

Curriculum Vitae Peter Hoppe

Personal Information:

Name: Peter Hoppe

Address: Max Planck Institute for Chemistry
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Education:

1987: Diploma (M.S.) in Physics, University of Bern, Switzerland

1990: Doctorate (Ph.D.) in Physics, University of Bern, Switzerland

1997: Habilitation in Extraterrestrial Physics, University of Bern, Switzerland

Research Positions:

1990-1991: Research Associate, Physics Institute, University of Bern, Switzerland

1991-1992: Research Associate, McDonnell Center for the Space Sciences, Washington University, St. Louis, USA

1992-1997: Research Associate (Head of SIMS laboratory), Physics Institute, University of Bern, Switzerland

1997-2005: Senior Research Scientist (C3 Position), Cosmochemistry Department, Max Planck Institute for Chemistry, Mainz, Germany

2005-present: Senior Research Scientist (C3 Position), Particle Chemistry Department, Max Planck Institute for Chemistry, Mainz, Germany

Scholarships, Awards, and Honors:

1991-1992: Research scholarship for Washington University, St. Louis, granted by the Swiss National Science Foundation

2002: Fellow of the Meteoritical Society

2013: NASA Group Achievement Award, Stardust Interstellar Preliminary Examination Team

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Main Research Fields:

Solar System formation, meteorites, presolar grains, interstellar dust, stellar nucleosynthesis and evolution, Secondary Ion Mass Spectrometry

Professional Societies:

- Meteoritical Society (Fellow since 2002)
- German Physical Society
- Swiss Physical Society

Selected Publications:

- 1) Hoppe P., Leitner J., and Kodolányi J. (2017) The stardust abundance in the local interstellar cloud at the birth of the Solar System. *Nature Astronomy* **1**, 617-620.
- 2) Hoppe P., Pignatari M., Kodolányi J., Gröner E., and Amari S. (2018) NanoSIMS isotope studies of rare types of presolar silicon carbide grains from the Murchison meteorite: Implications for supernova models and the role of ^{14}C . *Geochim. Cosmochim. Acta* **221**, 182-199.
- 3) Pignatari M., Hoppe P., Trappitsch R., Fryer C., Timmes F.X., Herwig F. and Hirschi R. (2018) The neutron capture process in the He shell in core-collapse supernovae: Presolar silicon carbide grains as a diagnostic tool for nuclear astrophysics. *Geochim. Cosmochim. Acta* **221**, 37-46.
- 4) Hoppe P., Rubin M. and Altwegg K. (2018) Presolar isotopic signatures in meteorites and comets: New insights from the Rosetta mission to comet 67P/Churyumov-Gerasimenko. *Space Sci. Rev.* **214**, 106 (28pp).
- 5) Leitner J. and Hoppe P. (2019) A new population of dust from stellar explosions among meteoritic stardust. *Nature Astronomy* **3**, 725-729.
- 6) Fujiya W., Hoppe P., Ushikubo T., Fukuda K., Lindgren P., Lee M. R., Koike M., Shirai K., and Sano Y. (2019) Migration of asteroids from the cold, outer solar system inferred from carbonate in meteorites, *Nature Astronomy* **3**, 910-915.
- 7) Vollmer C., Leitner J., Kepaptsoglou, Ramasse Q, King, A. J., Schofield P., Bischoff A., and Hoppe P. (2020) A primordial ^{15}N -depleted organic component detected within the carbonaceous chondrite Maribo. *Scientific Reports* **10**, 20251. <https://doi.org/10.1038/s41598-020-77190-z>.
- 8) Hoppe P., Leitner J., Kodolányi J., and Vollmer C. (2021) Isotope systematics of presolar silicate grains: New insights from magnesium and silicon. *Astrophys. J.* **913**, 10 (17pp).
- 9) Hoppe P., Leitner J., Kodolányi J., Borrmann S., and Jones A. (2022) Dust from supernovae and their progenitors in the solar nebula. *Nature Astronomy* **6**, 1027.
- 10) Kodolányi J., Hoppe P., Vollmer C., Berndt J., and Müller M. (2022) The early Solar System abundance of iron-60: New constraints from chondritic silicates. *Astrophys. J.* **940**, 95 (21pp).