Thermodynamics of Geothermal Fluids

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ON THE FRONT COVER:

Background picture: SEM image of synthesized magnesite (MgCO$_3$). Scale bar = 10 μm. See Figure 21 in Chapter 4 by Bénézeth et al.

Inset images (from top left clockwise): ✳ Cartoon illustrating the aqueous speciation of CO$_2$-bearing solutions (see Chapter 4 by Bénézeth et al.). ✳ Great Geysir area in Iceland (picture taken by Pascale Bénézeth). ✳ Snapshot from a molecular dynamics simulation of aqueous NaCl at near critical temperature-pressure conditions, showing the formation of an NaCl contact ion pair (yellow and green balls on top left). Courtesy of Thomas Driesner. ✳ Water phase diagram showing the domains of the different aqueous phases (liquid, vapor sensu stricto, and supercritical fluid). See Figure 1 in Chapter 6 by Pokrovski et al. ✳ A geothermal well in Iceland (picture taken by Andri Stefánsson).

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