

Francis Xavier Timmes

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[Arizona State University](#) (ASU)

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Research Interests

Supernovae, with emphasis on their progenitor evolution, explosion, and nucleosynthesis.

Cosmic chemical evolution, the evolution of every isotope at every point in spacetime.

Astrobiology, the synthesis and delivery of bioessential elements to habitable systems.

Gamma-ray astronomy, particularly from radioactive isotopes.

High Performance Computing, developing centralized, 21st Century research computing facilities.

Education

1988 – 1992 UC Santa Cruz Ph.D. & M.S. in Astronomy & Astrophysics

Ph.D. Thesis: “Reactive Flows in Compact Objects”

1981 – 1984 UC Santa Barbara B.S. in Physics, with Honors

Appointments

2011 –	Director, Advanced Computing Center	ASU
2008 –	Professor	SESE, ASU
2009 – 2011	Associate Director, Operations	SESE, ASU
2008 – 2009	Associate Director, Graduate Studies	SESE, ASU
2006 – 2007	Staff Member	Thermonuclear Applications, Los Alamos
2005 – 2006	Senior Advisor	Theoretical Division, Los Alamos
2004 – 2007	Adjunct Professor	Dept. of Physics, University of Arizona
2003 – 2005	Group Leader	Theoretical Astrophysics Group, Los Alamos
1998 – 2003	Assistant Professor	School of the Art Institute of Chicago
1998 – 2003	Senior Research Associate	FLASH Center, University of Chicago
1995 – 1998	Compton Postdoctoral Fellow	NASA
1992 – 1995	Fermi Postdoctoral Fellow	University of Chicago

Publication Summary

211 publications, 77 in refereed journals. About [3443 citations](#). Lifetime *h*-index [26](#).

[One](#) of the [25 most cited](#) Astronomy & Astrophysics papers published in 1995.

[One](#) of the [20 most cited](#) Astronomy & Astrophysics papers published in 2000.

[Front Cover](#) of Physics Today, February 2002.

Awards, Fellowships, and Honors

2008 Certificate of Service, Department of Energy / University of Chicago

2006 Defense Program Award of Excellence, Los Alamos National Laboratory

2004 National Security Fellow, Los Alamos National Laboratory

2000 Gordon Bell Prize [Supercomputing](#), University of Chicago

1995 Compton Gamma Ray Observatory Fellow, NASA

1993 Enrico Fermi Fellow, University of Chicago

1990 Teaching Assistant of the Year, UC Santa Cruz

Recent National and International Service

- 2011 – [RFI Committee](#), Gig.U - University Community Partnership for Next Generation Innovation
- 2009 – [Scientific Editor](#), The Astrophysical Journal
- 2007 – 2008 Supernova Theory Lead, ([DESTINY](#)) mission concept, DOE & NASA
- 2007 – 2008 Science Working Group, [Advanced Compton Telescope](#) Mission, NASA
- 2007 – 2008 Organizing Committee, [Nuclei in the Cosmos X](#)
- 2007 – 2007 Guest Editor, Defense Research Review
- 2006 – Executive Committee, [Joint Institute for Nuclear Astrophysics](#), an NSF Frontier Center
- 2004 – 2007 Authorized Derivative Classifier, LANL
- 2004 – 2006 Panel Member, Rare Isotope Accelerator Blue Book
- 2004 – Review ~ 20 proposals/year for NSF, NASA, DOE & Private Foundations

Recent University and Department Service

- 2012 – Provost's Committee on Excellence in Digital Teaching, ASU
- 2012 – Teaching Information Technology Leadership Council, ASU
- 2011 – Director, ASU Advanced Computing Center ([A2C2](#))
- 2008 – 2011 Associate Director of Operations, SESE, ASU
- 2008 – 2009 Associate Director of Graduate Education, SESE, ASU
- 2008 – Academic Advisor, SESE, ASU
- 2009 – 2010 Deputy-PI, NASA Astrobiology Institute, SESE, ASU
- 2009 – 2011 Bylaws Committee, SESE, ASU
- 2008 – 2009 Graduate Committee, SESE, ASU
- 2008 – 2011 Computing Committee, SESE, ASU
- 2008 – 2010 Awards Committee, SESE, ASU
- 2008 – M.S. and Ph. D. Thesis Committees, ~ 5/yr, SESE & Physics ASU
- 2008 – Comprehensive Examination Committees, ~ 5/yr, SESE & Physics, ASU
- 2008 – 2010 Undergraduate Research Scholarship Reviewer, CLAS, ASU

Recent Education and Public Outreach Activities

- 2012 – Director & Lecturer, [MESA Summer School](#), UCSB
- 2011 – Largest online Science Credit lecture course at ASU, 940 enrolled students in Fall 2011
- 2011 – Largest online Science Credit lab course at ASU, 950 enrolled students in Fall 2011
- 2011 – 2011 Lecturer, Computational Explosive Astrophysics Summer [School](#), UC Berkeley
- 2010 – 2010 First [online course](#) in SESE, 260 students enrolled
- 2009 – 2009 Lecturer, National Nuclear Physics Summer [School](#), Michigan State
- 2009 – 2011 Coordinator, Earthwatch Student Challenge Awards [Program](#), SESE, ASU
- 2008 – 2008 Lecturer, Sally Ride Science [Festival](#), ASU
- 2005 – 2005 Summer School Lecturer, [Joint Institute for Nuclear Astrophysics](#), Notre Dame
- 2004 – 2007 Coordinator, The [Eugene McDermott](#) Scholars Program, LANL
- 2004 – 2007 Coordinator, Earthwatch Student Challenge Awards [Program](#), LANL
- 2004 – My web site cococubed.asu.edu receives ~1M hits/yr
- 1998 – Deliver ~3 talks/yr to K-12, Science Centers, Museums, Astronomy Clubs

Recent Management Activities

2011 – \$1.3M/yr, Director of High Performance Computing, ASU
2009 – 2011 \$16M/yr, Associate Director of Operations, SESE, ASU
2008 – 2009 \$50k/yr, Associate Director of Graduate Studies, SESE, ASU
2007 – 2008 \$750K/yr, Laboratory Directed Research, LANL; 5 staff, 4 postdocs
2005 – 2005 Graduate of Management Institute, LANL
2006 – 2006 Graduate of Leadership Institute, LANL
2004 – 2006 \$3.9M/yr, Astrophysics Group, LANL; 7 staff, 8 postdocs, 4 grads, 18 visitors

Recent Funding History

2011 – 2014	NASA	PI	\$339K over 3 years, <i>Colliding and Merging White Dwarfs</i>
2010 – 2013	NSF	Co-I	\$330K over 3 years, <i>Stellar Models with Monte Carlo Reaction Rates</i>
2009 – 2012	NSF	Co-I	\$513K over 3 years, <i>Supernova Injection into Solar Systems</i>
2009 – 2014	NASA	Co-I	\$6.5M over 5 years, \$100K/yr as Co-I, <i>Follow the Elements</i>
2009 – 2014	NSF	Contract	\$50K/yr, <i>JINA Physics Frontier Center</i>
2009 – 2011	NSF	Co-I	\$506K over 3 years, <i>The Turbulent Origin of the Elements</i>
2008 – 2011	NASA	Co-I	\$498K over 3 years, <i>Self-Enrichment of Star Clusters</i>
2008 – 2011	NSF	PI	\$501K over 3 years, <i>Constraining Double-Degenerate Mergers</i>
2008 – 2011	ASU	PI	\$280K over 3 years, start-up
2008 – 2011	ASU	PI	\$1M over 3 years, High Performance Computing
2008 –	Earthwatch	Co-I	\$15K/yr, Earthwatch Student Challenge Awards
2007 – 2010	NASA	Co-I	\$459K over 3 years <i>Hydrodynamics of Convection and Mixing</i>

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; Harvard University; Kavli Institute for Theoretical Physics; Lawrence Berkeley National Laboratory; Lawrence Livermore National Laboratory; Los Alamos National Laboratory; Michigan State University; North Carolina State at Chapel Hill; Northwestern University; Notre Dame University; Physical Society of Japan Nuclear Physics Division; Princeton University; State University of New York - Stony Brook; Steward Observatory; Texas A&M Commerce; University of Arizona; UC Berkeley; UC Santa Barbara; UC San Diego; University of Chicago; University of Maryland; Washington State University; Yale University

Undergraduate and Graduate Teaching

Introductory Astronomy (ASU 4 semesters, SAIC 6 semesters, UC Santa Cruz 1 semester); Introductory Planets (ASU 5 semester, SAIC 6 semesters); Astronomy Laboratory (ASU 2 semesters); Calculus (SAIC 4 semesters); Geometry in Art & Nature (SAIC 4 semesters); Life in the Universe (SAIC 2 semesters); Numerical Techniques in Earth and Space Sciences (ASU 1 semester)

Graduate and Postdoctoral Sponsors: Stan Woosley, UC Santa Cruz, Graduate Advisor; Jim Truran, University of Chicago, Postdoc Advisor; Don Clayton, Clemson University, Postdoc Advisor; Richard Lingenfelter, UC San Diego, Postdoc Advisor

High School Outreach Projects: *Earthwatch 2009:* Ross Delong, Savannah Mason, Leland O'Connor, Samantha Perez, Emma Perkinson, Gabrielle Roos, Julie Tamanini, Victoria Turner. *Earthwatch 2007:* Michael Chen, Clare Constantine, Andrew Gott, Steven Lippert, Leah Wang, Kathryn Woo, Pia Yarnell. *Earthwatch 2006:* Amy Broome, Jonathan Bruce, Ryan Cristelli, Gar Wai Lee, Ching Man Wong, Sam Garrett, Caitlin Golding, Joseph Lohman. *Earthwatch 2005:* Michael Fan, Gavin Haladay, Daniel Leake, Nabina Liebow, Emily Ruzich, Emily Rector, Dan Thalkar.

Undergraduate Research Projects with

Alex Palmer, McDermott Scholar, B.S. in Physics 2010, UT Dallas, now at University of Chicago
Sandra Schmidt, B.S. in Physics 2011, ASU, now at Intel
Paul Hudak, B.S. in Earth and Space Exploration 2013, ASU
Amed Barakat, B.S. in Physics 2011, ASU, now in the Masters program at ASU
Daniel Orne, B.S. in Aeronautical Engineering 2009 ASU, now at Raytheon
Weston Hanoka, B.S. in Aeronautical Engineering 2009 ASU, now at US Air Force Academy
Christy Hyde, B.S. in Physics 2008, UAlabama
Liam Skoyles, McDermott Scholar, B.S. in EE 2008, UT Dallas, now at Ratheon
Brad Wallace, McDermott Scholar, B.S. in CS 2009, UT Dallas, now pursuing an M.D. at UTexas

Undergraduate Awards

Milissa Smith - 2011 First-Generation Scholarship, ASU
Sandra Schmidt - 2010 Arizona Power Authority Scholarship, ASU
Alex Palmer - 2009 Goldwater Fellow, University of Dallas

Graduate Thesis Advisor to

Cody Raskin, Ph.D. in Astrophysics 2011 (with E. Scannapieco), ASU
Natalie Hinkel Ph.D. in Astrophysics 2012, ASU
Wendy Hawley, Ph.D. in Astrophysics 2011 ASU
Nahks Trenhl, M.S. in Astrophysics 2011 (with P. Young), ASU
Georgios Magkotsios, Ph.D. in Physics 2011 (with M. Wiescher), Notre Dame

Graduate Student Awards

Cody Raskin - 2010 NASA Earth and Space Science Fellowship
Cody Raskin - 2010 Annual Meeting of Nobel Laureates, NSF Invitee

Postdoctoral Advisor to

Themis Athanassiadou, 2009-2012, ASU
Soma De, 2010-2013, ASU
Grant Newsham, 2011-2014, ASU

Postdoctoral Awards

Soma De, SESE Postdoctoral Fellow, 2010-2013

Primary References

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Additional references available upon request.

Refereed Publications

78. On determining the metallicity of individual supernova Type Ia S. De, F.X. Timmes, E.F. Brown, D.M. Townsley, A.C. Calder, *The Astrophysical Journal Supplement*, in preparation
77. Nucleosynthesis in White Dwarf Collisions: FLASH versus SNSPH W.P. Hawley, T. Athanasiadou, C. Raskin, M.L.A. Richardson, E. Scannapieco, and F.X. Timmes, *The Astrophysical Journal Supplement*, Submitted
76. Analyzing the Stellar Abundances in the Solar Neighborhood: The Hypatia Catalog, N. Hinkel, F.X. Timmes, and Margaret C. Turnbull *The Astrophysical Journal*, Submitted
75. [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*, Accepted, In Press, 2012
74. [Remnants of Binary White Dwarf Mergers](#), C. Raskin, E. Scannapieco, G. Rockefeller, C.L. Fryer, and F.X. Timmes, *The Astrophysical Journal*, Accepted, 746, 62, 2012
73. [Freeze-out Yields of Radioactivities in Core-collapse Supernovae](#) G. Magkotsios, F.X. Timmes, and M. Wiescher, *The Astrophysical Journal*, 741 78, 2011
72. [Modules for Experiments in Stellar Astrophysics \(MESA\)](#), B. Paxton, L. Bildsten, A. Dotter, F. Herwig, P. Lesaffre, and F.X. Timmes, *The Astrophysical Journal Supplement*, 192 3, 2011
71. [\$^{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, *The Astrophysical Journal Supplement*, 191 66, 2010
70. [\$^{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, *The Astrophysical Journal*, 724 111, 2010
69. [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, *The Astrophysical Journal*, 720 99, 2010
68. [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, *The Astrophysical Journal*, 719 L5, 2010
67. [Spectra of Type Ia Supernovae from Double Degenerate Mergers](#), C.L. Fryer and 16 others including F.X. Timmes, *The Astrophysical Journal*, 725 296, 2010
66. [The effect of \$^{12}\text{C} + ^{12}\text{C}\$ rate uncertainties on s-process yields](#), M.E. Bennet and 11 others including F.X. Timmes, *Journal of Physics Conference Series* 202, 012023, 2010
65. [On Type Ia Supernovae From The Collisions of Two White Dwarfs](#), C. Raskin, F.X. Timmes, E. Scannapieco, S. Diehl, and C. Fryer, *Monthly Notices of the Royal Astronomical Society*, 399L, 156, 2009

64. [Evaluating Systematic Dependencies of Type Ia Supernovae: The Influence of Progenitor \$^{22}\text{Ne}\$ Content on Dynamics](#), D.M. Townsley, A.P. Jackson, A.C. Calder, D.A. Chamulak, E.F. Brown, and F.X. Timmes, *The Astrophysical Journal*, 701, 1582, 2009
63. [The Effects of the pep Nuclear Reaction and Other Improvements in the Nuclear Reaction Rate Library on Simulations of the Classical Nova Outburst](#), S. Starrfield, C. Iliadis, W.R. Hix, F.X. Timmes, and W.M. Sparks, *The Astrophysical Journal*, 692, 1532, 2009
62. [Proton-rich Nuclear Statistical Equilibrium](#), I.R. Seitenzahl, F.X. Timmes, A. Marin-Lafleche, E.F. Brown, G. Magkotsios, and J. Truran, *The Astrophysical Journal*, 685, L129, 2008
61. [The Reduction of the Electron Abundance during the Pre-explosion Simmering in White Dwarf Supernovae](#), D. Chamulak, E.F. Brown, F.X. Timmes, and K. Dupczak, *The Astrophysical Journal*, 677, 160, 2008
60. [The Laminar Flame Speedup by Neon-22 Enrichment in White Dwarf Supernovae](#), D. Chamulak, E.F. Brown, and F.X. Timmes, *The Astrophysical Journal*, 655, L93, 2007
59. [r-Process from Supernova fallback](#) Christopher L. Fryer, Aimee Hungerford, Falk Herwig, and F.X. Timmes, *The Astrophysical Journal*, 626, L141, 2006
58. [Hydrodynamic simulations of He-shell flash convection](#), F. Herwig, B. Freytag, R. M. Hueckstaedt and F.X. Timmes, *The Astrophysical Journal*, 642, 1057, 2006
57. [Local Ignition in Carbon/Oxygen White Dwarfs – I: One-zone Ignition and Spherical Shock Ignition of Detonations](#), L. Jonathan Dursi and F.X. Timmes *The Astrophysical Journal*, 641, 1071, 2006
56. [Constraints on the Progenitor of Cassiopeia A](#), P.A. Young, C.L. Fryer, A. Hungerford, D. Arnett, G. Rockefeller, F.X. Timmes, B. Voit, C. Meakin, K. Erickson, *The Astrophysical Journal*, 640, 891, 2006
55. [Changing the r-Process Paradigm](#), C.L. Fryer, A. Hungerford, F.X. Timmes *Nuclear Physics A*, 758, 599, 2005
54. [Studies of Accretion onto Hot, Massive White Dwarfs: The Growth to the Chandrasekhar Limit?](#), S. Starrfield, W.R. Hix, F.X. Timmes, E.M. Sion, W.M. Sparks, S.J. Dwyer, *Nuclear Physics A*, 758, 455, 2005
53. [Nucleosynthetic Signatures of Asymmetric Supernovae - Lessons from 1-dimensional Explosions](#), A. Hungerford, C.L. Fryer, F.X. Timmes, K. McGhee, *Nuclear Physics A*, 758, 15, 2005
52. [Understanding Compact Object Formation and Natal Kicks. I. Calculation Methods and the Case of GRO J1655-40](#), B. Willems, M. Henninger, T. Levin, N. Ivanova, V. Kalogera, K. McGhee, K. F.X. Timmes, C.L. Fryer, *Astrophysical Journal*, 625, 324, 2005
51. [On the Nonlinear Evolution of Wind-driven Gravity Waves](#), A. Alexakis, A.C. Calder, L.J. Dursi, R. Rosner, J.W. Truran, B. Fryxell, M. Zingale, F.X. Timmes, K. Olson, P.M. Ricker, *Physics of Fluids*, 16, 9, 3256, 2004

50. [Morphology of Rising Hydrodynamic and Magneto-hydrodynamic Bubbles from Numerical Simulations](#), K. Robinson, L.J. Dursi, P.M. Ricker, R. Rosner, T. Linde, M. Zingale, A.C. Calder, B. Fryxell, J.W. Truran, F.X. Timmes, A. Ceres, K. Olson, K. Riley, A. Siegel, N. Vladimirova, *Astrophysical Journal*, 601, 621, 2004
49. [A Comparison of High-Resolution 3D Numerical Simulations of Turbulent Rayleigh-Taylor \(RT\) Instability: Alpha-Group Collaboration](#), G. Dimonte, D. Youngs, A. Dimits, S. Weber, M. Marinak, S. Wunsch, C. Garasi, A. Robinson, M. Andrews, P. Ramaprabhu, A. Calder, B. Fryxell, J. Biello, L. Dursi, P. MacNeice, K. Olson, P. Ricker, R. Rosner, F. Timmes, H. Tufo, Y.-N. Young, & M. Zingale, *Physics of Fluids*, 16, 1668, 2004
48. [Surface Hydrogen-burning Modeling of Supersoft X-Ray Binaries: Are They Type Ia Supernova Progenitors?](#), S. Starrfield, F.X. Timmes, W.R. Hix, E.M. Sion, W.M. Sparks, S.J. Dwyer, *Astrophysical Journal Letters*, 612, L53, 2004
47. [Validation Tests for Astrophysical Simulation Codes](#), A.C. Calder, L.J. Dursi, B. Fryxell, T. Plewa, V.G. Weirs, T. Dupont, H. F. Robey, J.O. Kane, R.P. Drake, B. A. Remington, G. Dimonte, J. Hayes, J. M. Stone, P. M. Ricker, F.X. Timmes, M. Zingale, & K. Olson, *Computing in Science and Engineering*, 10, 6, 2004
46. [On Heavy Element Enrichment in Classical Novae](#), A. Alexakis, A.C. Calder, A. Heger, E.F. Brown, L.J. Dursi, J.W. Truran, R. Rosner, D.Q. Lamb, F.X. Timmes, B. Fryxell, M. Zingale, P.M. Ricker, K. Olson, *Astrophysical Journal*, 602, 931, 2004
45. [The Response of Model and Astrophysical Thermonuclear Flames to Curvature and Stretch](#), L.J. Dursi, M. Zingale, A.C. Calder, B. Fryxell, F.X. Timmes, N. Vladimirova, R. Rosner, A. Caceres, D.Q. Lamb, K. Olson, P.M. Ricker, K. Riley, A. Siegel, J.W. Truran, *Astrophysical Journal*, 595, 955, 2003
44. [On Variations in the Peak Luminosity of Type Ia Supernovae](#), F.X. Timmes, Edward F. Brown, J.W. Truran, *Astrophysical Journal*, 590, L83, 2003
43. [Mapping Initial Hydrostatic Models in Godunov Codes](#), M. Zingale, L. J. Dursi, J. ZuHone, A. C. Calder, B. Fryxell, T. Plewa, J. W. Truran, A. Caceres, K. Olson, P. M. Ricker, K. Riley, R. Rosner, A. Siegel, F. X. Timmes, & N. Vladimirova, *Astrophysical Journal Supplement*, 143, 539, 2002
42. [On Validating an Astrophysical Simulation Code](#), A.C. Calder, B. Fryxell, T. Plewa, R. Rosner, T. Dupont, B.A. Remington, R.P. Drake, G. Dimonte, M. Zingale, L.J. Dursi, F.X. Timmes, K. Olson, P. Ricker, P. MacNeice, & H. Tufo, *Astrophysical Journal*, 143, 201, 2002
41. [Numerical Simulations of Thermonuclear Flashes on Neutron Stars](#) B. Fryxell, M. Zingale, F.X. Timmes, D.Q. Lamb, K. Olson, A.C. Calder, L.J. Dursi, P. Ricker, R. Rosner, J.W. Truran, P. MacNeice, & H. Tufo, *Nuclear Physics A*, 688, 172, 2001
40. [Helium Detonations on Neutron Stars](#), M. Zingale, F.X. Timmes, B. Fryxell, D.Q. Lamb, K. Olson, A.C. Calder, L.J. Dursi, P. Ricker R. Rosner, P. MacNeice, & H. Tufo, *Astrophysical Journal Supplement*, 133, 195, 2001

39. [High-Performance Reactive Fluid Flow Simulations Using Adaptive Mesh Refinement on Thousands of Processors](#), A.C. Calder, B.C. Curtis, L.J. Dursi, B. Fryxell, G. Henry, P. MacNeice, K. Olson, P. Ricker, R. Rosner, F.X. Timmes, H.M. Tufo, J.W. Truran, & M. Zingale, Proceedings of Supercomputing 2000, IEEE Computer Society, 226, Gordon Bell Prize
38. [FLASH: An Adaptive Mesh Hydrodynamics Code for Modeling Astrophysical Thermonuclear Flashes](#) B. Fryxell, K. Olson, P. Ricker, F.X. Timmes, M. Zingale, D.Q. Lamb, P. MacNeice, R. Rosner, & H. Tufo, Astrophysical Journal Supplement, 131, 273, 2000
37. [On the Cellular Structure of Carbon Detonations](#), F.X. Timmes, M. Zingale, K. Olson, B. Fryxell, P. Ricker, A.C. Calder, L.J. Dursi, J.W. Truran, & R. Rosner, Astrophysical Journal, 543, 938, 2000
36. [An Inexpensive Nuclear Energy Generation Network For Stellar Hydrodynamics](#), F.X. Timmes, R.D. Hoffman, & S.E. Woosley, Astrophysical Journal Supplement, 129, 377, 2000
35. [Regimes of Helium Burning](#), F.X. Timmes & J. C. Niemeyer, Astrophysical Journal, 537, 993, 2000
34. [Flash code: Studying Astrophysical Thermonuclear Flashes](#) R. Rosner, A. Calder, J. Dursi, B. Fryxell, D.Q. Lamb, J. Niemeyer, K. Olson, P. Ricker, F.X. Timmes, J. Truran, H. Tufo, Y. Young, & M. Zingale, Computing in Science and Engineering, 3, 22, 2000
33. [The Accuracy, Consistency, and Speed Of An Electron–Positron Equation Of State Based On Table Interpolation Of The Helmholtz Free Energy](#), F.X. Timmes & F. Douglas Swesty, Astrophysical Journal Supplement, 126, 501, 2000
32. [Physical Properties of Laminar Helium Deflagrations](#), F.X. Timmes, Astrophysical Journal, 528, 913, 2000
31. [The Accuracy, Consistency, and Speed of Five Equations of State For Stellar Hydrodynamics](#), F.X. Timmes & D. Arnett, Astrophysical Journal Supplement, 125, 277, 1999
30. [Integration of Nuclear Reaction Networks For Stellar Hydrodynamics](#), F.X. Timmes, Astrophysical Journal Supplement, 124, 241, 1999
29. [Gamma-Ray Line Emission From Radioactive Isotopes in Stars and Galaxies](#), R. Diehl & F.X. Timmes, Publications of Astronomical Society of the Pacific, 110, 637 1998
28. [Gamma-Ray Line Signals From Supernovae Within 100 Mpc](#), F.X. Timmes & S.E. Woosley, Astrophysical Journal, 489, 160, 1997
27. [Synthesis of the Elements in Stars: Forty Years of Progress](#), G. Wallerstein, I. Iben Jr., P. Parker, A.M. Boesgaard, G.M. Hale, A.E., Champagne, C.A. Barnes, F. Kappeler, V.V. Smith, R.D. Hoffman, F.X. Timmes, C. Sneden, R.N. Boyd, B.S. Meyer, D.L. Lambert, Review of Modern Physics, 69, 995, 1997

26. [On Flamsteed's supernova Cas A](#), D.H. Hartmann, P. Predehl, J. Greiner, R. Egger, J. Trumper, B. Aschenbach, A.F. Iyudin, R.D. Diehl, U. Oberlack, V. Schoenfelder, M.D. Leising, L.-S. The, F.X. Timmes, S.E. Woosley, R. Hoffman, N. Langer and G. Garcia-Segur *Nuclear Physics A*, 621, 83, 1997
25. [Implications of Presolar Grains for Galactic Chemical Evolution](#) D. D. Clayton & F.X. Timmes, in *Astrophysical Implications of the Laboratory Study of Presolar Materials*, ed. T. J. Bernatowicz & E. Zinner, American Institute of Physics, 402, 237, 1997
24. [Nucleosynthesis in Massive Stars and Supernovae](#), S.E. Woosley, R.D. Hoffman, F.X. Timmes, F.-K. Thielemann & T.A. Weaver, *Nuclear Physics A*, 621, 445, 1997
23. [Cosmic Chemical Evolution](#), J.W. Truran & F.X. Timmes, *Nuclear Physics A*, 621, 548, 1997
22. [Placing the Sun in Galactic Chemical Evolution: Mainstream SiC Particles](#), D. D. Clayton & F.X. Timmes, *Astrophysical Journal*, 483, 220, 1997
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