

# JOHN-DAVID T. SMITH (JD)

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## EDUCATION

<i>2001</i>	<b>Cornell University</b> Ph. D. Astronomy	Ithaca, NY
<i>1998</i>	<b>Cornell University</b> M. S. Astronomy	Ithaca, NY
<i>1995</i>	<b>Massachusetts Institute of Technology</b> S. B. Physics	Cambridge, MA

## FELLOWSHIPS AND AWARDS

<i>2012</i>	Cottrell Scholar Award
<i>2011</i>	Visiting Scholar, Max Planck Institut für Astronomie
<i>2010</i>	University of Toledo Faculty Excellence Award
<i>2003</i>	Lucas Junior Faculty Research Award
<i>1995–1998</i>	National Science Foundation Graduate Research Fellowship
<i>1995–present</i>	Phi Beta Kappa National Honors Society
<i>1995–present</i>	Sigma Pi Sigma National Physics Honor Society
<i>1993–1995</i>	John V. and Anna G. Wills Memorial Scholar, MIT
<i>1994</i>	D. Severance Scholar, MIT
<i>1991</i>	National Merit Scholar

## PROFESSIONAL EXPERIENCE

<i>2012–</i>	<b>Associate Professor</b> Department of Physics and Astronomy	University of Toledo
<i>2008–2012</i>	<b>Assistant Professor</b> Department of Physics and Astronomy	University of Toledo
<i>2005–2007</i>	<b>Assistant Astronomer</b> Member, Research Faculty, Department of Astronomy	Steward Observatory
<i>2002–2005</i>	<b>Postdoctoral Research Fellow</b> Mentor: R. Kennicutt	University of Arizona
<i>2001–2010</i>	<b>Spitzer IRS Instrument Team</b> Team member	Cornell
<i>1998–2000</i>	<b>SCORE Instrument Project</b> Project lead for 10 $\mu$ m ground-based spectrograph	Cornell
<i>1995–2001</i>	<b>Astronomy Infrared Group</b> NSF Graduate Research Fellow, Advisor: Jim Houck	Cornell
<i>1994–1995</i>	<b>Earth and Planetary Sciences</b> IRTF/UKIRT undergraduate research assistant (with Jim Elliot)	MIT
<i>1994</i>	<b>Wallace Observatory</b> Optical spectrograph development and undergraduate research	MIT

- 1993 **MPD – CMI, Inc.** Owensboro, KY  
Infrared breath-alcohol spectrometer design and engineering
- 1992–1994 **Center for Space Research** MIT  
Accreting X-ray binary theory and population synthesis undergraduate research (with Saul Rappaport)

## PROFESSIONAL ACTIVITIES

- 2013– Chair, UT Natural Sciences and Mathematics Council
- 2013– Discovery Channel Telescope Advisory Board
- 2012– Lowell Observatory Science Advisory Board
- 2012– UT/DCT Director
- 2010 Local and scientific organizing, *WittFest: Origins and Evolution of Dust*
- 2010 Co-organizer, *Challenges in Infrared Extragalactic Astrophysics II*
- 2008– Spitzer Science User’s Panel
- 2008 NASA Spitzer Cryo-Closeout Review Panelist
- 2005– Gemini Flamings-2 Tunable F2T2 instrument team
- 2004 Gemini Ground Layer Adaptive Optics Science Working Group
- 2004–2006 Gemini First Light Science Working Group
- 2003–2005 Spitzer/IRS Interest Group
- 2002– TAC/proposal review service for many facilities: Spitzer, USIBSF, NASA, JWST
- 2001– Referee for numerous manuscripts in ApJ, AJ, A&A, PASP, PASJ, MNRAS, etc.
- 2000 Cornell Atacama Telescope Project Site Survey Team
- 1998–2007 Spitzer Science Center IRS Instrument Support Team Consultant

## PUBLICATIONS – REFEREED

(h=37)

96. *Mapping Dust Through Emission and Absorption in Nearby Galaxies*, Kreckel, K. , Groves, B. , Schinnerer, E., Johnson, B. D., Aniano, G. , Calzetti, D. , Croxall, K., Draine, B. T., Gordon, K. D. , Crocker, A. F. , Dale, D. A., Hunt, L. K. , Kennicutt, R. C., Meidt, S. E., **Smith, J. D. T.**, Tabatabaei, F. S., *ApJ* (accepted) (2013)
95. *The CO-to-H2 Conversion Factor and Dust-to-Gas Ratio on Kiloparsec Scales in Nearby Galaxies*, Sandstrom, K. M., Leroy, A. K., Walter, F., Bolatto, A. D., Croxall, K. V., Draine, B. T., Wilson, C. D., Wolfire, M., Calzetti, D., Kennicutt, R. C., Aniano, G., Donovan Meyer, J., Usero, A., Bigiel, F., Brinks, E., de Blok, W. J. G, Crocker, A., Dale, D., Engelbracht, C. W., Galametz, M., Groves, B., Hunt, L. K., Koda, J., Kreckel, K., Linz, H., Meidt, S., Pellegrini, E., Rix, H.-W., Roussel, H., Schinnerer, E., Schrubba, A., Schuster, K.-F., Skibba, R., van der Laan, T., Appleton, P., Armus, L., Brandl, B., Gordon, K., Hinz, J., Krause, O., Montiel, E., Sauvage, M., Schmiedeke, A., **Smith, J. D. T.**, Vigroux, L., *ApJ* (submitted)
94. *Star Formation Rates in Resolved Galaxies: Calibrations with Near- and Far-infrared Data for NGC 5055 and NGC 6946*, Li, Yiming, Crocker, Alison F., Calzetti, Daniela, Wilson, Christine D., Kennicutt, Robert C., Murphy, Eric J., Brandl, Bernhard R., Draine, B. T., Galametz, M., Johnson, B. D., Armus, L., Gordon, K. D., Croxall, K., Dale, D. A., Engelbracht, C. W., Groves, B., Hao, C.-N., Helou, G., Hinz, J., Hunt, L. K., Krause, O., Roussel, H., Sauvage, M., **Smith, J. D. T.**, *ApJ*, **768** 180 (2013)
93. *Quantifying Non-star-formation-associated 8 m Dust Emission in NGC 628*, Crocker, Alison F., Calzetti, Daniela, Thilker, David A., Aniano, Gonzalo, Draine, Bruce T., Hunt, Leslie K., Kennicutt, Robert C., Sandstrom, Karin, **Smith, J. D. T.**, *ApJ*, **762** 79 (2013)
92. *Eleven New Heavily Reddened Field Wolf-Rayet Stars*, **Smith, J.D.T.**, Cushing, M., Barletta, A., McCarthy, D., Kulesa, C, & Van Dyk, S., *AJ*, **144** 166 (2011)

91. *Nucleosynthetic Layers in the Shocked Ejecta of Cassiopeia A*, Isensee, K., Olmschenk, G., Rudnick, L., DeLaney, T., **Smith, J.D.**, Rho, J., Reach, W. T., Kozasa, T., and Gomez, H., *ApJ*, **757** 126 (2012)
90. *Modeling Dust and Starlight in Galaxies Observed by Spitzer and Herschel: NGC 628 and NGC 6946*, Aniano, G., Draine, B. T., Calzetti, D., Dale, D. A., Engelbracht, C. W., Gordon, K. D., Hunt, L. K., Kennicutt, R. C., Krause, O., Leroy, A. K., Rix, H.-W., Roussel, H., Sandstrom, K., Sauvage, M., Walter, F., Armus, L., Bolatto, A. D., Crocker, A., Donovan Meyer, J., Galametz, M., Helou, G., Hinz, J., Johnson, B. D., Koda, J., Montiel, E., Murphy, E. J., Skibba, R., **Smith, J.-D. T.**, Wolfire, M. G., *ApJ*, **756** 138 (2012)
89. *A Study of Heating and Cooling of the ISM in NGC 1097 with Herschel-PACS and Spitzer-IRS*, Beiro, P., Armus, L., Helou, G., Appleton, P. N., **Smith, J.-D. T.**, Croxall, K. V. et al., *ApJ* **751** 144 (2012)
88. *Resolving the Far-IR Line Deficit: Photoelectric Heating and Far-IR Line Cooling in NGC 1097 and NGC 4559*, Croxall, Kevin V., **Smith, J. D.**, Wolfire, M. G., Roussel, H., Sandstrom, K. M., Draine, B. T. et al., *ApJ*, **747** 81 (2012)
87. *Herschel Far-infrared and Submillimeter Photometry for the KINGFISH Sample of nearby Galaxies*, Dale, D. A., Aniano, G., Engelbracht, C. W., Hinz, J. L., Krause, O., Montiel, E. J., Roussel, H., Appleton, P. N., Armus, L., Beiro, P., Bolatto, A. D., Brandl, B. R., Calzetti, D., Crocker, A. F., Croxall, K. V., Draine, B. T., Galametz, M., Gordon, K. D., Groves, B. A., Hao, C.-N., Helou, G., Hunt, L. K., Johnson, B. D., Kennicutt, R. C., Koda, J., Leroy, A. K., Li, Y., Meidt, S. E., Miller, A. E., Murphy, E. J., Rahman, N., Rix, H.-W., Sandstrom, K. M., Sauvage, M., Schinnerer, E., Skibba, R. A., **Smith, J.-D. T.**, et al., *ApJ*, **745** 95 (2012)
86. *The Spitzer Spectroscopic Survey of the Small Magellanic Cloud (S4MC): Probing the Physical State of Polycyclic Aromatic Hydrocarbons in a Low-metallicity Environment*, Sandstrom, Karin M., Bolatto, Alberto D., Bot, Caroline, Draine, B. T., Ingalls, James G., Israel, Frank P., Jackson, James M., Leroy, Adam K., Li, Aigen, Rubio, Mnica, Simon, Joshua D., **Smith, J. D. T.**, Stanimirovi, Sneana, Tielens, A. G. G. M., van Loon, Jacco Th., *ApJ*, **744** 20 (2012)
85. *KINGFISH Key Insights on Nearby Galaxies: A Far-Infrared Survey with Herschel: Survey Description and Image Atlas*, Kennicutt, R. C., Calzetti, D., Aniano, G., Appleton, P., Armus, L., Beiro, P., Bolatto, A. D., Brandl, B., Crocker, A., Croxall, K., Dale, D. A., Meyer, J. Donovan, Draine, B. T., Engelbracht, C. W., Galametz, M., Gordon, K. D., Groves, B., Hao, C.-N., Helou, G., Hinz, J., Hunt, L. K., Johnson, B., Koda, J., Krause, O., Leroy, A. K., Li, Y., Meidt, S., Montiel, E., Murphy, E. J., Rahman, N., Rix, H.-W., Roussel, H., Sandstrom, K., Sauvage, M., Schinnerer, E., Skibba, R., **Smith, J. D. T.**, Srinivasan, S., Vigroux, L., Walter, F., Wilson, C. D., Wolfire, M., Zibetti, S., *PASP*, **123** 1347 (2011)
84. *Spitzer IRS Spectral Mapping of the Toomre Sequence: Spatial Variations of PAH, Gas, and Dust Properties in Nearby Major Mergers*, Haan, S., Armus, L., Laine, S., Charmandaris, V. **Smith, J. D.**, Schweizer, F., Brandl, B., Evans, A.S., Surace, J.A., Diaz-Santos, T., Beirao, P., Murphy, E.J., Stierwalt, S., Hibbard, J.E., Yun, M., & Jarrett, T.H., *ApJS*, **197** 27 (2011)
83. *Probing the Star Formation History and Initial Mass Function of the  $z \sim 2.5$  Lensed Galaxy SMM J163554.2+661225 with Herschel*, Finkelstein, Keely D., Papovich, Casey, Finkelstein, Steven L., Willmer, Christopher N. A., Rigby, Jane R., Rudnick, Gregory, Egami, Eiichi, Rieke, Marcia, **Smith, J.-D. T.**, *ApJ*, **742** 108 (2011)
82. *The Emission by Dust and Stars of Nearby Galaxies in the Herschel KINGFISH Survey*, Skibba, R. A., Engelbracht, C. W., Dale, D., Hinz, J., Zibetti, S., Crocker, A., Groves, B., Hunt, L., Johnson, B. D., Meidt, S., Murphy, E. J., Appleton, P., Armus, L., Bolatto, A., Brandl, B., Calzetti, D., Croxall, K., Galametz, M., Gordon, K. D., Kennicutt, R. C., Koda, J., Krause, O., Montiel, E., Rix, H.-W., Roussel, H., Sandstrom, K., Sauvage, M., Schinnerer, E., **Smith, J. D.**, Walter, F., Wilson, C. D., and Wolfire, M., *ApJ*, **738** 89 (2011)
81. *The deeply obscured AGN of NGC4945 I. Spitzer-IRS maps of [Ne V], [Ne II], H2 0-0 S(1), S(2), and other tracers*, Prez-Beaupuits, J. P., Spoon, H. W. W., Spaans, M., and **Smith, J. D.**, *A&A*, **533** 56 (2011)

80. *Calibrating Extinction-Free Star Formation Rate Diagnostics with 33GHz Free-Free Emission in NGC6946*, Murphy, E. J., Condon, J. J., Schinnerer, E., Kennicutt, R. C., Jr., Calzetti, D., Armus, L., Helou, G., Turner, J. L., Aniano, G., Beiro, P., Bolatto, A. D., Brandl, B. R., Croxall, K. V., Dale, D. A., Donovan Meyer, J. L., Draine, B. T., Engelbracht, C., Hunt, L. K., Hao, C.-N., Koda, J., Roussel, H., Skibba, R., and **Smith, J. -D. T.**, *ApJ*, **737** 67 (2011)
79. *The Displaced Dusty Interstellar Medium of NGC 3077: Tidal Stripping in the M 81 Triplet*, Walter, F., Sandstrom, K., Aniano, G., Calzetti, D., Croxall, K., Dale, D. A., Draine, B. T., Engelbracht, C., Hinz, J., Kennicutt, R. C., Wolfire, M., Armus, L., Beiro, P., Bolatto, A. D., Brandl, B., Crocker, A., Galametz, M., Groves, B., Hao, C.-N., Helou, G., Hunt, L., Koda, J., Krause, O., Leroy, A., Meidt, S., Murphy, E. J., Rahman, N., Rix, H.-W., Roussel, H., Sauvage, M., Schinnerer, E., Skibba, R., **Smith, J. D.**, Wilson, C. D., and Zibetti, S., *ApJ*, **726** L11 (2011)
78. *The Three-dimensional Structure of Interior Ejecta in Cassiopeia A at High Spectral Resolution*, Isensee, K., Rudnick, L., DeLaney, T., **Smith, J. D.**, Rho, J., Reach, W. T., Kozasa, T., and Gomez, H., *ApJ*, **725** 2059 (2010)
77. *The Three-dimensional Structure of Cassiopeia A*, DeLaney, T., Rudnick, L., Stage, M. D., **Smith, J. D.**, Isensee, K., Rho, J., Allen, G. E., Gomez, H., Kozasa, T., Reach, W. T., Davis, J. E., and Houck, J. C., *ApJ*, **725** 2038 (2010)
76. *Infrared Luminosities and Aromatic Features in the 24 $\mu$ m Flux-limited Sample of 5MUSES*, Wu, Y., Helou, G., Armus, L., Cormier, D., Shi, Y., Dale, D., Dasyra, K., **Smith, J. D.**, Papovich, C., Draine, B., Rahman, N., Stierwalt, S., Fadda, D., Lagache, G., and Wright, E. L., *ApJ*, **723** 895 (2010)
75. *Optical Spectroscopy and Nebular Oxygen Abundances of the Spitzer/SINGS Galaxies*, Moustakas, J., Kennicutt, R. C., Tremonti, C. A., Dale, Daniel A., **Smith, J. D. T.**, and Calzetti, D., *ApJS*, **190** 233 (2010)
74. *C<sub>60</sub> in Reflection Nebulae*, Sellgren, Kris, Werner, M. W., Ingalls, J. G., **Smith, J. D. T.**, Carleton, T. M., and Joblin, C., *ApJ*, **722** 54 (2010)
73. *The Energetics of Molecular Gas in NGC 891 from H<sub>2</sub> and Far-infrared Spectroscopy*, Stacey, G. J., Charmandaris, V., Boulanger, F., Wu, Yanling, Combes, F., Higdon, S. J. U., **Smith, J. D. T.**, and Nikola, T., *ApJ*, **721** 59 (2010)
72. *Far-infrared line imaging of the starburst ring in NGC 1097 with the Herschel/PACS spectrometer*, Beiro, P., Armus, L., Appleton, P. N., **Smith, J.-D. T.**, Croxall, K. V., Murphy, E. J., Dale, D. A., Helou, G., Kennicutt, R. C., Calzetti, D., Bolatto, A. D., Brandl, B. R., Crocker, A. F., Draine, B. T., Dumas, G., Engelbracht, C. W., Gil de Paz, A., Gordon, K. D., Groves, B., Hao, C.-N., Hinz, J. L., Hunt, L. K., Johnson, B. D., Koda, J., Krause, O., Leroy, A. K., Meidt, S. E., Richer, J., Rix, H.-W., Rahman, N., Roussel, H., Sandstrom, K. M., Sauvage, M., Schinnerer, E., Skibba, R. A., Srinivasan, S., Walter, F., Warren, B. E., Wilson, C. D., Wolfire, M. G., and Zibetti, S., *A&A*, **518** L60 (2010)
71. *Mapping far-IR emission from the central kiloparsec of NGC 1097*, Sandstrom, K., Krause, O., Linz, H., Schinnerer, E., Dumas, G., Meidt, S., Rix, H.-W., Sauvage, M., Walter, F., Kennicutt, R. C., Calzetti, D., Appleton, P., Armus, L., Beiro, P., Bolatto, A., Brandl, B., Crocker, A., Croxall, K., Dale, D., Draine, B. T., Engelbracht, C., Gil de Paz, A., Gordon, K., Groves, B., Hao, C.-N., Helou, G., Hinz, J., Hunt, L., Johnson, B. D., Koda, J., Leroy, A., Murphy, E. J., Rahman, N., Roussel, H., Skibba, R., **Smith, J.-D.**, Srinivasan, S., Vigroux, L., Warren, B. E., Wilson, C. D., Wolfire, M., and Zibetti, S., *A&A*, **518** L59 (2010)
70. *Enhanced dust heating in the bulges of early-type spiral galaxies*, Engelbracht, C. W., Hunt, L. K., Skibba, R. A., Hinz, J. L., Calzetti, D., Gordon, K. D., Roussel, H., Crocker, A. F., Misselt, K. A., Bolatto, A. D., Kennicutt, R. C., Appleton, P. N., Armus, L., Beiro, P., Brandl, B. R., Croxall, K. V., Dale, D. A., Draine, B. T., Dumas, G., Gil de Paz, A., Groves, B., Hao, C.-N., Johnson, B. D., Koda, J., Krause, O., Leroy, A. K., Meidt, S. E., Murphy, E. J., Rahman, N., Rix, H.-W., Sandstrom, K. M., Sauvage, M., Schinnerer, E., **Smith, J.-D. T.**, Srinivasan, S., Vigroux, L., Walter, F., Warren, B. E., Wilson, C. D., Wolfire, M. G., and Zibetti, S., *A&A*, **518** L56 (2010)

69. *Local Luminous Infrared Galaxies. I. Spatially Resolved Observations with the Spitzer Infrared Spectrograph*, Pereira-Santaella, Miguel, Alonso-Herrero, Almudena, Rieke, George H., Colina, Luis, Daz-Santos, Tanio, **Smith, J.-D. T.**, Prez-Gonzalez, Pablo G., and Engelbracht, Charles W., *ApJS*, **188** 447 (2010)
68. *An Aromatic Inventory of the Local Volume*, Marble, A. R., Engelbracht, C. W., van Zee, L., Dale, D. A., **Smith, J. D. T.**, Gordon, K. D., Wu, Y., Lee, J. C., Kennicutt, R. C., Skillman, E. D., Johnson, L. C., Block, M., Calzetti, D., Cohen, S. A., Lee, H., and Schuster, M. D., *ApJ*, **715** 506 (2010)
67. *Local Luminous Infrared Galaxies: Spatially Resolved Mid-Infrared Observations with Spitzer/IRS*, Alonso-Herrero, A., Pereira-Santaella, M., Rieke, G. H., Colina, L., Engelbracht, C. W., Pérez-González, P. G., Díaz-Santos, T., and **Smith, J.-D. T.**, *Advances in Space Research*, **45** 99 (2010)
66. *Powerful H<sub>2</sub> Line-cooling in Stephan's Quintet : I - Mapping the Significant Cooling Pathways in Group-wide Shocks*, Cluver, M. E., Appleton, P. N., Boulanger, F., Guillard, P., Ogle, P., Duc, P. -, Lu, N., Rasmussen, J., Reach, W. T., **Smith, J. D.**, Tuffs, R., Xu, C. K., and Yun, M. S., *ApJ*, **710**, 248 (2010)
65. *A Spitzer Unbiased Ultradeep Spectroscopic Survey*, Bertincourt, B., Helou, G., Appleton, P., Ogle, P., Lagache, G., Brooke, T., **Smith, J.-D.**, Sheth, K., Dale, D., Harwit, M., Puget, J.-L., and Roussel, H., *ApJ* **705** 68 (2009)
64. *Paschen- $\alpha$  Emission in the Gravitationally Lensed Galaxy SMM J163554.2+661225*, Papovich, C., Rudnick, G., Rigby, J. R., Willmer, C. N. A., **Smith, J.-D. T.**, Finkelstein, S. L., Egami, E., and Rieke, M., *ApJ* **704** 1506 (2009)
63. *Spitzer-IRS Study of the Antennae Galaxies NGC 4038/39*, Brandl, B. R., Snijders, L., den Brok, M., Whelan, D. G., Groves, B., van der Werf, P., Charmandaris, V., **Smith, J. D.**, Armus, L., Kennicutt, R. C., and Houck, J. R., *ApJ* **699** 1982 (2009)
62. *The Extreme Star Formation Activity of Arp 299 Revealed by Spitzer IRS Spectral Mapping*, Alonso-Herrero, A., Rieke, G. H., Colina, L., Pereira-Santaella, M., García-Marín, M., **Smith, J.-D. T.**, Brandl, B., Charmandaris, V., and Armus, L., *ApJ* **697** 660 (2009)
61. *Measuring Dust Production in the Small Magellanic Cloud Core-Collapse Supernova Remnant 1E 0102.2-7219*, Sandstrom, K. M., Bolatto, A. D., Stanimirović, S., van Loon, J. T., and **Smith, J. D. T.**, *ApJ* **696** 2138 (2009)
60. *Physical Conditions in the Ionized Gas of 30 Doradus*, Indebetouw, R., de Messières, G. E., Madden, S., Engelbracht, C., **Smith, J. D.**, Meixner, M., Brandl, B., Smith, L. J., Boulanger, F., Galliano, F., Gordon, K., Hora, J. L., Sewilo, M., Tielens, A. G. G. M., Werner, M., and Wolfire, M. G., *ApJ* **694** 84 (2009)
59. *The Spitzer Infrared Nearby Galaxies Survey: A High-Resolution Spectroscopy Anthology*, Dale, D. A., **Smith, J. D. T.**, Schlawin, E. A., Armus, L., Buckalew, B. A., Cohen, S. A., Helou, G., Jarrett, T. H., Johnson, L. C., Moustakas, J., Murphy, E. J., Roussel, H., Sheth, K., Staudaher, S., Bot, C., Calzetti, D., Engelbracht, C. W., Gordon, K. D., Hollenbach, D. J., Kennicutt, R. C., & Malhotra, S., *ApJS*, **695** 1821 (2009)
58. *Spitzer Spectral Mapping of Supernova Remnant Cassiopeia A*, **Smith, J. D. T.**, Rudnick, Lawrence, Delaney, Tracey, Rho, Jeonghee, Gomez, Haley, Kozasa, Takashi, Reach, William, & Isensee, Karl, *ApJ* **693** 313 (2009)
57. *New Young Brown Dwarfs in the Orion Molecular Cloud 2/3 Region*, Peterson, Dawn E., Megeath, S. T., Luhman, K. L., Pipher, J. L., Stauffer, J. R., Barrado y Navascus, D., Wilson, J. C., Skrutskie, M. F., Nelson, M. J., & **Smith, J. D.**, *ApJ* **685** 313 (2008)
56. *The Behavior of the Aromatic Features in M101 H II Regions: Evidence for Dust Processing*, Gordon, Karl D., Engelbracht, Charles W., Rieke, George H., Misselt, K. A., **Smith, J.-D. T.**, Kennicutt, Robert C., Jr., *ApJ* **682** 336 (2008)

55. *Metallicity Effects on Dust Properties in Starbursting Galaxies*, Engelbracht, C. W., Rieke, G. H., Gordon, K. D., **Smith, J.-D. T.**, Werner, M. W., Moustakas, J., Willmer, C. N. A., & Vanzi, L., *ApJ* **678** 804 (2008)
54. *Spitzer Space Telescope Infrared Spectrograph mapping of the central kpc of Centaurus A*, Quillen, Alice C., Bland-Hawthorn, Joss, Green, Joel D., **Smith, J. D.**, Prasad, D. Amelia, Alonso-Herrero, Almudena, Cleary, Kieran, Brookes, Mairi H., & Lawrence, Charles R., *MNRAS* **384** 1469 (2008)
53. *Spatially Resolved Spitzer IRS Spectroscopy of the Central Region of M82*, Beiro, P., Brandl, B. R., Appleton, P. N., Groves, B., Armus, L., Frster Schreiber, N. M., **Smith, J. D.**, Charmandaris, V., & Houck, J. R., *ApJ* **676** 304 (2008)
52. *Warm Molecular Gas in M51: Mapping the Excitation Temperature and Mass of H<sub>2</sub> with the Spitzer Infrared Spectrograph*, Brunner, Gregory, Sheth, Kartik, Armus, Lee, Wolfire, Mark, Vogel, Stuart, Schinnerer, Eva, Helou, George, Dufour, Reginald, **Smith, John-David**, Dale, Daniel A., *ApJ* **675** 316 (2008)
51. *Freshly Formed Dust in the Cassiopeia A Supernova Remnant as Revealed by the Spitzer Space Telescope*, Rho, J., Kozasa, T., Reach, W. T., **Smith, J. D.**, Rudnick, L., DeLaney, T., Ennis, J. A., Gomez, H., & Tappe, A., *ApJ* **673** 271 (2008)
50. *Star Formation in NGC 5194 (M51a). II. The Spatially Resolved Star Formation Law*, Kennicutt, Robert C., Jr., Calzetti, Daniela, Walter, Fabian, Helou, George, Hollenbach, David J., Armus, Lee, Bendo, George, Dale, Daniel A., Draine, Bruce T., Engelbracht, Charles W., Gordon, Karl D., Prescott, Moire K. M., Regan, Michael W., Thornley, Michele D., Bot, Caroline, Brinks, Elias, de Blok, Erwin, de Mello, Dulia, Meyer, Martin, Moustakas, John, Murphy, Eric J., Sheth, Kartik, & **Smith, J. D. T.**, *ApJ* **671** 333 (2007)
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