

PEER REVIEWED
JOURNAL
PUBLICATIONS

In submission or review

Colombier, M., Brenna, M., Cronin, S., Dobson, K.J. Hess, K.-U., Ruthensteiner, B., Scheu, B., Tost, M., Vasseur, J., **Wadsworth, F.B.**, Yilmaz, T., Dingwell, D.B. Vesiculation and quenching during Surtseyan eruptions, at Hunga Tonga-Hunga Ha'apai volcano, Tonga. *In Submission: Journal of Volcanology and Geothermal Research.*

Casas, A.S., **Wadsworth, F.B.**, Ayris, P., Delmelle, P., Vasseur, J., Cimarelli, C., Dingwell, D.B. Sulphur scrubbing in rhyolitic volcanic domes. *In Submission.*

Heap, M.J., **Wadsworth, F.B.**, Tuffen, H., Castro, J.M., Schipper, C.I. The timescales of tuffisite sealing. *Submitted to Geology.*

Heap, M.J., Kushnir, A.L., Gilg, A., **Wadsworth, F.B.**, Reuschlé, T., Baud, P. 2017. Microstructural and petrophysical properties of the Permo-Triassic sandstones (Buntsandstein) from the Soultz-sous-Forêts geothermal site (France). *Submitted to Geothermal Energy*

Wadsworth, F.B., Witcher, T., Vossen, C., Unwin, H., Hess, K.-U., Castro, J.M., Dingwell, D.B. The universal breaking timescale for magma. *In submission.*

Wadsworth, F.B., Vasseur, J., Casas, A.S., Dingwell, D.B. Concentration-dependent calcium diffusion in polydisperse volcanic ash particles. *In review: American Mineralogist*

Gardner, J.E., **Wadsworth, F.B.**, Llewellyn, E.W., Watkins, J.M., Coumans, J. Experimental sintering of ash at conduit conditions and implications for the longevity of tuffisites. *In review: Bulletin of Volcanology.*

Lamur, A., Kendrick, J.E., **Wadsworth, F.B.**, Lavalée, Y. Fracture healing in obsidian. *In review: Geology.*

2017

[40] Kushnir, A.L., Martel, C., Champallier, R., **Wadsworth, F.B.**. 2017. Permeability evolution in variably glassy basaltic andesites measured under magmatic conditions. *Geophysical Research Letters*. doi: [10.1002/2017GL074042](https://doi.org/10.1002/2017GL074042)

[39] Vasseur, J., **Wadsworth, F.B.**. 2017. Sphere models for pore geometry and permeability in heterogeneous magma. *Bulletin of Volcanology*. doi: [10.1007/s00445-017-1165-1](https://doi.org/10.1007/s00445-017-1165-1)

[38] **Wadsworth, F.B.**, Witcher, T., Vasseur, J., Dingwell, D.B., Scheu, B. 2017. When does magma break? *in Volcanic Unrest eds. Gottsmann, J., Neuberg, J., Scheu, B. Springer Heidelberg Berlin. Advances in Volcanology.* doi: [10.1007/11157_2017_23](https://doi.org/10.1007/11157_2017_23)

[37] **Wadsworth, F.B.**, Vasseur, J., Llewellyn, E.W., Dobson, K.J., Colombier, M., Fife, J.L., von Aulock, F.W., Hess, K.-U., Wiesmaier, S., Scheu, B., Lavalée, Y., Dingwell, D.B. 2017. Topological inversions in coalescing granular media control fluid flow regimes. *Physical Review E*. doi: [10.1103/PhysRevE.00.003100](https://doi.org/10.1103/PhysRevE.00.003100)

[36] Mueller, S., Kueppers, U., Ametsbichler, J., Cimarelli, C., Merrison, J.P., Poret, M., **Wadsworth, F.B.**, Dingwell, D.B. 2017. Stability of volcanic ash aggregates against break-up processes. *Nature Scientific Reports*. doi: [10.1038/s41598-017-07927](https://doi.org/10.1038/s41598-017-07927)

- [35] Vasseur, J., **Wadsworth, F.B.**, Heap, M.J., Lavallee, Y., Main, I.G., Dingwell, D.B. 2017. Does an inter-flaw length control the accuracy of rupture forecasting in geological materials? *Earth and Planetary Science Letters*. doi: [10.1016/j.epsl.2017.07.011](https://doi.org/10.1016/j.epsl.2017.07.011)
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- [33] Schmid, D., Scheu, B., **Wadsworth, F.B.**, Kennedy, B.M., Jolly, A., Dingwell, D.B. 2017. A viscous to brittle transition in eruptions through clay-rich suspensions. *Geophysical Research Letters*. doi: [10.1002/2017gl073641](https://doi.org/10.1002/2017gl073641)
- [32] von Aulock, F.W., Kennedy, B.M., Maksimenko, A., **Wadsworth, F.B.**, Lavallee, Y. 2017. Outgassing of closed and open magma foams. *Frontiers in Earth Science*. doi: [10.3389/feart.2017.00046](https://doi.org/10.3389/feart.2017.00046)
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- [22] **Wadsworth, F.B.**, Vasseur, J., Llewellyn, E.W., Schaubroth, J., Dobson, K.J., Scheu, B., Dingwell, D.B. 2016. Sintering of viscous droplets under surface tension. *Proceedings of the Royal*

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PEER REVIEWED
BOOK CHAPTERS

Published chapters

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