

TEA TEMIM

PERSONAL DATA

Position: Research Astronomer
 Institution: Princeton University
 Department of Astrophysical Sciences
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RESEARCH INTERESTS

- Supernovae and Supernova Remnants
- Pulsar wind nebulae
- Dust production and processing
- Interstellar Medium

POSITIONS HELD

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

EDUCATION

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

FELLOWSHIPS

2010 NASA Postdoctoral Fellowship
 2007 Smithsonian Astrophysical Observatory Predoctoral Fellowship
 2004 NASA Space Grant Fellowship
 2001 LaVerne and Ted Jones Astrophysics Scholarship

SUCCESFULL GRANTS & OBSERVING PROPOSALS

- 2022 NASA Astrophysics Data Analysis Program, **PI: Temim**
Supernova Progenitor and Explosion Properties of Galactic Supernova Remnants
- 2022 NSF Collaborative Research Proposal, **Co-PI: Temim**
Constraining Supernova Progenitor Systems and Explosion Mechanisms Through 3D Reconstruction of Supernova Remnants
- 2021 Gazari et al., Hubble Space Telescope, Cycle 29 (co-I)
This is NUTS! A Narrow-field Ultraviolet Transient Survey
- 2021 Temim et al., James Webb Space Telescope, Cycle 1, **PI: Temim**
The Origin of the Crab Nebula
- 2021 Milisavljevic et al., James Webb Space Telescope, Cycle 1, co-I
JWST Survey of the Prototypical Core-collapse Supernova Remnant Cassiopeia A
- 2021 Jha et al., James Webb Space Telescope, Cycle 1, co-I
See Through Supernovae: Nebular Spectroscopy of Exploding White Dwarfs
- 2021 Matsuura et al., James Webb Space Telescope, Cycle 1, co-I
Shocks and expanding ejecta in Supernova 1987A
- 2021 Drout et al., James Webb Space Telescope, Cycle 1, co-I,
Detecting the Synthesis of the Heaviest Elements with Photometry of a Kilonova in the Optically Thin Phase
- 2021 Foley et al., James Webb Space Telescope, Cycle 1 (co-I)
See Through Supernovae: Nebular Spectroscopy of Exploding White Dwarfs
Nucleosynthesis, Astrophysics, and Cosmology with IR Observations of a Gravitational Wave Counterpart
- 2021 Kilpatrick et al., James Webb Space Telescope, Cycle 1 (co-I)
Nebular Spectroscopy of a Kilonova with JWST
- 2021 Fox et al, James Webb Space Telescope, Cycle 1 (co-I)
Disentangling the Origin of Dust in Type II_n Supernovae
- 2017 Castro et al., NASA Fermi Guest Investigator, Cycle 10 (co-I)
Characterizing the Gamma-ray Emission from Pulsar Wind Nebulae with Fermi-LAT
- 2016 Temim et al., XMM-Newton AO-16 (PI)
Evolution of Composite SNRs: An XMM Study of MSH 15-56, **PI: Temim** 350 ks
- 2016 Temim et al., NuSTAR Cycle 2 (PI)
Spectral Evolution of Crushed Pulsar Wind Nebulae, **PI: Temim**, 75 ks
- 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)
Probing Supernova Ejecta Dust with Stellar Lightbulbs: Mid-IR Imaging of G54.1+0.3
- 2015 Temim et al., Chandra X-ray Observatory proposal (PI)
Chandra Observation of the Composite SNR MSH 15-56, **PI: Temim**, 175 ks
- 2015 Temim et al., Suzaku X-ray Satellite, Cycle 10 proposal (PI)
A Suzaku Observation of the MSH 15-56 Shell, **PI: Temim**, 150 ks
- 2015 Laming et al., NASA Astrophysics Data Analysis Program (ADAP) proposal
The Inner Ejecta and the Infrared Spectrum of Cassiopeia A
- 2014 Dwek & Temim, NASA ADAP proposal, **Co-PI: Temim**
Supernova Remnants as Laboratories for Determining the Properties of Ejecta Dust and Processing of Dust Grain in Shocks
- 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 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 SN Ejecta and Dust in the Composite SNR Kes 75, **PI: Temim**
- 2010 Temim et al., Herschel Space Observatory proposal (PI)
Imaging and Spectroscopy of the IR Shell Surrounding the PWN G54.1+0.3, **PI: Temim**,

FUNCTIONAL WORK ON JWST (2015–2022)

- Mid-Infrared Instrument (MIRI) Imaging Lead
Ensuring safe operation and maximal science return of the MIRI instrument on JWST
- Planning of MIRI commissioning and development of analysis tools for commissioning data
- Development and review of the Cycle 1 calibration strategy for the MIRI imager
- Development of analysis tools for calculating distortion transforms from commissioning data
- Cross-instrument JWST Photometry Working Group member
- JWST Absolute Flux Calibration Working Group member
- JWST data pipeline testing
- Optical Telescope Element and Integrated Science (OTIS) testing at the Johnson Space Center
- JWST commissioning shifts at the Mission Control Center (MIRI representative)

RECENT PROFESSIONAL SERVICE

- Member of the Chandra Users Committee, 2022–2025
- Elected Member of the High-Energy Astrophysics Division Executive Committee, 2022–2025
- Member of Climate Committee for Equity and Inclusion, 2021 –
Department of Astrophysical Sciences, Princeton University
- Scientific Organizing Committee Member, Supernova Remnant Conference, Greece, 2024
- HEAD Special Session organizer: Tales of Galactic Remnants (AAS), 2022
- Scientific Organizing Committee Member, Chandra Science Workshop, 2022
Using Chandra to Explore the Connection Between SNe, Their Remnants, and Their Progenitors
- Scientific Organizing Committee Member, EAS2022 Special Session, 2022
The Astonishing Variety of Neutron Star Neighbourhoods
- Member of the Women in Astronomy Forum (WIAF), STScI (2016–2021)
- Referee for numerous journal articles: ApJ, ApJL, A&A, Science, MNRAS
- 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
- Reviewer and co-chair on numerous NASA observing and theory proposal review panels

INVITED TALKS

- Aug 2023 SuperNova EXplosions (SNEX) Conference, Haifa, Israel
- May 2023 Astronomy Colloquium, NRAO/University of Virginia
- Apr 2023 Talk at the *Chandra* Operations Control Center, Burlington, MA
- Apr 2023 Astronomy Colloquium, Harvard University, CfA
- Mar 2023 Astronomy Colloquium, George Washington University
- Jan 2023 Columbia University Astronomy Seminar
- Sep 2022 Review talk, Workshop: 3D Supernova (Remnants), Valencia, Spain
- Feb 2022 Physics Colloquium, Florida State University
- Dec 2022 Pulsar Wind Nebula Mini-Workshop, Columbia University
- Dec 2021 Compact Object Lunch Talk, CCA
- Nov 2021 JWST Cycle 1 Live-Streamed Science Sampler, Space Telescope Science Institute
- Dec 2020 Brown Bag Seminar, New York University
- Dec 2020 Purdue University Guest Lecture on JWST
- June 2019 Review talk, XMM Workshop: Astrophysics of Plasmas, Madrid, Spain

- June 2019 Astronomy Colloquium, National Observatory of Athens
 June 2019 Review talk, Supernova Remnants: An Odyssey in Space After Stellar Death, Chania, Crete
 May 2019 Review talk, Fifty-One Erg International Workshop, North Carolina State University
 Mar 2019 Astronomy Colloquium, Carnegie DTM, Washington, DC
 Oct 2018 Astrophysics Seminar, Florida State University
 Oct 2018 Astrophysics Seminar, Purdue University
 Apr 2018 Review talk, New advances in NIR Type Ia Supernova Science, University of Pittsburgh
 Mar 2017 SOFIA Community Tele-Talk Series
 Jan 2017 The Transient Universe with JWST Workshop, Harvard-Smithsonian CfA
 Dec 2016 Astrophysics Colloquium, Penn State University
 Oct 2016 The Ohio State University CCAPP Seminar
 Aug 2016 Physics Colloquium, The University of Vermont
 June 2016 Review talk, Workshop on Modeling Pulsar Wind Nebulae, Barcelona, Spain
 June 2016 Review talk, Supernova Remnants: An Odyssey in Space After Stellar Death, Chania, Greece
 Mar 2016 Astronomy Colloquium, University of Wisconsin – Madison
 Oct 2015 Review talk, Feedback in the Magellanic Clouds Workshop, STScI
 May 2015 Princeton University Department of Astrophysical Sciences Seminar
 Apr 2015 Rutgers University Astronomy Group Seminar
 Apr 2015 Physics & Astronomy Colloquium, Clemson University
 Mar 2015 Astronomy Colloquium, University of Michigan
 Mar 2015 New York University (NYU) Astrophysics Seminar
 Dec 2014 New York University (NYU), Abu Dhabi, Astrophysics Seminar
 Sep 2014 Colloquium, United States Naval Observatory, Washington, DC
 Dec 2013 NASA Goddard Space Flight Center, Division Director's Seminar
 Nov 2013 George Washington University Astronomy Seminar
 Jul 2013 University of California at Berkeley Astronomy Department Seminar
 Jul 2013 Los Alamos National Laboratory, Los Alamos, NM
 May 2012 Space Telescope Science Institute, CSM/ISM Journal Club
 Feb 2011 NASA Goddard Space Flight Center Astrophysics Division Seminar
 May 2010 NASA Goddard Space Flight Center SEAL Seminar
 May 2007 A Workshop On the Future of Supernova Remnant Research, Honolulu, HI

OTHER CONFERENCE ABSTRACTS & TALKS

- Aug 2022 Supernova Progenitor of SNR G292.0+1.8
 Chandra Science Workshop 2022, Cambridge, MA
 Aug 2017 X-ray observations of the Crushed PWN and Rapidly Moving Pulsar in SNR MSH 15-56
 AAS HEAD Meeting, Idaho
 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
 Jan 2015 *Origin of Dust in the Magellanic Clouds*
 Talk at the American Astronomical Society Meeting, Seattle, WA
 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
- Jun 2012 *High-Energy Emission from the Composite Supernova Remnant MSH 15-56*
American Astronomical Society Meeting #220, Anchorage, AK
- Aug 2011 Dust and Gas Properties in the Composite Supernova Remnant Kes 75
Explosive Ideas about Massive Stars meeting, Stockholm, Sweden
- May 2011 *Properties and Spatial Distribution of Dust Emission in the Crab Nebula*
American Astronomical Society Meeting #218, Boston, MA
- 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
- Jan 2010 *Multi-wavelength Observations of Pulsar Wind Nebulae and Composite SNRs*
Dissertation talk at the AAS Meeting #215, Washington, DC
- 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
- Mar 2009 *Evolution of PWNe and Composite SNRs: IR Spectroscopy of G54.1+0.3*
Talk at the Annual SAO Predoctoral Research Symposium, Cambridge, MA
- Jul 2008 Chandra and XMM Observations of the Composite Supernova Remnant G327.1-1.1
37th COSPAR Scientific Assembly, Montreal, Canada
- Mar 2008 *High-resolution X-ray Observations of the Composite SNR G327.1-1.1*
Talk at the Annual Smithsonian Astrophysical Observatory Predoctoral Research Symposium, Cambridge, MA
- Mar 2008 *Chandra Observations of the Composite Supernova Remnant G327.1-1.1*
American Astronomical Society, #211, Austin, TX
- Jun 2006 *Spitzer Observations of Supernova Remnant N49 in the LMC*
American Astronomical Society Meeting Abstracts, #209, Seattle, WA
- May 2005 *Spitzer Space Telescope Observations of the Crab Nebula*
American Astronomical Society Meeting, #206, Minneapolis, MN

PRESS HIGHLIGHTS

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- 2022 Long ago and far away, Princeton Alumni Magazine, [Interview](#)
 - 2022 7 big questions the James Webb Space Telescope is about to answer, [Interview](#)
 - 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)

PUBLICATIONS IN REFEREED JOURNALS

Submitted:

- 42. JWST NIRSpec observations of Supernova 1987A – from the inner ejecta to the reverse shock
Larsson, J., et al, including **Temim, T.**, 2023, submitted to AAS Journals [arXiv:2302.03576](#)
- 41. Observations of the Planetary Nebula SMP LMC 058 with the JWST MIRI MRS
Jones, O., et al., including **Temim, T.**, 2023, submitted to MNRAS [arXiv:2301.13233](#)
- 40. JWST Discovery of Dust Reservoirs in Nearby Type IIP Supernovae 2004et and 2017eaw
Shahbandeh, M., Sarangi, A., **Temim, T.**, and 36 co-authors, 2023, submitted to MNRAS [arXiv:2301.10778](#)
- 39. Nuclear High-Ionization Outflow in the Compton-Thick AGN NGC 6552 as seen with JWST
Mid-Infrared Spectroscopy
Álvarez-Márquez, J. et al., including **Temim, T.**, submitted to MNRAS, 2022 [arXiv:2209.01695](#)
- 38. The Science Performance of JWST as Characterized in Commissioning
Rigby, J., et al., including **Temim, T.** 2022, [arXiv:2207.05632](#)

Accepted:

- 37. How dark the sky: the JWST backgrounds
Rigby, J. R., et al., including **Temim, T.** accepted by PASP, 2022 [arXiv:2211.09890](#)

Published:

- 36. A JWST Near- and Mid-Infrared Nebular Spectrum of the Type Ia Supernova 2021aefx
Kwok, L. A., Jha, S., W., **Temim, T.**, et al. 2022, *ApJL*, **944**, 1
- 35. MeV-GeV Gamma-Ray Emission from SNR G327.1-1.1 Discovered by the Fermi-LAT
Eagle, J., Castro, D., **Temim, T.**, et al., 2022 *ApJ*, **940**, 143
- 34. SNR G292.0+1.8: A Remnant of a Low-mass Progenitor Stripped-envelope Supernova
Temim, T., Slane, P., Raymond, J. C., Patnaude, et al., 2022, *ApJ*, **932**, 1
- 33. The Eel PWN: A PeVatron-candidate Origin for HAWC J1826-128 and HESS J1826-130
Burgess, D., et al., including **Temim, T.**, 2022, *ApJ*, **930**, 2
- 32. Element Abundances in the Unshocked Ejecta of Cassiopeia A
Laming, J. M. & **Temim, T.**, 2020*ApJ*, 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, T.**; 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., including **Temim, T.**, 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., including **Temim, T.**, 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 μm 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.**, Urosevic, 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

 BOOK CHAPTERS

- 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

 NON-REFEREED ARTICLES

- 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
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