

# Tea Temim

## Personal Data

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Position: Research Astronomer  
 Institution: Princeton University  
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## Research Interests

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- Supernova explosions of massive stars
- Supernova remnants and pulsar wind nebulae
- Dust production and processing by supernovae
- Evolution of dust in galaxies
- Interstellar Medium

## Employment

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2021 - present Princeton University, Department of Astrophysical Sciences  
           Position: Research Astronomer  
 2016 - 2021 Space Telescope Science Institute  
           Position: STScI Scientist for the James Webb Space Telescope  
 2014 - 2016 NASA Goddard Space Flight Center,  
           University of Maryland College Park  
           Position: Research Associate  
 2010 - 2013 NASA Goddard Space Flight Center  
           Position: NASA Postdoctoral Fellow  
 2009 - 2010 Harvard-Smithsonian Center for Astrophysics  
           Position: Postdoctoral Researcher  
 2007 - 2009 Harvard-Smithsonian Center for Astrophysics  
           Position: Predoctoral Fellow  
           Advisor: Dr. Patrick Slane  
 2003 - 2007 University of Minnesota, Department of Astronomy  
           Position: Graduate Research Assistant  
           Advisor: Profs. Robert D. Gehrz and Charles E. Woodward  
 2002 - 2004 University of Minnesota, Department of Astronomy  
           Position: Teaching Assistant, Astronomy 1001 Exploring the Universe  
           Supervisor: Prof. John Dickey

## Education

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2009 Ph.D. Astrophysics, University of Minnesota  
           Thesis: Multi-wavelength Study of Pulsar Wind Nebulae and Supernova Remnants  
           Advisors: Dr. Patrick Slane (Harvard-Smithsonian CfA), Prof. Robert D. Gehrz,  
           Prof. Charles E. Woodward  
 2006 M.S. Astrophysics, University of Minnesota  
           Thesis: Spitzer Infrared Imaging and Spectroscopy of Supernova Remnants  
           Advisors: Prof. Robert D. Gehrz and Prof. Charles E. Woodward  
 2003 B.S. Physics, University of Minnesota, Institute of Technology  
 2003 B.S. Astrophysics, University of Minnesota, Institute of Technology

## Awards

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- 2009 NASA Postdoctoral Fellowship
- 2007 Smithsonian Astrophysical Observatory Predoctoral Fellowship
- 2004 NASA Space Grant Fellowship
- 2001 LaVerne and Ted Jones Astrophysics Scholarship, University of Minnesota

## Press Releases

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- 2017 HST [Press Release](#): Observatories Combine to Crack Open the Crab Nebula
- 2014 Chandra [Press Release](#): MSH 11-62 and G327.1-1.1: Supernova Shock Waves, Neutron Stars, and Lobsters (Slane et al. 2013, Temim et al. 2015)
- 2010 NASA/Chandra [Press Release](#): Ashes to Ashes, Dust to Dust: Chandra & Spitzer Observations of SNR G54.1+0.3 (Temim et al. 2010)
- 2010 NASA/Chandra [Press Release](#): Pushing the Envelope: Chandra Observation of SNR G327.1-1.1 (Temim et al. 2009)
- 2006 NASA [Press Release](#): Spitzer sees a “smoke-free” Crab (Temim et al. 2006)

## Professional Service

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- Organizer and co-chair of the 2020 COSPAR Session E1.2 The Remnants of Supernova Explosions
- Organizer and co-chair of the 2019 STScI Spring Symposium, The Deaths and Afterlives of Massive Stars
- Referee for numerous journal articles: ApJ, ApJL, A&A, Science, MNRAS
- Reviewer and co-chair on numerous NASA observing and theory proposal review panels
- Co-organizer of the joint Harvard-Smithsonian CfA and MIT: Neutron Stars and Supernova Remnants Seminar (2007-2010)
- Facilitator at the Chandra X-ray Observatory Proposal Peer Review

## Teaching & Public Outreach

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- 2013 Bringing Astronomy back to Bosnia & Herzegovina  
Astronomy summer school and outreach program
- 2009 Speaker at the 100 Hours of Astronomy: Around the World in 80 Telescopes  
Live webcast from ESO headquarters in Garching, Germany
- 2003-2006 Public Talk Series: Universe in the Park, University of Minnesota
- 2003-2005 Graduate Teaching Assistant  
Astronomy 1001: Exploring the Universe

## Recently Awarded Proposals

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- 2017 Castro et al., NASA Fermi Guest Investigator, Cycle 10 (co-I)  
Characterizing the Gamma-ray Emission from Pulsar Wind Nebulae with Fermi-LAT (\$57.0k)
- 2016 Temim et al., XMM-Newton AO-16 (PI)  
Understanding the Evolution of Composite SNRs: An XMM Study of MSH 15-56, 350 ks (\$80.3k)
- 2016 Temim et al., NuSTAR Cycle 2 (PI)  
Spectral Evolution of Crushed Pulsar Wind Nebulae, 75 ks (\$41.1k)
- 2016 Gelfand et al., NuSTAR Cycle 2 (co-I)  
The Initial Spin Period of PSR J1930+1852 in PWN G54.1+0.3, 80 ks
- 2016 Borkowski, Reynolds & Temim, SOFIA (co-I)  
tProbing Supernova Ejecta Dust with Stellar Lightbulbs: MID- IR Imaging of G54.1+0.3, 1.64 hr, (\$19.0k)
- 2015 Temim et al., Chandra X-ray Observatory proposal (PI)  
Chandra Observation of the Composite SNR MSH 15-56, 175 ks (\$66.9k)
- 2015 Slane et al., Chandra X-ray Observatory theory proposal (co-I)  
Modeling the Structure of Composite Supernova Remnants
- 2015 Temim et al., Suzaku X-ray Satellite, Cycle 10 proposal (PI)  
A Suzaku Observation of the MSH 15-56 Shell, 150 ks
- 2015 Laming et al., NASA Astrophysics Data Analysis Program (ADAP) proposal  
The Inner Ejecta and the Infrared Spectrum of Cassiopeia A (\$420.4k)
- 2014 Dwek & Temim, NASA Astrophysics Data Analysis Program (ADAP) proposal  
Supernova Remnants as Laboratories for Determining the Properties of Ejecta Dust and Processing of Dust Grain in Shocks (\$367.1k)
- 2013 Dwek et al., NASA Astrophysics Data Analysis Program (ADAP) proposal (Co-I)  
The Origin and Evolution of Dust in the Large Magellanic Cloud
- 2012 Romani et al., Very Large Chandra X-ray Observatory proposal (Co-I)  
A Legacy Study of the Relativistic Shocks of PWNe, 1300 ks
- 2012 Slane et al., Large Chandra X-ray Observatory proposal (Co-I)  
A Deep Chandra Observations of MSH 11-62, 375 ks
- 2011 Temim et al., Herschel Space Observatory proposal (PI)  
PACS Observations of Supernova Ejecta and Dust in the Composite Supernova Remnant Kes 75, 10.3 hr
- 2011 Meixner et al., Herschel Space Observatory proposal (Co-I)  
Atomic and Molecular Gas Observations of Supernova Remnants in the Magellanic Clouds, 10.9 hr
- 2011 Slane et al., Herschel Space Observatory proposal (Co-I)  
Uncovering Supernova Ejecta: Herschel Spectral Mapping of G21.5-0.9, 4.7 hr
- 2010 Temim et al., Herschel Space Observatory proposal (PI)  
Imaging and Spectroscopy of the Infrared Shell Surrounding the Pulsar Wind Nebula G54.1+0.3, 8.9 hr
- 2010 Katsuda et al. Chandra X-ray Observatory proposal (Co-I)  
Expansion Measurements of the Southwestern Rim of RCW86, 92 ks
- 2010 Slane et al., Large Chandra X-ray Observatory proposal (Co-I)  
Deep Chandra Observations of the Composite Supernova Remnant G327.1-1.1, 350 ks

## Invited Talks & Colloquia

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- Dec 2020 What Supernova Remnants Reveal about Stellar Explosions and their Progenitors  
Brown Bag Seminar, New York University
- Dec 2020 The James Webb Space Telescope: Science Goals and Capabilities  
Purdue University
- June 2019 Evolution of Pulsar Wind Nebulae Inside Supernova Remnants  
XMM Workshop: Astrophysics of Plasmas, Madrid, Spain
- June 2019 Supernovae as Drivers of Dust Evolution  
National Observatory of Athens, Astronomy Colloquium
- June 2019 Progenitor Properties of Composite Supernova Remnants  
Supernova Remnants: An Odyssey in Space After Stellar Death, Chania, Crete
- May 2019 Progenitors and Explosion Properties of Core-collapse Supernova Remnants  
Fifty-One Erg International Workshop, North Carolina State University
- Mar 2019 Probing the Properties of Supernova-formed Dust through Observations of Young PWNe  
Carnegie DTM, Astronomy Colloquium, Washington, DC
- Oct 2018 Supernova Science with JWST  
Astrophysics Seminar, Florida State University
- Oct 2018 Evolution of Pulsar Wind Nebulae Inside Supernova Remnants  
Astrophysics Seminar, Purdue University
- Apr 2018 Type Ia Supernovae in the mid-IR & JWST  
New advances in NIR Type Ia Supernova Science, University of Pittsburgh
- Mar 2017 Supernova Dust and Ejecta Around Pulsar Wind Nebulae  
SOFIA Community Tele-Talk Series
- Jan 2017 Transient Science with JWST in the mid-IR  
The Transient Universe with JWST Workshop, Harvard-Smithsonian CfA
- Dec 2016 Supernova Remnants, Pulsar Winds, and their Interaction with the ISM  
Penn State Astrophysics Colloquium
- Oct 2016 Supernovae as Drivers of Dust Evolution in Galaxies  
The Ohio State University CCAPP Seminar
- Aug 2016 Supernovae as Drivers of Dust Evolution in Galaxies  
The University of Vermont Physics Colloquium
- June 2016 Optical and Infrared Observations of Pulsar Wind Nebulae  
Workshop on Modeling Pulsar Wind Nebulae, Barcelona, Spain
- June 2016 Evolution of Pulsar Wind Nebulae Inside Supernova Remnants  
Supernova Remnants: An Odyssey in Space After Stellar Death, Chania, Greece
- Mar 2016 Supernova Remnants, Pulsar Winds, and their Impact on the ISM  
University of Wisconsin – Madison, Department of Astronomy Colloquium
- Oct 2015 Feedback from Supernova Remnants  
Feedback in the Magellanic Clouds Workshop, STScI
- May 2015 Evolution of Composite Supernova Remnants  
Princeton University Department of Astrophysical Sciences Seminar
- Apr 2015 Supernovae as Drivers of Dust Evolution in Galaxies  
Rutgers University Astronomy Group Seminar
- Apr 2015 Supernovae as Drivers of Dust Evolution in Galaxies  
Clemson University Department of Physics & Astronomy Colloquium
- Mar 2015 Supernovae as Drivers of Dust Evolution in Galaxies  
University of Michigan Department of Astronomy Colloquium
- Mar 2015 Supernovae as Drivers of Dust Evolution in Galaxies  
New York University (NYU) Astrophysics Seminar
- Dec 2014 Supernovae as Drivers of Dust Evolution in Galaxies  
New York University (NYU), Abu Dhabi, Astrophysics Seminar

- Sep 2014 Supernovae as Drivers of Dust Evolution in Galaxies  
United States Naval Observatory Colloquium, Washington, DC
- Dec 2013 Dust Emission in Supernova Remnants  
NASA Goddard Space Flight Center, Division Director's Seminar
- Nov 2013 Supernova Dust and Ejecta Illuminated by Pulsar Wind Nebulae  
George Washington University Astronomy Seminar
- Jul 2013 Supernova Ejecta and Dust Illuminated by Pulsar Wind Nebulae  
University of California at Berkeley Astronomy Department Seminar
- Jul 2013 Supernova Ejecta and Dust Illuminated by Pulsar Wind Nebulae  
Los Alamos National Laboratory, Los Alamos, NM
- May 2012 Freshly-formed Supernova Dust Illuminated by Pulsar Wind Nebulae  
Space Telescope Science Institute, CSM/ISM Journal Club
- Feb 2011 Freshly-formed Supernova Dust Illuminated by Pulsar Wind Nebulae  
NASA Goddard Space Flight Center Astrophysics Division Seminar
- May 2010 Multi-wavelength Observations of Composite Supernova Remnants  
NASA Goddard Space Flight Center SEAL Seminar
- May 2007 Infrared Observations of Supernova Remnants: Spitzer and Beyond  
Endpoints and Interactions: A Workshop On the Future of Supernova Remnant Research,  
Honolulu, HI

## Selected Conference Abstracts & Talks

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- Aug 2017 Supernova Ejecta and Dust Around Pulsar Wind Nebulae  
HotSci Talk, Space Telescope Science Institute
- Aug 2017 X-ray observations of the Crushed PWN and Rapidly Moving Pulsar in MSH 15-56  
American Astronomical Society, HEAD meeting #16, Sun Valley, ID
- Aug 2017 Supernova Ejecta and Dust Around Pulsar Wind Nebulae  
Hot Sci Talk, Space Telescope Science Institute
- Jun 2015 Deep Chandra Observations and Hydrodynamic Modeling of SNR G327.1-1.1  
FOE, International Workshop on SNRs, North Carolina State University
- Nov 2014 Deep Chandra Observations of the Composite Supernova Remnant G327.1-1.1  
Fifteen Years of Science with Chandra Symposium, Boston, MA
- Sep 2014 Supernovae as Drivers of Dust Evolution in Galaxies  
Harvard-Smithsonian Center for Astrophysics OIR Seminar
- Sep 2014 Dust Destruction by Supernova Remnants in the Magellanic Clouds  
Talk at the Mega-SAGE Workshop at NRAO, Charlottesville, VA
- Aug 2014 Dust Destruction by Supernova Remnants in the Magellanic Clouds  
Talk at the Supernovae in the Local Universe Conference, Coffs Harbour, Australia
- Aug 2013 Multi-wavelength Observations of Pulsar Wind Nebulae Evolving inside SNRs  
Talk at the Supernovae and Gamma-Ray Bursts Workshop, Yukawa Institute for Theoretical  
Physics, Kyoto University
- Sep 2013 Dust Destruction by Supernova Remnants in the Magellanic Clouds  
Talk at the MEGA-Sage Workshop, Max Planck Institute for Astronomy
- May 2013 Supernova Ejecta and Dust Illuminated by Pulsar Wind Nebulae  
Talk at the XMM-Newton Workshop on Energetic Phenomena in Isolated Neutron Stars, Pulsar  
Wind Nebulae and Supernova Remnants, ESAC, Madrid, Spain
- Nov 2012 Supernova Dust Illuminated by Pulsar Wind Nebulae  
Talk at the Dust in Core-collapse Supernovae meeting, Ascona, Switzerland
- Aug 2012 Supernova Dust and Ejecta Illuminated by Pulsar Wind Nebulae  
Talk at the Cosmic Kaleidoscope meeting: Pulsars and their Nebulae, Supernova Remnants,  
and more, Kruger Park, South Africa

- Aug 2011 Dust and Gas Properties in the Composite Supernova Remnant Kes 75  
Explosive Ideas about Massive Stars meeting, Stockholm, Sweden
- Jul 2010 Multi-wavelength Observations of the Interactions Between PWNe and SNRs  
Talk at the 38th COSPAR Scientific Assembly, Bremen, Germany
- Apr 2010 Multi-wavelength Observations of Composite Remnants  
ICREA Workshop on The High-Energy Emission from Pulsars and their Systems, Sant Cugat,  
Barcelona, Spain
- Jul 2009 X-ray and Infrared Observations of the Crab-like Pulsar Wind Nebula G54.1+0.3  
Talk at the SNRs and Pulsar Wind Nebulae in the Chandra Era meeting, Boston, MA
- Jun 2009 Infrared Observations of the Shell Surrounding the Pulsar Wind Nebula G54.1+0.3  
International Workshop: Pulsars in their Diversity, Elba, Italy
- Jul 2008 Chandra and XMM Observations of the Composite Supernova Remnant G327.1-1.1  
37th COSPAR Scientific Assembly, Montreal, Canada

## Publications in Refereed Journals

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32. Element Abundances in the Unshocked Ejecta of Cassiopeia A  
Laming, J. M. & Temim, T., 2020ApJ, 2020, [ApJ, 904, 115L](#)
31. The Nonstandard Properties of a Standard PWN: Unveiling the Mysteries of PWN G21.5-0.9 Using Its IR and X-Ray Emission  
Hattori, S.; Zhang, E.; Straal, S. M.; Temim, T.; Gelfand, J.; Slane, P., 2020, [ApJ, 904, 32H](#)
30. Turbulent Model of Crab Nebula Radiation  
Luo, Yonggang; Lyutikov, Maxim; Temim, Tea; Comisso, Luca, 2020, [ApJ, 896, 147](#)
29. Interpreting Crab Nebula's Synchrotron Spectrum: Two Acceleration Mechanisms  
Lyutikov, M., Temim, T.; Komissarov, S., Slane, P., Sironi, L., Comisso, L., 2019, [MNRAS, 2051](#)
28. Probing the Innermost Ejecta Layers in Supernova Remnant Kes 75: Implications for the Supernova Progenitor  
Temim, T., Slane, P., Sukhbold, T., Koo, B.-C., Raymond, J. C., Gelfand, J. D., 2019, [ApJL, 878L, 19](#)
27. Investigating the Structure of Vela X  
Slane, P., Lovchinsky, I., Kolb, C., Snowden, S. L., Temim, T., et al., Blondin, J., 2018, [ApJ, 865, 86](#)
26. ALMA observations of supernova remnant N49 in the LMC: I. Discovery of CO clumps associated with X-ray and radio continuum shells  
Yamane, Y., et al., 2018, [ApJ, 863, 1](#)
25. A Deep X-ray View of the Synchrotron-Dominated Supernova Remnant G330.2+1.0  
Williams, B. J., Hewitt, J. W., Petre, R., Temim, T., 2018, [ApJ, 855, 118](#)
24. Proper Motion of the High-Velocity Pulsar in SNR MSH 15-56  
Temim, T., Slane, P., Plucinsky, P., Gelfand, J., Castro, D., and Kolb. C., 2017, [ApJ, 851, 128](#)
23. Comparing Neutron Star Kicks to Supernova Remnant Asymmetries  
Holland-Ashford, T., Lopez, L. A., Auchettl, K., Temim, T., Ramirez-Ruiz, E., 2017, [ApJ, 844, 84](#)
22. Evolution of a Pulsar Wind Nebula within a Composite Supernova Remnant  
Kolb, C.; Blondin, J.; Slane, P.; Temim, T., 2017 [ApJ, 844, 1](#)
21. A Massive Shell of Supernova-formed Dust in SNR G54.1+0.3  
Temim, T., Dwek, E., Arendt, R. G., Borkowski, K., Reynolds, S. P., Slane, P., Gelfand, J., Raymond, J. C., 2017, [ApJ, 836, 129](#)
20. Deep Chandra Observations of the Pulsar Wind Nebula Created by PSR B0355+54  
Klingler, N., et al., 2016, [ApJ, 833, 253](#)
19. Radio Polarization Observations of the Snail: A Crushed Pulsar Wind Nebula in G327.1-1.1 with a Highly Ordered Magnetic Field  
Ma, Y. K., Ng, C.-Y., Bucciantini, N., Slane, P. O., Gaensler, B. M., Temim, T., 2016 [ApJ, 820, 100](#)
18. Late-time Evolution of Composite Supernova Remnants: Deep Chandra Observations and Hydrodynamical Modeling of a Crushed Pulsar Wind Nebula in SNR G327.1-1.1  
Temim, T., Slane, P., Kolb, C., Blondin, J., Hughes, J. P., Bucciantini, N., 2015, [ApJ, 808, 100](#)

17. The Properties of the Progenitor Supernova, Pulsar Wind, and Neutron Star inside PWN G54.1+0.3  
Gelfand, J. D., Slane, P., Temim, T., 2015, *ApJ*, **807**, 30
16. Dust Destruction Rates and Lifetimes in the Magellanic Clouds  
Temim, T., Dwek, E., Tchernyshyov, K., Boyer, M. L., Meixner, M., Gall, C., Roman-Duval, J., 2015, *ApJ*, **799**, 158
15. X-ray Analysis of the Proper Motion and Pulsar Wind Nebula for PSR J1741-2054  
Auchettl, K., Slane, P., Romani, R. W., Posselt, B., Pavlov, G. G., Kargaltsev, O., Ng, C. Y., Temim, T., Weisskopf, M. C., Bykov, A., Swartz, D. A., 2015, *ApJ*, **802**, 68
14. The Influence of Supernova Remnants on the Interstellar Medium in the Large Magellanic Cloud Seen at 20-600  $\mu\text{m}$  Wavelengths  
Lakicevic, M., van Loon, J. Th., Meixner, M., Gordon, K., Bot, C., Roman-Duval, J., Babler, B., Bolatto, A., Engelbracht, C., Filipovic, M., Hony, S., Indebetouw, R., Misselt, K., Montiel, E., Okumura, K., Panuzzo, P., Patat, F., Sauvage, M., Seale, J., Sonneborn, G., Temim, T., Urošević, D., Zanardo, G., 2015, *ApJ*, **799**, 50
13. The Properties of the Progenitor, Neutron Star, and Pulsar Wind in the SNR Kes 75  
Gelfand, J. D., Slane, P., Temim, T., 2014, *AN*, **335**, 318
12. Supernova Remnant Kes 17: Efficient Cosmic Ray Accelerator inside a Molecular Cloud  
Gelfand, J. D., Castro, D., Slane, P. O., Temim, T., Hughes, J. P., Rakowski, C., 2013, *ApJ*, **777**, 148
11. The Importance of Physical Models for Deriving Dust Masses in Supernova Ejecta: Radiatively Heated Dust in the Crab Nebula  
Temim, T. & Dwek, E., 2013, *ApJ*, **774**, 8
10. High-Energy Emission From the Composite Supernova Remnant MSH 15-56  
Temim, T., Slane, P., Plucinsky, P., Gelfand, J., Castro, D., Dickel, J. R., 2013, *ApJ*, **768**, 61
9. Properties and Spatial Distribution of Dust Emission in the Crab Nebula  
Temim, T., Sonneborn, G., Dwek, E., Arendt, R. G., Gehrz, R. D., Slane, P., Roellig, T. L., 2012, *ApJ*, **753**, 72
8. Infrared and X-Ray Spectroscopy of the Kes 75 Supernova Remnant Shell: Characterizing the Dust and Gas Properties  
Temim, T., Slane, P., Arendt, R. G., Dwek, E., 2012, *ApJ*, **745**, 46
7. A Broadband Study of the Emission from the Composite SNR MSH 11-62  
Slane, P., Hughes, J. P., Temim, T., Rousseau, R., Castro, D., Foight, D., Gaensler, B. M., Funk, S., Lemoine-Goumard, M., Gelfand, J. D., Moffett, D. A., Dodson, R. G., Bernstein, J. P., 2012, *ApJ*, **749**, 131
6. Suzaku Detection of Diffuse Hard X-Ray Emission outside Vela X  
Katsuda, S., Mori, K., Petre, R., Yamaguchi, H., Tsunemi, H., Bocchino, F., Bamba, A., Miceli, M., Hewitt, J. W., Temim, T., Uchida, H., Yoshii, R., 2011, *PASJ*, **Vol.63**, No.SP3
5. Deep Chandra Observations of the Crab-like Pulsar Wind Nebula G54.1+0.3 and Spitzer Infrared Spectroscopy of the Associated Shell  
Temim, T., Slane, P., Reynolds, S., Raymond, J. C., Borkowski, K., 2010, *ApJ*, **710**, 309
4. Chandra and XMM Observations of the Composite Supernova Remnant G327.1-1.1  
Temim, T., Slane, P., Gaensler, B. M., Hughes, J. P., van der Swaluw, E., 2009, *ApJ*, **691**, 895
3. The Early Spectrophotometric Evolution of V1186 Scorpii  
Schwarz, G. J., Woodward, C. E., Bode, M. F., Evans, A., Eyres, S. P., Geballe, T. R., Gehrz, R. D., Greenhouse, M. A., Helton, L. A., Liller, W., Lyke, J. E., Lynch, D. K., O'Brien, T. J., Rudy,



- R. J., Russell, R. W., Shore, S. N., Starrfield, S. G., Temim, T., Truran, J. W., Venturini, C. C., Wagner, R. M., Williams, R. E., Zamanov, R., 2007, *AJ*, **134**, 516
2. Spitzer Space Telescope Infrared Imaging and Spectroscopy of the Crab Nebula  
Temim, T., Gehrz, R. D., Woodward, C. E., Roellig, T. L., Smith, N., Rudnick, L., Polomski, E. F., Davidson, K., Yuen, L., Onaka, T. 2006, *AJ*, **132**, 1610
1. The Development of a Steady State, Asymptotic Giant Branch Type, Circumstellar Wind around the Born Again Star FG Sagittae  
Gehrz, R. D., Woodward, C. E., Temim, T., Lyke, J. E., Mason, C. G. 2005, *ApJ*, **623**, 1105

## Non-Refereed, Review Articles & Chapters

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- 2018 Observing Recommendations for JWST MIRI Users  
Garcia Marin, M., et al., 2018, *SPIE* **10704**
- 2017 Review on Optical and Infrared Observations of Pulsar Wind Nebulae  
**T. Temim** & P. Slane, 2017, *Springer Books*
- 2016 Infrared Emission from Supernova Remnants: Formation and Destruction of Dust  
B. Williams & T. Temim, 2016, *Handbook of Supernovae*, Springer Books
- 2015 The Many Faces of Supernova Remnants  
**T. Temim**, B. Williams, L. Lopez, 2015, *Chandra Newsletter Article*
- 2011 Multi-wavelength Observations of Composite Supernova Remnants  
**T. Temim**, High-Energy Emission from Pulsars and their Systems, Astrophysics and Space Science Proceedings, Springer-Verlag Berlin Heidelberg, 2011, p. 393

## Recent White Papers

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- 2019 Increasing Gender Diversity and Inclusion in Scientific Committees and Related Activities at STScI  
De Rosa, G., Oliveira, C., Pacifici, C., et al. 2019, Bulletin of the American Astronomical Society, *Vol. 51, Issue 7*
- 2019 Infrared Stellar Populations: Probing the Beginning and the End  
Meixner, M., et al. 2019, Astro2020: Decadal Survey, *BAAS*, **51**, 554
- 2019 MeV Emission from Pulsar Wind Nebulae: Understanding Extreme Particle Acceleration in Highly Relativistic Outflows  
Gelfand, J., et al. 2019, Astro2020: Decadal Survey, *BAAS*, **51**, 513
- 2019 Supernova Remnants in High Definition  
Lopez, L., et al. 2019, Astro2020: Decadal Survey, *BAAS*, **51**, 454
- 2019 Astromineralogy of Interstellar Dust With X-ray Spectroscopy  
Corrales, L., et al. 2019, Astro2020: Decadal Survey, *BAAS*, **51**, 264
- 2019 Future X-ray Studies of Supernova Remnants  
Williams, B., et al. 2019, Astro2020: Decadal Survey, *BAAS*, **51**, 263
- 2019 Probing the Structure of Interstellar Dust from Micron to Kpc Scales with X-ray Imaging  
Valencic, L., et al. 2019, Astro2020: Decadal Survey, *BAAS*, **51**, 24
- 2019 Probing the Structure of Interstellar Dust from Micron to Kpc Scales with X-ray Imaging  
Valencic, L., et al. 2019, Astro2020: Decadal Survey, *BAAS*, **51**, 24