### A) Article(s) in Journals

**Kahl, M**., *Chakraborty, S., Costa, F.*, Pompilio, M., Liuzzo, M. & Viccaro, M. (2013) Compositionally zoned crystals and real-time degassing data reveal changes in magma transfer dynamics during the 2006 summit eruptive episodes of Mt. Etna. ***Bulletin of Volcanology*** 75:692, online first access. DOI: http://dx.doi.org/10.1007/s00445-013-0692-7

**Kahl, M.**, *Chakraborty, S., Costa, F. &* Pompilio, M. (2011) Dynamic plumbing system beneath volcanoes revealed by kinetic modelling, and the connection to monitoring data: An example from Mt. Etna. ***Earth and Planetary Science Letters*** 308, 11-22. DOI: http://dx.doi.org./10.1016/j.epsl.2011.05.008

### B) Manuscripts in submission

**Kahl, M.**, *Chakraborty, S., Pompilio & Costa, F.* Constraints on the nature and evolution of the magma plumbing system beneath Mt. Etna (1991-2008) from a combined thermodynamic and kinetic modelling of the compositional record of minerals, ***Journal of Petrology***

### C) Doctoral thesis

**Kahl, M.** (2011) Timescales of magma mixing and magma recharge – a case study from Mt. Etna (Sicily, Italy). PhD Thesis, Ruhr-Universität Bochum, Germany, pp. 199

### D) Diploma thesis

**Kahl, M.** (2005) Der Chemische Internbau von Phänokristen aus der Laacher See-Tephra (Osteifel, Deutschland) unter Einbeziehung von Li, Be und B, Universität Heidelberg, Germany, pp. 228

### E) Contributions to academic national/international conferences

**Kahl, M**., et al., (**2014**) Tracking the nature and duration of magma transfer beneath Mauna Loa using a crystal population and kinetic modelling approach. AGU fall meeting **2014**, USA **(poster)**

**Kahl, M**., et al., (**2014**) Constraints on the nature and evolution of the magma plumbing system beneath Mt. Etna (1991 – 2008) from a combined thermodynamic and kinetic modelling of the compositional record of minerals. AGU fall meeting **2014**, USA **(oral)**

**Kahl, M**., et al., (**2013**) Characterizing magma migration dynamics beneath Mt. Etna using combined kinetic and thermodynamic (MELTS) modelling. Goldschmidt **2013**, Italy, *Min Mag*, **77 (5)** 1418 ***(oral)***

**Kahl, M.**, et al., (**2012**) Tracking changes of magma transfer beneath Mt. Etna: Evidence from crystal zonation and real-time gas monitoring. AGU Fall Meeting **2012**, USA ***(oral) INVITED***

**Kahl, M.**, et al., (**2011**) Characterizing plumbing system dynamics beneath active volcanoes by combined kinetic and thermodynamic (MELTS) modelling. AGU Fall Meeting **2011**, USA (***poster***)

**Kahl, M.**, et al., (**2010**) Dynamic map of an evolving plumbing system beneath a volcano: Combining geochemical modelling and volcano monitoring at Mt. Etna, Sicily. AGU Fall Meeting **2010**, ***(oral)***

**Kahl, M.**, et al., (**2009**) Tracing magma mixing under Mt. Etna using combined thermodynamic and kinetic modelling. Goldschmidt **2009**, Switzerland, *GCA* 73 S1 p. A613 ***(poster)***

**Kahl M.**, et al., (**2008**) Durations of magma storage and mixing: The record in compositional zoning of minerals and its connection to surface monitoring data from Mt. Etna. AGU Fall Meeting **2008**, USA ***(oral) INVITED***

**Kahl M.**, et al., (**2008**). Compositional zoning of olivine and timescales of magma recharge: Insights from the 2001 and 2002 Mt. Etna flank eruptions. IAVCEI **2008** General Assembly, Iceland ***(oral)***

**Kahl M.**, Costa F. & Chakraborty S. The 1991-1993 eruption of Mt. Etna: Timescales and nature of magma recharge and mixing. Goldschmidt **2007**, Cologne, Germany, *GCA* 71 S1 p. A458 (***poster***)