

# Onsala Space Observatory, Chalmers

## Publication list 2016

Compiled by Magnus Thomasson

Publications in refereed journals 2016 enabled by the Onsala infrastructure are recorded below.

[Astronomy: Onsala 20 m telescope \(single-dish\)](#)

[Astronomy: APEX](#)

[Astronomy: ALMA](#)

[Astronomy: VLBI](#)

[Astronomy: LOFAR](#)

[Geoscience](#)

*In addition* to the publications listed below, in 2016 there were *two* publications using astronomical data from the satellite *Odin*, *eight* publications using data from *SEST* (closed in 2003), and *eleven* publications by OSO staff on radio astronomical instrumentation, methods and techniques.

### **Astronomy: Onsala 20 m telescope (single-dish)**

*After the Interaction: an Efficiently Star-forming Molecular Disk in NGC 5195.*

K. Alatalo, R. Aladro, K. Nyland, S. Aalto, T. Bitsakis, J.S. Gallagher, L. Lanz.

The Astrophysical Journal, 830:137 (14pp), 2016

*Do Circumnuclear Dense Gas Disks Drive Mass Accretion onto Supermassive Black Holes?*

T. Izumi, N. Kawakatu, K. Kohno.

The Astrophysical Journal, 827:81 (16pp), 2016

*A HIFI view on circumstellar H<sub>2</sub>O in M-type AGB stars: radiative transfer, velocity profiles, and H<sub>2</sub>O line cooling.*

M. Maercker, T. Danilovich, H. Olofsson, E. De Beck, K. Justtanont, R. Lombaert, and P. Royer.

A&A 591, A44 (2016)

*Multifrequency Studies of Massive Cores with Complex Spatial and Kinematic Structures.*

L. E. Pirogov, V. M. Shul'ga, I. I. Zinchenko, P. M. Zemlyanukha, A. N. Patoka, and M. Thomasson.

Astronomy Reports, 2016, Vol. 60, No. 10, pp. 904–923

*HCN observations of comets C/2013 R1 (Lovejoy) and C/2014 Q2 (Lovejoy).*

E. S. Wirström, M. S. Lerner, P. Källström, A. Levinsson, A. Olivefors, and E. Tegehall.

A&A 588, A72 (2016)

## **Astronomy: APEX**

Publications from all APEX partner's observing time.

*Giant molecular filaments in the Milky Way. II. The fourth Galactic quadrant.*

Abreu-Vicente, J.; Ragan, S.; Kainulainen, J.; Henning, Th.; Beuther, H.; Johnston, K.  
A&A, vol. 590, p. A131- (2016)

*Characterizing filaments in regions of high-mass star formation: High-resolution submillimeter imaging of the massive star-forming complex NGC 6334 with ArTéMiS.*

André, Ph.; Revéret, V.; Könyves, V.; Arzoumanian, D.; Tigé, J.; Gallais, P.; Roussel, H.; Le Penec, J.; Rodriguez, L.; Doumayrou, E.; Dubreuil, D.; Lortholary, M.; Martignac, J.; Talvard, M.; Delisle, C.; Visticot, F.; Dumaye, L.; De Breuck, C.; Shimajiri, Y.; Motte, F.; Bontemps, S.; Hennemann, M.; Zavagno, A.; Russeil, D.; Schneider, N.; Palmeirim, P.; Peretto, N.; Hill, T.; Minier, V.; Roy, A.; Rygl, K. L. J.  
A&A, vol. 592, p. A54- (2016)

*Star Formation around Mid-Infrared Bubble N37: Evidence of Cloud-Cloud Collision.*

Baug, T.; Dewangan, L. K.; Ojha, D. K.; Ninan, J. P.  
ApJ, vol. 833, p. 85 (2016)

*Galaxy cluster scaling relations measured with APEX-SZ.*

Bender, A. N.; Kennedy, J.; Ade, P. A. R.; Basu, K.; Bertoldi, F.; Burkutean, S.; Clarke, J.; Dahlin, D.; Dobbs, M.; Ferrusca, D.; Flanigan, D.; Halverson, N. W.; Holzapfel, W. L.; Horellou, C.; Johnson, B. R.; Kermish, Z. D.; Klein, M.; Kneissl, R.; Lanting, T.; Lee, A. T.; Mehl, J.; Menten, K. M.; Muders, D.; Nagarajan, A.; Pacaud, F.; Reichardt, C. L.; Richards, P. L.; Schaaf, R.; Schwan, D.; Sommer, M. W.; Spieler, H.; Tucker, C.; Westbrook, B.  
MNRAS vol. 460, p. 3432-3446 (2016)

*Molecular gas as the driver of fundamental galactic relations.*

Bothwell, M. S.; Maiolino, R.; Peng, Y.; Cicone, C.; Griffith, H.; Wagg, J.  
MNRAS, vol. 455, p. 1156-1170 (2016)

*What Is Controlling the Fragmentation in the Infrared Dark Cloud G14.225-0.506?: Different Levels of Fragmentation in Twin Hubs.*

Busquet, Gemma; Estalella, Robert; Palau, Aina; Liu, Hanyu Baobab; Zhang, Qizhou; Girart, Josep Miquel; de Gregorio-Monsalvo, Itziar; Pillai, Thushara; Anglada, Guillem; Ho, Paul T. P.  
ApJ, vol. 819, p. 139- (2016)

*Molecular gas and star formation toward the IR dust bubble S 24 and its environs.*

Cappa, C. E.; Duronea, N.; Firpo, V.; Vasquez, J.; López-Caraballo, C. H.; Rubio, M.; Vazzano, M. M.  
A&A, vol. 585, p. A30- (2016)

*H-ATLAS: a candidate high redshift cluster/protocluster of star-forming galaxies.*

Clements, D. L.; Braglia, F.; Petitpas, G.; Greenslade, J.; Cooray, A.; Valiante, E.; De Zotti, G.; O'Halloran, B.; Holdship, J.; Morris, B.; Pérez-Fournon, I.; Herranz, D.; Riechers, D.; Baes, M.; Bremer, M.; Bourne, N.; Dannerbauer, H.; Dariush, A.; Dunne, L.; Eales, S.; Fritz,

J.; Gonzalez-Nuevo, J.; Hopwood, R.; Ibar, E.; Ivison, R. J.; Leeuw, L. L.; Maddox, S.; Michałowski, M. J.; Negrello, M.; Omont, A.; Oteo, I.; Serjeant, S.; Valtchanov, I.; Vieira, J. D.; Wardlow, J.; van der Werf, P.  
MNRAS, vol. 461, p. 1719-1733 (2016)

*Fragmentation in filamentary molecular clouds.*

Contreras, Yanett; Garay, Guido; Rathborne, Jill M.; Sanhueza, Patricio.  
MNRAS, vol. 456, p. 2041-2051 (2016)

*The ATLASGAL survey: distribution of cold dust in the Galactic plane. Combination with Planck data.*

Csengeri, T.; Weiss, A.; Wyrowski, F.; Menten, K. M.; Urquhart, J. S.; Leurini, S.; Schuller, F.; Beuther, H.; Bontemps, S.; Bronfman, L.; Henning, Th.; Schneider, N.  
A&A, vol. 585, p. A104- (2016)

*ATLASGAL-selected massive clumps in the inner Galaxy. II. Characterisation of different evolutionary stages and their SiO emission.*

Csengeri, T.; Leurini, S.; Wyrowski, F.; Urquhart, J. S.; Menten, K. M.; Walmsley, M.; Bontemps, S.; Wienen, M.; Beuther, H.; Motte, F.; Nguyen-Luong, Q.; Schilke, P.; Schuller, F.; Zavagno, A.; Sanna, C.  
A&A, vol. 586, p. A149- (2016)

*The NH<sub>2</sub>D hyperfine structure revealed by astrophysical observations.*

Daniel, F.; Coudert, L. H.; Punanova, A.; Harju, J.; Faure, A.; Roueff, E.; Sipilä, O.; Caselli, P.; Güsten, R.; Pon, A.; Pineda, J. E.  
A&A, vol. 586, p. L4- (2016)

*Sulphur molecules in the circumstellar envelopes of M-type AGB stars.*

Danilovich, T.; De Beck, E.; Black, J. H.; Olofsson, H.; Justtanont, K.  
A&A vol. 588, p. A119- (2016)

*Star-formation Activity in the Neighborhood of W-R 1503-160L Star in the Mid-infrared Bubble N46.*

Dewangan, L. K.; Baug, T.; Ojha, D. K.; Janardhan, P.; Ninan, J. P.; Luna, A.; Zinchenko, I.  
ApJ, vol. 826, p. 27- (2016)

*The Physical Environment around IRAS 17599-2148: Infrared Dark Cloud and Bipolar Nebula.*

Dewangan, L. K.; Ojha, D. K.; Zinchenko, I.; Janardhan, P.; Ghosh, S. K.; Luna, A.  
ApJ, vol. 833, p. 246 (2016)

*HST imaging of the dusty filaments and nucleus swirl in NGC4696 at the centre of the Centaurus Cluster.*

Fabian, A. C.; Walker, S. A.; Russell, H. R.; Pinto, C.; Canning, R. E. A.; Salome, P.; Sanders, J. S.; Taylor, G. B.; Zweibel, E. G.; Conselice, C. J.; Combes, F.; Crawford, C. S.; Ferland, G. J.; Gallagher, J. S., III; Hatch, N. A.; Johnstone, R. M.; Reynolds, C. S.  
MNRAS, vol. 461, p. 922-928 (2016)

*Magnetic and gaseous spiral arms in M83.*

Frick, P.; Stepanov, R.; Beck, R.; Sokoloff, D.; Shukurov, A.; Ehle, M.; Lundgren, A.  
A&A, vol. 585, p. A21- (2016)

*The Herschel Orion Protostar Survey: Spectral Energy Distributions and Fits Using a Grid of Protostellar Models.*

Furlan, E.; Fischer, W. J.; Ali, B.; Stutz, A. M.; Stanke, T.; Tobin, J. J.; Megeath, S. T.;  
Osorio, M.; Hartmann, L.; Calvet, N.; Poteet, C. A.; Booker, J.; Manoj, P.; Watson, D. M.;  
Allen, L.  
ApJS, vol. 224, p. 5- (2016)

*The dust properties and physical conditions of the interstellar medium in the LMC massive star-forming complex N11.*

Galametz, M.; Hony, S.; Albrecht, M.; Galliano, F.; Cormier, D.; Lebouteiller, V.; Lee, M.  
Y.; Madden, S. C.; Bolatto, A.; Bot, C.; Hughes, A.; Israel, F.; Meixner, M.; Oliviera, J. M.;  
Paradis, D.; Pellegrini, E.; Roman-Duval, J.; Rubio, M.; Sewiło, M.; Fukui, Y.; Kawamura,  
A.; Onishi, T.  
MNRAS, vol. 456, p. 1767-1790 (2016)

*Water, methanol and dense gas tracers in the local ULIRG Arp 220: results from the new SEPIA Band 5 Science Verification campaign.*

Galametz, M.; Zhang, Z.-Y.; Immer, K.; Humphreys, E.; Aladro, R.; De Breuck, C.;  
Ginsburg, A.; Madden, S. C.; Møller, P.; Arumugam, V.  
MNRAS, vol. 462, p. L36-L40 (2016)

*CO Observations and Investigation of Triggered Star Formation toward the N10 Infrared Bubble and Surroundings.*

Gama, D. R. G.; Lepine, J. R. D.; Mendoza, E.; Wu, Y.; Yuan, J.  
ApJ, vol. 830, p. 57 (2016)

*Dense gas in the Galactic central molecular zone is warm and heated by turbulence.*

Ginsburg, Adam; Henkel, Christian; Ao, Yiping; Riquelme, Denise; Kauffmann, Jens; Pillai,  
Thushara; Mills, Elisabeth A. C.; Requena-Torres, Miguel A.; Immer, Katharina; Testi,  
Leonardo; Ott, Juergen; Bally, John; Battersby, Cara; Darling, Jeremy; Aalto, Susanne;  
Stanke, Thomas; Kendrew, Sarah; Kruijssen, J. M. Diederik; Longmore, Steven; Dale, James;  
Guesten, Rolf; Menten, Karl M.  
A&A, vol. 586, p. A50- (2016)

*L1599B: Cloud Envelope and C+ Emission in a Region of Moderately Enhanced Radiation Field.*

Goldsmith, Paul F.; Pineda, Jorge L.; Langer, William D.; Liu, Tie; Requena-Torres, Miguel;  
Ricken, Oliver; Riquelme, Denise.  
ApJ, vol. 824, p. 141- (2016)

*Herschel/PACS far-IR spectral imaging of a jet from an intermediate mass protostar in the OMC-2 region.*

González-García, B.; Manoj, P.; Watson, D. M.; Vavrek, R.; Megeath, S. T.; Stutz, A. M.;  
Osorio, M.; Wyrowski, F.; Fischer, W.; Tobin, J. J.; Sánchez-Portal, M.; Diaz Rodriguez, A.  
K.; Wilson, T. L.  
A&A 596, A26 (2016)

*A submillimetre search for pre- and proto-brown dwarfs in Chamaeleon II.*

de Gregorio-Monsalvo, I.; Barrado, D.; Bouy, H.; Bayo, A.; Palau, A.; Morales-Calderón, M.; Huélamo, N.; Morata, O.; Merín, B.; Eiroa, C.  
A&A, vol. 590, p. A79- (2016)

*The Musca cloud: A 6 pc-long velocity-coherent, sonic filament.*

Hacar, A.; Kainulainen, J.; Tafalla, M.; Beuther, H.; Alves, J.  
A&A, vol. 587, p. A97- (2016)

*Properties of massive star-forming clumps with infall motions.*

He, Yu-Xin; Zhou, Jian-Jun; Esimbek, Jarken; Ji, Wei-Guang; Wu, Gang; Tang, Xin-Di; Komesch, Toktarkhan; Yuan, Ye; Li, Da-Lei; Baan, W. A.  
MNRAS, vol. 461, p. 2288-2308 (2016)

*Millimeter and submillimeter excess emission in M 33 revealed by Planck and LABOCA.*

Hermelo, I.; Relaño, M.; Lisenfeld, U.; Verley, S.; Kramer, C.; Ruiz-Lara, T.; Boquien, M.; Xilouris, E. M.; Albrecht, M.  
A&A, vol. 590, p. A56- (2016)

*IRAS 16253–2429: The First Proto-brown Dwarf Binary Candidate Identified through the Dynamics of Jets.*

Hsieh, Tien-Hao; Lai, Shih-Ping; Belloche, Arnaud; Wyrowski, Friedrich.  
ApJ, 2016, p. 68- (2016)

*Detection of 183 GHz H<sub>2</sub>O megamaser emission towards NGC 4945.*

E. M. L. Humphreys, W. H. T. Vlemmings, C. M. V. Impellizzeri, M. Galametz, M. Olberg, J. E. Conway, V. Belitsky, and C. De Breuck.  
A&A 592, L13 (2016)

*Temperature structures in Galactic center clouds. Direct evidence for gas heating via turbulence.*

Immer, K.; Kauffmann, J.; Pillai, T.; Ginsburg, A.; Menten, K. M.  
A&A, vol. 595, p. A94 (2016)

*The Space Density of Luminous Dusty Star-forming Galaxies at  $z > 4$ : SCUBA-2 and LABOCA Imaging of Ultrared Galaxies from Herschel-ATLAS.*

Ivison, R. J.; Lewis, A. J. R.; Weiss, A.; Arumugam, V.; Simpson, J. M.; Holland, W. S.; Maddox, S.; Dunne, L.; Valiante, E.; van der Werf, P.; Omont, A.; Dannerbauer, H.; Smail, Ian; Bertoldi, F.; Bremer, M.; Bussmann, R. S.; Cai, Z. -Y.; Clements, D. L.; Cooray, A.; De Zotti, G.; Eales, S. A.; Fuller, C.; Gonzalez-Nuevo, J.; Ibar, E.; Negrello, M.; Oteo, I.; Pérez-Fournon, I.; Riechers, D.; Stevens, J. A.; Swinbank, A. M.; Wardlow, J.  
ApJ, vol. 832, p. 78 (2016)

*Gravitational fragmentation caught in the act: the filamentary Musca molecular cloud.*

Kainulainen, J.; Hacar, A.; Alves, J.; Beuther, H.; Bouy, H.; Tafalla, M.  
A&A, vol. 586, p. A27- (2016)

*Volatile-carbon locking and release in protoplanetary disks. A study of TW Hya and HD 100546.*

Kama, M.; Bruderer, S.; van Dishoeck, E. F.; Hogerheijde, M.; Folsom, C. P.; Miotello, A.; Fedele, D.; Belloche, A.; Güsten, R.; Wyrowski, F.  
A&A, vol. 592, p. A83 (2016)

*Observations and modelling of CO and [C i] in protoplanetary disks. First detections of [C i] and constraints on the carbon abundance.*

Kama, M.; Bruderer, S.; Carney, M.; Hogerheijde, M.; van Dishoeck, E. F.; Fedele, D.; Baryshev, A.; Boland, W.; Güsten, R.; Aikutalp, A.; Choi, Y.; Endo, A.; Frieswijk, W.; Karska, A.; Klaassen, P.; Koumpia, E.; Kristensen, L.; Leurini, S.; Nagy, Z.; Perez Beaufuits, J.-P.; Risacher, C.; van der Marel, N.; van Kempen, T. A.; van Weeren, R. J.; Wyrowski, F.; Yildiz, U. A.  
A&A 588, A108 (2016)

*An observational study of dust nucleation in Mira (o Ceti). I. Variable features of AlO and other Al-bearing species.*

Kamiński, T.; Wong, K. T.; Schmidt, M. R.; Müller, H. S. P.; Gottlieb, C. A.; Cherchneff, I.; Menten, K. M.; Keller, D.; Brünken, S.; Winters, J. M.; Patel, N. A.  
A&A, vol. 592, p. A42- (2016)

*Outflow forces in intermediate-mass star formation.*

van Kempen, T. A.; Hogerheijde, M. R.; van Dishoeck, E. F.; Kristensen, L. E.; Belloche, A.; Klaassen, P. D.; Leurini, S.; San Jose-Garcia, I.; Aykutalp, A.; Choi, Y.; Endo, A.; Frieswijk, W.; Harsono, D.; Karska, A.; Koumpia, E.; van der Marel, N.; Nagy, Z.; Pérez-Beaufuits, J.-P.; Risacher, C.; van Weeren, R. J.; Wyrowski, F.; Yildiz, U. A.; Güsten, R.; Boland, W.; Baryshev, A.  
A&A, vol. 587, p. A17- (2016)

*The Milky Way Project and ATLASGAL: The Distribution and Physical Properties of Cold Clumps Near Infrared Bubbles.*

Kendrew, Sarah; Beuther, Henrik; Simpson, Robert; Csengeri, Timea; Wienen, Marion; Lintott, Chris. J.; Povich, Matthew S.; Beaumont, Chris; Schuller, Frédéric.  
ApJ, vol. 825, p. 142- (2016)

*Cold CO Gas in the Disk of the Young Eruptive Star EX Lup.*

Kóspál, Á.; Ábrahám, P.; Csengeri, T.; Gorti, U.; Henning, Th.; Moór, A.; Semenov, D. A.; Szűcs, L.; Güsten, R.  
ApJ, vol. 821, p. L4- (2016)

*A self-consistent model for the evolution of the gas produced in the debris disc of  $\beta$  Pictoris.*

Kral, Q.; Wyatt, M.; Carswell, R. F.; Pringle, J. E.; Matrà, L.; Juhász, A.  
MNRAS, vol. 461, p. 845-858 (2016)

*Highly Variable Young Massive Stars in ATLASGAL Clumps.*

Kumar, M. S. N.; Contreras Peña, C.; Lucas, P. W.; Thompson, M. A.  
ApJ, vol. 833, p. 24 (2016)

*Deuteration in infrared dark clouds.*

Lackington, Matias; Fuller, Gary A.; Pineda, Jaime E.; Garay, Guido; Peretto, Nicolas; Traficante, Alessio.

MNRAS, 2016, vol. 455, p. 806-819

*ATLASGAL: A Galaxy-wide sample of dense filamentary structures.*

Li, Guang-Xing; Urquhart, James S.; Leurini, Silvia; Csengeri, Timea; Wyrowski, Friedrich; Menten, Karl M.; Schuller, Frederic.

A&A, vol. 591, p. A5- (2016)

*Cloud Structure of Galactic OB Cluster-forming Regions from Combining Ground- and Space-based Bolometric Observations.*

Lin, Yuxin; Liu, Haoyu Baobab; Li, Di; Zhang, Zhi-Yu; Ginsburg, Adam; Pineda, Jaime E.; Qian, Lei; Galván-Madrid, Roberto; McLeod, Anna Faye; Rosolowsky, Erik; Dale, James E.; Immer, Katharina; Koch, Eric; Longmore, Steve; Walker, Daniel; Testi, Leonardo.

ApJ, vol. 828, p. 32-

*On the Origin of C<sub>4</sub>H and CH<sub>3</sub>OH in Protostellar Envelopes.*

Lindberg, Johan E.; Charnley, Steven B.; Cordiner, Martin A.

ApJ, 2016, vol. 833, p. L14 (2016)

*The (w)hole survey: An unbiased sample study of transition disk candidates based on Spitzer catalogs.* van der Marel, N.; Verhaar, B. W.; van Terwisga, S.; Merín, B.; Herczeg, G.; Ligterink, N. F. W.; van Dishoeck, E. F.

A&A, vol. 592, p. A126 (2016)

*G345.45+1.50: an expanding ring-like structure with massive star formation.*

López-Calderón, Cristian; Bronfman, Leonardo; Nyman, Lars-Åke; Garay, Guido; de Gregorio-Monsalvo, Itziar; Bergman, Per.

A&A, vol. 595, p. A88 (2016)

*A detailed view of the gas shell around R Sculptoris with ALMA.*

Maercker, M.; Vlemmings, W. H. T.; Brunner, M.; De Beck, E.; Humphreys, E. M.; Kerschbaum, F.; Lindqvist, M.; Olofsson, H.; Ramstedt, S.

A&A, vol. 586, p. A5- (2016)

*The sulfur depletion problem: upper limits on the H<sub>2</sub>S<sub>2</sub>, HS<sup>-</sup>, and S<sub>2</sub> gas-phase abundances toward the low-mass warm core IRAS 16293-2422.*

Martín-Doménech, R.; Jiménez-Serra, I.; Muñoz Caro, G. M.; Müller, H. S. P.; Occhiogrosso, A.; Testi, L.; Woods, P. M.; Viti, S.

A&A, vol. 585, p. A112- (2016)

*EU Del: exploring the onset of pulsation-driven winds in giant stars.*

McDonald, I.; Zijlstra, A. A.; Sloan, G. C.; Lagadec, E.; Johnson, C. I.; Uttenthaler, S.; Jones, O. C.; Smith, C. L.

MNRAS, vol. 456, p. 4542-4550 (2016)

*GRB 980425 host: [C II], [O I], and CO lines reveal recent enhancement of star formation due to atomic gas inflow.*

Michałowski, M. J.; Castro Cerón, J. M.; Wardlow, J. L.; Karska, A.; Messias, H.; van der Werf, P.; Hunt, L. K.; Baes, M.; Castro-Tirado, A. J.; Gentile, G.; Hjorth, J.; Le Floch, E.; Pérez-Martínez, R.; Nicuesa Guelbenzu, A.; Rasmussen, J.; Rizzo, J. R.; Rossi, A.; Sánchez-Portal, M.; Schady, P.; Sollerman, J.; Xu, D.

A&A, vol. 595, p. A72 (2016)

*Characterising the physical and chemical properties of a young Class 0 protostellar core embedded in the Orion B9 filament.*

Miettinen, O. Ap&SS, vol. 361, p. 248 (2016)

*Calibration of Evolutionary Diagnostics in High-mass Star Formation.*

Molinari, S.; Merello, M.; Elia, D.; Cesaroni, R.; Testi, L.; Robitaille, T.

ApJ, vol. 826, p. L8- (2016)

*The missing link: Tracing molecular gas in the outer filament of Centaurus A.*

Morganti, Raffaella; Oosterloo, Tom; Oonk, J. B. Raymond; Santoro, Francesco; Tadhunter, Clive.

A&A, vol. 592, p. L9 (2016)

*Star-forming Activity in the H II Regions Associated with the IRAS 17160-3707 Complex.*

Nandakumar, G.; Veena, V. S.; Vig, S.; Tej, A.; Ghosh, S. K.; Ojha, D. K.

AJ, vol. 152, p. 146 (2016)

*A Study of the Relation between Star Formation and Molecular Clumps on Subparsec Scales in 30 Doradus.*

Nayak, O.; Meixner, M.; Indebetouw, R.; De Marchi, G.; Koekemoer, A.; Panagia, N.; Sabbi, E.

ApJ, 2016, vol. 831, p. 32 (2016)

*Study of a bright-rimmed cloud at the border of the infrared dust bubble CN20.*

Ortega, M. E.; Giacani, E.; Paron, S.; Rubio, M.

MNRAS, vol. 458, p. 3684-3690 (2016)

*Detectability of deuterated water in prestellar cores.*

Quénard, D.; Taquet, V.; Vastel, C.; Caselli, P.; Ceccarelli, C.

A&A, vol. 585, p. A36- (2016)

*Dust properties in H II regions in M 33.*

Relaño, M.; Kennicutt, R.; Lisenfeld, U.; Verley, S.; Hermelo, I.; Boquien, M.; Albrecht, M.; Kramer, C.; Braine, J.; Pérez-Montero, E.; De Looze, I.; Xilouris, M.; Kovács, A.; Staguhn, J.

A&A, vol. 595, p. A43 (2016)

*Carbon gas in SMC low-metallicity star-forming regions.*

Requena-Torres, M. A.; Israel, F. P.; Okada, Y.; Güsten, R.; Stutzki, J.; Risacher, C.;

Simon, R.; Zinnecker, H.

A&A, vol. 589, p. A28- (2016)



*Molecular gas in the star-forming region IRAS 08589-4714.*

Saldaño, Hugo P.; Vásquez, J.; Cappa, C. E.; Gómez, M.; Duronea, N.; Rubio, M.  
A&A, vol. 594, p. A115 (2016)

*Atomic-to-molecular gas phase transition triggered by the radio jet in Centaurus A.*

Salomé, Q.; Salomé, P.; Combes, F.; Hamer, S.

A&A, vol. 595, p. A65 (2016)

*The physical and chemical structure of Sagittarius B2. I. Three-dimensional thermal dust and free-free continuum modeling on 100 au to 45 pc scales.*

Schmiedeke, A.; Schilke, P.; Möller, Th.; Sánchez-Monge, Á.; Bergin, E.; Comito, C.;  
Csengeri, T.; Lis, D. C.; Molinari, S.; Qin, S.-L.; Rolffs, R.

A&A, vol. 588, p. A143- (2016)

*The Redshift Distribution of Dusty Star-forming Galaxies from the SPT Survey.*

Strandet, M. L.; Weiss, A.; Vieira, J. D.; de Breuck, C.; Aguirre, J. E.; Aravena, M.; Ashby,  
M. L. N.; Béthermin, M.; Bradford, C. M.; Carlstrom, J. E.; Chapman, S. C.; Crawford, T.  
M.; Everett, W.; Fassnacht, C. D.; Furstenau, R. M.; Gonzalez, A. H.; Greve, T. R.; Gullberg,  
B.; Hezaveh, Y.; Kamenetzky, J. R.; Litke, K.; Ma, J.; Malkan, M.; Marrone, D. P.; Menten,  
K. M.; Murphy, E. J.; Nadolski, A.; Rotermond, K. M.; Spilker, J. S.; Stark, A. A.;  
Welikala, N.

ApJ, vol. 822, p. 80- (2016)

*Observations of 6.7 GHz methanol masers with East-Asian VLBI Network. II. Internal proper motion measurement in G006.79-00.25.*

Sugiyama, Koichiro; Fujisawa, Kenta; Hachisuka, Kazuya; Yonekura, Yoshinori; Motogi,  
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