

Curriculum Vitae – Jonas Pape

Dr. Jonas Pape — Planetary Sciences and Meteoritics

Institut für Planetologie

University of Münster

Germany

E-Mail: jonas.pape@uni-muenster.de

Phone: +49 (0) 179 9489 786

1. Personal details

Date/Place of Birth: 25.10.1982, Kiel, Germany

Nationality: German

Languages: German (Native), English (Fluent), French (Basic)

Researcher ID: OrcID 0000-0001-9729-695X

2. Education and previous research projects

2014—2018 PhD studies Isotope Geology/Cosmochemistry/Mineralogy

University of Bern / NCCR PlanetS, CH, Advisor: Prof. K. Mezger, “ ^{26}Al — ^{26}Mg ages of chondrules and chemical constraints on their reprocessing in the early solar system.”

2012—2014 M.Sc. Earth Sciences with special qualification in Earth Materials; Mineralogy

University of Bern, Switzerland, Supervisor: Prof. K. Mezger, “The behavior of the Zr-in-rutile thermometer at UHT-conditions.”

2008—2012 B.Sc. Geosciences; Mineralogy

University of Kiel, Germany, Supervisors: Prof. A. Holzheid, Prof. V. Schenk, “Trace element chemistry of gabbroic rocks and minerals from the Semail ophiolite (Oman): Indication for seawater-induced anatexis?”

2003—2007 Diploma studies of music, violin

Universities of Music and Performing Arts Lübeck and Stuttgart (Germany)

2002 University entrance diploma (Abitur)

Gymnasium Elmschenhagen, Kiel, Germany

3. Employment history

since 03/2020 University of Münster

PostDoc, Institut für Planetologie

2019—2020 Natural History Museum of Bern, Switzerland

Research Assistant, Mineralogy and Meteoritics group, Prof. Beda Hofmann

2014—2018 University of Bern, Switzerland

PhD student, Isotope Geology and Mineralogy group, Prof. K. Mezger

2007—2012 **University of Kiel, Germany**

Student Research Assistant, Experimental Mineralogy group, Prof. A. Holzheid

4. Publications in peer-reviewed scientific journals

210 citations (Google Scholar)

- [8] Spitzer F, Burkhardt C, **Pape J**, Kleine T (2021) Collisional mixing between inner and outer solar system planetesimals inferred from Nedagolla iron meteorite. *Met. Planet. Sci.* xxx, xxx–xxx
- [7] Anand A, **Pape J**, Wille M, Mezger K (2021) Early differentiation and evolution of the magmatic iron meteorite parent bodies inferred from Mn-Cr chronometry. *Geochem. Perspect. Lett.* XXX, XXX–XXX
- [6] **Pape J**, Rosén V A, Mezger K, Guillong M (2021) Primary crystallization and partial remelting of chondrules in the protoplanetary disk: Petrographic, mineralogical and chemical constraints recorded in zoned type-I chondrules. *Geochim. Cosmochim. Acta* 292, 499–517
- [5] Anand A, **Pape J**, Wille M, Mezger K (2021) Chronological constraints on the thermal evolution of the ordinary chondrite parent bodies from the ^{53}Mn - ^{53}Cr system. *Geochim. Cosmochim. Acta* XXX, XXX–XXX
- [4] **Pape J**, Mezger K, Bouvier A-S, Baumgartner L P (2019) Time and Duration of Chondrule Formation: Constraints from ^{26}Al - ^{26}Mg Ages of Individual Chondrules. *Geochim. Cosmochim. Acta* 244, 416–436
- [3] Rosén V A, **Pape J**, Hofmann B A, Gnos E, Guillong M (2019) Quenched primary melt in Ramlat as Sahmah 517 – snapshot of ureilite anatexis in the early solar system. *Geochim. Cosmochim. Acta* 246, 1–20
- [2] Axelsson E, **Pape J**, Berndt J, Corfu F, Mezger K, Raith M (2018) R632 – a new natural reference material for U-Pb and Zr analysis. *Geost. Geoanal. Res.* 42, 319–338
- [1] **Pape J**, Mezger K, Robyr M (2016) A systematic evaluation of the Zr-in-rutile thermometer in ultra-high temperature (UHT) rocks. *Contrib. Min. Pet.* 171, 1–20

5. Competitive scholarships and research grants

2020—2021 SNF Early Postdoc.Mobility (CHF 124,000)

2012—2014 German Academic Exchange Service (DAAD) Scholarship (€ 18,000)

6. Awards

2019 **PhD awarded *summa cum laude***

2017 **Wiley Award by the Meteoritical Society**

2017 **Travel and accommodation award from the Royal Astronomical Society**

2013 **Paul Ramdohr Award by the German Mineralogical Society**

7. Selected contributions to international conferences

- **Pape J**, Rosén Å V, Mezger K, Guillong M (2019) Chondrule formation and subsequent reprocessing by partial remelting in the protoplanetary disk. Paneth Kolloquium, Germany.
- Anand A, **Pape J**, Wille M, Hofmann B, Mezger K (2019) Mn-Cr chronological constraints on the thermal evolution of ordinary chondrite parent bodies. 17th Swiss Geoscience Meeting, Fribourg, Switzerland.

- Mezger K, **Pape J** (2019) Reprocessing of Chondrules during Early Solar System Evolution. TIGeR Conference (invited talk), Perth, Australia.
- **Pape J**, Mezger K, Bouvier A-S, Baumgartner L (2018) In-situ ^{26}Al - ^{26}Mg SIMS dating of chondrules: a window to the early solar system. SwissSIMS workshop (invited talk), Lausanne.
- **Pape J**, Mezger K, Bouvier A-S, Baumgartner L (2017) In-situ ^{26}Al - ^{26}Mg dating of single chondrules by SIMS. Meteoritical Society Meeting (Abstracts Volume), Santa Fe. (Wiley Award)
- Rosén Å V, **Pape J**, Hofmann B A, Guillong M (2017) Melt related textures in a new, spinel-bearing, monomict ureilite – Ramlat as Samah 517. Meteoritical Society Meeting (Abstracts Volume), Santa Fe.
- Axelsson E, Berndt-Gerdes J, **Pape J**, Corfu F, Mezger K, Raith M M (2017) Rutile R632 – A New Natural Reference Material for in-situ U-Pb and Zr Analyses. Goldschmidt Conference (Abstracts Volume), Paris.
- **Pape J**, Mezger K, Bouvier A-S, Baumgartner L (2017) In-situ ^{26}Al - ^{26}Mg mineral isochrons dating of chondrules by SIMS: Samples, measurement procedure and data correction. Chondrules and Protoplanetary Disk, London.
- **Pape J**, Mezger K, Grobéty B, Neururer C (2014) Pushing the spatial limits of electron backscatter diffraction (EBSD) analysis: orientation relationships of zircon exsolutions in UHT-rutile. 12th Swiss Geoscience Meeting (*Abstracts Volume*).
- **Pape J**, Mezger K (2013) Zr-in-rutile thermometer at UHT-conditions from paragneisses in the Mafic Complex of the Ivrea Zone, Northern Italy. Joint Annual Meeting of DMG, GV and SEDIMENT (Paul Ramdohr Award).

8. Doctoral thesis

- **Pape J (2018)** ^{26}Al - ^{26}Mg ages of chondrules and chemical constraints on their reprocessing in the early solar system. Dissertationsschrift, Institute of Geological Sciences, Philosophisch-naturwissenschaftliche Fakultät, Universität Bern.

9. Institutional responsibilities

2012—2018 **Responsible assistant for Electron Microprobe Analyzer laboratory**
IfG University of Bern

11. Teaching activities

2010—2012 **Minerals and Rocks exercises for B.Sc. students**
University of Kiel, Germany

2014—2017 **Magmatic and Metamorphic rocks exercise and lecture for B.Sc. students**
University of Bern, Switzerland

2014/2016 **Field course assistant “Petrology, Varallo, Italy” 4 days**
University of Bern, Switzerland

2016/2018 **Field course assistant “Meteoritics and Impact crater, Nördlingen” 5 days**
University of Bern, Switzerland

12. Active memberships in scientific societies

German Mineralogical Society (DMG)
International Meteoritical Society

13. Internships and Workshops

- 2015** **“Short Course in Advanced Surface Analysis in the Earth, Environmental and Life Sciences; SIMS, NanoSIMS and La-ICP-MS”**
University of Lausanne, Switzerland
- 2014** **“Secondary Ion Mass Spectrometry” course on a Cameca 1280-HR**
GeoForschungsZentrum Potsdam, Germany
- 2011** **Internship GFZ Potsdam, “Chemistry and Physics of the Earth Materials“**
Advisors: Dr. K. Marquardt, Prof. W. Heinrich

Münster 2023