**Articles**

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| Fauguerolles, C., T. Castelain, S. Rouméjon, J. Villeneuve, M. Pichavant. Reaction mechanisms during serpentinization – Textural constraints and mineral chemistry data from experiments on a harzburgite at 250-350°C, 50MPa. *In preparation* |
| Rouméjon, S., M. Andreani, G.L. Früh-Green. Antigorite crystallization during oceanic retrograde serpentinization of abyssal peridotites. *In revision for Contributions to Mineralogy and Petrology* |
| Liebmann, J., E.M. Schwarzenbach, G.L. Früh-Green, C. Boschi, S. Rouméjon, H. Strauß, U. Wiechert, T. John. Tracking water-rock interaction at the Atlantis Massif (MAR, 30°N) using sulfur geochemistry, *Geochemistry Geophysics Geosystems,* 19(11), 4561-4583, doi: 10.1029/2018GC007813 |
| Bayrakci, G., I. Falcon-Suarez, T.A. Minshull, L. North, A. Barker, B. Zihlmann, S. Rouméjon, A.I. Best. Anisotropic physical properties of mafic and ultramafic rocks from an oceanic core complex, *Geochemistry Geophysics Geosystems,* 19(11), 4366-4384, doi: 10.1029/2018GC007738 |
| Rouméjon, S., M.J. Williams, G.L. Früh-Green (2018b). In-situ oxygen isotope analyses in serpentine minerals: constraints on serpentinization during tectonic exhumation at slow- and ultraslow- spreading ridges**,** *Lithos*, 323, 156-173, doi: 10.1016/j.lithos.2018.09.021 |
| Früh-Green, G.L, B.N. Orcutt, S. Rouméjon, M.D. Lilley, S.L. Green, C. Cotterill, and Expedition 357 Scientists (2018). Magmatism, serpentinization and life: Insights through drilling the Atlantis Massif (IODP Expedition 357), *Lithos*, 323, 137-155, doi: 10.1016/j.lithos.2018.09.012 |
| Rouméjon, S., G.L. Früh-Green, B.N. Orcutt, and the IODP Exp. 357 Science Party (2018a). Alteration heterogeneities in peridotites exhumed on the southern wall of the Atlantis Massif (IODP Expedition 357), *Journal of Petrology*, 59(7), 1329-1358, doi: 10.1093/petrology/egy065 |
| Falcon-Suarez, I., G. Bayrakci, T.A. Minshull, L.J. North, A.I. Best, S. Rouméjon, IODP Exp.357 Science Party (2017). Elastic and electrical properties and permeability of serpentinites from Atlantis Massif, Mid-Atlantic Ridge, *Geophysical Journal International*, 211, 708-721, doi: 10.1093/gji/ggx341 |
| Debret, B., M. Andreani, A. Delacour, S. Rouméjon, N. Trcera, H. Williams (2017). Assessing sulfur redox state and distribution in abyssal serpentinites using X-ray absorption spectroscopy, *Earth and Planetary Science Letters*, 466, 1-11, doi: 10.1016/j.epsl.2017.02.029 |
| Dumont, T., A. Replumaz, S. Rouméjon, A. Briais, A. Rigo, J.-P. Bouillin (2015). Microseismicity of the Béarn range: Reactivation of inversion and collision structures at the northern edge of Iberian plate, *Tectonics,* 34, doi: 10.1002/2014TC003816 |
| Rouméjon, S., M. Cannat, P. Agrinier, M. Godard, M. Andreani (2015). Serpentinization and fluid pathways in tectonically exhumed peridotites from the Southwest Indian Ridge (62-65°E), *Journal of Petrology,* 56(4), 703-734, doi: 10.1093/petrology/egv014 |
| Rouméjon, S. and M. Cannat (2014). Serpentinization of mantle-derived peridotites at mid-ocean ridges: mesh texture development in a context of tectonic exhumation*. Geochemistry Geophysics Geosystems,* 15(6), 2354-2379, doi:10.1002/2013GC005148 |
| Sauter, D., M. Cannat, S. Rouméjon, et al. (2013). Continuous exhumation of mantle-derived rocks at the Southwest Indian Ridge for 11 million years, *Nature Geoscience*, *6*(4), 314-320, doi: 10.1038/NGEO1771 |
| Malvoisin, B., F. Brunet, J. Carlut, S. Rouméjon, and M. Cannat (2012). Serpentinization of oceanic peridotites: 2. Kinetics and processes of San Carlos olivine hydrothermal alteration, *Journal of Geophysical Research*, 117, B04102, doi:10.1029/2011JB008842 |
| Picazo, S., M. Cannat, A. Delacour, J. Escartín, S. Rouméjon, and S. Silantyev (2012). Deformation associated with the denudation of mantle-derived rocks at the Mid-Atlantic Ridge 13°–15°N: The role of magmatic injections and hydrothermal alteration, *Geochemistry Geophysics Geosyst*ems, 13, Q04G09, doi:10.1029/2012GC004121 |

**PhD Thesis**

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| Rouméjon, S. (2014). Serpentinisation des péridotites exhumées aux dorsales lentes : approches microstructurale, minéralogique et géochimique. *Institut de Physique du Globe de Paris*. |

**IODP Expedition 357 reports**

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| Früh-Green, G.L., B.N. Orcutt, S.L. Green, C. Cotterill, and the Expedition 357 Scientists (2017). *Atlantis Massif Serpentinization and Life.* Proceedings of the International Ocean Discovery Program, 357: College Station, TX (International Ocean Discovery Program). |
| Expedition 357 summary (2017a). [http://dx.doi.org/10.14379/iodp.proc.357.101.2017](http://dx.doi.org/10.14379/iodp.proc.357.101.2017" \t "_blank) |
| Expedition 357 methods (2017b). [http://dx.doi.org/10.14379/iodp.proc.357.102.2017](http://dx.doi.org/10.14379/iodp.proc.357.102.2017" \t "_blank) |
| Eastern sites (2017c). [http://dx.doi.org/10.14379/iodp.proc.357.103.2017](http://dx.doi.org/10.14379/iodp.proc.357.103.2017" \t "_blank) |
| Central sites (2017d). <http://dx.doi.org/10.14379/iodp.proc.357.104.2017> |
| Western sites (2017e). <http://dx.doi.org/10.14379/iodp.proc.357.105.2017> |
| Northern sites (2017f). <http://dx.doi.org/10.14379/iodp.proc.357.106.2017> |
| Früh-Green, G.L., B.N. Orcutt, S.L. Green, C. Cotterill, and the Expedition 357 Scientists (2016). *Atlantis Massif Serpentinization and Life.* Proceedings of the International Ocean Discovery Program, 357: College Station, TX (International Ocean Discovery Program). [http://dx.doi.org/10.14379/iodp.proc.357.2017](http://dx.doi.org/10.14379/iodp.proc.357.2017" \t "_blank) |

**Communications**

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| Rouméjon, S., G.L. Früh-Green, B.N. Orcutt, and the IODP Exp.357 Science Party. Alteration heterogeneities in peridotites tectonically exhumed along slow-spreading ridges, AGU Fall Meeting, abstract #OS52A-01, New Orleans (USA), Dec. 2017. Talk. |
| Rouméjon, S., G.L. Früh-Green, B.N. Orcutt, and the IODP Exp. 357 Science Party. Hydrothermal alteration of peridotites exhumed on the southern wall of the Atlantis Massif, IODP post-cruise meeting, Sestri Levante (Italy), Sept. 2017. Talk. |
| Früh-Green, G.L., S. Rouméjon, M.D. Lilley, B.N. Orcutt, and the IODP Exp. 357 Science Party. Linking active serpentinization with volatiles and life: Constraints from IODP Expedition 357 (Atlantis Massif, MAR 30°N), AGU Fall Meeting, abstract #V11A-3051, San Francisco (USA), Dec. 2016. Talk. |
| Rouméjon, S., G.L. Früh-Green, B.N. Orcutt, and the IODP Exp. 357 Science Party. Hydrothermal alteration of peridotites exhumed on the southern wall of the Atlantis Massif, Serpentine Days, Sète (France), Sept. 2016. Poster. |
| Cannat, M., S. Rouméjon. Serpentinization at slow-spreading mid-ocean ridges: from sample scale to plate boundary, AGU Fall Meeting, abstract #V11A-3051, San Francisco (USA), Dec. 2015. Poster. |
| Rouméjon, S., M. Cannat, P. Agrinier, M. Godard, M. Andreani. Serpentinization and fluid pathways in tectonically exhumed peridotites from the Southwest Indian Ridge (62-65°E), Rainbow workshop, Lyon (France), June 2015. Talk. |
| Rouméjon, S., M. Cannat, P. Agrinier, M. Godard, M. Andreani. Multiphase serpentinization at the Southwest Indian Ridge (62°-65°E), Goldschmidt Conference, Sacramento (USA), June 2014. Talk. |
| Rouméjon, S., M. Cannat, P. Agrinier, M. Godard, M. Andreani. Microfracturing and fluid pathways in serpentinizing abyssal peridotites along the Southwest Indian Ridge (62°-65°E), AGU Fall Meeting, abstract #MR22A-05, San Francisco (USA), Dec. 2013. Talk. |
| Rouméjon, S., M. Cannat. Serpentinization at slow and ultraslow spreading mid-ocean ridges: mesh texture development in a context of tectonic exhumation.  - GEOCEAN Symposium and Summer school, Brest (France), Aug. 2012. Poster.  - Serpentine Days, Porquerolles (France), Sept. 2012. Poster.  - AGU Fall Meeting, abstract #OS13B-1726, San Francisco (USA), Dec. 2012. Poster. |
| Sauter, D., M. Cannat, M. Andreani, D. Birot, A. Bronner, D. Brunelli, J. Carlut, A. Delacour, V. Guyader, C. MacLeod, V. Mendel, B. Ménez, V. Pasini, S. Rouméjon, E. Ruellan, R. Searle.  - Mantle exhumation at the Southwest Indian Ridge; preliminary results of the SMOOTHSEAFLOOR cruise, AGU Fall Meeting, abstract #T31D-05, 2011.  - A 10 Myrs long record of mantle exhumation at the eastern Southwest Indian Ridge, AGU Fall Meeting, abstract #T23A-2369, 2011. |
| Rouméjon, S., M. Cannat. Oral presentations during the meetings-workshops of the Rift2Ridge ANR project, June 2011 (Davos, Switzerland), June 2012 (Paris, France). |