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PEER-REVIEWED PUBLICATIONS

- Fischer, R., Cottrell, E., Hauri, E. H., Lee, K. K. L., **Le Voyer, M.** (2020) The Carbon Content of Earth and its Core. *Proceedings of the National Academy of Science*. doi/10.1073/pnas.1919930117.
- Rose-Koga, E., Koga, K., Devidal, J.-L., Shimizu, N., **Le Voyer, M.**, Dalou, C., and Döbeli, M. (2020) In-situ measurements of magmatic volatile elements, F, S and Cl, by electron microprobe, secondary ion mass spectrometry, and heavy ion elastic recoil detection analysis. *American Mineralogist* 105, p616-626.
- Hauri, E. H., Cottrell, E., Kelley, K. A., Tucker, J. M., Shimizu K., **Le Voyer, M.**, Marske, J., Saal, A. E. (2019) Carbon in the Convecting Mantle. *Reviews in Mineralogy and Geochemistry*.
- Le Voyer, M.**, Hauri, E. H., Cottrell, E., Kelley, K., Salters, V. J. M., Langmuir, C. H., Hilton, D., Barry, P., Füre, E. (2018) Carbon fluxes and primary magma CO₂ contents along the global mid-ocean ridge system. *Geochem. Geophys. Geosyst.* doi: 10.1029/2018GC007630.
- Hauri, E. H., Saal, A. E., Nakajima, M., Anand, M., Rutherford, M. J., Van Orman, J. A., **Le Voyer, M.** (2017) Origin and Evolution of Water in the Moon's Interior, *Annual Review of Earth and Planetary Sciences*, 45, doi:10.1146/annurev-earth-063016-020239.
- Le Voyer, M.**, Kelley, K., Cottrell, E., Hauri, E. (2017) Heterogeneity in mantle carbon content from CO₂-undersaturated basalts, *Nature Communications*, 14062, doi:10.1038/ncomms14062.
- Schipper, C. I., Le Voyer, M., Moussalam, Y., White, J. D. L., Thordarson, T., Kimura, J.-I., Chang, Q. (2016) Degassing and magma mixing during the eruption of Surtsey Volcano (Iceland, 1963–1967): the signatures of a dynamic and discrete rift propagation event, *Bulletin of Volcanology*, 78:33, doi:10.1007/s00445-016-1025-4.
- Le Voyer, M.**, Cottrell, E. Kelley, K., Brounce, M. J., Hauri, E. (2015) The effect of primary versus secondary processes on the volatile content of MORB glasses: an example from the equatorial Mid-Atlantic Ridge (5°N–3°S), *Journal of Geophysical Research Solid Earth*, 120, doi:10.1002/2014JB011160.
- Dalou, C., Koga, K. T., **Le Voyer, M.**, Shimizu, N. (2014) Contrasting partition behavior of F and Cl during hydrous mantle melting: Implications for Cl/F signature in arc magmas, *Progress in Earth and Planetary Sciences*, 1:26, doi:10.1186/s40645-014-0026-1.
- Newcombe, M., Fabbriozio, A., Zhang, Y., Guan, Y., Chi, M., Saal, A., **Le Voyer, M.**, Eiler, J. M., Stolper, E. M., (2014) Chemical zonation in olivine-hosted melt inclusions, *Contributions in Mineralogy and Petrology*, 168:1030, doi:10.1007/s00410-014-1030-6.
- Le Voyer, M.**, Asimow, P. D., Mosenfelder, J., M., Guan, Y., Wallace, P. J., Schiano P., Stolper, E. M., Eiler, J. M., (2014) NanoSIMS determination of H₂O and F concentrations in olivines around melt inclusions, *Journal of Petrology*, doi:10.1093/petrology/egu003.
- Rose-Koga, E. F., Koga, K. T., Schiano, P., **Le Voyer, M.**, Shimizu, N., Whitehouse, M. J., Clocchiatti, R. (2012) Mantle source heterogeneity for South Tyrrhenian magmas revealed by Pb isotopes and halogen contents of olivine-hosted melt inclusions, *Chemical Geology*, 334, p266-279, doi:10.1016/j.chemgeo.2012.10.033.
- Mosenfelder, J. L., **Le Voyer, M.**, Rossman, G. R., Guan, Y., Bell, D. R., Asimow, P. D., Eiler, J. M. (2011) Analysis of hydrogen in olivine by SIMS and FTIR: evaluation of standards and protocol, *American Mineralogist*, 8, p 1725-1741, doi:10.2138/am.2011.3810.

Le Voyer M., Rose-Koga E. F., Shimizu N., Grove T. L., Schiano P. (2010) Two Contrasting Volatile Element Compositions in Primary Melt Inclusions From Mount Shasta, *Journal of Petrology*, 51 (7), p 1571-1595, doi:10.1093/petrology/egq030.

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DATASETS

Cottrell E., Hauri, E., **Le Voyer M.**, and Kelley K. (2019), Mantle Carbon Contents for Mid-Ocean Ridge Segments. Interdisciplinary Earth Data Alliance (IEDA). doi:10.1594/IEDA/111333

Le Voyer, M., Hauri, E. H., Langmuir C., Furi E., Hilton D., Cottrell E., Kelley K., Barry P., and Salters V. (2018), Volatile Abundances in MORB Magmas Along the Global Mid-Ocean Ridge System. Interdisciplinary Earth Data Alliance (IEDA). doi:10.1594/IEDA/111195