

Maja Bar Rasmussen
Postdoc
Geology
Postal address:
Øster Voldgade 10
1350
København K
Email: mr@ign.ku.dk
Phone: +4535328887
Web address: <https://ign.ku.dk/forskning/geologi/>



Qualifications

Geology, PhD, Háskóli Íslands
1 Dec 2016 → 22 Jan 2021
Award Date: 22 Jan 2021

Geology-geoscience, Master of Science
Jul 2013 → Oct 2015
Award Date: 15 Oct 2015

Geology-geoscience, Bachelor of Science
Sep 2010 → Jun 2013
Award Date: 20 Jun 2013

Employment

Postdoc

Geology
København K, Denmark
1 Mar 2022 → nu

NordVulk Fellow

Nordic Volcanological Center, Institute of Earth Sciences, University of Iceland
Reykjavik, Iceland
1 Dec 2016 → 31 May 2021

Geologist

Geological Survey of Denmark and Greenland
København K, Denmark
1 Nov 2015 → 30 Nov 2016

Student assistant

Geological Survey of Denmark and Greenland
København K, Denmark
1 Oct 2014 → 30 Oct 2015

Research outputs

Kristjánite, $\text{KNa}_2\text{H}(\text{SO}_4)_2$, a new fumarolic mineral from Iceland containing $[\text{SO}_4\text{-H-SO}_4]^{3-}$ anion in the crystal structure
Balic Zunic, Tonci, Nestofa, F., Pamato, M. G. & Rasmussen, Maja Bar, 2024, (E-pub ahead of print) In: Mineralogical Magazine.

Deep magma mobilization years before the 2021 CE Fagradalsfjall eruption, Iceland

Kahl, M., Mutch, E. J. F., Maclennan, J., Morgan, D. J., Couperthwaite, F., Bali, E., Thordarson, T., Guðfinnsson, G. H., Walshaw, R., Buisman, I., Buhre, S., van der Meer, Q. H. A., Caracciolo, A., Marshall, E. W., Rasmussen, Maja Bar, Gallagher, C. R., Moreland, W. M., Höskuldsson & Askew, R. A., 2023, In: Geology. 51, 2, p. 184-188 5 p.

No V-Fe-Zn isotopic variation in basalts from the 2021 Fagradalsfjall eruption

Stow, M. A., Prytulak, J., Burton, K. W., Nowell, G. M., Marshall, E. W., Halldórsson, S. A., Matthews, S., Rasmussen, Maja Bar, Ranta, E. & Caracciolo, A., 2023, In: *Geochemical Perspectives Letters*. 27, p. 54-58 5 p.

Settling of buoyant microplastic in estuaries: The importance of flocculation

Laursen, Simon Nyboe, Fruergaard, Mikkel, Dodhia, M. S., Posth, Nicole Rita Elisabeth, Rasmussen, Maja Bar, Larsen, Marianne Nylandsted, Shilla, D., Shilla, D., Kilawe, J. J., Kizenga, H. J. & Andersen, Thorbjørn Joest, 2023, In: *Science of the Total Environment*. 886, 12 p., 163976.

Evidence from gas-rich ultramafic xenoliths for Superplume-derived recycled volatiles in the East African sub-continental mantle

Halldórsson, S. A., Hilton, D. R., Marshall, E. W., Ranta, E., Ingvason, A., Chakraborty, S., Robin, J. G., Rasmussen, Maja Bar, Gibson, S. A., Ono, S., Scarsi, P., Abebe, T., Hopp, J., Barry, P. H. & Castillo, P. R., 2022, In: *Chemical Geology*. 589, 19 p., 120682.

Helium and oxygen isotopic variations in the Iceland plume source controlled by entrainment of recycled oceanic lithosphere

Rasmussen, Maja Bar, Halldórsson, S. A., Jackson, M. G., Bindeman, I. N. & Whitehouse, M. J., 2022, In: *Earth and Planetary Science Letters*. 594, 11 p., 117691.

Rapid shifting of a deep magmatic source at Fagradalsfjall volcano, Iceland

Halldórsson, S. A., Marshall, E. W., Caracciolo, A., Matthews, S., Bali, E., Rasmussen, M. B., Ranta, E., Robin, J. G., Guðfinnsson, G. H., Sigmarsson, O., MacLennan, J., Jackson, M. G., Whitehouse, M. J., Jeon, H., van der Meer, Q. H. A., Mibe, G. K., Kalliokoski, M. H., Repczynska, M. M., Rúnarsdóttir, R. H., Sigurðsson, G. & 10 others, Pfeffer, M. A., Scott, S. W., Kjartansdóttir, R., Kleine, B., Oppenheimer, C., Aiuppa, A., Ilyinskaya, E., Bitetto, M., Giudice, G. & Stefansson, A., 2022, In: *Nature*. 609, p. 529–534 23 p.

Magmatic olivine as a tool to investigate geochemical mantle heterogeneities beneath Iceland

Rasmussen, Maja Bar, 2021, Reykjavik: University of Iceland. 129 p.

Warm and Slightly Reduced Mantle Under the Off-Rift Snæfellsnes Volcanic Zone, Iceland

van der Meer, Q. H. A., Bali, E., Guðfinnsson, G. H., Kahl, M. & Rasmussen, Maja Bar, 2021, In: *Journal of Petrology*. 62, 12, 25 p., egab057.

Olivine chemistry reveals compositional source heterogeneities within a tilted mantle plume beneath Iceland

Rasmussen, Maja Bar, Halldórsson, S., Gibson, S. & Guðfinnsson, G., 1 Feb 2020, In: *Earth and Planetary Science Letters*.

Carbonation of Stapafell Basalt: An Experimental Study of the Mineral Dissolution and Precipitation Processes at Conditions Similar to that of the CarbFix Injection Site at Hellisheiði, Iceland

Rasmussen, Maja Bar, 2015, University of Copenhagen. 89 p.

Activities

Præsentation ved Dansk Geologisk Forening "The above and belows of Icelandic geology"

Rasmussen, Maja Bar (Other)
7 Dec 2021 → 15 Dec 2021

Præsentation og paneldebatedeltager ved åbningen af kunstudstilling af Veronika Geiger "Between Earth and Art" arranged by Galleri Image

Rasmussen, Maja Bar (Other)
29 Jan 2021

Press/Media

Carbon storage: 5 most suitable places to hide CO2 away

Maja Bar Rasmussen

20/09/2022

1 Media contribution

Eyjafjallajökull se tokrat najverjetneje ne bo ponovil

Maja Bar Rasmussen

08/04/2021

1 Media contribution

Mysteries lurk below Iceland's restless volcanoes

Maja Bar Rasmussen

15/08/2022

1 Media contribution

The Message In The Magma: The Geldingadalir Eruption Site Is Growing—What Have We Learned?

Maja Bar Rasmussen

04/06/2022

1 Media contribution

“Go’ morgen Danmark” deltagelse

Maja Bar Rasmussen

01/12/2022

1 Media contribution