

Professor David Rubie - Publications since 2010

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- Frost, D.J., Asahara, Y., Rubie, D.C., Miyajima, N., Dubrovinsky, L.S., Holzapfel, C., Ohtani, E., Miyahara, M., Sakai, T. (2010) The partitioning of oxygen between the Earth's mantle and core. *Journal of Geophysical Research* 115, B02202, doi:10.1029/2009JB006302.
- Rubie, D.C., Frost, D.J., Mann, U., Asahara, Y., Tsuno, K., Nimmo, F., Kegler, P., Holzheid, A., Palme, H. (2011) Heterogeneous accretion, composition and core-mantle differentiation of the Earth. *Earth and Planetary Science Letters* 301, 31-42, doi: 10.1016/j.epsl.2010.11.030
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- Walte, N., Rubie, D.C., Bons, P., Frost, D.J. (2011) Deformation of a crystalline aggregate with a small percentage of high-dihedral-angle melt: Implications for core-mantle differentiation during planetary formation. *Earth and Planetary Science Letters* 305, 124-134, [doi:10.1016/j.epsl.2011.02.049](https://doi.org/10.1016/j.epsl.2011.02.049).
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- Mann, U., Frost, D.J., Rubie, D.C., Becker, H., Audétat, A. (2012) Partitioning of Ru, Rh, Pd, Re, Ir and Pt between liquid metal and silicate at high pressures and high temperatures - Implications for the origin of highly siderophile element concentrations in the Earth's mantle. *Geochim. Cosmochim. Acta* 84, 593-613, doi:10.1016/j.gca.2012.01.026.
- Smyth, J.R., Miyajima, N., Huss, G.R., Hellebrand, E., Rubie, D.C., Frost, D.J. (2012) Olivine-wadsleyite-pyroxene epitaxy: Evidence for coherent nucleation and growth at the 410-km discontinuity. *Phys. Earth Planet Int.* 200-201. 85-91.
- Terasaki, H., Urakawa, S., Rubie, D.C., Funakoshi, K., Sakamaki, T., Shibasaki, Y., Ozawa, S., Ohtani, E. (2012) Interfacial tension of Fe-Si liquid at high pressure: Implications for liquid Fe-alloy droplet size in magma oceans. *Phys. Earth Planet. Int.* 202-203, 1-6.
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Books edited

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