TEA TEMIM

PERSONAL DATA

Position:	Research Astronomer
Institution:	Princeton University
	Department of Astrophysical Sciences
Address:	Peyton Hall
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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

SUCCESSFUL GRANTS & OBSERVING PROPOSALS

2023 Blair et al., Hubble Space Telescope, Cycle 31 (co-I)
Expansion and Evolution of the Crab Nebula: A 23+ Year HST Perspective

2023 Larsson et al., Hubble Space Telescope, Cycle 31 (co-I)
Expanding shocks and the emergence of the compact object in Supernova 1987A

2023 Jha et al., James Webb Space Telescope, Cycle 2 proposal (co-I)
See Through Supernovae: Nebular Spectroscopy of Exploding White Dwarfs

2023 Ashall et al., James Webb Space Telescope, Cycle 2 DDT proposal (co-I)
Dust Our Luck– Measuring Molecule and Dust Formation in M101's Hydrogen-rich SN 2023ixf

2023 Shahbandeh et al., James Webb Space Telescope, Cycle 2 DDT proposal (co-I)
Near- and Mid-IR Observations to Probe Dust Formation in the Remarkably Nearby Stripped-Envelope Supernova 2023dbc

2023 Shahbandeh et al., James Webb Space Telescope, Cycle 2 (co-I)
Probing Early Dust Formation in the Universe via Stripped-Envelope Supernovae

2023 Larsson et al., James Webb Space Telescope, Cycle 2 (co-I)
The nature of the compact object in SN 1987A

2023 Drout et al., James Webb Space Telescope, Cycle 2, co-I
Detecting the Synthesis of the Heaviest Elements with Photometry of a Kilonova in the Optically Thin Phase

2023 Meixner et al., James Webb Space Telescope, Cycle 2 GTO (co-I)
SN 1987A: The Formation and Evolution of Dust in a Supernova Explosion

2023 Pierel et al., James Webb Space Telescope, Cycle 1 DDT proposal (co-I)
Unique Constraints on Early Dust Growth in Core-Collapse Supernovae

2022 Fesen et al., Hubble Space Telescope, Cycle 30 (co-I)
A Multi-Bandpass ACS Survey of Cassiopeia A: Keeping Up with its Rapidly Evolving Structure

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 Foley et al., James Webb Space Telescope, Cycle 1 (co-I)
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 IIn Supernovae

2021 Misselt et al., James Webb Space Telescope, Cycle 1 GTO (co-I)
Physics and Chemistry of PDR Fronts

2021 Wright, Meixner et al., James Webb Space Telescope, Cycle 1 GTO (co-I)
SN 1987A: The Formation and Evolution of Dust in a Supernova Explosion

2021 Meixner et al., James Webb Space Telescope, Cycle 1 GTO (co-I)
I Zw 18: Dust Life Cycle at Very Low Metallicity

2021 Meixner et al., James Webb Space Telescope, Cycle 1 GTO (co-I)
NGC 6822: Dust Life Cycle Study of a Nearby Low Metallicity Galaxy

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)
Understanding the 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**

LEADERSHIP AND SERVICE ACTIVITIES FOR 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
- Scientific Organizing Committee, STScI Workshop, Transients In Space, 2025
- Scientific Organizing Committee, 25 Years of Chandra Science, Boston, 2024
- Scientific Organizing Committee, EAS 2024 Special Session, Italy, 2024
- Scientific Organizing Committee, Supernova Remnant Conference, Greece, to be held in June 2024

- Member of Climate Committee for Equity and Inclusion, 2021 –
  Department of Astrophysical Sciences, Princeton University
- 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
- Chandra Cycle 23 Panel Review, Deputy Chair, June 2020
- 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

Feb 2024	Astronomy Colloquium, STScI/JHU
Feb 2024	Astronomy Seminar, Towson University
Sep 2023	First Year of JWST Science Conference, Baltimore, MD
Aug 2023	SuperNova EXplosions (SNEX) Conference, Haifa, Israel
May 2023	Astronomy Colloquium, NRAO/University of Virginia
July 2023	Pulsar Wind Nebula Workshop, Columbia University
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	Astronomy Seminar, Columbia University
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, 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 SAO 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

2023	The Crab Nebula Seen in New Light by NASA's Webb, NASA Press Release
2023	Webb Reveals Never-Before-Seen Details in Cassiopeia A, NASA Press Release
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:

53. Ejecta, Rings, and Dust in SN 1987A with JWST MIRI/MRS Jones, O.C., et al, including **Temim, T.**, 2023, submitted to ApJ, arXiv:2307.06692

52. A JWST/MIRI and NIRCam Analysis of the Young Stellar Object Population in the Spitzer I region of NGC 6822 Lenkić, L., et al, including **Temim, T.**, 2023, submitted to ApJ, arXiv:2307.15704

51. Ground-based and JWST Observations of SN 2022pul: I. Unusual Signatures of Carbon, Oxygen, and Circumstellar Interaction in a Peculiar Type Ia Supernova Siebert, M., et al, including **Temim, T.**, 2023, submitted to ApJ, arXiv:2308.12449

50. Ground-based and JWST Observations of SN 2022pul: II. Evidence from Nebular Spectroscopy for a Violent Merger in a Peculiar Type-Ia Supernova Kwok, L., et al, including **Temim, T.**, 2023, submitted to ApJ, arXiv:2308.12450

49. JWST MIRI and NIRCam Unveil Previously Unseen Infrared Stellar Populations in NGC 6822 Nally, C., et al, including **Temim, T.**, 2023, submitted, arXiv:2309.13521

Accepted:

48. The Compact Object in SN 1987A Fransson, C, et al, 2023, accepted by Science

47. JWST NIRCam Observations of SN 1987A: Spitzer Comparison and Spectral Decomposition Arendt, R., et al, including **Temim, T.**, 2023, accepted by ApJ arXiv:2309.13011

46. Serendipitous detection of the dusty Type IIL SN 1980K with JWST/MIRI Zsíros, S., et al., including **Temim, T.**, 2023 arXiv:2310.03448

Published:

45. JWST NIRSpec observations of Supernova 1987A – from the inner ejecta to the reverse shock Larsson, J., et al, including **Temim, T.**, 2023, ApJ, 949, 2

44. The James Webb Space Telescope Mission Gardner, J., et al, including **Temim, T.**, 2023, Special Issue on JWST PASP, 135, 1048

43. JWST Discovery of Dust Reservoirs in Nearby Type IIP Supernovae 2004et and 2017eaw Shahbandeh, M., Sarangi, A., **Temim, T.**, and 36 co-authors, 2023, MNRAS, 523, 4

42. Observations of the Planetary Nebula SMP LMC 058 with the JWST MIRI MRS Jones, O., et al., including **Temim, T.**, 2023, MNRAS, 523, 2

41. Hard X-Ray Observation and Multiwavelength Study of the PeVatron Candidate Pulsar Wind Nebula Dragonfly Woo, J., et al, including **Temim, T.** 2023, ApJ 954, 1

40. The Mid-infrared Instrument for JWST and Its In-flight Performance Wright, G. S., et al.,including **Temim, T.** 2023, PASP, 135, 048003

39. How dark the sky: the JWST backgrounds Rigby, J. R., et al., including **Temim, T.** , 2023 PASP, 135, 048002

38. The Science Performance of JWST as Characterized in Commissioning Rigby, J., et al.,including **Temim, T.** 2023, PASP, 135, 048001

37. 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, ApJL 944, 1

36. 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.**, 2022 A&A

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.**, 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, 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., textbfTemim, 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
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8. Infrared and X-Ray Spectroscopy of the Kes 75 Supernova Remnant Shell: Characterizing the Dust and Gas Properties
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