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01Jan2022

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Research Interests

Stars, in general and especially their evolution, final fate, and nucleosynthesis.
Chemical evolution, growth of every isotope at every point in spacetime.
Astrobiology, synthesis and delivery of bioessential elements to habitable systems.
Gamma-ray astronomy, from radioactive isotopes.
Neutrino astronomy, in general and especially from pre-supernova stars.
Community driven, open-knowledge, software instruments.

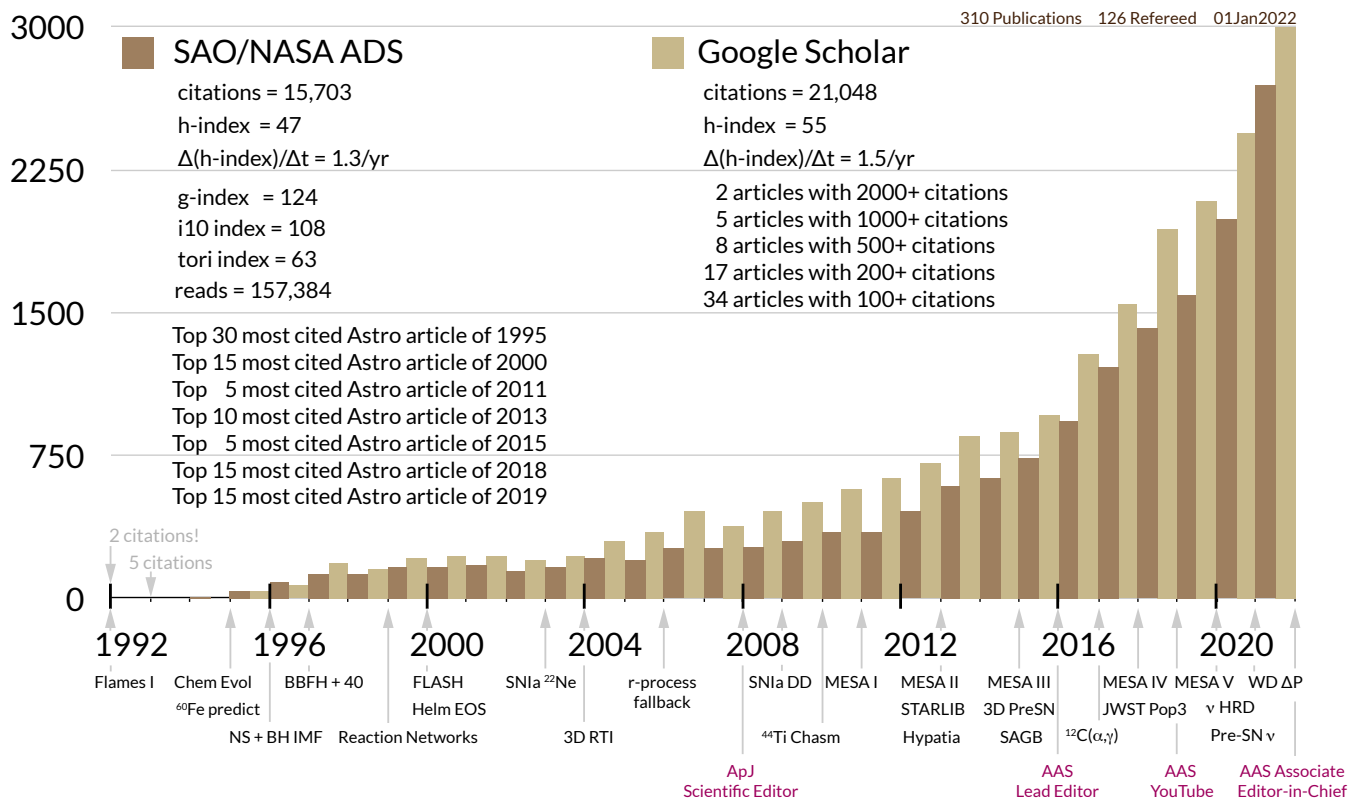
Education

1988 – 1992 UC Santa Cruz M.S. & Ph.D. in Astronomy & Astrophysics
1981 – 1984 UC Santa Barbara B.S. in Physics, with Honors

Recent Appointments

2022 – Associate Editor-in-Chief, American Astronomical Society [Journals](#)
2019 – Senior Lead Editor, American Astronomical Society [Journals](#)
2016 – Lead Editor, American Astronomical Society [Journals](#)
2009 – Scientific Editor, American Astronomical Society [Journals](#)
2008 – Professor, SESE, ASU

Publication Summary



Recent Research Funding

Total Awards Since 2008: \$26.5M, \$7.3M to ASU as PI or Co-I

Expenditures: FY21 \$656K, FY20 \$620K, FY19 \$612K, FY18 \$471K, FY17 \$463K

2022 – 2025	NASA	PI	\$476K, <i>Probing The Interior Composition Of White Dwarfs</i>
2019 – 2024	NSF	Co-PI	\$2M, <i>AccelNet-WOU: International Research Network ...</i>
2017 – 2022	NSF	PI	\$2.3M, <i>Modules for Experiments ... (MESA)</i>
2014 – 2022	NSF	Co-PI	\$11.2M, <i>Physics Frontiers Center, JINA-CEE</i>

Recent Leadership and Management Activities

2022 – \$4.5M/yr, Associate Editor-in-Chief, American Astronomical Society Journals
 2011 – 2015 \$1.2M/yr, Director, Advanced Computing Center, ASU
 2009 – 2011 \$16M/yr, Associate Director of Operations, SESE, ASU

Recent Awards, Fellowships, and Honors

2015 [Simons Fellow](#) in Theoretical Physics
 2014 [Fellow](#), American Physical Society
 2013 Student Cluster Competition Prize, [Supercomputing](#)
 2008 Certificate of Service, Department of Energy
 2004 National Security Fellow, Los Alamos
 2000 Gordon Bell Prize, [Supercomputing](#)

Recent Successful Award Nominations

2021 Bill Paxton, Beatrice M. Tinsley Prize, American Astronomical Society
 2020 Cecilia Lunardini, American Physical Society Fellow
 2020 Brian Fields, American Physical Society Fellow
 2018 Michael Wiescher, Laboratory Astrophysics Prize, American Astronomical Society
 2017 Lars Bildsten, Dannie Heineman Prize for Astrophysics, American Astronomical Society
 2016 Roland Diehl, American Physical Society Fellow
 2012 David Arnett, Henry Norris Russell Lectureship, American Astronomical Society
 2009 David Arnett, Hans A. Bethe Prize, American Physical Society

Selected Invited Lectures, Addresses, and Colloquia

American Physical Society Nuclear Physics Division; Argonne National Laboratory;
 Arizona State University; Aspen Center for Physics; California Institute of Technology;
 Duke University; Flatiron Institute; Harvard University; Kavli Institute for Theoretical Physics;
 Lawrence Berkeley National Laboratory; Lawrence Livermore National Laboratory;
 Los Alamos National Laboratory; Louisiana State University; Michigan State University;
 North Carolina State University; Northwestern University; Notre Dame University;
 Ohio University; Physical Society of Japan; Princeton University; SUNY - Stony Brook;
 Steward Observatory; Texas A&M Commerce; University of Arizona; UC Berkeley;
 UC Santa Barbara; UC San Diego; University of Chicago; University of Georgia;
 University of Innsbruck; University of Maryland at College Park; UNC at Chapel Hill;
 University of Pittsburgh; Washington State University; Wayne State University; Yale University

Recent National and International Service

- 2022 – Associate Editor-in-Chief, American Astronomical Society [Journals](#)
- 2019 – Senior Lead Editor, American Astronomical Society [Journals](#)
- 2016 – Lead Editor, American Astronomical Society [Journals](#)
- 2009 – Scientific Editor, American Astronomical Society [Journals](#)
- 2006 – Executive Committee, [Joint Institute for Nuclear Astrophysics](#)
- 2004 – Review ~40 proposals/year for NSF, NASA, DOE & Private Foundations
- 2020 – 2020 Organizer, “[A Celebration of Margret Burbidge](#)”
- 2018 – 2019 Chair, [2018 NSF SI2 PI Workshop](#)
- 2015 – 2016 Chair, [2016 NSF SI2 PI Workshop](#)
- 2014 – 2015 Chair, [2015 NSF SI2 PI Workshop](#)

Recent University and Department Service

- 2020 – Online Learning and Education Group, SESE, ASU
- 2016 – 2019 University Senator, ASU
- 2014 – 2015 University Senate, Research Computing Task Force, ASU
- 2013 – 2015 University Senate, Data Task Force, ASU
- 2012 – 2015 Information Technology Leadership Council, ASU
- 2011 – 2015 Director, ASU Advanced Computing Center
- 2013 – 2014 Vice Provost, Education Technology, ASU
- 2013 – 2014 Provost’s STEM Exploratory Committee, ASU
- 2012 – 2013 Provost’s Committee on Excellence in Digital Teaching and Learning, ASU

Summary of Undergraduate and Graduate Teaching

- 2022 – ASU Universal Learner Program, ~600 learners/course, Industry and Military employees
- 2018 – 2022 ASU Earned Admissions Program, ~600 learners/course
- 2015 – 2018 Largest [college-credit](#) eligible astronomy course in the world, ~10,000 learners/yr
- 2015 – 2015 First [college-credit](#) eligible MOOC in the world
- 2010 – 2014 Largest online SQ Credit lecture course at ASU, ~900 learners/course
- 2010 – 2014 Largest online SQ Credit laboratory course at ASU, ~900 learners/course

Introduction to Solar Systems (35); Energy in Everyday Life (17); Introduction to Stars and Galaxies (16); Calculus (4); Geometry in Art & Nature (4); Life in the Universe (2); Numerical Techniques in Earth and Space Sciences (1)

Recent Outreach Activities

- 2019 – Principal Content Provider, American Astronomical Society [YouTube](#) Channel
- 2011 – 2022 Director & Lecturer, [MESA Summer School](#), UC Santa Barbara
- 2000 – Open-source tools, illustrations, and more at cococubed.asu.edu, ~5,000 hits/yr
- 1998 – Deliver ~2 talks/year to K-12, Science Centers, Museums, Astronomy Clubs

Graduate and Postdoctoral Sponsors

Stan Woosley, Graduate Thesis Advisor, UC Santa Cruz
 Jim Truran, Postdoc Advisor, University of Chicago
 Don Clayton, Postdoc Advisor, Clemson University
 Richard Lingenfelter, Postdoc Advisor, UC San Diego

Recent Undergraduate Advisor to

Daniel Diab	Astrophysics 2021 ASU	Current
Carl E. Fields	Physics 2016 ASU	Graduate program at Michigan State University

Recent Undergraduate Awards

Carl E. Fields	2016	NSF Graduate Research Fellowship
	2016	Ford Foundation Predoctoral Fellowship
	2015	AAS Beth Brown Memorial Prize, National Society of Black Physicists
	2015	Carl A. Rouse Fellowship, Caltech
	2015	NASA Space Grant Undergraduate Fellowship, ASU
	2015	Norm Perrill Origins Project Scholarship, ASU
	2015	CLAS Undergraduate Summer Enrichment Award, ASU
	2014	Gold Medal, Sigma Xi Student Research Conference Award
	2014	CLAS Undergraduate Summer Enrichment Award, ASU
	2014	Asian & Pacific Islander American / Wells Fargo Scholarship

Graduate Advisor to

Morgan Taylor	2019–	ASU	Current
Ebraheem Farag	2019–	ASU	Current
Wendy Hawley	2008–2012	ASU	Research Assistant @ LASP
Natalie Hinkel	2008–2012	ASU	Senior Research Scientist @ SWRI
Cody Raskin	2008–2011	ASU	Staff @ LLNL
Georgios Magkotsios	2007–2011	Notre Dame	Quantitative Analyst @ BlackRock

Recent Graduate Student Awards

Morgan Taylor	2021	Chambliss Student Poster Award, American Astronomical Society
Ebraheem Farag	2021	Chambliss Student Poster Award, American Astronomical Society
Cody Raskin	2010	NASA Earth and Space Science Fellowship
	2010	Annual Meeting of Nobel Laureates, NSF Invitee

Postdoctoral Advisor to

Bill Wolf	2017-2019	Faculty @ University of Wisconsin - Eau Claire
Ilka Petterman	2015-2018	Research Fellow @ Gesellschaft für Anlagen- und Reaktorsicherheit
Rob Farmer	2014-2017	Postdoc @ University of Amsterdam
Soma De	2010-2014	Data Scientist @ Centene
Grant Newsham	2011-2013	Retired
Themis Athanassiadou	2009-2012	Support Engineer @ Atlassian

Postdoctoral Awards

Soma De	2010-2013	SESE Postdoctoral Fellow
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Refereed Publications

- r127. "Predictions for Radial Pulsations from Post Asymptotic Giant Branch Stars", Adam S. Jermyn, F.X. Timmes, Richard H. D. Townsend, and Bill Paxton, *Astrophysical Journal*, In Prep.
- r126. "Localised thermonuclear bursts from accreting magnetic white dwarfs", S. Scaringi, P.J. Groot, C. Knigge, A.J. Bird, E. Breedt, D.A.H. Buckley, Y. Cavecchi, N.D. Degenaar, D. de Martino, C. Done, M. Fratta, K. Izkiewicz, E. Koerding, J.-P. Lasota, C. Littlefield, C.F. Manara, M. O'Brien, P. Szkody, F.X. Timmes, *Nature*, Submitted
- r125. "A Highly Magnified Star at Redshift 6.2", Brian Welch, Dan Coe, Jose M. Diego, Adi Zitrin, Erik Zackrisson, Paola Dimauro, Yolanda Jiménez-Teja, Patrick Kelly, Guillaume Mahler, Masamune Oguri, F.X. Timmes, Rogier Windhorst, Michael Florian, S. E. de Mink, Roberto J. Avila, Jay Anderson, Larry Bradley, Keren Sharon, Anton Vikaeus, Stephan McCandliss, Maruša Bradač, Jane Rigby, Brenda Frye, Sune Toft, Victoria Strait, Michele Trenti, Soniya Sharma, Felipe Andrade-Santos and Tom Broadhurst, *Nature*, In Press
- r124. "Stable nickel production in Type Ia supernovae: A smoking gun for the progenitor mass?", Stéphane Blondin, Eduardo Bravo, F.X. Timmes, Luc Dessart, D. John Hillier, *Astronomy & Astrophysics*, In Press
- r123. "Observing intermediate-mass black holes and the upper stellar mass gap with LIGO and Virgo", Ajit Kumar Mehta, Alessandra Buonanno, M.C. Miller, Ebraheem Farag, R.J. DeBoer, M. Wiescher, and F.X. Timmes, *Astrophysical Journal*, In Press
- r122. [Skye: A Differentiable Equation of State](#), Adam S. Jermyn, Josiah Schwab, Evan Bauer, F.X. Timmes, and Alexander Y. Potekhin, *Astrophysical Journal*, 913, 72, 2021
- r121. [On the Impact Of \$^{22}\text{Ne}\$ On The Pulsation Periods Of Carbon-Oxygen White Dwarfs With Helium Dominated Atmospheres](#), Morgan T. Chidester, F.X. Timmes, Josiah Schwab, Richard H. D. Townsend, Ebraheem Farag, Anne Thoul, C. E. Fields, Evan B. Bauer, Michael H. Montgomery, *Astrophysical Journal*, 910, 24, 2021
- r120. [Presupernova Neutrinos: Directional Sensitivity and Prospects for Progenitor Identification](#), Mainak Mukhopadhyay, Cecilia Lunardini, F.X. Timmes, and Kai Zuber, *Astrophysical Journal*, 899, 153, 2020
- r119. [On Stellar Evolution In A Neutrino Hertzsprung-Russell Diagram](#), Ebraheem Farag, F.X. Timmes, Morgan Taylor, Kelly M. Patton, and R. Farmer, *Astrophysical Journal*, 893, 133, 2020
- r118. [Laminar Flame Speeds in Degenerate Oxygen-Neon Mixtures](#), Josiah Schwab, R. Farmer, and F.X. Timmes, *Astrophysical Journal*, 891, 5, 2020
- r117. [Modules for Experiments in Stellar Astrophysics \(MESA\): Pulsating Variable Stars, Rotation, Convective Boundaries, and Energy Conservation](#), Bill Paxton, R. Smolec, Josiah Schwab, A. Gautschy, Lars Bildsten, Matteo Cantiello, Aaron Dotter, R. Farmer, Jared A. Goldberg, Adam S. Jermyn, S.M. Kanbur, Pablo Marchant, Anne Thoul, Richard H.D. Townsend, William M. Wolf, Michael Zhang, and F.X. Timmes, *ApJ Supplement*, 243, 10, 2019

- r116. [On the Structure, Magnetic Properties, and Infrared Spectra of Iron Pseudocarbynes in the Interstellar Medium](#), P. Tarakeshwar, P.R. Buseck and F.X. Timmes, *Astrophysical Journal*, 879, 2, 2019
- r115. [Quantifying How Density Gradients And Front Curvature Affect Carbon Detonation Strength During Type Ia Supernovae](#), Broxton J. Miles, Dean M. Townsley, Ken J. Shen, F. X. Timmes, and Kevin Moore, *Astrophysical Journal*, 871, 154, 2019
- r114. [The Impact Of White Dwarf Luminosity Profiles On Oscillation Frequencies](#), F.X. Timmes, Richard H. D. Townsend, Evan B. Bauer, Anne Thoul, C.E. Fields, and William M. Wolf, *Astrophysical Journal Letters*, 867, 30, 2018
- r113. [Data: Insights and Challenges in a Time of Abundance](#), F.X. Timmes and Leon Golub *Astrophysical Journal Supplement* 236, 1, 2018
- r112. [Modules for Experiments in Stellar Astrophysics \(MESA\): Convective Boundaries, Element Diffusion, and Massive Star Explosions](#), B. Paxton, J. Schwab, E. B. Bauer, L. Bildsten, S. Blinnikov, P. Duffell, R. Farmer, J. A. Goldberg, P. Marchant, E. Sorokina, A. Thoul, R. H. D. Townsend and F.X. Timmes, *Astrophysical Journal Supplement* 234, 34, 2018
- r111. [On the Observability of Individual Population III Stars and Their Stellar-mass Black Hole Accretion Disks through Cluster Caustic Transits](#), Rogier A. Windhorst, F.X. Timmes, J. Stuart B. Wyithe, Mehmet Alpaslan, Stephen K. Andrews, Daniel Coe, Jose M. Diego, Mark Dijkstra, and Simon P. Driver, Patrick L. Kelly, and Duho Kim, *Astrophysical Journal Supplement*, 234, 21, 2018.
- r110. [The Impact of Nuclear Reaction Rate Uncertainties On The Evolution of Core-Collapse Supernova Progenitors](#), C.E. Fields, F.X. Timmes, R. Farmer, I. Petermann, William M. Wolf, and S. M. Couch, *Astrophysical Journal Supplement*, 234, 19, 2018.
- r109. [The Neutron Capture Process in the He Shell in Core-Collapse Supernovae. Presolar Silicon Carbide Grains: a diagnostic for nuclear astrophysics](#), M. Pignatari, P. Hoppe, R. Trappitsch, C. Fryer, F.X. Timmes, F. Herwig, and R. Hirschi, *Geochimica and Cosmochimica Acta*, 221, 37, 2018
- r108. [Neutrinos from beta processes in a presupernova: probing the isotopic evolution of a massive star](#), Kelly M. Patton, Cecilia Lunardini, Robert J. Farmer, and F.X. Timmes, *Astrophysical Journal*, 851, 6, 2017
- r107. [The \$^{12}\text{C}\(\alpha,\gamma\)^{16}\text{O}\$ reaction and its implications for stellar helium burning](#), R. J. deBoer, J. Gorres, M. Wiescher, R.E. Azuma, A. Best, C.R. Brune, C.E. Fields, S. Jones, M. Pignatari, D. Sayre, K. Smith, F.X. Timmes, & E. Uberseder, *Review of Modern Physics*, 89, 035007, 2017
- r106. [Observational evidence for high neutronization in supernova remnants: implications for Type Ia supernova progenitors](#), Héctor Martínez-Rodríguez, Carles Badenes, Hiroya Yamaguchi, Eduardo Bravo, F.X. Timmes, M.J. Broxton, Dean M. Townsley, Anthony L. Piro, Hideyuki Mori, Brett Andrews, and S. Park *Astrophysical Journal*, 843, 35, 2017

- r105. [White paper on nuclear astrophysics and low energy nuclear physics Part 1: Nuclear astrophysics](#), A. Arcones and 32 others including F.X. Timmes, *Progress in Particle and Nuclear Physics*, 94, 1, 2017
- r104. [Constraining the Single-degenerate Channel of Type Ia Supernovae with Stable Iron-group Elements in SNR 3C 397](#), Pranav Dave, Rahul Kashyap, Robert Fisher, F.X. Timmes, Dean Townsley, *Astrophysical Journal*, 841, 58, 2017
- r103. [On Variations Of Pre-Supernova Model Properties](#), R. Farmer, C.E. Fields, I. Petermann, Luc Dessart, M. Cantiello, B. Paxton, & F.X. Timmes, *Astrophysical Journal Supplement*, 227, 22, 2016
- r102. [Turbulent Chemical Diffusion In Convectively Bounded Carbon Flames](#), Daniel Lecoanet, Josiah Schwab, Eliot Quataert, Lars Bildsten, F.X. Timmes, Keaton J. Burns, Geoffrey M. Vasil, Jeffrey S. Oishi, & Benjamin P. Brown, *Astrophysical Journal*, 832, 71, 2016
- r101. [Bayesian Estimation Of Thermonuclear Reaction Rates](#), C. Iliadis, K.A. Anderson, A. Coc, S. Starrfield, & F.X. Timmes, *Astrophysical Journal*, 831, 107, 2016
- r100. [NuGrid stellar data set. I. Stellar yields from H to Bi for stars with metallicities \$Z=0.02\$ and \$Z=0.01\$](#) , Pignatari, M., Herwig, F., Hirschi, R., Bennett, M., Rockefeller, G., Fryer, C., Timmes, F. X., Ritter, C., Heger, A., Jones, S., Battino, U., Ritter, C., Dotter, A., Trappitsch, R., Diehl, S., Frischknecht, U., Hungerford, A., Magkotsios, G., Travaglio, C. Young, P., *Astrophysical Journal*, 225, 24, 2016
- r99. [Nucleosynthetic Yields From Multidimensional Simulations of Type Ia Supernova: Reconstruction of Thickened Flames and Verification for Planar Detonations](#), D.M. Townsley, B.J. Miles, F.X. Timmes, A.C. Calder, and E.F. Brown, *Astrophysical Journal Supplement*, 225, 3, 2016
- r98. [On Measuring the Metallicity of Supernovae Type Ia Progenitors](#), B.J. Miles, D.R. van Rossum, D.M. Townsley, F.X. Timmes, A.P. Jackson, A.C. Calder, and E.F. Brown, *Astrophysical Journal*, 824, 59, 2016
- r97. [Properties of Carbon-Oxygen White Dwarfs From Monte Carlo Stellar Models](#) C.E. Fields, R. Farmer, I. Petermann, C. Iliadis, and F.X. Timmes, *Astrophysical Journal*, 823, 46, 2016
- r96. [Convective Properties of Rotating Two-Dimensional Core-Collapse Supernova Progenitors](#) E. Chatzopoulos, S.M. Couch, W.D. Arnett, and F.X. Timmes, *Astrophysical Journal*, 822, 61, 2016
- r95. [Erratum: Modules for Experiments in Stellar Astrophysics \(MESA\): Binaries, Pulsations, and Explosions](#), B. Paxton, P. Marchant, J. Schwab, E.B. Bauer, L. Bildsten, M. Cantiello, L. Dessart, R. Farmer, H. Hu, N. Langer, R.H.D. Townsend, D.M. Townsley, and F.X. Timmes, *Astrophysical Journal Supplement*, 223, 18, 2016
- r94. [Modules for Experiments in Stellar Astrophysics \(MESA\): Binaries, Pulsations, and Explosions](#), B. Paxton, P. Marchant, J. Schwab, E.B. Bauer, L. Bildsten, M. Cantiello, L. Dessart, R. Farmer, H. Hu, N. Langer, R.H.D. Townsend, D.M. Townsley, and F.X. Timmes, *Astrophysical Journal Supplement*, 220, 1, 2015

- r93. [Carbon-rich presolar grains from massive stars: Subsolar \$^{12}\text{C}/^{13}\text{C}\$ and \$^{14}\text{N}/^{15}\text{N}\$ ratios and the missing \$^{15}\text{N}\$](#) , M. Pignatari, E. Zinner, P. Hoppe, C. Jordan, B.K. Gibson, R. Trappitsch, F. Herwig, C.L. Fryer, R. Hirschi, and F.X. Timmes, *Astrophysical Journal Letters*, 808, 2, 2015
- r92. [The Three Dimensional Evolution to Core Collapse of a Massive Star](#), S.M. Couch, E. Chatzopoulos, W.D. Arnett, and F.X. Timmes, *Astrophysical Journal Letters*, 808, 1, 2015
- r91. [On Carbon Burning in Super Asymptotic Giant Branch Stars](#), R. Farmer, C.E. Fields, and F.X. Timmes, *Astrophysical Journal*, 807, 184, 2015
- r90. [Constraints On Explosive Silicon Burning In Core-Collapse Supernovae From Measured Ni/Fe Ratios](#), A. Jerkstrand, F.X. Timmes, G. Magkotsios, S.A. Sim, C. Fransson, J. Spyromilio, J. Sollerman, A. Heger, B. Müller, J. Sollerman, and S.J. Smartt, *Astrophysical Journal*, 807, 110, 2015
- r89. [Statistical Methods for Thermonuclear Reaction Rates and Nucleosynthesis Simulations](#), C. Iliadis, R. Longland, A. Coc, F.X. Timmes and A.E. Champagne, *Journal of Physics G: Nuclear and Particle Physics*, 42 034007, 2015
- r88. [Stellar Abundances in the Solar Neighborhood: The Hypatia Catalog](#), N.R. Hinkel, F.X. Timmes, P.A. Young, M.D. Pagano, M.C. Turnbull, *The Astronomical Journal*, 148, 54, 2014
- r87. [The Light Curve Of SN 1987A Revisited: Constraining Production Masses Of Radioactive Nuclides](#), I. Seitenzahl, F.X. Timmes, and G. Magkotsios, *Astrophysical Journal*, 792, 10, 2014
- r86. [On Silicon Group Elements Ejected by Supernovae Type Ia](#), S. De, F.X. Timmes, E.F. Brown, A.C. Calder, D.M. Townsley, T. Athanassiadou, D.A. Chamulak, W.P. Hawley, and D. Jack, *Astrophysical Journal*, 787, 149, 2014
- r85. [Evolution of FLASH, a multi-physics scientific simulation code for high-performance computing](#), A. Dubey and 19 co-authors including F.X. Timmes, *International Journal of High Performance Computing Applications*, 28, 2, 225, 2014
- r84. [Modules for Experiments in Stellar Astrophysics \(MESA\): Planets, Oscillations, Rotation, and Massive Stars](#), B. Paxton, M. Cantiello, P. Arras, L. Bildsten, E.F. Brown, A. Dotter, C. Mankovich, M.H. Montgomery, D. Stello, F.X. Timmes, and R. Townsend, *Astrophysical Journal Supplement*, 208, 4, 2013
- r83. [Advanced burning stages and fate of 8-10 \$M_{\odot}\$ stars](#), S. Jones, R. Hirschi, K. Nomoto, F.X. Timmes, T. Fischer, F. Herwig, and B. Paxton, *Astrophysical Journal*, 772, 150, 2013
- r82. [STARLIB: A Next-Generation Reaction-Rate Library for Nuclear Astrophysics](#), A.L. Sallaska, C. Iliadis, A.E. Champagne, S. Goriely, S. Starrfield, and F. X. Timmes, *Astrophysical Journal Supplement*, 207, 18, 2013
- r81. [Silicon carbide grains of type C provide evidence for the production of the unstable isotope \$^{32}\text{Si}\$ in supernovae](#), M. Pignatari, E. Zinner, M. G. Bertolli, R. Trappitsch, P. Hoppe, T. Rauscher, C. Fryer, F. Herwig, R. Hirschi, F. X. Timmes, and F.-K. Thielemann, *Astrophysical Journal Letters*, 771, L7, 2013

- r80. [Production of carbon-rich presolar grains from massive stars](#), M. Pignatari, M. Wiescher, F.X. Timmes, R.J. de Boer, F.-K. Thielemann, C. Fryer, A. Heger, F. Herwig, and R. Hirschi, *Astrophysical Journal Letters*, 767 L22, 2013
- r79. [The \$^{12}\text{C} + ^{12}\text{C}\$ reaction and the impact on nucleosynthesis in massive stars](#), M. Pignatari, R. Hirschi, M. Wiescher, R. Gallino, M. Bennett, M. Beard, C. Fryer, F. Herwig, G. Rockefeller, and F.X. Timmes, *Astrophysical Journal*, 762, 31, 2013
- r78. [On Simulating Type Ia Supernovae](#), A.C. Calder, B.K. Krueger, A.P. Jackson, D.M. Townsley, E.F. Brown and F.X. Timmes, *Journal of Physics*, 402, 012023, 2012
- r77. [Zero Impact Parameter White Dwarf Collisions in FLASH](#), W.P. Hawley, T. Athanassiadou, and F.X. Timmes, *Astrophysical Journal*, 759, 39, 2012
- r76. [Evaluating Systematic Dependencies of Type Ia Supernovae: The Influence of Central Density](#), B.K. Krueger, A.P. Jackson, A.C. Calder, D.M. Townsley, E.F. Brown, and F.X. Timmes, *Astrophysical Journal*, 757, 175, 2012
- r75. [Mixing of Clumpy Supernova Ejecta into Molecular Clouds](#), L. Pan, S. Desch, E. Scannapieco, and F.X. Timmes, *Astrophysical Journal*, 756, 102, 2012
- r74. [The effect of \$^{12}\text{C} + ^{12}\text{C}\$ rate uncertainties on the evolution and nucleosynthesis of massive stars](#), M. E. Bennett, R. Hirschi, M. Pignatari, S. Diehl, C. Fryer, F. Herwig, A. Hungerford, K. Nomoto, G. Rockefeller, F.X. Timmes, and M. Wiescher, *Monthly Notices of the Royal Astronomical Society*, 420, 3047, 2012
- r73. [Remnants of Binary White Dwarf Mergers](#) C. Raskin, E. Scannapieco, G. Rockefeller, C.L. Fryer, and F.X. Timmes, *Astrophysical Journal*, 746, 62, 2012
- r72. [Freeze-out Yields of Radioactivities in Core-collapse Supernovae](#) G. Magkotsios, F.X. Timmes, and M. Wiescher, *Astrophysical Journal*, 741 78, 2011
- r71. [Modules for Experiments in Stellar Astrophysics \(MESA\)](#), B. Paxton, L. Bildsten, A. Dotter, F. Herwig, P. Lesaffre, and F.X. Timmes, *Astrophysical Journal Supplement*, 192 3, 2011
- r70. [\$^{44}\text{Ti}\$ and \$^{56}\text{Ni}\$ from Core-Collapse Supernovae](#), G. Magkotsios, F.X. Timmes, A. Hungerford, C.L. Fryer, P. Young, and M. Wiescher, *Astrophysical Journal Supplement*, 191 66, 2010
- r69. [\$^{56}\text{Ni}\$ Production in Double-degenerate White Dwarf Collisions](#), C. Raskin, E. Scannapieco, G. Rockefeller, C.L. Fryer, S. Diehl and F.X. Timmes, *Astrophysical Journal*, 724 111, 2010
- r68. [Evaluating Systematic Dependencies of Type Ia Supernovae: The Influence of Deflagration to Detonation Density](#), A.P. Jackson, A.C. Calder, D.M. Townsley, D.A. Chamulak, E.F. Brown, and F.X. Timmes, *Astrophysical Journal*, 720 99, 2010
- r67. [On Variations of the Brightness of Type Ia Supernovae with the Age of the Host Stellar Population](#), B.K. Krueger, A.P. Jackson, D.M. Townsley, A.C. Calder, E.F. Brown, and F.X. Timmes, *Astrophysical Journal*, 719 L5, 2010

- r66. [Spectra of Type Ia Supernovae from Double Degenerate Mergers](#), C.L. Fryer and 16 others including F.X. Timmes, *Astrophysical Journal*, 725 296, 2010
- r65. [The effect of \$^{12}\text{C} + ^{12}\text{C}\$ rate uncertainties on s-process yields](#), M.E. Bennett and 11 others including F.X. Timmes, *Journal of Physics*, 202, 012023, 2010
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