

Books and Book Chapters

Berlo, K., Gardner, J.E., and Blundy, J.D., Timescales of Magma Degassing, in, Dosseto, A., Turner, S.P., and Orman, J.A. (eds.), *Timescales for Magmatic Processes*, Wiley-Blackwell, 231-256, 2010.

Volcano Hazards Report:

* Stelling, P., Beget, J.E., Gardner, J.E., and Schaefer, J.R., Preliminary volcano-hazard assessment for Fisher volcano, Unimak Island, Alaska. Alaska Division of Geological and Geophysical Surveys, Report 2014–5, 39 p., 2014.

Refereed Journal Articles (* = papers authored or co-authored by graduate or undergraduate students)

Submitted and In Press:

Coumans, J., Llewellyn, E., Wadsworth, F., Humphreys, M., Mathias, S.A., Yelverton, B., and Gardner, J., An experimentally validated numerical model for bubble growth in magma. *J. Volcanol. Geotherm. Res.*, *in press*.

Wadsworth, F.B., Llewellyn, E.W., Vasseur, J., Gardner, J.E., and Tuffen, H., Explosive-effusive volcanic eruption transitions caused by sintering. *Science Advances*, *in press*.

* Gu, J., Fu, S., Gardner, J.E., Yamashira, S., Okuchi, T., and Lin, J.F., Non-linear Effects of Hydration on Sound Velocities of Rhyolitic Glasses up to 3 GPa. *Am. Mineral.*, *in press*.

Wadsworth, F.B., Vasseur, J., Llewellyn, E.W., Brown, R., Tuffen, H., Gardner, J.E., Kendrick, J., Lavalley, Y., Dobson, K., Heap, M., Dingwell, D., Hess, K.-U., Schaubert, J., von Aulock, F., Kushnir, A., and Marone, F., A model for permeability evolution during volcanic welding. *J. Volcanol. Geotherm. Res.*, *submitted*.

* Wang, Y., Gardner, J.E., and Hoblitt, R.P., Formation of dense pyroclasts by sintering of ash particles during the preclimactic eruptions of Mt. Pinatubo in 1991. *Bull. Volcanol.*, *submitted*.

Macias, J.L., Arce, J.L., Garcia, F., Sosa-Ceballos, G., and Gardner, J.E., Origins and behavior of the January 22nd 2001 pyroclastic density currents of Popocatepetl volcano derived from Vulcanian-type explosions. *J. Volcanol. Geotherm. Res.*, *submitted*.

Published:

97. Wadsworth, F., Vasseur, J., Schaubert, J., Llewellyn, E.W., Dobson, K.J., Havard, T., Scheu, B., von Aulock, F.W., Gardner, J.E., Dingwell, D.B., Hess, K.U., Colombier, M., Marone, F., Tuffen, H., and Heap, M.J., A general model for welding of ash particles in volcanic systems validated using in situ X-ray tomography. *Earth Planet. Sci. Lett.*, 525, 115726, 2019.

96. Gardner, J.E., Wadsworth, F.B., Llewellyn, E.W., Watkins, J.M., and Coumans, J.P.,

- Experimental constraints on the textures and origin of obsidian pyroclasts. *Bull. Volcanol.*, 81, 22, 2019.
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94. * Hajimirza, S., Gonnermann, H.M., Gardner, J.E., and Giachetti, T., Predicting homogeneous bubble nucleation in rhyolite. *J. Geophys. Res.*, 124 (3), 2395-2416, 2019.
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