

Maja Bar Rasmussen  
Postdoc  
Geology  
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## 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, Maya, 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