

## Danilo Di Genova

National Research Council (CNR), Institute of Science, Technology and Sustainability for Ceramics (ISSMC), Italy  
Honorary staff member of the Bayerisches Geoinstitut, University of Bayreuth, Germany

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Language skills: Italian (Mother tongue), English (fluent), German (basic)

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### EDUCATION AND PROFESSIONAL APPOINTMENTS

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|-------------------------|--|
| 21.12.2023 – ongoing    | Senior Researcher. Institute of Science, Technology and Sustainability for Ceramics (ISSMC-CNR), Italy.  |
| 01.09.2022 – 20.12.23   | Senior Researcher. Institute of Environmental Geology and Geoengineering (IGAG-CNR), Italy.  |
| 15.12.2021 – 31.08.22   | Researcher. National Institute of Geophysics and Volcanology (INGV), Italy.  |
| 01.03.2020 – ongoing    | Akademischer Rat (until 14.12.2021). Currently honorary staff member. Bayerisches Geoinstitut, Universität Bayreuth, Germany.  |
| 01.07.2018 – 29.02.2020 | Research Associate. Institute of Non-Metallic Materials, Clausthal University of Technology, Clausthal-Zellerfeld, Germany.  |
| 01.10.2016 – ongoing    | Research Associate (until 30.06.2018). Currently honorary staff member. “Quantifying disequilibrium processes in basaltic volcanism (NSFGEO-NERC - DisEqm)”. School of Earth Sciences, University of Bristol, Bristol, UK.                                 |
| 16.12.2013 – 30.09.2016 | Postdoctoral position. “Explosive volcanism in the Earth system (ERC Advanced Grant 247076 - EVOKES)”. Department of Earth- and Environmental Sciences, Ludwig-Maximilians-Universität, Munich, Germany.   |
| 22.05.2013 – 30.11.2013 | Fellowship position at Vulcamed Project. “Monitoring of volcanic risks”. National Institute of Geophysics and Volcanology (INGV – Napoli).   |
| 01.11.2011 – 21.05.2013 | Postdoctoral position. “The effect of H <sub>2</sub> O and CO <sub>2</sub> on magma rheology”. Department of Science, Università degli studi di Roma Tre, Italy.   |
| 01.11.2008 – 31.10.2011 | PhD in Environmental and Resource Geology. “Experimental investigation of physical and chemical properties of magmas. Application to magma degassing”. Department of Science, Università degli studi di Roma Tre, Italy. Supervisor: Prof. Claudia Romano. |

## SKILLS

### Analytical Techniques

Electron microprobe (EMP), scanning electron microscope (SEM), Fourier-transform infrared spectroscopy (FTIR), Raman spectroscopy, wet chemistry, rotational viscometer, dilatometer (TMA), differential scanning calorimetry (DSC), simultaneous thermal analysis (STA), thermal gravimetric analysis (TGA), synchrotron X-ray tomography and diffraction, small- and wide-angle X-ray scattering (SAXS-WAXS)

### Experimental Techniques

High-temperature synthesis, gas mixing, piston cylinder, multi-anvil, titanium zirconium molybdenum pressure vessel (TZM), cold seal pressure vessel (CSPV)

### Numerical modelling and data analysis

R, MATLAB

## GRANTS AWARDED AND TEACHING QUALIFICATION

|              |  |
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| 2023-ongoing | PRIN 2022 200k€ Ministero dell'università e della ricerca, CNR-IGAG. <b>CRYSTALKIN</b> “Quantifying micro- and nano-CRYSTALLization KINetics of magmas: from laboratory and real-time in situ observations to implications on magma fragmentation”. (Head of the research unit 100k€). |
| 2022         | National Academic Qualification as Full Professor (Italy).   |
| 2022-ongoing | European Research Council 2M€, Bayerisches Geoinstitut. <b>NANOVOLC</b> “Nanoscale dynamics of volcanic processes: Experimental insights and numerical simulations of explosive eruptions” (Principal investigator).   |
| 2021-ongoing | German Research Foundation € 225K, Bayerisches Geoinstitut. “ <b>Rheology of nanocrystal-bearing technical and natural silicate melts</b> ” (Principal investigator).  |
| 2021-ongoing | German Research Foundation € 230K, Technical University of Clausthal. “ <b>Rheology of nanocrystal-bearing technical and natural silicate melts</b> ” (Co-investigator, Prof. J. Deubener principal investigator).   |
| 2018         | National Academic Qualification as Associate Professor (Italy).  |
| 2018         | European Synchrotron Radiation Facility (France), BM26A proposal number ES-793: “ <b>In situ study of nano- and micro-crystallisation in volcanic melt under different <math>f_{O_2}</math></b> ” (Principal Investigator).  |
| 2018         | EPOS Multi-scale laboratories facilities proposal n. EPOS-TNA-MSL 2018-009: “ <b>Effect of oxygen fugacity on melt properties</b> ” (Principal Investigator).  |
| 2017         | Diamond Light Source (UK), I15 proposal n. EE17615-1: “ <b>In situ study of crystallisation in molten iron silicate</b> ” (Principal Investigator).  |
| 2016         | Diamond Light Source (UK), I12 proposal n. NE/M018687/1: “ <b>Mobilising magma in the largest eruptions: In situ observation of microstructural controls on multi-phase fluid rheology</b> ” (Co-Investigator).  |
| 2016         | Qualification Maître de conférences (Assistant Professor) in “ <b>Structure et évolution de la terre et des autres planets (France)</b> ”.   |

## PROFESSIONAL SERVICES AND AWARDS

- 2019 “The melt and fluid inclusion message in Earth and Planetary Sciences” Convener: Di Muro, A., co-convener Di Genova, D., Morizet, Y., GMPV 2.2 – Geochemistry, Mineralogy, Petrology & Volcanology, EGU 2019, Vienna.
- 2016 – 2018 “Storage, activation and transport processes in magmatic system” Conveners: Balcone-Boissard, H., Montagna, C., Di Genova, D., GMPV 5.7 – Geochemistry, Mineralogy, Petrology & Volcanology, EGU 2016-2018, Vienna.
- 2015 “Structure, dynamics and properties of silicate melts and magmas” Convener: Di Genova, D., Co-Conveners: Henderson, G., Neuville, D. V33F, AGU 2015, San Francisco, USA.

**OSPA** (Outstanding Student Presentation Award) liaison of scientific oral and poster sessions.

**Editorial Board Member:** Journal of Volcanology and Geothermal Research. Glass Europe.

**Reviewer** for international projects: Projects of national interest (PRIN, Italy). German Research Foundation (DFG, Germany).

**Reviewer** for Nature Communications, Nature Communications Earth & Environment, Nature Scientific Reports, Icarus, American Mineralogist, Chemical Geology, Contributions to Mineralogy and Petrology, Planetary and Space Science, Journal of Raman Spectroscopy, Mineralogical Magazine, Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, International Journal of Applied Glass Science.

**Awards:** [Alfred Rittmann](#) 2022 medal (Italian Association of Volcanology).

## JOINED RESEARCH PROJECTS

- 2016 – 2023 NSFGEO-NERC Grant: “Quantifying disequilibrium processes in basaltic volcanism” (DisEqm). PI Prof. M. Burton (University of Manchester) and Prof. H. Mader (University of Bristol, UK).
- 2013 – 2016 ERC Advanced Grant: “Explosive volcanism in the earth system: experimental insights (EVOKES)”. PI Prof. D. B. Dingwell (Ludwig-Maximilians-Universität, Munich, Germany).
- 2012 – 2013 ENI S.P.A.: “Raman spectroscopy analysis of carbonaceous material as a geothermometer in low-high grade metasediments”. PI Prof. S. Corrado (Università degli studi di Roma Tre, Italy).
- 2008 – 2010 COFIN/PRIN 2007: “Proprietà fisico-chimiche dei fusi silicatici in presenza di componenti volatili: sperimentazione, modellizzazione ed applicazioni al degassamento magmatico”. PI Prof. C. Romano (Università degli Studi di Roma Tre, Italy).
- 2007 – 2009 FIRB Air Plane: “Piattaforma di ricerca multidisciplinare su terremoti e vulcani”. PI Prof. F. Barberi (Università degli Studi di Roma Tre, Italy).

## SUPERVISION OF POSTDOCS

- 2023 – ongoing Supervisor Dr. Dmitry Bondar (Bayerisches Geoinstitut, Universität Bayreuth, Germany).
- 2020 – 2021 Co-supervisor Dr. Paola Stabile (Università di Camerino, Italy).
- 2020 – 2021 Co-supervisor Dr. Alessio Zandonà (CNRS – CEMHTI Orléans, France).

## SUPERVISION OF PhD STUDENTS

- 2022 – ongoing Co-supervisor Gabriele Giuliani (Università degli Studi Roma Tre, Italy).
- 2021 – ongoing Supervisor Pedro Valdivia Munoz (Bayerisches Geoinstitut, Universität Bayreuth, Germany).
- 2020 – ongoing Co-supervisor Dominic Langhammer (Bayerisches Geoinstitut, Universität Bayreuth, Germany).
- 2020 – 2022 Co-supervisor Dmitry Bondar (Bayerisches Geoinstitut, Universität Bayreuth, Germany).
- 2020 – 2021 Co-supervisor Michele Cassetta (Università di Verona, Italy).
- 2019 – 2022 Co-supervisor Alex Scarani (Università degli Studi Roma Tre, Italy).
- 2019 – 2021 Co-supervisor Raschid Al-Mukadam (Clausthal University of Technology, Germany).

## STUDENT SUPERVISION

- 2020 – 2021 Supervisor MSci student Rizaldi Putra (Bayerisches Geoinstitut, Universität Bayreuth, Germany).
- 2019 Supervisor *Forschungspraktikum B* Darleen Jana Rau (Clausthal University of Technology, Germany).
- 2019 Co-supervisor MSci student Isabel Stanley (University of Bristol, UK).
- 2018 Supervisor *Forschungspraktikum A* Darleen Jana Rau (Clausthal University of Technology, Germany).
- 2017 Supervisor Erasmus+ student Alberto Caracciolo (Università di Pisa, Italy).
- 2015 Co-supervisor BSci student Laura Höltgen (Ludwig-Maximilians-Universität, Munich, Germany).
- 2015 Co-supervisor Alessandro Pisello (Università di Perugia, Italy).

## MEDIA ATTENTION

- Following the publication Di Genova, D., et al 2017. *Nature*, [Link](#).  
[Nature Podcast](#), [University of Bristol](#), [Earth Magazine](#), [Phys.org](#), [Top News in Geochemical News](#), [EurekAlert!](#), [Il Fatto Quotidiano](#), [Ansa](#), [Science Daily](#), [Focus](#), [Ria](#), [ABC](#), [International Business Times](#), [Geology Page](#), [Science News Line](#), [Earth.com](#), [Public Now](#), [Daily Star](#), [Dailymail](#).
- Following the publication Di Genova, D., et al 2020. *Science Advances*. [Link](#).  
[University of Bayreuth](#), [University of Bristol](#), [Clausthal University of Technology](#), [Diamond Light Source](#), [Scientific American](#), [Physics World](#), [Phys.org](#), [Heritage Daily](#), [Terra Daily](#), [Analytical Science](#), [Express](#), [Notizie In](#), [Kurier](#), [GZ live](#), [Die Rheinpfalz](#), [Actualidad](#), [Sputnik Brasil](#).

## PUBLICATIONS

- 44 Mollo, S., Moschini, P., Ubide, T., MacDonald, A., Vetere, F., Nazzari, M., Misiti, V., Miyajima, N., Melai, C., **Di Genova, D.**, Vona, A., Di Fiore, F., Romano, R., **2023**. Kinetic partitioning of trace cations between zoned clinopyroxene and a variably cooled-decompressed alkali basalt: Thermodynamic considerations on lattice strain and electrostatic energies of substitution. *Geochimica et Cosmochimica Acta*. [Link](#).
- 43 Zandonà, A., Scarani, A., Löschmann, J., Cicconi, M.R., Di Fiore, de Ligny, D., Deubener, J., Vona, A., Allix, M., **Di Genova, D.**, **2023**. Non-stoichiometric crystal nucleation in a spodumene glass containing TiO<sub>2</sub> as seed former: Effects on the viscosity of the residual melt. *Journal of Non-Crystalline Solids*. [Link](#).
- 42 Valdivia, P., Zandonà, A., Kurnosov, A., Ballaran, T. B., Deubener, J., **Di Genova, D.**, **2023**. Are volcanic melts less viscous than we thought? The case of Stromboli basalt. *Contributions to Mineralogy and Petrology*. [Link](#).
- 41 **Di Genova, D.**, Bondar, B., Zandonà, A., Valdivia, P., Al-Mukadam, R., Fei, H., Withers, A.C., Boffa Ballaran, T., Kurnosov, A., McCammon, C., Deubener, J., Katsura, T., **2023**. Viscosity of anhydrous and hydrous peridotite melts. *Chemical Geology*. [Link](#).
- 40 Langhammer, D., **Di Genova, D.**, Steinle-Neumann, G., **2022**. Modelling viscosity of volcanic melts with artificial neural networks. *Geochemistry, Geophysics, Geosystems*. [Link](#).
- 39 Scarani, A., Zandonà, A., Di Fiore, F., Valdivia, P., Putra, R., Miyajima, N., Bornhöft, H., Vona, A., Deubener, J., Romano, C., **Di Genova, D.**, **2022**. A chemical threshold controls nanocrystallization and degassing behaviour in basalt magmas. *Nature Communications Earth & Environment*. [Link](#).
- 38 Arzilli, F., Polacci, M., La Spina, G., Le Gall, N., Llewellyn, E., Brooker, R.A., Torres-Orozco, R., **Di Genova, D.**, Neave, D., Hartley, M., Mader, H.M., Giordano, D., Atwood, R.C., Lee, P., Heidelbach, F., Burton, M., **2022**. Dendritic crystallization in hydrous basaltic magmas controls magma mobility within the Earth's crust. *Nature Communications*. [Link](#).
- 37 Scarani, A., Vona, A., **Di Genova, D.**, Al-Mukadam, R., Romano, C., Deubener, J., **2022**. Determination of cooling rates of glasses over four orders of magnitude. *Contributions to Mineralogy and Petrology*. [Link](#).
- 36 Bondar, D., Zandonà, A., Withers, A.C., Fei, H., **Di Genova, D.**, Miyajima, N., Katsura, T., **2022**. Rapid-quenching of high-pressure depolymerized hydrous silicate (peridotitic) glasses. *Journal of Non-Crystalline Solids*. [Link](#).
- 35 Dingwell, D.B., Hess, K.-U., Wilding, M.C., Brooker, R.A., **Di Genova, D.**, Drewitt, J.W.E., Wilson, M., Weidendorfer, D., **2022**. The glass transition and the non-Arrhenian viscosity of carbonate melts. *American Mineralogist*. [Link](#).
- 34 Langhammer, D., **Di Genova, D.**, Steinle-Neumann, G., **2021**. Modeling the viscosity of anhydrous and hydrous volcanic melts. *Geochemistry, Geophysics, Geosystems*. [Link](#).
- 33 Cassetta, M., **Di Genova\*, D.**, Zanatta, Z., Boffa Ballaran, T., Kurnosov, A., Giarola, M., Mariotto, G., **2021**. Estimating the viscosity of volcanic melts from the vibrational properties of their parental glasses. *Scientific Reports*. [Link](#).

- 32 Le Gall, N., Arzilli, F., La Spina, G., Polacci, M., Cai, B., Hartley, M.E., Vo, T.N., Atwood, R.C., **Di Genova, D.**, Nonni, S., E., Llewellyn, E., Burton, M.R., Lee, P. **2021**. In situ quantification of crystallisation kinetics of plagioclase and clinopyroxene in basaltic magma: implications for lava flow. *Earth and Planetary Science Letters*. [Link](#).
- 31 Stabile, P., Sicola, S., Giuli, G., Paris, E., Carroll, M.R., Deubener, J., **Di Genova, D.**, **2021**. The effect of iron and alkali on the nanocrystal-free viscosity of volcanic melts: A combined Raman spectroscopy and DSC study. *Chemical Geology*. [Link](#).
- 30 La Spina, G., Arzilli, F., Llewellyn, E.W., Burton, M., Clarke, A.B., de' Michieli Vitturi, M., Polacci, M., Hartley, M., **Di Genova, D.**, Mader, H.M., **2021**. Explosivity of basaltic lava fountains is controlled by magma rheology, ascent rate and outgassing. *Earth and Planetary Science Letters*. [Link](#).
- 29 **Di Genova, D.**, Brooker, R.A., Mader, H.M., Drewitt, J.W.E., Longo, A., Deubener, J., et al., **2020**. In situ observation of nanolite growth in volcanic melt: A driving force for explosive eruptions. *Science Advances*. [Link](#).
- 28 Hughes, E.C., Buse, B., Kearns, S.L., Brooker, R.A., **Di Genova, D.**, Kilgour, G., Mader, H.M., Blundy, J.D., **2020**. The microanalysis of iron and sulphur oxidation states in silicate glass - Understanding the effects of beam damage. *IOP Conference Series: Materials Science and Engineering*. [Link](#).
- 27 **Di Genova, D.**, Zandona, A., Deubener, J., **2020**. Unravelling the effect of nano-heterogeneity on the viscosity of silicate melts: Implications for glass manufacturing and volcanic eruptions. *Journal of Non-Crystalline Solids*, 545, 120248. [Link](#).
- 26 Dobson, K.J., et al., **2020**. Quantifying microstructural evolution in moving magma. *Frontiers in Earth Science*. [Link](#).
- 25 Al-Mukadam, R., **Di Genova\***, **D.**, Bornhöft, H., Deubener, J., **2020**. High rate calorimetry derived viscosity of oxide melts prone to crystallization. *Journal of Non-Crystalline Solids*, 536, 15. \*Corresponding author. [Link](#).
- 24 Bamber, E. C., Arzilli, F., Polacci, M., Hartley, M., Fellowes, J. **Di Genova, D.**, Chavarria, C., Saballos, J.A., Burton, M., **2020**. Pre- and *syn*-eruptive conditions of a basaltic Plinian eruption at Masaya Volcano, Nicaragua: The Masaya Triple Layer (2.1 ka). *Journal of Volcanology and Geothermal Research*. [Link](#).
- 23 Arzilli, F., La Spina, G., Burton, M., Polacci, M., Le Gall, N., Hartley, M., **Di Genova, D.**, Cai, B., Vo, N., Bamber, E., Nonni, S., Atwood, R.C., Llewellyn, E., Brooker, R.A., Mader, H.M., Lee, P. **2019**. Highly explosive basaltic eruptions: magma fragmentation induced by rapid crystallisation. *Nature Geoscience*, 12, 1023–1028. [Link](#).
- 22 Giordano, D., González-García, D., Russel, J.K., Raneri, S., Bersani, D., Fornasini, L., **Di Genova, D.**, Ferrando, S., Kaliwoda, M., Lottici, P.P., Smit, M., Dingwell, D.B, 2019. A calibrated database of Raman spectra for natural silicate glasses: implications for modelling melt physical properties. *Journal of Raman spectroscopy*. [Link](#).
- 21 Arzilli, F., Morgavi, D., Petrelli, M., Polacci, M., Burton, M., **Di Genova, D.**, Spina, L., La Spina, G., Hartley, M.E., Romero, J.E., Fellowes, J., Diaz-Alvarado, J., Perugini, D., **2019**. The unexpected explosive sub-Plinian eruption of Calbuco Volcano (22-23 April 2015; southern Chile): Triggering mechanism implication. *Journal of Volcanology and Geothermal Research*, 378, 35–50. [Link](#).

- 20 **Di Genova, D.**, Caracciolo, A., Kolzenburg, S., **2018.** Measuring the degree of “nanotilization” of volcanic glasses: Understanding syn-eruptive processes recorded in melt inclusions. *Lithos.* 318–319, 209–218, [Link](#).
- 19 Hughes, E., Buse, B, Kearns, S.K., **Di Genova D.**, Blundy, J., **2018.** Analysis of Redox Changes in Silicate Glasses Using EPMA and Raman Spectroscopy. *Microscopy and Microanalysis* 24 (S1), 2022–2023. [Link](#).
- 18 Fuglignati, P. Gioncada, A., Costa, S. **Di Genova D.**, Di Traglia, F., Pistolesi, M., **2018.** Magmatic sulfide immiscibility at an active magmatic-hydrothermal system: the case of La Fossa (Vulcano, Italy). *Journal of Volcanology and Geothermal Research*, 358, 45–57. [Link](#).
- 17 Polacci, M., Arzilli, F., La Spina, G., Le Gall, N., Cai, B., Hartley, M., **Di Genova D.**, Vo, N., Nonni, S., Atwood, R., Llewellyn, E., Lee P., and Burton., M. R., **2018.** Crystallisation in basaltic magmas revealed via in situ 4D synchrotron X-ray microtomography. *Scientific Reports*, 8, 8377. [Link](#).
- 16 Hughes, E., Buse, B, Kearns, S.K., Blundy, J., Kilgour, G., Mader, H., Brooker, R.A., Balzer, R., Botcharnikov, R., **Di Genova, D.**, Almeev, R.R., Riker, J.M., **2018.** High spatial resolution analysis of the Iron oxidation state in silicate glasses using the electron probe. *American Mineralogist*, 103 (9): 1473–1486. [Link](#).
- 15 Kolzenburg, S., **Di Genova, D.**, Giordano, D., Hess, K.U., Dingwell, D.B., **2018.** The effect of oxygen fugacity on the rheologic cut-off of basalts. *Earth and Planetary Science Letters*, 487, 21–32. [Link](#).
- 14 **Di Genova, D.**, Kolzenburg, S., Wiesmaier, S., Dallanave, E., Neuville, D., Hess, K.-U., Dingwell, D. B., **2017.** A subtle chemical tipping point governing mobilization and eruption style of rhyolitic magma. *Nature*, 552, 235–238. [Link](#).
- 13 **Di Genova, D.**, Sicola, S., Romano, C., Vona, A., Fanara, S., **2017.** Effect of iron and nanolites on Raman spectra of volcanic glasses: a reassessment of existing strategies to estimate the water content. *Chemical Geology*, 475, 76–86. [Link](#).
- 12 **Di Genova, D.**, Vasseur, J., Hess, K.-U., Neuville, D. R., Dingwell, D. B., **2017.** Effect of oxygen fugacity on the glass transition, viscosity and structure of silica- and iron-rich magmatic melts. *Journal of non-crystalline solids*, 470, 78–85. [Link](#).
- 11 **Di Genova, D.**, Hess, K.-U., Chevrel, M. O., Dingwell, D. B., **2016.** Models for the estimation of  $Fe^{3+}/Fe_{tot}$  ratio in terrestrial and extra-terrestrial alkali- and iron-rich silicate glasses using Raman spectroscopy. *American Mineralogist*, 101, 943–952. [Link](#).
- 10 Spina, L., Cimarelli C., Scheu, B., **Di Genova, D.**, Dingwell, D. B., **2016.** On the decompressive response of volatile- and crystal-bearing magmas: an analogue experimental investigation. *Earth and Planetary Science Letters*, 433, 44–53. [Link](#).
- 9 **Di Genova, D.**, Cimarelli, C., Hess, K.-U., Dingwell, D. B., **2016.** An enhanced rotational rheometer system for highly fluid melts at high temperature. *American Mineralogist*, 101, 953–959. [Link](#).
- 8 **Di Genova, D.**, Kolzenburg, S., Vona, A. Hess, K.-U., Chevrel, M. O., Neuville, D. R., Ingrisch, W. E., Romano, C., Dingwell, D. B., **2016.** Raman spectra of Martian glass analogues: a tool to approximate their chemical composition. *Journal of Geophysical Research Planets*, 121, 5, 740–752. [Link](#).

- 7 Yilmaz, T., Duschl, F., **Di Genova D.**, 2016. Feathery and network-like filamentous textures as indicators for the crystallization of quartz from a silica gel precursor at the Rusey Fault, Cornwall, UK. *Solid Earth Discussion*, 7, 1509–1519. [Link](#).
- 6 **Di Genova, D.**, Morgavi, D., Hess, K.-U., Neuville, D. N., Borovkov, N., Perugini, D., Dingwell, D. B., 2015. Approximate chemical analysis of volcanic glasses using Raman spectroscopy. *Journal of Raman Spectroscopy*. *Journal of Raman Spectroscopy*, 46, 12, 1235–1244. [Link](#).
- 5 Giordano, D., Nichols, A.R.L., Potuzak, M., **Di Genova, D.**, Romano, C. and Russell, J.K, 2015. Heat capacity of hydrous trachybasalt from Mt Etna: comparison with  $\text{CaAl}_2\text{Si}_2\text{O}_8$  (An) –  $\text{CaMgSi}_2\text{O}_6$  (Di) as basaltic proxy compositions. *Contribution to Mineralogy and Petrology*, 170:48. [Link](#).
- 4 **Di Genova, D.**, Romano, C., Giordano, D. Alletti, M., 2014. Heat capacity, configurational heat capacity and fragility of hydrous magmas. *Geochimica et Cosmochimica Acta*, 142, 314–333. [Link](#).
- 3 **Di Genova, D.**, Romano, C., Alletti, M., Misiti, V., Scarlato, P., 2014. The effect of  $\text{CO}_2$  and  $\text{H}_2\text{O}$  on Etna and Fondo Riccio (Phlegrean Fields) liquid viscosity, glass transition temperature and heat capacity. *Chemical Geology*, 377, 72–86. [Link](#).
- 2 **Di Genova, D.**, Vona, A., Romano, C., Hess, K.U., Poe, B.T., Giordano, Dingwell, D.B., Behrens, H., 2013. The rheology of peralkaline rhyolites from Pantelleria Island. *Journal of Volcanology and Geothermal Research*, 249, 201–216. [Link](#).
- 1 Poe, B.T., Romano, C., **Di Genova, D.**, Behrens, H., Scarlato, P., 2012. Mixed electrical conduction in a hydrous pantellerite glass. *Chemical Geology*, 6, 320-321. [Link](#).