**Publications**

**In preparation:**

**Li, M., and S., Zhong,** The radial deflection and lateral movement of mantle plumes from 3D dynamic models.

**Li, M., and A.K., McNamara,** Effects of thermochemical convection in the lowermost mantle on core-mantle heat flow and Earth’s thermal evolution.

**Li, M., and A.K., McNamara,** The evolving morphology of oceanic crustal accumulations in Earth’s lowermost mantle.

**In review:**


**In revision**


**Li, M., Zhong, S., and Olson, P.,** Dynamics of thermochemical plumes and their influence on core-mantle boundary heat flux and occurrence of geomagnetic superchrons, Geophysical Research Letters.


**Published:**


**Li, M., Black, B., Zhong, S., Manga, M., Rudolph, M.L. and Olson, P., 2016.** Quantifying melt production and degassing rate at mid-ocean ridges from global mantle convection models with plate motion history. Geochemistry, Geophysics, Geosystems, 17: 2884-2904.


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