

Curriculum Vitæ

Gregory C. Sloan

STScI Scientist, Space Telescope Science Institute
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Highlights

- Awarded over \$2.2 million in funding.
- Published 155 refereed papers, with over 11,000 citations (Hirsch index = 60).
- Expert on complex organics and dust in interstellar and circumstellar environments.
- Member of an international collaboration studying dust formation and mass loss from evolved stars.
- A leader in the calibration of the *James Webb Space Telescope* and previous infrared space missions.
- Seasoned teacher, of both physics and astronomy, introductory and advanced, at several universities.

Education

- Ph.D. Physics** (Astrophysics Program), University of Wyoming 1992
Spatially Resolved 10 Micron Spectra of Circumstellar Material around Evolved Stars
Research advisors: Ron Canterna and Gary Grasdalen.
- B.A. Physics and Astronomy**, Northwestern University 1985

Research Experience

- Support Scientist and STScI Scientist**, Space Telescope Science Institute 2016-present
Supporting the Mid-Infrared Instrument (MIRI) on the *James Webb Space Telescope (JWST)*.
Coordinating *JWST* and MIRI calibration, lead for the Low-Resolution Spectrometer.
- Research Associate and Senior Research Associate**, Cornell University 2001-2017
Member of the *Spitzer*/Infrared Spectrograph team under Jim Houck. Led Cornell's calibration and involved in many science projects, including studying evolved stars in Local Group galaxies.
- Senior Astronomer**, Boston College 2000-2002
Produced a calibrated spectral atlas from the *Infrared Space Observatory* with Steve Price.
- NSF International Research Fellow**, Australian Defence Force Academy 1997-1998
Studied mass loss and dust formation in evolved stars with Craig Smith.
- National Research Council Associate**, NASA Ames Research Center 1994-1997
Studied organic molecules in the interstellar medium with Jesse Bregman.
- Geophysics Scholar and Phillips Laboratory Scholar**, Air Force Phillips Lab. 1992-1994
Used spectra from the *Infrared Astronomical Satellite* to study dust formed by dying stars.
- Research Assistant**, University of Wyoming 1986-1991
Developed the data acquisition system for the first long-slit infrared spectrometer and used it to study spectral properties and morphology of circumstellar dust under Gary Grasdalen.

Funding Awards

● <i>James Webb Space Telescope</i> observing awards, \$213,000	2022-present
● NASA Astrophysics and Data Analysis Program, \$573,000	2019-present
● SOFIA observing awards, \$98,000	2015-present
● National Science Foundation, Astrophysics Division, \$469,000	2011-2016
● NASA Astrophysics and Data Analysis Program, \$537,000	2009-2017
● <i>Spitzer Space Telescope</i> observing awards, \$276,000	2004-2010
● National Science Foundation International Research Fellowship	1997-1998
● National Research Council Fellowship	1994-1997
● Geophysics and Phillips Laboratory Scholar Fellowships	1992-1994

Teaching Experience

Visiting Lecturer , University of North Carolina at Chapel Hill Introductory survey of planetary astronomy.	2016
Visiting Lecturer , Cornell University Introductory survey of planetary astronomy, advanced course in stellar and galactic astrophysics.	2009-2011
Lecturer , Ithaca College Introductory survey of planetary astronomy, taught in a SCALE-UP classroom.	2006-2007
Senior Instructor , Virginia Polytechnic Institute and State University General physics, both with and without calculus.	1999-2000
Visiting Lecturer , University of New England, Australia Introduction to astronomy.	1996-1998
Visiting Instructor , University of Montana Introduction to astronomy.	1991
Instructor and Teaching Assistant , University of Wyoming Introduction to astronomy, teaching assistant for several astronomy and physics courses.	1985-1991

Mentoring Experience

Mentored seven summer students and six undergraduates at Cornell and UNC and published eight refereed papers with them. Supervised two post-doctoral research associates.

Public Outreach

Extensive outreach efforts include a children's book, appearances on radio and television, public lectures, teacher workshops, enrichment courses at schools, star parties and eclipse viewing.

Astronomy Service and Associations

Proposal reviewer for NASA, the NSF, *Spitzer Space Telescope*, UKIRT, CFHT, and Subaru. Referee for 33 submitted papers for five astronomy and optics journals. External examiner for one Ph.D. dissertation. Member, International Astronomical Union and American Astronomical Society.

Refereed Publications

As of 29 March, 2024, 155 refereed papers published (26 as first author), plus one in press and two submitted.

158. Kraemer, K.E., **Sloan, G.C.**, Kuchar, T.A., & Ramirez, R. 2024, “The dustiest Galactic S stars: Mid-infrared spectra from SOFIA/FORCAST,” *AAS journals*, submitted.
157. Dicken, D., Garcia Marin, M., Shivaiei, I., et al. 2024 (40 authors, including **G.C. Sloan**), “JWST MIRI flight performance: Imaging,” *A&A*, submitted.
156. Worthen, K., Chen, C.H., Law, D.R., et al. 2024, (18 authors, including **G.C. Sloan**), “MIRI MRS observations of beta Pictoris. I. The inner disk, the planet, and the gas,” *ApJ*, in press.
155. Kuchar, T.A., **Sloan, G.C.**, Mizuno, D.R., et al. 2024, “SMC-Last extracted photometry,” *AJ*, **167**, 149.
154. Jones, O.C., Alvarez-Marquez, J., **Sloan, G.C.**, et al. 2023, “Observations of the planetary nebula SMP LMC 058 with the JWST MIRI Medium Resolution Spectrometer,” *MNRAS*, **523**, 5219.
153. Morrison, J.E., Dicken, D., Agyriou, I., et al. 2023, (24 authors, including **Sloan, G.C.**), “JWST MIRI flight performance: Detector effects and data reduction algorithms,” *PASP*, **135**.
152. Gardner, J.P., Mather, J.C., Abbot, R., et al. 2023 (1008 authors, including **Sloan, G.C.**), “The James Webb Space Telescope Mission,” *PASP*, in press.
151. Gasman, D., Argyriou, I., **Sloan, G.C.**, et al. 2023, “JWST MIRI/MRS in-flight absolute flux calibration and tailored fringe correction for unresolved sources,” *A&A*, **673**, 102.
150. Wright, G.S., Rieke, G.H., Glasse, A. et al. 2023 (102 authors, including **Sloan, G.C.**), “The Mid-infrared Instrument for JWST and its in-flight performance,” *PASP*, **135**, 48003.
149. Rigby J., Perrin, M., McElwain, M., et al. 2023 (626 authors, including **Sloan, G.C.**), “The science performance of JWST as characterized in commissioning,” *PASP*, **135**, 48001.
148. Bouwman, J., Kendrew, S., Greene, T.P., et al. 2023 (24 authors, including **Sloan, G.C.**), “Spectroscopic time series performance of the Mid-infrared Instrument on the JWST,” *PASP*, **135**, 38002.
147. Kraemer, K.E., Engelke, C.W., Renger, B.A., & **Sloan, G.C.** 2022, “Tying Spitzer’s IRS calibration to IRAC: Observations of IRS standard stars,” *AJ*, **164**, 161.
146. Jensen, P.A., Shannon, M.J., Peeters, E., **Sloan, G.C.**, & Stock, D.J., 2020, “The aliphatic bands associated with polycyclic aromatic hydrocarbons,” *A&A*, submitted.
145. Mizuno, D.R., Kraemer, K.E., Kuchar, T.A., & **Sloan, G.C.**, et al. 2022, “SMC-Last mosaic images,” *PASP*, **134**, 4101.

Refereed Publications (continued)

144. Lu, C.X., Chen, C.H., Sargent, B.A., Watson, D.M., Lisse, C.M., Green, J.D., Sitko, M.L., Mittal, T., **Sloan, G.C.**, Lebouteiller, V., Rebolido, I., Hines, D.C., Werner, M.W., & Stepelfeldt, K.R. 2022, “Trends in silicates in the β Pictoris disk,” *ApJ*, **933**, 54.
143. Gordon, K.D., Bohlin, R., **Sloan, G.C.**, et al. 2022, “The James Webb Space Telescope absolute flux calibration. I. Program design and calibrator stars,” *AJ*, **163**, 267.
142. Scicluna, P., et al. (91 authors, including **Sloan, G.C.**) 2022, “The Nearby Evolved Stars Survey II: Constructing a volume-limited sample and first results from the James Clerk Maxwell Telescope,” *MNRAS*, **512**, 1091.
141. Mullally, S.E., **Sloan, G.C.**, Hermes, J.J., Kunz, M., Hambleton, K., Bohlin, R., Fleming, S.W., Gordon, K.D., Kaleida, C., & Mohamed, K. 2022, “Searching for TESS photometric variability of possible JWST spectrophotometric standard stars,” *AJ*, **163**, 136.
140. Rieke, G.H., Su, K., **Sloan, G.C.**, & Schlawin, E. 2022, “Infrared absolute calibration I: Comparison of Sirius with fainter calibration stars,” *AJ*, **163**, 45.
139. Bhardwaj, A., Rejkuba, M., **Sloan, G.C.**, Marconi, M., & Yang, S.-C. 2021, “Optical and near-infrared pulsation properties of RR Lyrae and Population II Cepheid variables in the Messier 15 globular cluster,” *ApJ*, **922**, 20.
138. Volk, K., **Sloan, G.C.**, & Kraemer, K.E. 2020, “The 21 μ m and 30 μ m emission features in carbon-rich objects,” *ApSS*, **365**, 88.
137. Kraemer, K.E., **Sloan, G.C.**, Keller, L.D., McDonald, I., Zijlstra, A.A., & Groenewegen, M.A.T. 2019, “Stellar pulsation and the production of dust and molecules in Galactic carbon stars,” *ApJ*, **887**, 82.
136. Goldman, S.R., Boyer, M.L., McQuinn, K.B.W., **Sloan, G.C.**, McDonald, I., van Loon, J.Th., Zijlstra, A.A., Hirschauer, A.S., Skillman, E.D., & Srinivasan, S. 2019, “AGB stars in the nearby dwarf galaxy Leo P,” *ApJ*, **884**, 152.
135. Keller, L.D., **Sloan, G.C.**, Oliveira, J.M., Kraemer, K.E., van Loon, J.Th., Wood, P.R., Zijlstra, A.A., Simon, J.D., Ferreira, R., Garay-MacLean, M., Hyatt, J.T., Geidel, K., Quinn, J., & Santoro, D. 2019, “Identification of Herbig AeBe stars in the Small Magellanic Cloud,” *ApJ*, **878**, 147.
134. Gladkowski, M., Szczerba, R., **Sloan, G.C.**, Lagadec, E., & Volk, K. 2019, “The 30 micron sources of in galaxies with different metallicities,” *A&A*, **626**, 92
133. Goldman, S.R., Boyer, M.L., McQuinn, K.B.W., Whitelock, P.A., McDonald, I., van Loon, J.Th., Skillman, E.D., Gehrz, R.D., Javadi, A., **Sloan, G.C.**, Jones, O.C., Groenewegen, M.A.T., & Menzies, J. W., 2019, “An infrared census of DUST in Nearby Galaxies with *Spitzer* (DUSTiNGS). V. The period-luminosity relation for dusty metal-poor AGB stars,” *ApJ*, **877**, L85.

Refereed Publications (continued)

132. McDonald, I., Boyer, M., Groenewegen, M.A.T., Lagadec, E., Richards, A.M. S., **Sloan, G.C.**, & Zijlstra, A.A. 2019, “Circumstellar CO in metal-poor stellar winds: The highly irradiated globular cluster star 47 Tucanae V3,” *MNRAS*, **484**, L85.
131. Hankins, M.J., Herter, T.L., Maercker, M., Lau, R.M., & **Sloan, G.C.** 2018, “An infrared study of the circumstellar material associated with the carbon star R Sculptoris,” *ApJ*, **852**, 27.
130. Groenewegen, M.A.T., & **Sloan, G.C.** 2017, “Luminosities and mass-loss rates of Local Group AGB stars and red supergiants,” *A&A*, **609**, 114.
129. Boyer, M.L., McQuinn, K.B.W., Groenewegen, M.A.T., Zijlstra, A.A., Whitelock, P.A., van Loon, J.Th., Sonneborn, G., **Sloan, G.C.**, Skillman, E.D., Meixner, M., McDonald, I., Jones, O., Javadi, A., Gehrz, R.D., Britavskiy, N., & Bonanos, Z., 2017, “An infrared census of Dust in Nearby Galaxies with *Spitzer* (DUSTINGS). IV. Discovery of high-redshift AGB analogs,” *ApJ*, **851**, 152.
128. **Sloan, G.C.** 2017, “Carbon-rich dust from the asymptotic giant branch to planetary nebulae,” *Planet. Space Sci.*, **139**, 32. (Invited review)
127. Jones, O.C., Woods, P.M., Kemper, F., Kraemer, K.E., **Sloan, G.C.**, Srinivasan, S., Oliveira, J.M., van Loon, J.Th., Boyer, M.L., Sargent, B.A., McDonald, I., Meixner, M., Zijlstra, A.A., Ruffle, P.M.E., Lagadec, E., Pauly, T., Sewilo, M., Clayton, G.C., & Volk, K. 2017 “The SAGE-Spec *Spitzer* Legacy program: The life-cycle of dust and gas in the Large Magellanic Cloud. Point source classification III.,” *MNRAS*, **470**, 3250.
126. Kraemer, K.E., **Sloan, G.C.**, Wood, P.R., Jones, O.C., & Egan M.P. 2016, “Characterizing the population of bright infrared sources in the Small Magellanic Cloud,” *ApJ*, **834**, 185.
125. McQuinn, K.B.W., Boyer, M.L., Mitchell, M.B., Skillman, E.D., Gehrz, R.D., Groenewegen, M.A.T., McDonald, I., **Sloan, G.C.**, van Loon, J.Th., Whitelock, P.A., & Zijlstra, A.A. 2016, “DUSTINGS III: Distribution of intermediate-age and old stellar populations in disks and outer extremities of dwarf galaxies,” *ApJ*, **835**, 78.
124. Groenewegen, M.A.T. Vlemmings, W.H.T., Marigo, P., **Sloan, G.C.**, et al. (23 coauthors) 2016, “The ALMA detection of CO rotational line emission in AGB stars in the Large Magellanic Cloud,” *A&A*, **596**, 50.
123. **Sloan, G.C.**, Kraemer, K.E., McDonald, I., Groenewegen, M.A.T., Wood, P.R., Zijlstra, A.A., Lagadec, E., Boyer, M.L., Kemper, F., Matsuura, M., Sahai, R., Sargent, B.A., Srinivasan, S., van Loon, J.Th., & Volk, K. 2016, “The infrared spectral properties of Magellanic carbon stars,” *ApJ*, **826**, 44.
122. McDonald, I., Zijlstra, A.A., **Sloan, G.C.**, Lagadec, E., Johnson, C.I., Uttenthaler, S., Jones, O.C., & Smith, C.L. 2016, “EU Del: Exploring the onset of pulsation-driven winds in giant stars,” *MNRAS*, **456**, 4542.
121. Stewart, P.N., Tuthill, P.G., Nicholson, P.D., **Sloan, G.C.**, & Hedman, M.W. 2015, “An atlas of bright star spectra in the near infrared from *Cassini-VIMS*,” *ApJ Supplement*, **221**, 30.

Refereed Publications (continued)

120. McDonald, I., Zijlstra, A.A., Lagadec, E., **Sloan, G.C.**, Boyer, M.L., Matsuura, M., Smith, R.J., Smith, C.L., Yates, J.A., van Loon, J.Th., Jones, O.C., Ramstedt, S., Avison, A., Justtanont, K., Olofsson, H., Blommaert, J.A.D.L., Goldman, S.R., & Groenewegen, M.A.T. 2015, “ALMA reveals sunburn: CO dissociation around AGB stars in the globular cluster 47 Tucanae,” *MNRAS*, **453**, 4324.
119. **Sloan, G.C.**, Goes, C.W., Ramirez, R.M., Kraemer, K.E., & Engelke, C.W. 2015, “Infrared spectral properties of M giants,” *ApJ*, **811**, 45.
118. Ruffle, P.M.E., Kemper, F., Jones, O.C., **Sloan, G.C.**, Kraemer, K.E., Woods, P.M., Boyer, M.L., Srinivasan, S., Antoniou, V., Lagadec, E., Matsuura, M., McDonald, I., Oliveira, J.M., Sargent, B.A., Seweilo, M., Szczerba, R., van Loon, J.Th., Volk, K., & Zijlstra, A.A. 2015, “*Spitzer* Infrared Spectrograph point source classification in the Small Magellanic Cloud,” *MNRAS*, **451**, 3504.
117. Guzman-Ramirez, L., Lagadec, E., Wesson, R., Müller, A., Jones, D., Boffin, H.M.J., **Sloan, G.C.**, Redman, M.P., Smetta, A., Karakas, A., & Nyman, L.-Å. 2015, “The emergence of a carbon star,” *MNRAS*, **451**, L1.
116. Lebouteiller, V., Barry, D.J., Goes, C., **Sloan, G.C.**, Spoon, H.W.W., Weedman, D.W., Bernard-Salas, J., & Houck, J.R. 2015, “CASSIS: The Cornell Atlas of *Spitzer*/Infrared Spectrograph Sources. II. High-resolution observations,” *ApJ Suppl.*, **218**, 21.
115. Boyer, M.L., McQuinn, K.B.W., Barmby, P., Bonanos, A.Z., Gehrz, R.D., Gordon, K.D., Groenewegen, M.A.T., Lagadec, E., Lennon, D., Marengo, M., McDonald, I., Meixner, M., Skillman, E., **Sloan, G.C.**, Sonneborn, G., van Loon, J.Th., & Zijlstra, A., 2015, “An infrared spectral census of dust in nearby galaxies with *Spitzer* (DUSTINGS). II. Discovery of metal-poor dusty AGB stars,” *ApJ*, **800**, 51.
114. Boyer, M.L., McQuinn, K.B.W., Barmby, P., Bonanos, A.Z., Gehrz, R.D., Gordon, K.D., Groenewegen, M.A.T., Lagadec, E., Lennon, D., Marengo, M., Meixner, M., Skillman, E., **Sloan, G.C.**, Sonneborn, G., van Loon, J.Th., & Zijlstra, A., 2015, “An infrared spectral census of dust in nearby galaxies with *Spitzer* (DUSTINGS). I. Overview,” *ApJ Suppl.*, **216**, 10.
113. **Sloan, G.C.**, Herter, T.L., Charmadaris, V., Sheth, K., Burgdorf, M., & Houck, J.R. 2015, “Spectral calibration in the mid-infrared: Challenges and solutions,” *AJ*, **149**, 11.
112. **Sloan, G.C.**, Lagadec, E., Zijlstra, A.A., Weis, A.P., Matsuura, M., Volk, K., Peeters, E., Duley, W.W., Cami, J., Bernard-Salas, J., Kemper, F., & Sahai, R. 2014, “Carbon-rich dust past the asymptotic giant branch: Aliphatics, aromatics, and fullerenes in the Magellanic Clouds,” *ApJ*, **791**, 28.
111. Jones, O.C., Kemper, F., Srinivasan, S., McDonald, I., **Sloan, G.C.**, & Zijlstra, A.A., 2014, “Modelling the alumina abundance of oxygen-rich evolved stars in the Large Magellanic Cloud,” *MNRAS*, **440**, 631.
110. McDonald, I., Zijlstra, A.A., **Sloan, G.C.**, Kerins, E., Lagadec, E., & Minniti, D. 2014, “VISTA variables in the Sagittarius dwarf spheroidal galaxy,” *MNRAS*, **439**, 2618.

Refereed Publications (continued)

109. Matsuura, M., et al. (29 authors, including **Sloan, G.C.**) 2014, “*Spitzer Space Telescope* spectra of post-AGB stars in the Large Magellanic Cloud — polycyclic aromatic hydrocarbons at low metallicities,” *MNRAS*, **439**, 1472.
108. McDonald, I., Zijlstra, A.A., **Sloan, G.C.**, Kerins, E., Lagadec, E., Minniti, D., Gurovich, S., Dominguez Romero, M.J.de L., & Santucho, V. 2013, “VISTA’s view of the Sgr dSph galaxy and southern Galactic Bulge,” *MNRAS*, **436**, 413.
107. Adams, J.J., Simon, J.D., Bolatto, A.D., **Sloan, G.C.**, Sandstrom, K.M., Schmiedeke, A., van Loon, J.Th., Oliveira, J.M., & Keller, L.D. 2013, “Dusty OB stars in the Small Magellanic Cloud - II: Extragalactic disks or examples of the Pleiades phenomenon?” *ApJ*, **771**, 112.
106. Oliveira, J.M., van Loon, J.Th., **Sloan, G.C.**, Sewilo, M., Kraemer, K.E., Wood, P.R., Indebetouw, R., Filipovic, M.D., Crawford, E.J., Wong, G.F., Hora, J.L., Meixner, M., Robitaille, T., Shiao, B., & Simon, J.D. 2013, “Early-stage young stellar objects in the Small Magellanic Cloud,” *MNRAS*, **428**, 3001.
105. Jones, O.C., Kemper, F., Sargent, B.A., McDonald, I., Gielen, C., Woods, P.M., **Sloan, G.C.**, Boyer, M.L., Zijlstra, A.A., Clayton, G.C., Kraemer, K.E., Ruffle, P.M.E., & Srinivasan, S. 2012, “On the metallicity dependence of crystalline silicates in oxygen-rich AGB and RSG stars,” *MNRAS*, **427**, 3209.
104. Lagadec, E., **Sloan, G.C.**, Zijlstra, A.A., Maun, N., & Houck, J.R. 2012, “SiC dust in metal-poor carbon stars in the Galactic Halo,” *MNRAS*, **427**, 2588.
103. Lebouteiller, V., **Sloan, G.C.**, Groenewegen, M.A.T., Matsuura, M., Riebel, D., Whelan, D.G., Bernard-Salas, J., Massey, P., & Bayet, E. 2012, “Oxygen-rich dust production in IC 10,” *A&A*, **546**, 94.
102. Smolders, K., Verhoelst, T., Neyskens, P., Blommaert, J.A.D.L., Decin, L., Van Winckel, H., Van Eck, S., **Sloan, G.C.**, Cami, J., Hony, S., de Cat, P., Menu, J., & Vos, J. 2012, “Detection of a new TiO emission band in the infrared spectrum of the S-type AGB star NP Aurigae,” *A&A*, **543**, L2.
101. **Sloan, G.C.**, Matsuura, M., Lagadec, E., van Loon, J.Th., Kraemer, K.E., McDonald, I., Groenewegen, M.A.T., Wood, P.R., Bernard-Salas, J., & Zijlstra, A.A. 2012, “Carbon-rich dust production in metal-poor galaxies in the Local Group,” *ApJ*, **752**, 140.
100. Smolders, K., et al. (31 authors, including **Sloan, G.C.**) 2012, “The *Spitzer* spectroscopic survey of S-type stars,” *A&A*, **540**, 72.
99. Boyer, M.L., Srinivasan, S., Riebel, D., McDonald, I., van Loon, J.Th., Clayton, G.C., Gordon, K.D., Meixner, M., Sargent, B.A., & **Sloan, G.C.** 2012, “The dust budget of the SMC: Are AGB stars the primary dust source at low metallicity?” *ApJ*, **748**, 40.
98. McDonald, I., van Loon, J.Th., **Sloan, G.C.**, Dupree, A.K., Zijlstra, A.A., Boyer, M.L., Gehr, R.D., Evans, A., Woodward, C.E., & Johnson, C.I. 2011, “*Spitzer* spectra of evolved stars in omega Centauri and their low-metallicity dust production,” *MNRAS*, **417**, 20.

Refereed Publications (continued)

97. Gielen, C., Bouwman, J., Van Winckel, H., Lloyd Evans, T., Woods, P.M., Kemper, F., Marengo, M., Meixner, M., **Sloan, G.C.**, & Tielens, A.G.G.M. 2011, "Silicate features in Galactic and extragalactic post-AGB discs," *A&A*, **533**, 99.
96. Lebouteiller, V., Barry, D.J., Spoon, H.W.W., Bernard-Salas, J., **Sloan, G.C.**, Houck, J.R., & Weedman, D. 2011, "CASSIS: The Cornell Atlas of *Spitzer*/IRS Spectra," *ApJ Suppl.*, **196**, 8.
95. Volk, K., Hrivnak, B.J., Matsuura, M., Bernard-Salas, J., Szczerba, R., **Sloan, G.C.**, Kraemer, K.E., Kemper, F., Woods, P.M., Zijlstra, A.A., Meixner, M., Gordon, K.D., Tielens, A.G.G.M., Indebetouw, R., van Loon, J.Th., Gruendl, R.A., Sahai, R., & Maringo, M. 2011, "Discovery and analysis of 21 μm feature sources in the Magellanic Clouds," *ApJ*, **735**, 127.
94. Hony, S., Kemper, F., Woods, P.M., van Loon, J.Th., Gorjian, V., Madden, S.C., Zijlstra, A.A., Gordon, K.D., Indebetouw, R., Marengo, M., Meixner, M., Shiao, B., **Sloan, G.C.**, Mullaney, J., & Tielens, A.G.G.M. 2011, "The *Spitzer* discovery of an entirely AGN dominated galaxy," *A&A*, **531**, 137.
93. **Sloan, G.C.**, Hony, S., Smolders, K., Decin, L., Zijlstra, A.A., Feast, M.W., van Wyk, F., van Loon, J.Th., Groenewegen, M.A.T., & Sahai, R. 2011, "The identification of SiS emission at 13-14 μm in the infrared spectra of Galactic S stars," *ApJ*, **729**, 121.
92. Woods, P.M., et al. (58 authors, including **Sloan, G.C.**) 2011, "The SAGE-Spec *Spitzer* legacy program: The life-cycle of dust and gas in the Large Magellanic Cloud. Point source classification I," *MNRAS*, **411**, 1597.
91. van Breemen, J.M., Min, M., Chiar, J.E., Waters, L.B.F.M., Kemper, F., Boogert, A.C.A., Cami, J., Decin, L., Knez, C., **Sloan, G.C.**, & Tielens, A.G.G.M. 2011, "The 9.7 and 18 μm silicate absorption profiles towards diffuse molecular cloud lines of sight," *A&A*, **526**, 152.
90. Oliveira, J.M., van Loon, J.Th., **Sloan, G.C.**, Gordon, K.D., Indebetouw, R., Kemper, F., Marengo, M., Meixner, M., Simon, J.D., Tielens, A.G.G.M., & Woods, P.M. 2011, "Ice chemistry in massive young stellar objects: The role of metallicity," *MNRAS*, **411**, L36.
89. Srinivasan, S., Sargent, B.A., Matsuura, M., Meixner, M., Kemper, F., Tielens, A.G.G.M., Volk, K., Speck, A.K., Woods, P.M., Gordon, K., Marengo, M., & **Sloan, G.C.** 2010, "The mass-loss return from evolved stars to the Large Magellanic Cloud. III. Dust properties for carbon-rich asymptotic giant branch stars," *A&A*, **524**, 49.
88. **Sloan, G.C.**, Matsunaga, N., Matsuura, M., Zijlstra, A.A., Kraemer, K.E., Wood, P.R., Nieusma, J., Bernard-Salas, J., Devost, D., & Houck, J.R. 2010, "*Spitzer* spectroscopy of mass loss and dust production by evolved stars in globular clusters," *ApJ*, **719**, 1274.
87. Boyer, M.L., et al. (22 authors, including **Sloan, G.C.**) 2010, "Cold dust in three massive evolved stars in the LMC," *A&A*, **518**, L142.
86. Otsuka, M., van Loon, J.Th., Long, K.S., Meixner, M., Matsuura, M., Reach, W.T., Roman-Duval, J., Gordon, K., Sauvage, M., Hony, S., Misselt, K., Engelbracht, C., Panuzzo, P., Okumura, K., Woods P.M., Kemper F., & **Sloan, G.C.** 2010, "Dust in the bright supernova remnant N49 in the LMC," *A&A*, **518**, L139.

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- Chen, C.H., Uchida, K.I., Bohac, C., Leisenring, J., Jura, M., Watson, D.M., Forrest, W.J., Sargent, B.A., **Sloan, G.C.**, Keller, L.D., & Najita, J. 2005, “IRS spectroscopy of dust around nearby, main sequence stars,” in *Protostars and Planets V, Proc. of the Conf., LPI Contribution 1286*, 8583 (Houston: LPI).
- Forrest, W.J., Sargent, B., D’Alessio, P., Calvet, N., Furlan, E., Hartmann, L., Uchida, K.I., **Sloan, G.C.**, Chen, C.H., Kemper, F., Watson, D.M., Green, J.D., Kim, K.H., Keller, L.D., Herter, T.L., Brandl, B.R., Houck, J.R., & Najita, J. 2005, “Grain processing in T Tauri disks,” in *IAU Symp. 231: Astrochemistry throughout the Universe: Recent Successes and Current Challenges*, ed. D.C. Lis, G.A. Blake, & E. Herbst, 110 (Cambridge, UK: Cambridge Univ. Press).
- Sloan, G.C.**, Herter, T.L., Charmandaris, V., Fajardo-Acosta, S.B., Burgdorf, M., & Armus, L. 2004, “Spectrophotometric standard stars for the Infrared Spectrograph on *Spitzer*,” *BAAS*, **36**, 1423.
- Little-Marenin, I.R., **Sloan, G.C.**, & Price, S.D. 2000, “Classification of dust emission features in carbon stars,” in *IAU Symp. 177: The Carbon Star Phenomenon*, ed. R.F. Wing, 559 (Cambridge, UK: Cambridge Univ. Press).

Select Abstracts (continued)

- Sloan, G.C.** & Goebel, J.H. 1997, “Spectral emission from oxygen-rich dust as seen by ISO,” *BAAS*, **29**, 1287.
- Sloan, G.C.**, Hayward, T.L., Bregman, J.D., & Allamandola, L.J. 1996, “Long-slit mid-infrared spectroscopy of PAH emission in the Orion Bar,” *BAAS*, **28**, 1417.
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- Roush, T.L., **Sloan, G.C.**, Bell, J.F., III, & Rowland, C.M. 1995, “Thermal infrared spectra of Mars obtained in 1988, 1990, and 1993,” *Workshop on Mars Telescope Observations, LPI Technical Report 95-05*, ed. J.F. Bell III & J.E. Moersch 23, (Houston: Lunar and Planetary Institute).
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- LeVan, P.D., **Sloan, G.C.**, & Little-Marenin, I.R. 1993, “Sources of the 13 μm feature associated with silicate dust,” *BAAS*, **25**, 877.
- Sloan, G.C.**, Tandy, P.C., Pirger, B.E., & Hodge, T.M. 1993, “Spatial structure in the infrared spectra of three evolved stars,” *BAAS*, **25**, 876.
- Sloan, G.C.** 1992, “Spatially resolved 10 μm spectra of circumstellar material around evolved stars,” *BAAS*, **24**, 1302.
- Sloan, G.C.**, Grasdalen, G.L., & LeVan, P.D. 1991, “The dust shell around α Orionis,” *BAAS*, **23**, 1386.
- LeVan, P.D., **Sloan, G.**, & Grasdalen, G.L. 1990, “Confirmation of silicate feature emission in the carbon star BM Geminorum,” *BAAS*, **22**, 817.
- LeVan, P.D., Tandy, P.C., & **Sloan, G.** 1988, “AFGL mosaic array spectrometer—Further measurements of circumstellar shells,” *BAAS*, **20**, 1104.

Select Colloquia, Seminars, and Presentations

- Observatorio Astronomico di Roma, colloquium, 7 November, 2023, “Carbon stars and dust in the Universe.”
- Illuminating the Dusty Universe: A Tribute to the Work of Bruce Draine, 30 October, 2023, “Infrared spectroscopy of carbon-rich dust from the AGB to planetary nebulae.”
- North Carolina Astronomy on Tap series, 5 April, 2023, “The flight of the *James Webb Space Telescope*.” (Public talk)

Select Colloquia, Seminars, and Presentations (continued)

- SOFIA Workshop on Evolved Stars and their Circumstellar Environments, 16 December, 2021, “Dust, pulsation, and metallicity in evolved stars.” (Invited review)
- NASA Ames Research Center, SOFIA Science Center colloquium, 13 October, 2021, “Carbon stars and dust.”
- North Carolina Astronomy on Tap series, 4 May 2021, “Introducing the *James Webb Space Telescope*.” (Virtual public talk)
- DELVE: The Death-throes of EvoLved stars, a Virtual Encounter, 15 April, 2021, “The final stages in the lives of carbon stars.”
- STScI, JWST Lunch, 9 December, 2020, “The surprising story of infrared spectrophotometric calibration.”
- Caltech, Celebrating the Legacy of the *Spitzer Space Telescope*, 11 February, 2020, “*Spitzer* spectroscopy of dust formation in the Local Group.”
- Boston College, Institute for Scientific Research, colloquium, 26 September, 2019, “Organic dust in the interstellar medium.”
- STScI Public Lecture Series, 7 August, 2018, “Ashes to ashes, dust to dust: The fate of stars like the Sun.”
- STScI Spring Symposium, The 21st Century H-R Diagram: The Power of Precision Photometry, 23 April, 2018, “Multi-epoch photometry, variability of red giants, and globular clusters.”
- American Chemical Society, Astrochemistry Symposium, 20 August, 2017, “Polycyclic aromatic hydrocarbons and related forms of interstellar carbon.” (Invited review)
- Science Enabled by Novel Infrared Instrumentation: A Workshop to Honor the Memory of J.R. Houck, 26 June, 2017, “Stellar and circumstellar spectroscopy in other galaxies.” (Invited review)
- NASA Ames Research Center, SOFIA Science Center colloquium, 1 February, 2017, “Complex organic molecules from carbon stars to planetary nebulae.”
- Univ. of North Carolina at Chapel Hill, seminar, 29 November, 2016, “Cool stellar atmospheres and the spectral calibration of the *Spitzer Space Telescope*.”
- Cornell Univ., seminar, 8 April, 2016, “Multi-epoch astronomy and the fates of intermediate-mass stars.”
- Northwestern Univ., seminar, 13 November, 2015, “Carbon-rich interstellar dust from fullerenes to aliphatics.”
- Cornell Univ., Becker/Rose Cafe, seminar, 18 November, 2015, “Was the trial of Galileo a case of science vs. religion?”

Select Colloquia, Seminars, and Presentations (continued)

Univ. of Toledo, department colloquium, 12 November, 2015, “The flavors of carbon-rich dust: From aliphatics to fullerenes.”

Univ. of North Carolina at Chapel Hill, seminar, 18 February, 2015, “Dust and metallicity: Stellar dust production in Local Group galaxies.”

Jodrell Bank Centre for Astrophysics, Manchester Univ., department colloquium, 5 November, 2014, “The story of carbon: From carbon stars to aromatic hydrocarbons and fullerenes.”

North Carolina State University, seminar, 22 September, 2014, “The dust budget crisis: Where does the dust in the Magellanic Clouds come from?”

National Radio Astronomy Observatory, Mega-SAGE Meeting, 5 September, 2014, “Infrared spectroscopy of Magellanic carbon stars.”

European Week of Astronomy and Space Science, invited talk, 4 July, 2014, “The role of AGB stars in dust production near and far.”

SOFIA Community Tele-talk Series, 26 February, 2014, “Carbon stars and dust production as a function of metallicity.”

Kopernik Obs. Winter Skies, 18 January, 2013, “This thing called science: An astronomer’s perspective.” (Public talk)

Univ. of Texas, department colloquium, 2 October, 2012, “Carbon stars and dust production in the Local Group.”

Univ. of Massachusetts, department colloquium, 27 September, 2012, “Carbon stars and dust production in metal-poor galaxies.”

Space Telescope Science Institute, Workshop on Mass-Loss Return from Stars to Galaxies, 29 March, 2012, “How stars die: Infrared spectroscopy of dusty carbon stars in the Local Group.”

Cornell Univ., department colloquium, 6 October, 2011, “How do stars die? A study of evolved stars in the Local Group.”

Dark Cosmology Centre in Copenhagen, seminar, 6 September, 2011, “The nature of interstellar organics.”

First Symposium at the Nicolaus Copernicus Astronomy Center, 31 August, 2011, “Dust and metallicity.”

Kopernik Observatory, 8 April, 2011, “Cutting-edge astronomy in the 21st century.” (Public talk)

Univ. of Scranton, seminar, 20 April, 2010, “Fun with space astronomy: Why NASA straps telescopes to rockets.”

Colgate Univ., department colloquium, 1 December, 2009, “The *Spitzer* view of dust formation in the Local Group and the distant Universe.”

Select Colloquia, Seminars, and Presentations (continued)

Wells College, department seminar, 23 October, 2009, “The *Spitzer Space Telescope* and the dusty Universe.”

Univ. of Illinois, department colloquium, 13 October, 2009, “The *Spitzer Space Telescope* and dust in the Local Group.”

Univ. of Wyoming, department colloquium, 18 September, 2009, “Dwarfs, globulars, and the early Universe: Infrared spectroscopy and the role of dust through time.”

Univ. of Colorado at Boulder, seminar, 17 September, 2009, “Complex organics and interstellar processing in and beyond the Galaxy.”

Denver Univ., seminar, 16 September, 2009, “Nearby dwarfs and clues about dust in the early Universe.”

Univ. of Rochester, department seminar, 16 March, 2009, “Dust in the primitive Universe: Clues from the Local Group and Milky Way.”

Cornell Univ., department colloquium, 22 January, 2009, “Clues about dust in the primitive Universe.”

Harvard-Smithsonian Center for Astrophysics, seminar, 22 May, 2008, “Dust production in primitive systems: The view from the *Spitzer Space Telescope*.”

Virginia Tech, seminar, 14 April, 2008, “Studying the enrichment of the Magellanic Clouds with the *Spitzer Space Telescope*.”

Cornell Univ., seminar, 4 April, 2008, “What do interstellar organics really look like?”

Royal Astronomical Society, presentation at a specialist discussion meeting, 8 February, 2008, “Distinguishing high-mass evolved stars in the Magellanic Clouds.”

Keele Univ., department colloquium, 6 February, 2008, “Interstellar organics: The view from the *Spitzer Space Telescope*.”

Kopernik Obs. Winter Star Party, 2 February, 2008, “NASA, Space Astronomy, and the *Spitzer Space Telescope*.” (Public talk)

Univ. of Missouri, department colloquium, 15 October, 2007, “Hydrocarbons in the interstellar medium: The view from the *Spitzer Space Telescope*.”

NASA Ames Research Center, seminar, 13 June, 2007, “*Spitzer* spectroscopy of unusual hydrocarbons in cool environments.”

Ithaca College, department colloquium, 16 March, 2007, “Organics in space: The view from the *Spitzer Space Telescope*.”

Eileen Collins Obs., Corning Community College, 7 April 2006, “Astronomy with the *Spitzer Space Telescope*.” (Public talk)

Select Colloquia, Seminars, and Presentations (continued)

- Cornell Univ., department colloquium, 23 February, 2006, “Dust formation in the Magellanic Clouds.”
- Leiden Univ., Workshop on *Spitzer’s* View on Mass-Losing AGB Stars, 28 November, 2005, “Infrared Spectra of Oxygen-rich Dust Shells around Evolved Stars in the Magellanic Clouds.”
- Rochester Institute of Technology, department colloquium, 24 October, 2005, “Infrared spectroscopy of mass ejected from evolved stars in the Magellanic Clouds.”
- Northwestern Univ, seminar, 22 September, 2005, “Infrared spectroscopy of mass ejected from evolved stars in the Magellanic Clouds.”
- Univ. of Manchester, seminar, 29 April, 2005, “Infrared spectra of circumstellar silicates and related grains.”
- The *Spitzer Space Telescope: New Views of the Cosmos*, poster, 9 November, 2004, “Infrared spectra of oxygen-rich dust shells around evolved stars in the Magellanic Clouds.”
- Spitzer* Calibration Workshop, 8 November, 2004, “Infrared spectrophotometric calibration.”
- Harvard-Smithsonian Center for Astrophysics, seminar, 16 May, 2001, “The nature of organic molecules in the interstellar medium.”
- Virginia Tech, department colloquium, 22 April, 1999, “The nature of organic molecules in the interstellar medium.”
- National Radio Astronomy Observatory, department colloquium, 1 April, 1999, “The nature of organic molecules in the interstellar medium.”
- Univ. of Canterbury, department seminar, 22 May, 1998, “The nature of organic molecules in the interstellar medium.”
- Joint Astronomy Centre, seminar, 5 May, 1998, “The nature of organic molecules in the interstellar medium.”
- Mount Stromlo and Siding Spring Observatories, seminar, 9 April, 1998, “The nature of organic molecules in the interstellar medium.”
- Australian Defence Force Academy, seminar, 12 September, 1997, “Emission from organic molecules in NGC 1333: Evidence for ionized PAHs.”
- Univ. of Washington, seminar, 5 March, 1997, “PAHs in the Orion Bar.”
- Australian Defence Force Academy, department seminar, 23 August, 1996, “Probing interstellar organics in the Orion Bar.”
- Anglo-Australian Observatory, seminar, 15 August, 1996, “A menagerie of dust shell spectra.”

Select Colloquia, Seminars, and Presentations (continued)

Univ. of New South Wales, seminar, 25 July, 1996, “The Orion Bar: The place to get your organic brew.”

Joint Astronomy Centre, seminar, 26 October, 1995, “PAH emission in extended sources”

NASA/Ames Research Center, seminar, 15 September, 1994, “The spatial structure of IRC +10216 as seen by a long-slit infrared spectrometer.”

Denver Univ., department colloquium, 24 May, 1994, “The evolution of dust shells around evolved giants.”

Univ. of Idaho, department colloquium, 14 April, 1994, “The evolution of dust shells around evolved giants.”

Denver Univ., seminar, 5 November, 1993, “The structure of the dust shell around IRC +10216.”