

Arizona State University

School of Earth and Space Exploration (SESE)

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Research Interests

Stars, in general and accented with Modules for Experiments for Stellar Astrophysics.

Supernovae, with emphasis on their progenitor evolution, explosion, 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, particularly from radioactive isotopes.

Software Instruments, High Performance Computing, and next-generation Internet.

Recent Appointments

2016 – Lead Editor, American Astronomical Society [Journals](#)2009 – Scientific Editor, American Astronomical Society [Journals](#)

2008 – Professor, SESE, ASU

2011 – 2015 Director, [ASU Advanced Computing Center](#), ASU

Recent Honors

2015 [Simons Fellow](#) in Theoretical Physics2014 [Fellow](#), American Physical Society2013 Student Student Cluster Competition Prize, [Supercomputing](#)

Recent Research Funding

Since 2008: \$26.0M, \$6.8M to ASU

2017 – 2021 NSF PI \$2.3M, *Modules for Experiments ... (MESA)*2015 – 2018 NASA Co-PI \$676K, *Assessing the Effects of New Reaction Rates ...*2014 – 2019 NSF Co-PI \$11.2M, *Physics Frontiers Center, JINA-CEE*2014 – 2017 NSF PI \$806, *Modules for Experiments ... (MESA)*2014 – 2017 NASA PI \$1.2M, *Supernova Progenitor ... (SPIDER)*

Recent Education Activities

2015 – Largest [college-credit](#) eligible astronomy course in the world, ~30,000 students/yr2011 – Director & Lecturer, [MESA Summer School](#), UC Santa BarbaraAug2015 First [college-credit](#) eligible MOOC in the world

Publication Summary

269 publications, 104 refereed + 4 under review + 2 in preparation.

Citations: [7213 ADS](#), [9562 Google Scholar](#); h -index: 38 ADS, 42 Google Scholar.

Papers with 1000+ citations: 2; with 500+ citations: 4; with 200+ citations: 11; with 100+ citations: 19.

One of the 25 most cited Astrophysics papers published in [1995](#), [2000](#), [2011](#), [2013](#), and [2015](#).