry, A.; Bontemps, S.; Braine, J.; Caselli, P.; Wyrowski, F.; Parise, B.; Cernicharo, J.; Daniel, F.; Goicoechea, J.R.; Jacq, T.; Codella, C.; Van Dishoeck, E.F.; Hogerheijde, M.R.; Kristensen, L.E.; Visser, R.; Yildiz, U.A.; Bachiller, R.; Tafalla, M.; Benedettini, M.; Di Giorgio, A.M.; Saraceno, P.; Benz, A.O.; Wampfler, S.F.; Bergin, E.; Bjerkeli, P.; Liseau, R.; Olberg, M.; Blake, G.A.; Bruderer, S.; Caux, E.; Dominik, C.; Doty, S.D.; Encrenaz, P.; Fich, M.; McCoey, C.; Fuente, A.; Gaier, T.; Javadi, H.; Pearson, J.C.; Siegel, P.; Giannini, T.; Nisini, B.; Herczeg, G.J.; Johnstone, D.; Jrgensen, J.K.; Larsson, B.; Lis, D.; Megej, A.; Melnick, G.; Van Kempen, T.A.; Neufeld, D.; Plume, R.; Santiago-Garcia, J.; Stutzki, J. *Water abundances in high-mass protostellar envelopes: Herschel observations with HIFI*. Astronomy and Astrophysics, 521(1), L32, 2010.

Marshall, James J.; Downs, Robert R.; Mattmann, Chris A. *Software reuse methods to improve technological infrastructure for e-Science*. Proceedings of the 2011 IEEE International Conference on Information Reuse and Integration, IRI 2011, 528-5326009611, 2011.

Martin, S.R.; Booth, A.J. *Demonstration of exoplanet detection using an infrared telescope array*. Astronomy and Astrophysics, 520(14), A96, 2010.

Martin, Stefan; Ksendzov, Alex; Lay, Oliver; Peters, Robert D.; Scharf, Daniel P. *TPF-interferometer: A decade of development in exoplanet detection technology*. Proceedings of SPIE - The International Society for Optical Engineering, 8151, 81510D, 2011.

Martin, Stefan R.; Liewer, Kurt M.; Ksendzov, Alexander; Serabyn, Eugene. *An optical fiber-based high contrast imager*. Proceedings of SPIE - The International Society for Optical Engineering, 8146, 81460J, 2011.

Mattmann, Chris; Crichton, Daniel; Hart, Andrew; Kelly, Sean; Hughes, Steven. *Experiments with storage and preservation of NASA's planetary data via the cloud*. IT Professional, 12(5), 28-355483284, 2010.

Mawet, Dimitri; Murakami, Naoshi; Baba, Naoshi; Hamaguchi, Shoki; Ise, Akitoshi; Oka, Kazuhiko; Sakamoto, Moritsugu; Delacroix, Christian; Absil, Olivier; Habraken, Serge; Hanot, Charles; Piron, Pierre; Riaud, Pierre; Surdej, Jean; Serabyn, Eugene; Burruss, Rick; Kern, Brian; Krist, John; Kuhnert, Andreas; Levine, Marie; Liewer, Kurt; Mennesson, Bertrand; Moody, Dwight; Niessner, Albert; Park, Peggy; Trauger, John; Traub, Wesley; Wallace, James; Baudrand, Jacques; Boccaletti, Anthony; Chipman, Russell; McClain, Stephen; Forsberg, Pontus; Karlsson, Mikael; McEldowney, Scott; Murakami, Hiroshi; Nishikawa, Jun; Tamura, Motohide; Shemo, David; Pueyo, Laurent; Tabirian, Nelson; Yokochi, Kaito. *Taking the vector vortex coronagraph to the next level for ground- and space-based exoplanet imaging instruments: Review of technology developments in the USA, Japan, and Europe.* Proceedings of SPIE - The International Society for Optical Engineering, 8151, 815108, 2011.

Mawet, Dimitri; Serabyn, Eugene; Moody, Dwight; Kern, Brian; Niessner, Albert; Kuhnert, Andreas; Trauger, John; Shemo, David; Chipman, Russell; McClain, Stephen. *Recent results of the second generation of vector vortex coronagraphs on the high-contrast imaging testbed at JPL*. Proceedings of SPIE - The International Society for Optical Engineering, 8151, 81511D, 2011.

McGovern, Amy; Wagstaff, Kiri L. *Machine learning in space: Extending our reach*. Machine Learning, 84(3), 335-340, 2011.

Medvidovic, Nenad; Mohan, T.S.; Mattmann, Chris A. *Workshop on software engineering for cloud computing (SECLOUD 2011)*. Proceedings - International Conference on Software Engineering, 1196-1197, 2011.

Melnick, G.J.; Tolls, V.; Neufeld, D.A.; Bergin, E.A.; Wang, S.; Crockett, N.R.; Phillips, T.G.; Bell, T.A.; Emprechtinger, M.; Joblin, C.; Lis, D.C.; Zmuidzinas, J.; Blake, G.A.; Cabrit, S.; Pagani, L.; Salez, M.; Caux, E.; Vastel, C.; Ceccarelli, C.; Maret, S.; Cernicharo, J.; Daniel, F.; Goicoechea, J.R.; Comito, C.; Menten, K.M.; Schilke, P.; Dubernet, M.-L.; Encrenaz, P.; Falgarone, E.; Gerin, M.; Perault, M.; Giesen, T.F.; Muller, H.S.P.; Ossenkopf, V.; Qin, S.-L.; Schlemmer, S.; Stutzki, J.; Goldsmith, P.F.; Langer, W.D.; Pearson, J.C.; Yorke, H.W.; Yu, S.; Herbst, E.; Johnstone, D.; Latter, W.D.; Lord, S.D.; Morris, P.; Martin, P.G.; Murphy, J.A.; Trappe, N.; Plume, R.; Van Der Tak, F.F.S. *Herschel observations of EXtra-Ordinary Sources (HEXOS), Observations of H_2O and its isotopologues towards Orion KL*. Astronomy and Astrophysics, 521(1), L27, 2010.

Mennesson, B.; Serabyn, E.; Martin, S. R.; Liewer, K.; Mawet, D.; Hanot, C. *New Constraints on Companions and Dust Within a Few Au of Vega*. Astrophysical Journal, 736(1), 14, 2011.

Meras Jr., Patrick; Shapiro, Andrew; Cooper, Mark; Dillon, R. Peter; Forouhar, Siamak; Gontijo, Ivair; Liebe, Carl Christian. *Qualification and selection of flight diode lasers for the NuSTAR space mission*. IEEE Aerospace Conference Proceedings, 5747388, 2011.

Michaels, Darren. *Phaeton mast dynamics: On-orbit characterization of deployable masts*. IEEE Aerospace Conference Proceedings, 5747412, 2011.

Millan-Gabet, R.; Serabyn, E.; Mennesson, B.; Traub, W. A.; Stapelfeldt, K.; Bryden, G.; Colavita, M. M.; Booth, A. J.; Barry, R. K.; Danchi, W. C.; Kuchner, M.; Stark, C. C.; Ragland, S.; Hrynevych, M.; Woillez, J. *Exozodiacal Dust Levels For Nearby Main-Sequence Stars: A Survey With The Keck Interferometer Nuller*. Astrophysical Journal, 734(1), 67, 2011.

Mouroulis, Pantazis; Van Gorp, Byron E.; White, Victor E.; Mumolo, Jason M.; Hebert, Daniel; Feldman, Martin. *A compact, fast, wide-field imaging spectrometer system*. Proceedings of SPIE - The International Society for Optical Engineering, 8032, 80320U, 2011.

Munkyo Seo; Urteaga, M.; Hacker, J.; Young, A.; Griffith, Z.; Pierson, R.; Rowell, P.; Jain, V.; Rodwell, M.; Skalare, A.; Peralta, A.; Lin, R.; Pukala, D. *InP HBT IC Technology for Terahertz Frequencies: Fundamental Oscillators Up to 0.57 THz*. IEEE Journal of Solid-State Circuits, 46(10), 2203-14, 2011.

Muterspaugh, Matthew W.; Muterspaugh, Matthew W.; Fekel, Francis C.; Williamson, M.; Lane, Benjamin F.; Hartkopf, William I.; Kulkarni, S. R.; Konacki, Maciej; Konacki, Maciej; Burke, Bernard F.; Colavita, M. M.; Shao, M. *The Phases Differential Astrometry Data Archive. IV. The Triple Star Systems 63 Gem A and HR 2896*. Astronomical Journal, 140(6), 1646-1656, 2010.

Muterspaugh, Matthew W.; Muterspaugh, Matthew W.; Williamson, M.; Hartkopf, William I.; Lane, Benjamin F.; Kulkarni, S. R.; Konacki, Maciej; Konacki, Maciej; Burke, Bernard F.; Colavita, M. M.; Shao, M.; Wiktorowicz, Sloane J. *The Phases Differential Astrometry Data Archive. II. Updated Binary Star Orbits and A Long Period Eclipsing Binary*. Astronomical Journal, 140(6), 1623-1630, 2010.

Muterspaugh, Matthew W.; Muterspaugh, Matthew W.; Williamson, M.; Lane, Benjamin F.; Kulkarni, S. R.; Konacki, Maciej; Konacki, Maciej; Burke, Bernard F.; Colavita, M. M.; Shao, M.; Hartkopf, William I.; Boss, Alan P. *The Phases Differential Astrometry Data Archive. V. Candidate Substellar Companions to Binary Systems*. Astronomical Journal, 140(6), 1657-1671, 2010.

Muterspaugh, Matthew W.; Muterspaugh, Matthew W.; Lane, Benjamin F.; Kulkarni, S. R.; Konacki, Maciej; Konacki, Maciej; Burke, Bernard F.; Colavita, M. M.; Shao, M. *The Phases Differential Astrometry Data Archive. III. Limits To Tertiary Companions*. Astronomical Journal, 140(6), 1631-1645, 2010.

Muterspaugh, Matthew W.; Muterspaugh, Matthew W.; Lane, Benjamin F.; Kulkarni, S. R.; Konacki, Maciej; Konacki, Maciej; Burke, Bernard F.; Colavita, M. M.; Shao, M.; Wiktorowicz, Sloane J. *The Phases Differential Astrometry Data Archive. I. Measurements and Description*. Astronomical Journal, 140(6), 1579-1622, 2010.

Nasiri, Shaima L.; Dang, H. Van T.; Kahn, Brian H.; Fetzer, Eric J.; Manning, Evan M.; Schreier, Mathias M.; Schreier, Mathias M.; Frey, Richard A. *Comparing MODIS and AIRS Infrared-Based Cloud Retrievals*. Journal of Applied Meteorology and Climatology, 50(5), 1057-1072, 2011.

Naylor, B. J.; Bradford, C. M.; Bock, J. J.; Nguyen, H. T.; Zmuidzinas, J.; Aguirre, J. E.; Earle, L.; Glenn, J.; Kamenetzky, J.; Maloney, P. R.; Inami, H.; Matsuhara, H. *A Census of the High-Density Molecular Gas in M82*. Astrophysical Journal, 722(1), 668-681, 2010.

Negrello, M.; Hopwood, R.; Serjeant, S.; De Zotti, G.; Buttiglione, S.; Cooray, A.; Barton, E.; Cooke, J.; Kim, S.; Verma, A.; Rawlings, S.; Rigopoulou, D.; Bock, J.; Bradford, C.M.; Naylor, B.J.; Nguyen, H.; Zmuidzinas, J.; Frayer, D.T.; Maddalena, R.J.; Gurwell, M.A.; Blundell, R.; Omont, A.; Neri, R.; Cox, P.; Dannerbauer, H.; Leeuw, L.L.; da Cunha, E.; Rodighiero, G.; Bonfield, D.G.; Jarvis, M.J.; Thompson, M.A.; Ivison, R.J.; Ibar, E.; Dunlop, J.S.; Dye, S.; Eales, S.; Auld, R.; Dariush, A.; Pascale, E.; Pohlen, M.; Aretxaga, I.; Hughes, D.H.; Bertoldi, F.; Valtchanov, I.; Dunne, L.; Maddox, S.; Rigby, E.E.; Smith, D.J.B.; Driver, S.P.; Hill, D.; Kelvin, L.; Robotham, A.; Cava, A.; Grady, C.A.; Clements, D.L.; Fritz, J.; Hornbeck, J.B.; Lagache, G.; Lopez-Caniego, M.; Gonzalez-Nuevo, J.; Danese, L.; Simpson, C.; Term, P.; Woodgate, B.E.; York, D.G.; Aguirre, J.E.; Lupu, R.E.; Scott, K.S.; Beelen, A.; Blain, A.; Vieira, J.D.; Baker, A.J.; Birkinshaw, M.; Burgarella, D.; Fleuren, S.; Glenn, J.; Kamenetzky, J.; Maloney, P.R.; Harris, A.I.; Madore, B.F.; Seibert, M.; Matsuhara, H.; Michaowski, M.J.; van der Werf, P.P.; Murphy, E.J.; Popescu, C.; Scott, D.; Smail, I.; Tuffs, R.J. *The Detection of a Population of Submillimeter-Bright Strongly Lensed Galaxies*. Science, 330(6005), 800-4, 2010.

Neidholdt, Evan L.; Beauchamp, J.L. *Switched ferroelectric plasma ionizer (SwiFerr) for ambient mass spectrometry*. Analytical Chemistry, 83(1), 38-43, 2011.

Nemati, Bijan; Shao, Michael; Zhai, Chengxing; Erlig, Hernan; Wang, Xu; Goullioud, Renaud. *Micropixel-level image position sensing testbed*. Proceedings of SPIE - The International Society for Optical Engineering, 8151, 81510W, 2011.

Nguyen, Jean; Hill, Cory J.; Rafol, Don; Keo, Sam; Soibel, Alexander; Ting, David Z.-Y.; Mumolo, Jason; Liu, John; Gunapala, Sarath D. *Pixel isolation of low dark-current large-format InAs/GaSb superlattice complementary barrier infrared detector focal plane arrays with high fill factor*. Proceedings of SPIE - The International Society for Optical Engineering, 7945, 79451T, 2011.

Noecker, Charley; Kendrick, Steve; Shaklan, Stuart; Wallace, James K.; Kern, Brian; Give'on, Amir; Kasdin, Jeremy; Belikov, Ruslan. *Advanced speckle sensing for internal coronagraphs*. Proceedings of SPIE - The International Society for Optical Engineering, 8151, 81510I, 2011.

Norton, Charles D.; Moe, Karen. *Sensor web technology challenges and advancements for the earth science decadal survey era*. International Geoscience and Remote Sensing Symposium (IGARSS), 3931-39346050091, 2011.

Pagano, Thomas S.; Olsen, Edward T.; Chahine, Moustafa T.; Ruzmaikin, Alexander; Nguyen, Hai; Jiang, Xun. *Monthly representations of mid-tropospheric carbon dioxide from the Atmospheric Infrared Sounder*. Proceedings of SPIE - The International Society for Optical Engineering, 8158, 81580C, 2011.

Park, James; Johnson, J. T.; Majurec, Ninoslav; Niamsuwan, Noppasin; Piepmeier, Jeffrey R.; Mohammed, Priscilla N.; Ruf, Christopher S.; Misra, Sidharth; Yueh, Simon H.; Dinardo, Steve J. *Airborne L-Band Radio Frequency Interference Observations From the SMAPVEX08 Campaign and Associated Flights*. IEEE Transactions on Geoscience and Remote Sensing, 49(9), 3359-3370, 2011.

Parker, Eric T.; Bada, Jeffrey L.; Cleaves, Henderson J.; Dworkin, Jason P.; Glavin, Daniel P.; Callahan, Michael; Aubrey, Andrew; Lazcano, Antonio. *Primordial synthesis of amines and amino acids in a 1958 Miller H(2)S-rich spark discharge experiment*. Proceedings of The National Academy of Sciences of The United States of America, 108(14), 5526-5531, 2011.

Pearson, John C. *Microwave spectroscopy of methanol between 2.48 and 2.77 THz*. Journal of The Optical Society of America B-Optical Physics, 28(10), 2549-2577, 2011.

Pearson, John C.; Drouin, Brian J.; Mehdi, Imran; Ward, John; Lin, Robert H.; Yu, SS; Gill, John J.; Thomas, Bertrand; Lee, Choonsup; Chattopadhyay, Goutam; Schlecht, Erich; Maiwald, Frank W.; Goldsmith, Paul F.; Siegel, Peter; Maestrini, Alain. *Demonstration of a room temperature 2.48-2.75 THz coherent spectroscopy source*. Review of Scientific Instruments, 82(9), 93105, 2011.

Pieters, C. M.; Cheek, L.; Dhingra, D.; Head, J. W.; Isaacson, P.; Mustard, J.; Nettles, J.; Whitten, J.; Besse, S.; Sunshine, J.; Boardman, J.; Buratti, B.; Green, R. O.; Lundeen, S.; Clark, R. N.; Combe, J. P.; Kramer, G.; McCord, T.; Goswami, J. N.; Klima, R.; Malaret, E.; Petro, N.; Runyon, C.; Staid, M.; Taylor, L. A.; Thaisen, K.; Tompkins, S. *Mg-spinel lithology: A new rock type on the lunar farside*. Journal of Geophysical Research-Planets, 116, E00G08, 2011.

Pingree, Paula J.; Bekker, Dmitriy L.; Werne, Thomas A.; Wilson, Thor O. *The prototype development phase of the CubeSat on-board processing validation experiment*. IEEE Aerospace Conference Proceedings, 5747230, 2011.

Pinty, Bernard; Verstraete, Michel M.; Gobron, Nadine; Widlowski, Jean-Luc; Taberner, Malcolm; Haemmerle, Vance R.; Paradise, Susan R.; Vermote, Eric. *Corrigendum*. Journal of Climate, 24(17), 4769, 2011.

Pinty, Bernard; Verstraete, Michel M.; Gobron, Nadine; Widlowski, JL; Pinty, Bernard; Taberner, Malcolm; Haemmerle, Vance R.; Paradise, Susan R.; Vermote, Eric. *Global-Scale Comparison of MISR and MODIS Land Surface Albedos*. Journal of Climate, 24(3), 732-749, 2011.

Poberezhskiy, Ilya Y.; Chang, Daniel H.; Erlig, Hernan. *Optimized biasing of pump laser diodes in a highly reliable metrology source for long-duration space missions*. Proceedings of SPIE - The International Society for Optical Engineering, 7918, 791807, 2011.

Polonsky, Igor; Rogers, Matt; Pollock, Randy. *Identification and Correction of Residual Image in the O(2) A-Band of the Orbiting Carbon Observatory*. IEEE Transactions on Geoscience and Remote Sensing, 49(6), 2426-2437, 2011.

Pueyo, Laurent; Pueyo, Laurent; Kasdin, N. Jeremy; Shaklan, Stuart. *Propagation of aberrations through phase-induced amplitude apodization coronagraph*. Journal of The Optical Society of America A-Optics Image Science and Vision, 28(2), 189-202, 2011.

Qin, S.-L.; Schilke, P.; Moller, T.; Muller, H.S.P.; Giesen, T.F.; Ossenkopf, V.; Schlemmer, S.; Stutzki, J.; Honingh, N.; Schieder, R.; Comito, C.; Rolffs, R.; Belloche, A.; Menten, K.M.; Gusten, R.; Lis, D.C.; Phillips, T.G.; Bell, T.A.; Blake, G.A.; Emprechtinger, M.; Zmuidzinas, J.; Karpov, A.; Kooi, J.; Bergin, E.A.; Crockett, N.R.; Wang, S.; Cabrit, S.; Pagani, L.; Salez, M.; Caux, E.; Vastel, C.; Ceccarelli, C.; Maret, S.; Cernicharo, J.; Daniel, F.; Goicoechea, J.R.; Martin-Pintado, J.; Dubernet, M.-L.; Encrenaz, P.; Falgarone, E.; Gerin, M.; Perault, M.; Krieg, J.-M.; Goldsmith, P.F.; Gupta, H.; Langer, W.D.; Morris, P.; Pearson, J.C.; Yorke, H.W.; Yu, S.; Gill, J.L.; Chattopadhyay, G.; Herbst, E.; Joblin, C.; Johnstone, D.; Lord, S.D.; Boogert, A.; Martin, P.G.; Melnick, G.J.; Murphy, J.A.; Trappe, N.; Neufeld, D.A.; Plume, R.; Can Der Tak, F.F.S.; Hartogh, P.; Diez-Gonzalez, M.C.; Bachiller, R.; Baechtold, W.; Olberg, M.; Nordh, L.H. *Herschel observations of EXtra-Ordinary Sources (HEXOS), detecting spiral arm clouds by CH absorption lines*. Astronomy and Astrophysics, 521(1), L14, 2010.

Qiu, Y.; Chen, J.; Hosoda, T.; Kipshidze, G.; Shterengas, L.; Belenky, G.; Forouhar, S.; Frez, C.; Franz, K.J.; Ksendzov, A.; Soibel, K.A. *Low power consumption lasers for next generation miniature optical spectrometers for trace gas analysis*. Proceedings of SPIE - The International Society for Optical Engineering, 7945, 79450M, 2011.

Quinn, Richard C.; Kounaves, Samuel P.; Hecht, Michael H. *The oxidation-reduction potential of aqueous soil solutions at the Mars Phoenix landing site*. Geophysical Research Letters, 38, L14202, 2011.

Rahman, R Rahman, R; Rahman, R Rahman, R; Park, Seung H.; Klimeck, Gerhard; Klimeck, Gerhard; Hollenberg, Lloyd C. L. *Stark tuning of the charge states of a two-donor molecule in silicon*. Nanotechnology, 22(22), 225202, 2011.

Reising, Steven C.; Lee, Alexander; Albers, Darrin; Kangaslahti, Pekka; Brown, Shannon T.; Dawson, Douglas E.; Gaier, Todd C.; Montes, Oliver; Hoppe, Daniel J.; Khayatian, Behrouz. *Development of internally-calibrated, MMIC-based millimeter-wave radiometers to enable correction of wet-tropospheric delay for coastal zone altimetry*. 2011 30th URSI General Assembly and Scientific Symposium, URSIGASS 2011, 6050843, 2011.

Richardson, Brandon S.; Eastwood, Michael L.; Bruce, Carl F.; Green, Robert O.; Coles, J.B. *Mercury-cadmium-telluride focal plane array performance under non-standard operating conditions*. IEEE Aerospace Conference Proceedings, 5747390, 2011.

Roberts, Lewis C., Jr. *Astrometric and photometric measurements of binary stars with adaptive optics: observations from 2002*. Monthly Notices of The Royal Astronomical Society, 413(2), 1200-1205, 2011.

Roberts, Lewis C., Jr.; Bradford, L. William. *Improved models of upper-level wind for several astronomical observatories*. Optics Express, 19(2), 820-837, 2011.

Rolffs, R.; Schilke, P.; Comito, C.; Menten, K.M.; Gusten, R.; Bergin, E.A.; Crockett, N.R.; Wang, S.; Van Der Tak, F.F.S.; Olberg, M.; Lis, D.C.; Bell, T.A.; Emprechtinger, M.; Phillips, T.G.; Zmuidzinas, J.; Qin, S.-L.; Giesen, T.F.; Muller, H.S.P.; Ossenkopf, V.; Schlemmer, S.; Stutzki, J.; Blake, G.A.; Caux, E.; Joblin, C.; Vastel, C.; Ceccarelli, C.; Maret, S.; Cernicharo, J.; Daniel, F.; Goicoechea, J.R.; Dubernet, M.-L.; Encrenaz, P.; Gerin, M.; Perault, M.; Goldsmith, P.F.; Gupta, H.; Langer, W.D.; Pearson, J.C.; Yorke, H.W.; Yu, S.; Gill, J.J.; Chattopadhyay, G.; Herbst, E.; Johnstone, D.; Latter, W.D.; Lord, S.D.; Morris, P.; Martin, P.G.; Melnick, G.J.; Murphy, J.A.; Trappe, N.; Plume, R.; Diez-Gonzalez, M.C.; Bachiller, R.; Martin-Pintado, J.; Baechtold, W.; Nordh, L.H. *Reversal of infall in SgrB2(M) revealed by Herschel/HIFI observations of HCN lines at THz frequencies*. Astronomy and Astrophysics, 521(1), L46, 2010.

Roseboom, I. G.; Oliver, S. J.; Farrah, D.; Smith, A. J.; Wang, L.; Ward, R.; Kunz, M.; Altieri, B.; Conversi, L.; Sanchez Portal, M.; Valtchanov, I.; Amblard, A.; Cooray, A.; Arumugam, V.; Ivison, R. J.; Auld, R.; Dye, S.; Eales, S.; Gear, W.; Griffin, M.; Isaak, K.; Papageorgiou, A.; Pohlen, M.; Raymond, G.; Aussel, H.; Elbaz, D.; Madden, S.; Panuzzo, P.; Babbedge, T.; Chanial, P.; Clements, D. L.; Fox, M.; Mortier, A. M. J.; Patel, H.; Rizzo, D.; Rowan-Robinson, M.; Bethermin, M.; Lagache, G.; Bethermin, M.; Lagache, G.; Blain, A.; Bock, J.; Cooray, A.; Dowell, C. D.; Levenson, L.; Lu, N.; Nguyen, H. T.; Schulz, B.; Shupe, D. L.; Vieira, J. D.; Xu, C. K.; Zemcov, M.; Bock, J.; Dowell, C. D.; Levenson, L.; Nguyen, H. T.; Zemcov, M.; Boselli, A.; Buat, V.; Burgarella, D.; Brisbin, D.; Castro-Rodriguez, N.; Cava, A.; Perez-Fournon, I.; Castro-Rodriguez, N.; Cava, A.; Perez-Fournon, I.; Chapin, E.; Halpern, M.; Marsden, G.; Scott, Douglas; Conley, A.; Glenn, J.; Dwek, E.; Franceschini, A.; Mainetti, G.; Marchetti, L.; Vaccari, M.; Solares, E. A. Gonzalez; Hatziminaoglou, E.; Huang, J.; Trichas, M.; Ibar, E.; Ivison, R. J.; Wright, G.; Lu, N.; Schulz, B.; Shupe, D. L.; Xu, C. K.; Maffei, B.; Omont, A.; Vigroux, L.; Page, M. J.; Rawlings, J. I.; Seymour, N.; Symeonidis, M.; Tugwell, K. E.; Pearson, C. P.; Rigopoulou, D.; Pearson, C. P.; Rigopoulou, D.; Stevens, J. A. *The Herschel Multi-Tiered Extragalactic Survey: source extraction and cross-identifications in confusion-dominated SPIRE images*. Monthly Notices of The Royal Astronomical Society, 409(1), 48-65, 2010.

Rowan-Robinson, M.; Babbedge, T.; Chanial, P.; Clements, D. L.; Fox, M.; Mortier, A. M. J.; Patel, H.; Rizzo, D.; Trichas, M.; Roseboom, I. G.; Farrah, D.; Oliver, S. J.; Smith, A. J.; Wang, L.; Ward, R.; Vaccari, M.; Franceschini, A.; Mainetti, G.; Marchetti, L.; Amblard, A.; Cooray, A.; Arumugam, V.; Ivison, R. J.; Auld, R.; Dye, S.; Eales, S.; Gear, W.; Griffin, M.; Isaak, K.; Papageorgiou, A.; Pohlen, M.; Raymond, G.; Aussel, H.; Elbaz, D.; Madden, S.; Panuzzo, P.; Blain, A.; Bock, J.; Cooray, A.; Dowell, C. D.; Levenson, L.; Lu, N.; Nguyen, H. T.; Schulz, B.; Shupe, D. L.; Xu, C. K.; Zemcov, M.; Bock, J.; Dowell, C. D.; Levenson, L.; Nguyen, H. T.; Zemcov, M.; Boselli, A.; Buat, V.; Burgarella, D.; Brisbin, D.; Castro-Rodriguez, N.; Cava, A.; Perez Fournon, I.; Castro-Rodriguez, N.; Cava, A.; Perez Fournon, I.; Conley, A.; Glenn, J.; Conversi, L.; Valtchanov, I.; Dwek, E.; Solares, E. A. Gonzalez; Halpern, M.; Scott, Douglas; Hatziminaoglou, E.; Huang, J.; Ibar, E.; Ivison, R. J.; Wright, G.; Lagache, G.; Lagache, G.; Lu, N.; Schulz, B.; Shupe, D. L.; Xu, C. K.; Maffei, B.; Omont, A.; Vigroux, L.; Page, M. J.; Seymour, N.; Tugwell, K. E.; Pearson, C. P.; Rigopoulou, D.; Pearson, C. P.; Rigopoulou, D.; Stevens, J. A. *Cold dust and young starbursts: spectral energy distributions of Herschel SPIRE sources from the HerMES survey*. Monthly Notices of The Royal Astronomical Society, 409(1), 40585, 2010.

Sahoo, Swaroop; Reising, Steven C.; Padmanabhan, Sharmila; Vivekanandan, Jothiram; Iturbide-Sanchez, Flavio; Pierdicca, Nazzareno; Pichelli, Emanuela; Cimini, Domenico. *Three-Dimensional Humidity Retrieval Using a Network of Compact Microwave Radiometers to Correct for Variations in Wet Tropospheric Path Delay in Spaceborne Interferometric SAR Imagery*. IEEE Transactions on Geoscience and Remote Sensing, 49(9), 3281-3290, 2011.

Samanta, A Samanta, A; Colonius, Tim; Nott, Julian; Hall, Jeffrey. *Comment on Computational Modeling and Experiments of Natural Convection for a Titan Montgolfiere Reply*. AIAA Journal, 49(4), 877-878, 2011.

Samoska, Lorene; Fung, Andy; Pukala, David; Kangaslahti, Pekka; Lai, Richard; Sarkozy, Stephen; Mei, X.B.; Boll, Greg. *On-wafer measurements of S-MMIC amplifiers from 400-500 GHz*. IEEE MTT-S International Microwave Symposium Digest, 5972616, 2011.

Samoska, Lorene A. *An overview of solid-state integrated circuit amplifiers in the submillimeter-wave and THz regime*. IEEE Transactions on Terahertz Science and Technology, 1(1), 408106005342, 2011.

Savransky, Dmitry; Kasdin, N. Jeremy; Cady, Eric. *Parameter Distributions of Keplerian Orbits*. Astrophysical Journal, 728(1), 66, 2011.

Scherer, Benjamin; Hamid, Hakim; Rosskopf, Jurgen; Forouhar, Siamak. *Compact spectroscopic sensor for air quality monitoring in spacecrafts*. Proceedings of SPIE - The International Society for Optical Engineering, 7945, 79450S, 2011.

Schilke, P.; Muller, H.S.P.; Giesen, T.F.; Schlemmer, S.; Stutzki, J.; Schieder, R.; Comito, C.; Menten, K.M.; Bergin, E.A.; Crockett, N.R.; Wang, S.; Herbst, E.; Lis, D.C.; Phillips, T.G.; Bell, T.A.; Emprechtinger, M.; Kooi, J.; Karpov, A.; Zmuidzinas, J.; Boogert, A.; Neufeld, D.A.; Blake, G.A.; Cabrit, S.; Pagani, L.; Salez, M.; Caux, E.; Joblin, C.; Vastel, C.; Ceccarelli, C.; Maret, S.; Cernicharo, J.; Daniel, F.; Goicoechea, J.R.; Dubernet, M.-L.; Encrenaz, P.; Falgarone, E.; Gerin, M.; Perault, M.; Goldsmith, P.F.; Gupta, H.; Langer, W.D.; Pearson, J.C.; Qin, S.-L.; Yorke, H.W.; Yu, S.; Maiwald, F.W.; Johnstone, D.; Latter, W.B.; Lord, S.D.; Morris, P.; Martin, P.G.; Melnick, G.J.; Murphy, J.A.; Trappe, N.; Ossenkopf, V.; Plume, R.; Van Der Tak, F.F.S.; Zaal, P.; Erickson, N. *Herschel observations of ortho-and para-oxidaniumyl (H_2O+) in spiral arm clouds toward Sagittarius B2(M)*. Astronomy and Astrophysics, 521(1), L11, 2010.

Schofield, Oscar; Kohut, Josh; Glenn, Scott; Morell, Julio; Capella, Jorge; Corredor, Jorge; Orcutt, John; Arrott, Mathew; Krueger, Ingolf; Meisinger, Michael; Peach, Cheryl; Vernon, Frank; Chave, Alan; Chao, Yi; Chien, Steve; Thompson, David; Brown, Wendell; Oliver, Mathew; Boicourt, William. *A regional slocum glider network in the Mid-Atlantic Bight leverages broad community engagement*. Marine Technology Society Journal, 44(6), 185-195, 2010.

Serabyn, E.; Liewer, K.; Martin, S.R.; Ksendzov, A.; Mawet, D. *Fiber-based interferometry and imaging*. Proceedings of SPIE - The International Society for Optical Engineering, 8146, 81460I, 2011.

Serabyn, E.; Wallace, J.K.; Liewer, K.; Trauger, J.; Moody, D.; Kern, B.; Mawet, D. *Recent progress in vector vortex coronagraphy*. Proceedings of SPIE - The International Society for Optical Engineering, 8146, 81460L, 2011.

Shaklan, Stuart B.; Marchen, Luis; Krist, John; Rud, Mayer. *Stability error budget for an aggressive coronagraph on a 3.8 m telescope*. Proceedings of SPIE - The International Society for Optical Engineering, 8151, 815109, 2011.

Shaklan, Stuart B.; Marchen, Luis; Lisman, P. Douglas; Cady, Eric; Martin, Stefan; Thomson, Mark; Dumont, Philip; Kasdin, N. Jeremy. *A starshade petal error budget for exo-earth detection and characterization*. Proceedings of SPIE - The International Society for Optical Engineering, 8151, 815113, 2011.

Shao, M.; Nemati, B.; Zhai, C.; Goullioud, R.; Malbet, F.; Leger, A. *NEAT: A microarcsec astrometric telescope*. Proceedings of SPIE - The International Society for Optical Engineering, 8151, 81510V, 2011.

Shirley, James H.; Dalton, James B., III; Kamp, Lucas W.; Prockter, Louise M. *Europa's ridged plains and smooth low albedo plains: Distinctive compositions and compositional gradients at the leading side-trailing side boundary*. ICARUS, 210(1), 358-384, 2010.

Sidick, Erkin; Shaklan, Stuart; Give'on, Amir; Kern, Brian. *Studies of the effects of optical system errors on the HCIT contrast performance*. Proceedings of SPIE - The International Society for Optical Engineering, 8151, 815106, 2011.

Siegel, P. H.; Siegel, P. H.; Pikov, V. *Impact of low intensity millimetre waves on cell functions*. Electronics Letters, 46(26), S70-S72, 2010.

Siegel, Peter H. *Inaugural editorial*. IEEE Transactions on Terahertz Science and Technology, 1(1), 405475993478, 2011.

Siegel, Peter H. *Terahertz pioneers*. IEEE Transactions on Terahertz Science and Technology, 1(1), 56005344, 2011.

Siegel, Peter. *Dr Peter Siegel*. Electronics Letters, 46(26), S69-S69, 2010.

Sinha, M. P.; Neidholdt, E. L.; Hurowitz, J.; Sturhahn, W.; Hecht, M. H.; Beard, B.; Sinha, M. P.; Beard, B. *Laser ablation-miniature mass spectrometer for elemental and isotopic analysis of rocks*. Review of Scientific Instruments, 82(9), 94102, 2011.

Soibel, Alex; Frez, Cliff; Ksendzov, Alexander; Keo, Sam; Forouhar, Siamak; Tsvid, Gene; Kipshidze, Gela; Shterengas, Leon; Belenky, Gregory. *The 3.0-3.2 vm wavelength range narrow ridge waveguide Sb-based semiconductor diode lasers operating up to 333 K*. Semiconductor Science and Technology, 26(9), 95024, 2011.

Soibel, Alexander; Ting, David Z.-Y.; Hill, Cory J.; Lee, Mike; Nguyen, Jean; Keo, Sam A.; Mumolo, Jason M.; Gunapala, Sarath D. *High-performance long wavelength superlattice infrared detectors*. Proceedings of SPIE - The International Society for Optical Engineering, 7945, 79451P, 2011.

Spero, Robert; Bachman, Brian; de Vine, Glenn; Dickson, Jeffrey; Klipstein, William; Ozawa, Tetsuo; McKenzie, Kirk; Shaddock, Daniel; Robison, David; Ware, Brent; Shaddock, Daniel; Sutton, Andrew. *Progress in interferometry for LISA at JPL*. Classical and Quantum Gravity, 28(9), 94007, 2011.

Spiers, Gary D.; Menzies, Robert T.; Jacob, Joseph; Christensen, Lance E.; Phillips, Mark W.; Choi, YH; Browell, Edward V. *Atmospheric CO_2 measurements with a 2 mu m airborne laser absorption spectrometer employing coherent detection*. Applied Optics, 50(14), 2098-2111, 2011.

Staid, M. I.; Pieters, C. M.; Dhingra, D.; Head, J. W.; Isaacson, P.; Mustard, J. M.; Besse, S.; Sunshine, J.; Boardman, J.; Green, R.; Klima, R.; Kramer, G.; Runyon, C.; Taylor, L. A. *The mineralogy of late stage lunar volcanism as observed by the Moon Mineralogy Mapper on Chandrayaan-1*. Journal of Geophysical Research-Planets, 116, E00G10, 2011.

Su, Hui; Jiang, Jonathan H.; Teixeira, Joao; Stephens, Graeme; Vane, Deborah; Perun, Vincent S.; Gettelman, Andrew; Huang, XL. *Comparison of regime-sorted tropical cloud profiles observed by CloudSat with GEOS5 analyses and two general circulation model simulations.* Journal of Geophysical Research-Atmospheres, 116, D09104, 2011.

Suda, Jarrod; Pagano, Thomas S.; Fetzer, Eric J.; Licata, Steve. *Science highlights and lessons learned from the Atmospheric Infrared Sounder (AIRS).* Proceedings of SPIE - The International Society for Optical Engineering, 8153, 815302, 2011.

Suh, Junho; Roukes, Michael L.; Lahaye, Matthew D.; Echternach, Pierre M.; Schwab, Keith C. *Parametric amplification and back-action noise squeezing by a qubit-coupled nanoresonator*. Nano Letters, 10(10), 3990-3994, 2010.

Tassis, K.; Urban, A.; Pineda, J. L.; Yorke, H. W.; Christie, D. A.; Mouschovias, T. Ch.; Christie, D. A.; Mouschovias, T. Ch.; Martel, H. *Do lognormal column-density distributions in molecular clouds imply supersonic turbulence?* Monthly Notices of The Royal Astronomical Society, 408(2), 1089-1094, 2010.

Ten Brummelaar, Theo A.; Farrington, Christopher D.; Schaefer, Gail H.; Sturmann, Judit; Sturmann, Laszlo; Turner, Nils H.; Gies, Douglas R.; Matson, Rachel A.; McAlister, Harold A.; Williams, Stephen J.; Mason, Brian D.; Harkopf, William I.; Fullerton, Alexander W.; Grundstrom, Erika D.; McSwain, M. Virginia; Roberts, Lewis C., Jr.; Simon-Diaz, Sergio; Simon-Diaz, Sergio. *An Interferometric and Spectroscopic Analysis of the Multiple Star System HD 193322*. Astronomical Journal, 142(1), 21, 2011.

Thomas, Sandrine J.; Dillon, Daren; Gavel, Donald; Poyneer, Lisa; Macintosh, Bruce; Palmer, David; Bauman, Brian; De Rosa, Rob; Wallace, James K.; Saddlemyer, Leslie; Goodsell, Stephen. *Integration and test of the Gemini Planet Imager*. Proceedings of SPIE - The International Society for Optical Engineering, 8149, 814903, 2011.

Thompson, David R.; Mandrake, Lukas; Castano, Rebecca; Gilmore, Martha S. *Superpixel endmember detection*. IEEE Transactions on Geoscience and Remote Sensing, 48(11), 4023-40335593215, 2010.

Thompson, David R.; Wagstaff, Kiri L.; Majid, Walid A.; Brisken, Walter F.; Deller, Adam T.; Deller, Adam T.; Tingay, Steven J.; Wayth, Randall B. *Detection of Fast Radio Transients with Multiple Stations: A Case Study Using the Very Long Baseline Array*. Astrophysical Journal, 735(2), 98, 2011.

Thompson, R.; Folkner, W.M.; De Vine, G.; Klipstein, W.M.; McKenzie, K.; Spero, R.; Yu, N.; Stephens, M.; Leitch, J.; Pierce, R.; Lam, T.T.-Y.; Shaddock, D.A. *A flight-like optical reference cavity for GRACE follow-on laser frequency stabilization*. Proceedings of the IEEE International Frequency Control Symposium and Exposition, 5977873, 2011.

Ting, D.Z.; Soibel, A.; Nguyen, J.; Hoglund, L.; Khoshakhlagh, A.; Rafol, S.B.; Keo, S.A.; Liao, A.; Mumolo, J.M.; Liu, J.K.; Gunapala, S.D. *Type-II superlattice barrier infrared detector*. Proceedings of the SPIE - The International Society for Optical Engineering, 8154, 81540L (12 pp.), 2011.

Ting, David Z.; Soibel, Alexander; Nguyen, Jean; Hoglund, Linda; Khoshakhlagh, Arezou; Rafol, Sir B.; Keo, Sam A.; Liao, Anna; Mumolo, Jason M.; Liu, John K.; Gunapala, Sarath D. *Type II superlattice barrier infrared detector*. Proceedings of SPIE - The International Society for Optical Engineering, 8154, 81540L, 2011.

Ting, David Z.; Soibel, Alexander; Rafol, B.; Nguyen, Jean; Hoglund, Linda; Khoshakhlagh, Arezou; Keo, Sam A.; Liu, John K.; Mumolo, Jason M.; Gunapala, Sarath D. *Superlattice barrier infrared detector development at the Jet Propulsion Laboratory*. Proceedings of SPIE - The International Society for Optical Engineering, 8012, 1, 2011.

Toda, Risaku; McKinney, Colin; Jackson, Shannon P.; Mojarradi, Mohammad; Trebi-Ollennu, Ashitey; Manohara, Harish. *Development of sample verification system for sample return missions*. IEEE Aerospace Conference Proceedings, 5747470, 2011.

Tran, John J.; Cinquini, Luca; Mattmann, Chris A.; Zimdars, Paul A.; Cuddy, David T.; Leung, Kon S.; Kwoun, Oh-Ig; Crichton, Dan; Freeborn, Dana. *Evaluating cloud computing in the NASA DESDynI ground data system*. Proceedings - International Conference on Software Engineering, 36-42, 2011.

Tripathi, Neeraj; Tungare, Mihir; Suvarna, Puneet H.; Sandvik, Fatemeh Shahedipour; Bell, L. D.; Nikzad, Shouleh. *Novel Cs-Free GaN Photocathodes*. Journal Of Electronic Materials, 40(4), 382-387, 2011.

Tsvid, G.; Hosoda, T.; Chen, J.; Kipshidze, G.; Shterengas, L.; Belenky, G.; Frez, C.; Soibel, A.; Forouhar, S. *Type-I GaSb based single lateral mode diode ridge lasers operating at room temperature in 3.1 - 3.2 micrometer spectral region*. Proceedings of SPIE - The International Society for Optical Engineering, 7953, 79531Q, 2011.

Urteaga, M.; Seo, M.; Hacker, J.; Griffith, Z.; Young, A.; Pierson, R.; Rowell, P.; Skalare, A.; Jain, V.; Lobisser, E.; Rodwell, M.J.W. *INP HBTs for THz frequency integrated circuits*. Conference Proceedings - International Conference on Indium Phosphide and Related Materials, 83, 2011.

Van Der Wiel, M.H.D.; Van Der Tak, F.F.S.; Lis, D.C.; Bell, T.; Emprechtinger, M.; Phillips, T.; Blake, G.A.; Zmuidzinas, J.; Morris, P.; Bergin, E.A.; Comito, C.; Schilke, P.; Rolffs, R.; Parise, B.; Wyrowski, F.; Caux, E.; Bottinelli, S.; Coutens, A.; Demyk, K.; Klotz, A.; Vastel, C.; Walters, A.; Ceccarelli, C.; Bacmann, A.; Castets, A.; Crimier, N.; Hily-Blant, P.; Kahane, C.; Lefloch, B.; Maret, S.; Pacheco, S.; Baudry, A.; Jacq, T.; Wakelam, V.; Goldsmith, P.F.; Langer, W.; Pearson, J.; Yorke, H.; Samoska, L.A.; Herbst, E.; Lord, S.; Boogert, A.; Neufeld, D.; Benedettini, M.; Saraceno, P.; Cabrit, S.; Encrenaz, P.; Falgarone, E.; Gerin, M.; Hennebelle, P.; Pagani, L.; Salez, M.; Caselli, P.; Cernicharo, J.; Codella, C.; Lorenzani, A.; Dominik, C.; Kama, M.; Fuente, A.; Helmich, F.; Henning, T.; Melnick, G.; Nisini, B.; Schuster, K.; Tielens, A.G.G.M.; Viti, S.; Edwards, K.; Teyssier, D. *Herschel/HIFI observations of spectrally resolved methylidyne signatures toward the high-mass star-forming core NGC 6334I*. Astronomy and Astrophysics, 521(1), L43, 2010.

van Dishoeck, E. F.; Kristensen, L. E.; Hogerheijde, M. R.; Brinch, C.; Deul, E.; Salter, D.; van Kempen, T. A.; Visser, R.; Yildiz, U. A.; van Dishoeck, E. F.; Feuchtgruber, H.; Herczeg, G. J.; Karska, A.; Benz, A. O.; Bruderer, S.; Stauber, P; Wampfler, S. F.; Bergin, E. A.; Caselli, P.; Caselli, P.; Codella, C.; Walmsley, M.; Cernicharo, J.; Daniel, F.; Goicoechea, J. R.; Herpin, F.; Baudry, A.; Bontemps, S.; Braine, J.; Chavarria, L.; Jacq, T.; Herpin, F.; Baudry, A.; Bontemps, S.; Braine, J.; Chavarria, L.; Jacq, T.; Johnstone, D.; Johnstone, D.; Liseau, R.; Bjerkeli, P.; Olberg, M.; Nisini, B.; Giannini, T.; Shipman, R.; van der Tak, F.; de Graauw, Th.; Helmich, F. P.; Marseille, M.; Risacher, C.; Tafalla, M.; Bachiller, R.; van der Tak, F.; Wyrowski, F.; Parise, B.; Aikawa, Y.; Benedettini, M.; di Giorgio, A. M.; Saraceno, P.; Blake, G. A.; Dominik, C.; Dominik, C.; Doty, S. D.; Dubernet, M. L.; Dubernet, M. L.; Encrenaz, P.; Encrenaz, P.; Pagani, L.; Fich, M.; McCoey, C.; Fuente, A.; Jorgensen, J. K.; Kaufman, M. J.; Keto, E.; Melnick, G.; Larsson, B.; Lefloch, B.; Lis, D.; McCoey, C.; Neufeld, D.; Panic, O.; Pearson, J. C.; Plume, R.; Santiago-Garcia, J.; Viti, S. *Water in Star-forming Regions with the Herschel Space Observatory (WISH). I. Overview of Key Program and First Results*. Publications of The Astronomical Society of The Pacific, 123(900), 138-170, 2011.

Van Gorp, B.; Mouroulis, P.; Wilson, D.W.; Rodriguez, J.; Sobel, H.; Sellar, R.G.; Blaney, D.; Green, R.O. *Optical design and performance of the Ultra-Compact Imaging Spectrometer*. Proceedings of SPIE - The International Society for Optical Engineering, 8158, 81580L, 2011.

Vastel, C.; Caux, E.; Coutens, A.; Bottinelli, S.; Demyk, K.; Walters, A.; Klotz, A.; Ravera, L.; Ceccarelli, C.; Faure, A.; Wiesenfeld, L.; Bacmann, A.; Hily-Blant, P.; Maret, S.; Castets, A.; Crimier, N.; Kahane, C.; Lefloch, B.; Pacheco, S.; Cernicharo, J.; Scribano, Y.; Bergin, E.A.; Blake, G.A.; Bell, T.; Lis, D.; Phillips, T.; Dominik, C.; Kama, M.; Encrenaz, P.; Gerin, M.; Hennebelle, P.; Pagani, L.; Cabrit, S.; Falgarone, E.; Salez, M.; Krieg, J.M.; Melnick, G.; Parise, B.; Schilke, P.; Comito, C.; Wyrowski, F.; Wakelam, V.; Baudry, A.; Jacq, T.; Cais, P.; Benedettini, M.; Saraceno, P.; Boogert, A.; Lord, S.; Caselli, P.; Codella, C.; Lorenzani, A.; Fuente, A.; Goldsmith, P.F.; Langer, W.; Pearson, J.; Yorke, H.; Helmich, F.; Van Der Tak, F.; Van Der Wiel, M.H.D.; Olberg, M.; Henning, T.; Herbst, E.; Neufeld, D.; Nisini, B.; Schuster, K.; Tielens, X.; Viti, S. *Ortho-to-para ratio of interstellar heavy water*. Astronomy and Astrophysics, 521(1), L31, 2010.

Wallace, J.K.; Rao, S.; Serabyn, G.; Jensen-Clem, R.M. *Phase-Shifting Zernike Interferometer Wavefront Sensor*. Proceedings of the SPIE - The International Society for Optical Engineering, 8126, 81260F (11 pp.), 2011.

Wampfler, S.F.; Bruderer, S.; Benz, A.O.; Melchior, M.; Dedes, C.; Herczeg, G.J.; Van Dishoeck, E.F.; Kristensen, L.E.; Visser, R.; Yildiz, U.A.; Hogerheijde, M.R.; Doty, S.D.; Van Kempen, T.A.; Melnick, G.; Goicoechea, J.R.; Cernicharo, J.; Daniel, F.; Baudry, A.; Bontemps, S.; Braine, J.; Herpin, F.; Jacq, T.; Bachiller, R.; Tafalla, M.; Benedettini, M.; Di Giorgio, A.M.; Saraceno, P.; Bergin, E.; Bjerkeli, P.; Liseau, R.; Olberg, M.; Blake, G.A.; Caselli, P.; Codella, C.; Dominik, C.; Encrenaz, P.; Fich, M.; McCoey, C.; Fuente, A.; Giannini, T.; Nisini, B.; De Graauw, Th.; Helmich, F.; Marseille, M.; Risacher, C.; Shipman, R.; Van Der Tak, F.F.S.; Roelfsema, P.; Jellema, W.; Dieleman, P.; Johnstone, D.; Jrgensen, J.K.; Larsson, B.; Lis, D.; Neufeld, D.; Parise, B.; Wyrowski, F.; Pearson, J.C.; Plume, R.; Santiago-Garcia, J.; Caux, E.; Stutzki, J. *Herschel observations of the hydroxyl radical (OH) in young stellar objects*. Astronomy and Astrophysics, 521(1), L36, 2010.

Wang, Jingqian; Jiang, Xun; Chahine, Moustafa T.; Olsen, Edward T.; Chen, Luke L.; Licata, Stephen J.; Pagano, Thomas S.; Liang, Mao-Chang; Yung, Yuk L. *The influence of tropospheric biennial oscillation on mid-tropospheric CO_2*. Geophysical Research Letters, 38(20), L20805, 2011.

Wang, S.; Bergin, E. A.; Crockett, N. R.; Goldsmith, P. F.; Pearson, J. C.; Gupta, H.; Langer, W. D.; Yorke, H. W.; Yu, S.; Lis, D. C.; Bell, T. A.; Emprechtinger, M.; Phillips, T. G.; Zmuidzinas, J.; Schilke, P.; Comito, C.; Schilke, P.; Giesen, T. F.; Muller, HSP; Qin, SL; Schlemmer, S.; Stutzki, J.; Blake, G. A.; Caux, E.; Joblin, C.; Vastel, C.; Caux, E.; Vastel, C.; Ceccarelli, C.; Cernicharo, J.; Daniel, F.; Goicoechea, J. R.; Daniel, F.; Perault, M.; Daniel, F.; Dubernet, ML; Dubernet, ML; Ossenkopf, V.; Herbst, E.; Herbst, E.; Johnstone, D.; Latter, W. B.; Lord, S. D.; Morris, P.; Martin, P. G.; Melnick, G. J.; Murphy, J. A.; Trappe, N.; Neufeld, D. A.; Ossenkopf, V.; van der Tak, F. F. S.; Plume, R. *Herschel observations of EXtra-Ordinary Sources (HEXOS), Methanol as a probe of physical conditions in Orion KL*. Astronomy & Astrophysics, 527, À95, 2011.

Wayth, Randall B.; Tingay, Steven J.; Brisken, Walter F.; Deller, Adam T.; Deller, Adam T.; Majid, Walid A.; Thompson, David R.; Wagstaff, Kiri L. *V-FASTR: The VLBA Fast Radio Transients Experiment*. Astrophysical Journal, 735(2), 97, 2011.

Weber, Jessie R.; Durkin, Anthony J.; Tromberg, Bruce J.; Cuccia, David J.; Johnson, William R.; Wilson, Dan; Bearman, Gregory H.; Hsu, MK; Lin, Alexander; Binder, Devin K. *Multispectral imaging of tissue absorption and scattering using spatial frequency domain imaging and a computed-tomography imaging spectrometer*. Journal of Biomedical Optics, 16(1), 11015, 2011.

Weisbin, Charles R.; Mrozinski, Joseph; Lincoln, William; Elfes, Alberto; Shelton, Kacie; Hua, Hook; Smith, Jeffrey H.; Adumitroaie, Virgil; Silberg, Robert. *Lunar Architecture and Technology Analysis Driven by Lunar Science Scenarios*. Systems Engineering, 13(3), 217-231, 2010.

Werne, Thomas A.; Bekker, Dmitriy L.; Pingree, Paula J. *Validation of real-time data processing for the ground and air-MSPI systems*. IEEE Aerospace Conference Proceedings, 5747413, 2011.

West, Robert A.; Balloch, Jonathan; Dumont, Philip; Ray, Trina; Lavvas, Panayotis; Lorenz, Ralph; Turtle, Elizabeth P.; Rannou, Pascal; Rannou, Pascal. *The evolution of Titan's detached haze layer near equinox in 2009*. Geophysical Research Letters, 38, L06204, 2011.

Wilcox, Brian H.; Schneider, Evan G.; Vaughan, David A.; Hall, Jeffrey L.; Yu, Chi Yau. *Low-cost propellant launch to LEO from a tethered balloon - 'Propulsion depots' not 'propellant depots'*. IEEE Aerospace Conference Proceedings, 5747487, 2011.

Wilson, T. L.; Muders, D.; Henkel, C.; Dumke, M.; Kawamura, Jonathan H. *The Submillimeter J=6-5 Line Of (13) CO in Orion*. Astrophysical Journal, 728(1), 61, 2011.

Wingyee-Lau, Marie; Yung, Yuk L.; Jiang, Yibo; Aumann, Hartmut H. *Climate change sensitivity evaluation from AIRS and IRIS measurements*. Proceedings of SPIE - The International Society for Optical Engineering, 8153, 81531Z, 2011.

Wu, Yen-Hung; Key, Richard; Sander, Stanley; Blavier, Jean-Francois; Rider, David. *A panchromatic imaging fourier transform spectrometer for the NASA geostationary coastal and air pollution events mission*. Proceedings of SPIE - The International Society for Optical Engineering, 8150, 81500O, 2011.

Wyrowski, F.; Parise, B.; Van Der Tak, F.; Marseille, M.; Shipman, R.; Helmich, F.; Risacher, C.; Roelfsema, P.; Dieleman, P.; Beintema, D.; De Jonge, A.; Herpin, F.; Baudry, A.; Bontemps, S.; Chavarria, L.; Jacq, T.; Braine, J.; Frieswijk, W.; Van Dishoeck, E.F.; Herczeg, G.J.; Benz, A.O.; Bruderer, S.; Wampfler, S.; Caselli, P.; Hogerheijde, M.R.; Kristensen, L.E.; Visser, R.; Yildiz, U.A.; Johnstone, D.; Liseau, R.; Bjerkeli, P.; Olberg, M.; Black, J.H.; Bachiller, R.; Fuente, A.; Santiago, J.; Tafalla, M.; Benedettini, M.; Codella, C.; Di Giorgio, A.M.; Giannini, T.; Nisini, B.; Saraceno, P.; Bergin, E.; Blake, G.; Lis, D.; Cernicharo, J.; Goicoechea, J.R.; Daniel, F.; Falgarone, E.; Gerin, M.; Dominik, C.; Doty, S.D.; Encrenaz, P.; Fich, M.; McCoey, C.; De Graauw, Th.; Whyborn, N.; Jrgensen, J.K.; Larsson, B.; Melnick, G.; Van Kempen, T.A.; Pearson, J.C.; Plume, R.; Stutzki, J.; Ossenkopf, V. *Variations in H_2O+/H_2O ratios toward massive star-forming regions*. Astronomy and Astrophysics, 521(1), L34, 2010.

Xu, Peng-Fei; Zhao, Bin; Liu, Bao-Jie. *Aerodynamic design and numerical validation of highly loaded fan*. Hangkong Dongli Xuebao/Journal of Aerospace Power, 25(11), 2548-2555, 2010.

Yaitskova, Natalia; Troy, Mitchell. *Rolled edges and phasing of segmented telescopes*. Applied Optics, 50(4), 542-553, 2011.

Yang, CW; Huang, QY; Yang, CW; Huang, QY; Goodchild, Michael; Nebert, Doug; Raskin, Robert; Xu, Yan; Fay, Daniel; Bambacus, Myra. *Spatial cloud computing: how can the geospatial sciences use and help shape cloud computing?* International Journal of Digital Earth, 4(4), 305-329, 2011.

Yildiz, U.A.; Van Dishoeck, E.F.; Kristensen, L.E.; Visser, R.; Van Kempen, T.A.; Hogerheijde, M.R.; Deul, E.; Tielens, A.G.G.M.; Jrgensen, J.K.; Herczeg, G.J.; Doty, S.D.; Benz, A.O.; Bruderer, S.; Wampfler, S.F.; Bachiller, R.; Tafalla, M.; Baudry, A.; Bontemps, S.; Braine, J.; Herpin, F.; Jacq, T.; Benedettini, M.; Di Giorgio, A.M.; Saraceno, P.; Bergin, E.; Bjerkeli, P.; Liseau, R.; Olberg, M.; Blake, G.A.; Caselli, P.; Cernicharo, J.; Daniel, F.; Goicoechea, J.R.; Codella, C.; Dominik, C.; Encrenaz, P.; Fich, M.; McCoey, C.; Fuente, A.; Giannini, T.; Nisini, B.; De Graauw, Th.; Helmich, F.; Marseille, M.; Risacher, C.; Shipman, R.; Van Der Tak, F.; Dieleman, P.; Jellema, W.; Johnstone, D.; Larsson, B.; Lis, D.; Liu, F.-C.; Parise, B.; Wyrowski, F.; Melnick, G.; Neufeld, D.; Pearson, J.C.; Plume, R.; Santiago-Garcia, J.; Ossenkopf, V.; Schieder, R.; Stutzki, J. *Herschel/HIFI observations of high-J CO lines in the NGC 1333 low-mass star-forming region*. Astronomy and Astrophysics, 521(1), L40, 2010.

Yu, Shanshan; Pearson, John C.; Drouin, Brian J.; Sung, Keeyoon; Pirali, Olivier; Vervloet, Michel; Martin-Drumel, Marie-Aline; Endres, Christian P.; Shiraishi, Tetsuro; Kobayashi, Kaori; Matsushima, Fusakazu; Pirali, Olivier; Martin-Drumel, Marie-Aline. *Submillimeter-wave and far-infrared spectroscopy of high-J transitions of the ground and nu(2)=1 states of ammonia*. Journal of Chemical Physics, 133(17), 174317, 2010.

Zhao, Bin; Liu, Baojie. *Analysis of transonic tandem rotor and matching characteristic of forward and aft blades*. Hangkong Xuebao/Acta Aeronautica et Astronautica Sinica, 32(6), 978-987, 2011.

Zhao, M.; Monnier, J. D.; Che, X.; Pedretti, E.; Thureau, N.; Schaefer, G.; ten Brummelaar, T.; McAlister, H.; Turner, N.; Sturmann, J.; Sturmann, L.; Goldfinger, P. J.; Farrington, C.; Ridgway, S. T. *Toward Direct Detection of Hot Jupiters with Precision Closure Phase: Calibration Studies and First Results from the CHARA Array*. Publications Of The Astronomical Society of The Pacific, 123(906), 964-975, 2011.

Zhu, Z.; Kathuria, A.; Krishna, S. G.; Jalali-Farahani, B.; Barnaby, H.; Wu, W.; Gildenblat, G.; Mojarradi, M. *Design applications of compact MOSFET model for extended temperature range (60-400K)*. Electronics Letters, 47(2), 141-+, 2011.

All work described in this report was carried out at the
Jet Propulsion Laboratory, California Institute of Technology,
under a contract with the
National Aeronautics and Space Administration.

CL#12-0590