

ALLEGATO B

Decreto Rettore Università di Roma “La Sapienza” n. 2081/2025 del 09/07/2025
CODICE CONCORSO 2025_POcomma4ter_005

SILVIO MOLLO Curriculum Vitae*

*versione redatta ai fini della pubblicazione

Place: Rome
Date: 3 August 2025

Part I – General Information

Full Name	Silvio Mollo
Citizenship	Italian
Spoken Languages	Italian, English

Part II – Education

IIA - University graduation and PHD (listed from the oldest to the most recent and grouped by institution)

Type	Year	Institution	Notes (Degree, Experience,...)
University graduation	04/28/2003	University of Roma Tre	Degree in Geological Sciences. Grade: 110/110 cum laude. Dissertation on: "I prodotti di Punta Luccia (Isola di Vulcano, Arcipelago delle Eolie): Datazione con il metodo dei disequilibri radioattivi nelle serie di decadimento dell'uranio. Caratterizzazione geochimica e petrografica"
PhD	03/14/2008	University of Roma Tre	PhD in Geodynamic (Earth Sciences). Dissertation on: "Basalt/crust time-dependent interaction. Major and trace element behaviour in the resulting melts"

IIB - Specialistic courses (listed from the oldest to the most recent and grouped by institution)

Year	Institution	Notes
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2005	Società Italiana di Mineralogia e Petrologia. Prof. Pietro Armienti.	Scuola di Petrografia. "Anatomia di un vulcano: l'Etna e le sue radici. Un vulcano attivo come laboratorio per test petrogenetici
2005	ISPET - International Seminars of Petrology funded by MIUR. Prof. Bernardo Cesare.	Advanced analytical and experimental techniques in petrology
2006	University of Hannover. Prof. Harald Behrens.	Glass chemistry short course
2016	Sapienza University of Rome	"Formazione Generale lavoratori. Ai sensi del D.lgs. 81/08 e s.m.i. - art. 37 e dell'Accordo Stato-Regioni del 21/12/2011"
2018	Sapienza University of Rome	"Corso di formazione generale per lavoratori. Ai sensi del D.lgs. 81/08 e s.m.i. - art. 37 e dell'Accordo Stato-Regioni del 21/12/2011"
2024	Sapienza University of Rome	"Corso Privacy per Università. Regolamento (UE) 2016/679 del Parlamento europeo e del Consiglio del 27.04.2016 "Regolamento generale sulla protezione dei dati" GDPR, Dlgs 101 e il D.Lgs. n. 196/2003 "Codice in materia di protezione dei dati personali", come modificato dal D.Lgs. n. 101 del 10.08.2018"
2025	Sapienza University of Rome	"Corso di formazione generale per lavoratori. Ai sensi del D.lgs. 81/08 e s.m.i. - art. 37 e dell'Accordo Stato-Regioni del 21/12/2011"

Part III – Appointments

IIIA – Academic Appointments at Sapienza University of Rome (listed from the oldest to the most recent and grouped by institution)

Year	Institution	Position
30/10/2015-Present	Sapienza University of Rome	Associate Professor in Petrology, ex-GEO/07, GEOS-01/B, Department of Earth Sciences
A.A. 2016-2017	Sapienza University of Rome	Chair of the Selection Committee for #12 PhD Positions - PhD Programme in Earth Sciences - 32° Ciclo (#1726/2016, date 18/07/2016; Committee reference number 0052269, date 18/07/2016)
A.A. 2016-2017	Sapienza University of Rome	Member of the Selection Committee "Esame di Stato per la professione di Geologo"
01/11/2016-Present	Sapienza University of Rome	Member of the PhD Board of the PhD Programme in Earth Sciences

04/11/2016-08/11/2018	Sapienza University of Rome	Chair of the Committee "Idoneità della Lingua Inglese per il Corso di Laurea di Scienze Geologiche"
25/01/2017-Present	Sapienza University of Rome	Member of the Selection Committee "Svolgimento delle prova, attitudinali di professionisti esteri che hanno ottenuto il riconoscimento del proprio titolo professionale ai fini dell'iscrizione all'albo dei geologi - D. Igs.206/2007" (Dean's Decree #0005160 date 25/01/2017 and #0027944 date 09/04/2021)
01/11/2018-31/10/2024	Sapienza University of Rome	Coordinator of the PhD Programme in Earth Sciences (PhD Board Election Date 25/10/2018, and Dean's Decree #604/2021)
01/11/2018-2024	Sapienza University of Rome	Member of the Doctoral School in Astronomy, Chemistry, Physics, Mathematics and Earth Sciences "Vito Volterra"
01/11/2018-2024	Sapienza University of Rome	Member of the Department of Earth Sciences Panel "Commissioni Istruttorie: Commissione Didattica e Orientamento"
18/09/2019	Sapienza University of Rome	Member of the Selection Committee for #1 postdoctoral fellowship - AR N. 09/2019 – PROT 2283.VII/1 – REP 199, date 09/07/2019 (Head of the Department Decree #2929.VII/1, date 18/09/2019)
01/09/2021-31/08/2024	Sapienza University of Rome	Supervisor of #1 Marie Skłodowska-Curie (MSCA) Individual Fellowship (IF) to Ivan Sunye-Puchol, Grant #101024337 - PUSKURUM - Characterising the proximal pyroclastic deposits in Central Anatolia to improve the recent explosive volcanic history, synchronise sedimentary records, and better assess volcanic hazards in Turkey
A.A. 2021-2022	Sapienza University of Rome	Member of the Selection Committee for #6 research projects MUR n. 247, date 19/08/2022, PNRR Actions 2 and 3 for participants to Marie Skłodowska-Curie Individual Fellowships and Postdoctoral Fellowships with “Seal of Excellence” (MUR Decree #247 date 19/08/2022; Committee reference number, Dean's Decree #2666/2022 date 21/09/2022)
A.A. 2021-2022	Sapienza University of Rome	Member of the Selection Committee for #4 research projects Seal of Sapiexcellence 2022 (Dean's Decree #1628/2022 date 11/05/2022; Committee reference number, Dean's Decree #2089/2022 date 06/07/2022)

A.A. 2021-2022	Sapienza University of Rome	Member of the Selection Committee for #2 postdoctoral research positions Fellowships ADD Sapiexcellence 2022 (Dean's Decree #500 date 18/02/2022; Committee reference number, Dean's Decree #1667/2022 date 24/05/2022)
A.A. 2022-2023	Sapienza University of Rome	Member of the Outreach Panel Team "European Research Night" at the Department of Earth Sciences
A.A. 2022-2023	Sapienza University of Rome	Member of the Selection Committee for #4 research projects Fellowship ADD Sapixcellence 2023 (Dean's Decree #689/2023 date 24/03/2023; Committee reference number, Dean's Decree #1238/2023 date 19/05/2023)
A.A. 2022-2023	Sapienza University of Rome	Member of the Selection Committee for #4 research projects Fellowship SEAL of Sapiexcellence 2023 (Dean's Decree #776/2023 date 31/03/2023; Committee reference number, Dean's Decree #1239/2023 date 19/05/2023)
A.A. 2023-2024	Sapienza University of Rome	Member of the PhD Panel in Earth Sciences "Sistema di Ascolto dei Dottorandi". Rules on periodic accreditation of academic Institutions and Educational Programmes" (AVA3). D.M. 226/ 2021, D.M. 301/2022, ANVUR #26/2024, ANVUR #62/2024
A.A. 2023-2024	Sapienza University of Rome	Member of the PhD Panel in Earth Sciences "Commissione di Gestione dell'Assicurazione Qualità - CGAQ". Rules on periodic accreditation of academic Institutions and Educational Programmes" (AVA3). D.M. 226/ 2021, D.M. 301/2022, ANVUR #26/2024, ANVUR #62/2024
1/09/2024-31/08/2025	Sapienza University of Rome	Supervisor of #1 Add-Sapiexcellence to Ivan Sunye-Puchol, finalizzato al finanziamento di fellowship allo scopo di estendere di 12 mesi la durata delle attività di ricerca correlate ai progetti Marie Skłodowska-Curie (MSCA) Individual Fellowships (IF)
21/11/2024-28/02/2025	Sapienza University of Rome	Member of the Research Committee ("Commissione Ricerca") for monitoring the implementation of projects funded under the Scientific Research call of Sapienza University of Rome (Dean's Decree #3181/2024 date 21/11/2024)

IIIB – Other Academic Appointments (listed from the oldest to the most recent and grouped by institution)

Year	Institution	Position
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A.A. 2008-2009	University G. d'Annunzio Chieti-Pescara	Culture della Materia per "Petrografia", "Tecniche Analitiche Per la Caratterizzazione dei Materiali Naturali Sintetici e Tecnologici"
A.A. 2009-2010	University G. d'Annunzio Chieti-Pescara	Culture della Materia per "Petrografia", "Analisi Mineralogica e Petrografica", "Analisi Mineralogiche", "Mineralogia e Petrografia Applicata", "Laboratorio di Mineralogia", "Laboratorio di Petrografia", "Analisi Petrografiche", "Depurazione delle Acque"
A.A. 2013-2014	University G. d'Annunzio Chieti-Pescara	Culture della Materia per "Mineralogia"
10/04/2017-10/04/2028	Ministry of University and Research - MUR	ASN 2016/2018 - Attestazione di avvenuto conseguimento dell'Abilitazione Scientifica Nazionale alle funzioni di professore universitario di Prima Fascia nel Settore Concorsuale 04/A1 - Geochimica, Mineralogia, Petrologia, Vulcanologia, Georisorse ed Applicazioni.
16/06/2020	University of Roma Tre	Member of the Selection Committee for #1 RTDB upgrade to Associate Professor - 04/A1 "Geochimica, Mineralogia, Petrologia, Vulcanologia, Georisorse ed Applicazioni" e nel settore scientifico-disciplinare GEO/07 "Petrologia e Petrografia" (#23042020, Committee reference date 16/06/2020)
30/01/2023	University of Roma Tre	Member of the Selection Committee for #1 Research Position RTDA - 04/A1 "Geochimica, Mineralogia, Petrologia, Vulcanologia, Georisorse ed Applicazioni" e nel settore scientifico-disciplinare GEO/09 "Georisorse minerarie e applicazioni mineralogico-petrografiche per l'ambiente ed i beni culturali" (Dean's Decree n. 8396/2023, date 30/01/2023)
14/10/2020	University of Camerino - UNICAM	Member of the Selection Committee for #1 Research Position RTDB - 04/A1 "Geochimica, Mineralogia, Petrologia, Vulcanologia, Georisorse ed Applicazioni" e nel settore scientifico-disciplinare GEO/07 "Petrologia e Petrografia" (Dean's Decree n. 284/2020, date 14/10/2020)

A.A. 2025-present	University of Roma Tre	Member of the Advisory Board of the PhD Programme in Earth Sciences. Rules on periodic accreditation of academic Institutions and Educational Programmes (AVA3). D.M. 226/ 2021, D.M. 301/2022, ANVUR #26/2024, ANVUR #62/2024
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IIIC – Scientific Appointments (listed from the oldest to the most recent and grouped by institution)

Year	Institution	Position
01/04/2008-31/03/2012	National Institute of Geophysics and Volcanology - INGV	Postdoctoral research position "Assegnista di Ricerca" (Decree #125/2008, date 25/03/2008; Decree #374/2009, date 20/09/2009; Decree #613/2009, date 15/12/2009; Decree #728/2010, date 30/12/2010; Decree #435, date 28/12/2011)
01/04/2012-01/04/2016	National Institute of Geophysics and Volcanology - INGV	Research position "Ricercatore II livello retributivo" (Decree #170/2012, date 29/03/2012; Decree #81/2015, date 06/03/2015). "In aspettativa senza alcun assegno" from 30/10/2015 to 01/04/2016 (Decree #484, date 26/10/2015)
03/06/2012	National Institute of Geophysics and Volcanology - INGV	Member of the Selection Committee for #1 Marie Curie Initial Training Networks EU NEMOH (Decree #2/2012, date 13/06/2012; Committee reference number 0006322, date 3/06/2012)
03/07/2014	National Institute of Geophysics and Volcanology - INGV	Member of the Selection Committee for #1 Marie Curie Initial Training Networks EU VERTIGO (Decree #6/2014, date 12/06/2014; Committee reference number 0011543, date 3/07/2014)
22/10/2014	National Institute of Geophysics and Volcanology - INGV	Chair of the Selection Committee for #1 postdoctoral fellowship - ERC GLASS (Decree #10/2014, date 3/10/2014; Committee reference number 0018377, date 22/10/2014)
28/11/2014	National Institute of Geophysics and Volcanology - INGV	Chair of the Selection Committee for #1 scholarship - Premiale NORTH (Decree #11/2014, date 12/11/2014; Committee reference number 0021571, date 28/11/2014)
2014-2015	National Institute of Geophysics and Volcanology - INGV	Chair of "Gruppo di Ricerca Struttura Vulcani GdR V2 - Dinamiche di Unrest e Scenari Pre-eruttivi" (Decree #2/2014 date 14/04/2014 and Decree #3/2015 date 25/03/2015)
16/11/2015	National Institute of Geophysics and Volcanology - INGV	Chair of the Selection Committee for #1 postdoctoral fellowship - Premiale NORTH (Decree #6/2015, date 30/10/2015; Committee reference number 0019778, date 16/11/2015)

29/11/2016	National Institute of Geophysics and Volcanology - INGV	Member of the Selection Committee for #1 research position - #12-RMI-6-16 (Decree #479/2016, date 30/09/2016; Committee reference number 0015292, date 29/11/2016)
21/09/2017	National Institute of Geophysics and Volcanology - INGV	Member of the Selection Committee for #1 postdoctoral fellowship - ERC NOFEAR (Decree #2/2017, date 06/09/2017; Committee reference number 0002039, date 21/09/2017)
2017-Present	National Institute of Geophysics and Volcanology - INGV	Incarico di Ricerca Gratuito ex art. 33 del Regolamento del Personale dell'INGV. (Decree #387/2017 date 13/06/2017, Decree #124/2021 date 04/06/2021, Decree #137/2023 date 28/04/2023)
08/05/2018	National Institute of Geophysics and Volcanology - INGV	Member of the Selection Committee for #1 postdoctoral fellowship - FISIR 2016 Top-Down task 3 - OB. FU. 0865.062 (Decree #2/2018, date 23/04/2018; Committee reference number 0006636, date 08/05/2018)
28/01/2020	National Institute of Geophysics and Volcanology - INGV	Member of the Selection Committee for #1 postdoctoral fellowship - MIUR PRIN 2017 (Decree #0000312, date 09/01/2020; Committee reference number 0001056, date 28/01/2020)
07/01/2021	National Institute of Geophysics and Volcanology - INGV	Member of the Selection Committee for #1 postdoctoral fellowship - MIUR PRIN 2017 (Decree #0015471, date 10/12/2020; Committee reference number 0000146, date 07/01/2021)
01/12/2021	National Institute of Geophysics and Volcanology - INGV	Member of the Selection Committee for #1 Technician - CTER (Decree #430/2021, date 01/10/2021; Committee reference number 543, date 01/12/2021)
14/02/2023	National Institute of Geophysics and Volcanology - INGV	Chair of the Selection Committee for #1 Technician, 3 Technologists, and 3 Researchers - PNRR "Monitoring Earth Evolution and Tectonics – MEET" (Committee reference number #121, date 14/02/2023)
16/09/2019	Società Italiana di Mineralogia e Petrologia - SIMP	Member of the Selection Committee for the PhD Thesis Award
03/04/2025	International Mineralogical Association - IMA	Member of the Pyroxene Nomenclature Subcommittee - Commission on new minerals nomenclature and classification - CNMNC

Part IV – Teaching experience

IVA - Academic courses at Sapienza University of Rome (listed from the oldest to the most recent and grouped by institution)

Year	Institution	Lecture/Course
A.A. 2016- 2017	Sapienza University of Rome	Course of "Petrografia", Bachelor's degree in Scienze Naturali, [1016317], 6 CFU, ex-GEO/07, GEOS-01/B
A.A. 2017- 2018	Sapienza University of Rome	Course of "Petrografia", Bachelor's degree in Scienze Naturali, [1016317], 6 CFU, ex-GEO/07, GEOS-01/B
A.A. 2018- 2019	Sapienza University of Rome	Course of "Petrografia", Bachelor's degree in Scienze Naturali, [1016317], 6 CFU, ex-GEO/07, GEOS-01/B
A.A. 2020- 2021	Sapienza University of Rome	Course of "Petrografia", Bachelor's degree in Scienze Naturali, [1016317], 6 CFU, ex-GEO/07, GEOS-01/B
A.A. 2021- 2022	Sapienza University of Rome	Course of "Petrografia", Bachelor's degree in Scienze Naturali, [1016317], 6 CFU, ex-GEO/07, GEOS-01/B
A.A. 2023- 2024	Sapienza University of Rome	Course of "Petrografia", Bachelor's degree in Scienze Naturali, [1016317], 6 CFU, ex-GEO/07, GEOS-01/B
A.A. 2024- 2025	Sapienza University of Rome	Course of "Petrografia", Bachelor's degree in Scienze Naturali, [1016317], 6 CFU, ex-GEO/07, GEOS-01/B
A.A. 2016- 2017	Sapienza University of Rome	Module of "Petrografia", 3 CFU, ex-GEO/07, GEOS-01/B, in the course of "Mineralogia e Petrografia", Bachelor's degree in Scienze Ambientali, [1041616], 9 CFU
A.A. 2017- 2018	Sapienza University of Rome	Module of "Petrografia", 3 CFU, ex-GEO/07, GEOS-01/B, in the course of "Mineralogia e Petrografia", Bachelor's degree in Scienze Ambientali, [1041616], 9 CFU
A.A. 2017- 2018	Sapienza University of Rome	Module of "Petrologia Sperimentale", 6 CFU, ex-GEO/07, GEOS-01/B, in the course of "Petrologia Sperimentale Applicata ai Processi Ignei", Master's degree in Scienze Geologiche, Geologia di Esplorazione, [1051980], 9 CFU
A.A. 2018- 2019	Sapienza University of Rome	Course of "Fluidi Rocce e Radioattività Ambientale", Master's degree in Scienze Geologiche, Geologia di Esplorazione, [10589739], 6 CFU, ex-GEO/07, GEOS-01/B

A.A 2019- 2020	Sapienza University of Rome	Course of "Fluidi Rocce e Radioattività Ambientale", Master's degree in Scienze Geologiche, Geologia di Esplorazione, [10589739], 6 CFU, ex-GEO/07, GEOS-01/B
A.A 2020- 2021	Sapienza University of Rome	Course of "Fluidi Rocce e Radioattività Ambientale", Master's degree in Scienze Geologiche, Geologia di Esplorazione, [10589739], 6 CFU, ex-GEO/07, GEOS-01/B
A.A 2021- 2022	Sapienza University of Rome	Course of "Fluidi Rocce e Radioattività Ambientale", Master's degree in Scienze Geologiche, Geologia di Esplorazione, [10589739], 6 CFU, ex-GEO/07, GEOS-01/B
A.A 2022- 2023	Sapienza University of Rome	Course of "Fluidi Rocce e Radioattività Ambientale", Master's degree in Scienze Geologiche, Geologia di Esplorazione, [10589739], 6 CFU, ex-GEO/07, GEOS-01/B
A.A 2023- 2024	Sapienza University of Rome	Course of "Fluidi Rocce e Radioattività Ambientale", Master's degree in Scienze Geologiche, Geologia di Esplorazione, [10589739], 6 CFU, ex-GEO/07, GEOS-01/B
A.A 2024- 2025	Sapienza University of Rome	Course of "Fluidi Rocce e Radioattività Ambientale", Master's degree in Scienze Geologiche, Geologia di Esplorazione, [10589739], 6 CFU, ex-GEO/07, GEOS-01/B

IVB - Seminars (listed from the oldest to the most recent and grouped by institution)

Year	Institution	Lecture/Course
A.A 2006- 2007	University of Roma Tre	Seminars in the course of "Geocronologia e Geochimica Isotopica", 4 hours, 2 days
A.A 2007- 2008	University of Roma Tre	Seminars in the course of "Geocronologia e Geochimica Isotopica", 4 hours, 2 days
A.A 2008- 2009	University of Roma Tre	Seminars in the course of "Geocronologia e Geochimica Isotopica", 4 hours, 2 days
A.A 2006- 2007	University of Roma Tre	Seminar in the course of "Introduzione alla Vulcanologia", 2 hours, 1 day
A.A 2007- 2008	University of Roma Tre	Seminars in the course of "Minerogenesi e Petrogenesi", 4 hours, 2 days
17/11/2011	Lunar and Planetary Institute - LPI, Houston, USA	LPI Seminar Series, "Influence of Cooling Rate on Textural and Chemical Features of Terrestrial and Extraterrestrial Basaltic Rocks, 2 hours, 1 day

08/06/2015	University of Ferrara	"Tecniche di petrologia e vulcanologia sperimentali"
22/09/2016	European Mineralogical Union - EMU School on Mineral Reaction Kinetics, University of Vienna, Austria	Seminar on "Dynamics of Magmatic Systems", 2 hours, 1 day
18/09/2023	Sapienza University of Rome, European Research Night	Seminar on "Le rocce e la radioattività ambientale", 1 hour, 1 day
12/02/2024	University of Tübingen	Seminar on "An overview of thermodynamics and kinetics of crystal growth and cation partitioning", 2 hours, 1 day
21/05/2025	University of Camerino	Seminar on "Kinetics of crystal growth: Implications for understanding magma dynamics"

IVC - Supervisor/Co-Supervisor of B.Sc., M. Sc., and PhD Thesis in Earth Sciences (listed from the oldest to the most recent and grouped by institution)

Year	Institution	Degree
A.A. 2004-2005	University G. d'Annunzio Chieti-Pescara	Co-Supervisor of #2 B.Sc. Thesis (Mineralogy and Petrology)
A.A. 2006-2007		
A.A. 2009-2010	University G. d'Annunzio Chieti-Pescara	Co-Supervisor of #2 M.Sc. Thesis (Mineralogy and Petrology)
A.A. 2011-2012	University of Roma Tre	Co-Supervisor of #1 B.Sc. Thesis (Geochemistry)
A.A. 2006-2007	University of Roma Tre	Co-Supervisor of #8 M.Sc. Thesis (Geochemistry)
A.A. 2007-2008		
A.A. 2008-2009		
A.A. 2009-2010		
A.A. 2010-2011		
A.A. 2012-2013		
A.A. 2014-2015		
A.A. 2016-2017		

A.A. 2014-2015	ETH-Zurich	Co-Supervisor of #1 B.Sc. Thesis (Petrology)
A.A. 2015-2016	University of Urbino Carlo Bo	Co-Supervisor of #1 B.Sc. Thesis (Petrology)
A.A. 2013-2014	University of Ferrara	Co-Supervisor of #2 M.Sc. Thesis (Petrology)
A.A. 2013-2014	Sapienza University of Rome	Supervisor of #11 B.Sc. Thesis (Petrology)
A.A. 2015-2016		
A.A. 2017-2018		
A.A. 2018-2019		
A.A. 2019-2020		
A.A. 2022-2023		
A.A. 2023-2024		
A.A. 2024-2025		
A.A. 2016-2017	Sapienza University of Rome	Supervisor of #6 M.Sc. Thesis (Petrology)
A.A. 2018-2019		
A.A. 2020-2021		
A.A. 2023-2024		
A.A. 2024-2025		
A.A. 2014-2017	Sapienza University of Rome	Co-Supervisor of #2 PhD Thesis (Petrology)
A.A. 2019-2022		
A.A. 2016-2018	Sapienza University of Rome	Supervisor of #7 PhD Thesis (Petrology)
A.A. 2018-2020		
A.A. 2022-2024		
A.A. 2023-2026		
A.A. 2017-2020	University of Otago	Co-Supervisor of #1 PhD Thesis (Petrology)
A.A. 2024-2025	Université Toulouse III Paul Sabatier	Programme Erasmus+ 2021-2027 - Student mobility for traineeships - Supervisor at the receiving organisation of #1 M.Sc. Thesis (Petrology)

IVD - Member of B.Sc. and M. Sc. Graduate Committees, PhD Final Defence Committees in Earth Sciences, and Referee of PhD Thesis (listed from the oldest to the most recent and grouped by institution)

Year	Institution	Degree
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30/11/2007	University of Roma Tre	B.Sc. Committee
02/20/2009	University of Roma Tre	B.Sc. Committee
16/12/2011	University of Roma Tre	B.Sc. Committee
19/10/2007	University of Roma Tre	M.Sc. Committee
12/19/2008	University of Roma Tre	M.Sc. Committee
03/06/2009	University of Roma Tre	M.Sc. Committee
05/08/2009	University of Roma Tre	M.Sc. Committee
07/24/2009	University of Roma Tre	M.Sc. Committee
10/27/2011	University of Roma Tre	M.Sc. Committee
21/02/2013	University of Roma Tre	M.Sc. Committee

A.A. 2016-2017	University of Roma Tre	Member of the PhD Defense Committee in Earth Sciences - 29° Ciclo (Dean's Decree #154 date 15/02/2017)
A.A. 2020-2021	University of Roma Tre	Member of the PhD Defense Committee in Earth Sciences - 33° Ciclo (Dean's Decree #0185198 date 24/11/2020)
A.A. 2015-2016	University of Roma Tre	Member of the PhD Defense Committee in Earth Sciences - 28° Ciclo (Decree #41293, date 28/11/2016)

A.A. 2019-2020	University of Roma Tre	Referee of #1 PhD Thesis (Geochemistry) - PhD Programme in Sciences - 32° Ciclo
A.A. 2022-2023	University of Roma Tre	Referee of #1 PhD Thesis (Geochemistry) - PhD Programme in Sciences - 35° Ciclo
A.A. 2024-2025	University of Roma Tre	Referee of #1 PhD Thesis (Geochemistry) - PhD Programme in Sciences - 37° Ciclo

28/01/2016	Sapienza University of Rome	B.Sc. Committee
19/05/2016	Sapienza University of Rome	B.Sc. Committee
18/10/2016	Sapienza University of Rome	B.Sc. Committee
18/01/2018	Sapienza University of Rome	B.Sc. Committee
20/07/2018	Sapienza University of Rome	B.Sc. Committee
24/03/2020	Sapienza University of Rome	B.Sc. Committee
19/01/2021	Sapienza University of Rome	B.Sc. Committee
22/03/2022	Sapienza University of Rome	B.Sc. Committee
28/01/2016	Sapienza University of Rome	M.Sc. Committee
17/05/2016	Sapienza University of Rome	M.Sc. Committee
19/05/2016	Sapienza University of Rome	M.Sc. Committee
18/10/2016	Sapienza University of Rome	M.Sc. Committee
18/01/2018	Sapienza University of Rome	M.Sc. Committee
24/03/2020	Sapienza University of Rome	M.Sc. Committee

19/01/2021	Sapienza University of Rome	M.Sc. Committee
22/03/2022	Sapienza University of Rome	M.Sc. Committee

24/05/2013	University of Uppsala (Sweden)	Member of the PhD Defense Committee in Earth Sciences (Petrology)
03/03/2016	University of Uppsala (Sweden)	Member of the PhD Defense Committee in Earth Sciences (Petrology)

24/10/2022	ETH-Zurich (Switzerland)	Member of the PhD Defense Committee in Earth Sciences (Petrology)
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A.A. 2017-2018	University of Perugia	Referee of #1 PhD Thesis (Petrology) - PhD Programme in Science and Technology for Physics and Geology - 30° Ciclo
A.A. 2018-2019	University of Perugia	Referee of #1 PhD Thesis (Petrology) - PhD Programme in Earth and Marine Sciences - 31° Ciclo

28/02/2018	McGill University (Canada)	Referee of #1 PhD Thesis (Petrology) - PhD Programme in Earth Sciences
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A.A. 2018-2019	University of Ferrara	Referee of 1 PhD Thesis (Petrology) - PhD Programme in Earth and Marine Sciences - 31° Ciclo
A.A. 2024-2025	University of Ferrara	Referee of 1 PhD Thesis (Petrology) - PhD Programme in Earth and Marine Sciences - 37° Ciclo

Part V - Society memberships *(listed from the oldest to the most recent and grouped by institution)*

Year	Title
2006	European Geosciences Union
2009	European Geosciences Union
2011	European Geosciences Union
2022	European Geosciences Union
2023	European Geosciences Union
2013	Geochemical Society
2015	Geochemical Society

2018	Geochemical Society
2013	American Geophysical Union
2014	American Geophysical Union
2025-2028	International Association of Volcanology and Chemistry of the Earth's Interior - IAVCEI
2025-2026	Società Italiana di Mineralogia e Petrologia

Part VI - Funding Information and Member of National and International Research Groups
(listed from the most recent to the oldest and grouped by institution)

Year	Title	Funding Agency	Role
2024	BlaCorTephra: Correlating Central Anatolian tephra to synchronise the Black Sea sedimentary record and evaluate the regional volcanic hazards	Sapienza University of Rome. ADD Sapiexcellence 2024 per estendere di 12 mesi la durata delle attività di ricerca correlate ai progetti Marie Skłodowska-Curie (MSCA) Individual Fellowships (IF) (Dean's Decree #1715/2024, date 12/07/2024)	Applicant and Supervisor, as reported in the documentation of the grant
2023	An integrated modeling approach to decipher the temporal, polybaric, and polythermal evolution of magmas erupted at open- conduit basaltic volcanoes in Italy	Sapienza University of Rome. Bando per la Ricerca Scientifica di Ateneo 2023 - Progetti di Ricerca Grandi (Dean's Decree #1074/2023, date 04/05/2023)	Principal Investigator
2022	Tracking ascent rates in an open-vent volcano: Testing textural and geochemical ascent speedometers	Sapienza University of Rome. Finanziamenti di Ateneo per la Ricerca Scientifica - 2022 - Progetti Piccoli (Dean's Decree #1418, date 26/04/2022)	Principal Investigator
2022	Earth Rare Elements: Looking Over the Advancing Demand	Sapienza University of Rome. Finanziamenti di Ateneo di Progetti di Ricerca Congiunti per la mobilità all'estero di Studenti di Dottorato - 2022 (Dean's Decree #1806, date 31/05/2022)	Applicant and Supervisor, as reported in the documentation of the grant
2021	Unraveling magma-mush dynamics at Mt. Etna volcano	Sapienza University of Rome. Finanziamenti di Ateneo per la Ricerca Scientifica - 2021 – Progetti Piccoli (Dean's Decree #36/2022, date	Principal Investigator

		15/02/2022)	
2021	Enhanced modeling of magma reservoirs feeding large-scale volcanic eruptions: The case study of Campi Flegrei volcanic area (Naples; Italy).	Sapienza University of Rome. Finanziamenti di Ateneo di Progetti di Ricerca Congiunti per la mobilità all'estero di Studenti di Dottorato - 2021 (Dean's Decree #1607, date 14/06/2021)	Applicant and Supervisor, as reported in the documentation of the grant
2020	Petrology and geochemistry of the 3 July 2019 paroxysm at Stromboli volcano (Italy).	Sapienza University of Rome. Finanziamenti di Ateneo per la Ricerca Scientifica - 2020 – Progetti Piccoli (Dean's Decree #256/2020, date 24/11/2020)	Principal Investigator
2019	Boiling the mush: explosive eruptions triggered by crystallization-induced volatile saturation and exsolution at Whakaari (White Island, New Zealand)	Sapienza University of Rome. Finanziamenti di Ateneo di Progetti di Ricerca Congiunti per la mobilità all'estero di Studenti di Dottorato - 2019 (Dean's Decree #2794/2020, date 05/11/2020)	Applicant and Supervisor, as reported in the documentation of the grant
2019	Understanding the plumbing system of Stromboli volcano	Sapienza University of Rome. Finanziamenti di Ateneo di Progetti di Ricerca Congiunti per la mobilità all'estero di Studenti di Dottorato - 2019 (Dean's Decree #55184, date 19/06/2019)	Applicant and Supervisor, as reported in the documentation of the grant
2019	Experimental investigation of nucleation and crystal growth parameters for complex and natural silicate systems	Sapienza University of Rome. Finanziamenti di Ateneo per la Ricerca Scientifica - 2019 – Progetti Piccoli (Dean's Decree #300/19, date 26/11/2019)	Principal Investigator
2019	The Archaeological Mission in the Rift Valley. Environment, populations and cultures in prehistoric NW Kenya. PI: Prof. Savino Di Lernia - Sapienza University of Rome	Sapienza University of Rome. Finanziamenti di Ateneo per la Ricerca Scientifica - 2019 – Progetti Grandi Scavi (Dean's Decree #239/19, date 10/09/2019)	Investigator
2019	Quantifying and modeling magma P-T degassing path and violent gas liberation at Campi Flegrei	Sapienza University of Rome. Finanziamenti di Ateneo per la Ricerca Scientifica - 2018 – Progetti Medi (Dean's Decree # 50/19, date 12/02/2019)	Principal Investigator
2018	Unravelling magma dynamics at Campi Flegrei (Neaples, Italy): Implications for volcano monitoring in densely populated volcanic areas	Sapienza University of Rome. Finanziamenti di Ateneo di Progetti di Ricerca Congiunti per la mobilità all'estero di Studenti di Dottorato - 2018	Applicant and Supervisor, as reported in the documentation of

		(Dean's Decree # 2289, date 13/06/2018)	the grant
2017	Kinetic controls on the PaRtitioning of chemical species between Olivine, Clinopyroxene and melt during solidification of terrestrial and Extraterrestrial basaltic rocks. Implications for the understanding of the crystallization conditions of magmas.	Sapienza University of Rome. Finanziamenti di Ateneo di Progetti di Ricerca Congiunti per la mobilità all'estero di Studenti di Dottorato - 2017 (Dean's Decree # 2682/2017, date 27/06/2017)	Applicant and Supervisor, as reported in the documentation of the grant
2017	Earth Rare Elements: Looking Over the Advancing Demand	Sapienza University of Rome. Finanziamenti di Ateneo per la Ricerca Scientifica - 2017 – Progetti Piccoli (Dean's Decree # 2936/2017, date 20/11/2017)	Principal Investigator
2016	Quantitative understanding of magma reservoirs feeding large-scale volcanic eruptions at Campi Flegrei	Sapienza University of Rome. Finanziamenti di Ateneo per la Ricerca Scientifica - 2016 (Dean's Decree # 88569, date 16/12/2016)	Principal Investigator
2025	CoraDrill Project “Reconstructing the Eruptive History of Erciyes volcano and the paleoclimate of Central Anatolia by drilling sediment cores within the Çora Maar Crater (Turkey) (Grant #MSCA2024_0000014). Principal Investigator: Dr. Ivan Sunye-Puchol, Sapienza University of Rome	MUR - PNRR 2024 - Mission 4, “Education and Research” - Component 2, “From Research to Business” - Investment line 1.2	Investigator
2023	PROVES Project “An integrated PetRO-Volcanological monitoring approach applied to Mt. Etna and Stromboli” (Grant #2022N4FBAA). Principal Investigator: Prof. Matteo Masotta, University of Pisa	MUR - PRIN 2022	Local Principal Investigator (Resp. Scient. Unità Ricerca)
2017	Time scales of solidification in magmas: Applications to Volcanic Eruptions, Silicate Melts, Glasses, Glass-Ceramics (Grant #2017J277S9). Principal Investigator: Prof. Michael Carroll, University of Camerino	MIUR - PRIN 2017	Investigator
2009	Decryption of Pressure, Temperature and Time paths in magmatic systems: a kinetic experimental approach (Grant #2009PZ47NA). Principal Investigator: Prof. Pietro Armienti,	MIUR - PRIN 2009	Investigator

2008	Studio sperimentale dell'emissione di radon da parte di rocce sottoposte a stress meccanico e termico. Implicazione per la sorveglianza vulcanica e sismica (Grant # 2008MC82JJ). Principal Investigator: Prof. Paola Tuccimei, University of Roma Tre	MIUR - PRIN 2008	Investigator
2007	Proprietà chimico-fisiche dei fusi silicatici in presenza di componenti volatili: sperimentazione, modellizzazione ed applicazioni al degassamento magmatico (Grant #2007M4K94A). Principal Investigator: Prof. Claudia Romano, University of Roma Tre	MIUR - PRIN 2007	Investigator
2005-2007	Panarea Project. Local Principal Investigator: Prof. Donatella De Rita, University of Roma Tre	Istituto Nazionale di Geofisica e Vulcanologia - Dipartimento di Protezione Civile	Investigator
2005-2007	Campi Flegrei Project. Local Principal Investigator: Prof. Gianluca Iezzi, University of G. d'Annunzio Chieti-Pescara	Istituto Nazionale di Geofisica e Vulcanologia - Dipartimento di Protezione Civile	Investigator
2005-2007	Colli Albani Project. Local Principal Investigator: Dr. Piergiorgio Scarlato, INGV-Roma	Istituto Nazionale di Geofisica e Vulcanologia - Dipartimento di Protezione Civile	Investigator
2008-2010	Project V4 - Flank. Local Principal Investigator: Dr. Carlo Giunchi, INGV-Pisa	Istituto Nazionale di Geofisica e Vulcanologia - Dipartimento di Protezione Civile	Investigator
2008-2010	Project V1 - Unrest. Local Principal Investigator: Dr. Carmela Freda, INGV-Roma	Istituto Nazionale di Geofisica e Vulcanologia - Dipartimento di Protezione Civile	Investigator
2013-2015	Progetto Premiale - NORTH - Nuovi Orizzonti Tecnologici per la ricerca sperimentale e il monitoraggio geofisico e vulcanologico. Principal Investigator: Dr. Piergiorgio Scarlato, INGV-Roma	Istituto Nazionale di Geofisica e Vulcanologia - Programma Ricerca scientifica e tecnologica di base MIUR 2012 (Progetto 10 Linea Intervento 3 - Esercizio 2013)	Investigator
2019	Magma dynamics triggering the 3 July and 28 August 2019 paroxysms at Stromboli volcano: A comparative approach based on the ascent rates, timescales and P-T-H ₂ O paths of magma. Principal Investigator: Dr.	Istituto Nazionale di Geofisica e Vulcanologia - Bando Ricerca Libera (Decree #53/2020, date 06/03/2020)	Investigator

Piergiorgio Scarlato, INGV-Roma

2021	ENHANCE – Enhanced understanding of magma dynamics at open-conduit volcanoes: a time-integrated kinetic growth modeling of clinopyroxene intracrystalline changes. Principal Investigator: Dr. Manuela Nazzari, INGV-Roma	Istituto Nazionale di Geofisica e Vulcanologia - Bando Ricerca Libera (Decree #214/2021, date 26/11/2021)	Investigator
2007-2009	TRIGS - Triggering of instabilities in materials and geosystems (Grant #043386). Principal Investigator: Prof. Stefano Zapperi, University of Milan La Statale	European Commission - Sixth Framework Programme for Research and Technological Development (FP6) - EU NEST ("New and emerging science and technologies")	Investigator
2010-2014	EPOS - European Plate Observing System (Grant #262229). Principal Investigator: Dr. Massimo Cocco, INGV-Roma	European Commission - Seventh Framework Programme for Research and Technological Development (FP7)	Investigator
2010-2015	GLASS - InteGrated Laboratories to investigate the mechanics of ASeismic vs. Seismic faulting (Grant #259256). Principal Investigator: Prof. Cristiano Collettini, Sapienza University of Rome	European Commission - ERC Staring Grant - Specific programme: "Ideas" implementing the Seventh Framework Programme of the European Community for research, technological development and demonstration activities (FP7-IDEAS)	Investigator
2013	Magma dynamics feeding large volcanic eruptions: The case study of Campi Flegrei (Italy) (Grant #4242)	European Science Foundation - Research Networking Programme. MeMoVolc - Measuring and Modelling of Volcano Eruption Dynamic	Principal Investigator
2016-2018	Towards a quantitative understanding of magma reservoirs feeding large volcanic eruptions (Grant #165501). Principal Investigator: Prof. Olivier Bachmann, ETH-Zurich, Switzerland	Swiss National Science Foundation Grant Award	Investigator

2018-2023	Dynamics of magma reservoirs in the Earth's crust: focusing on the role of volatile elements (Grant #178928). Principal Investigator: Prof. Olivier Bachmann, ETH-Zurich, Switzerland	Swiss National Science Foundation Grant Award	Investigator
2019-2022	The 3 July 2019 paroxysm at Stromboli volcano (Italy): is Stromboli playing by new rules? (Grant #NE/T009292/1). Principal Investigator: Dr. Chiara Maria Petrone, National History Museum, London, UK	Natural Environment Research Council (NERC)	Investigator
2022-2027	The production of secondary atmospheres (Grant # MB.00022). Principal Investigator: Prof. Paolo Sossi, ETH-Zurich, Switzerland	State Secretariat for Education, Research, and Innovation (SERI)	Investigator
2023-2026	Pinpointing the volatile driver for sudden large-scale volcanic eruptions (Grant #22-UOO-177). Principal Investigator: Dr. Marco Brenna, University of Otago, New Zealand	Royal Society of New Zealand Marsden Fund Grant	Investigator
2024-2026	TURVO - From past eruptions to future hazards. An interdisciplinary volcanological investigation of central TURkish Anatolian active Volcanoes (Grant #PID2023-147255NB-I00). Principal Investigator: Xavier de Bolós Granados	Ministerio de Ciencia, Innovación, y Universidades - Proyectos de Generación de Conocimiento» y actuaciones para la formación de personal investigador predoctoral asociadas a dichos proyectos (Ministerio de Ciencia de España)	Investigator

Part VII – Research Activities

Keywords	Brief Description
Igneous Petrology	Analysis of petrological processes that control the evolution of magmas during polybaric/polythermal ascent and emplacement, fractional crystallization, assimilation of crustal lithologies, and mixing via multiple recharge events. Mineral and glass compositions are examined at the laboratory scale to calibrate equilibrium models, major and trace element partitioning models, thermobarometers, hygrometers and geospeedometers. Crystal growth kinetics are also investigated to identify the physical and chemical perturbations of magmatic reservoirs as well as to quantify the timescale of
Experimental Petrology	
Crystallization Kinetics	
Thermodynamics	
Cation partitioning	
Thermobarometry and hygrometry	
Magma modeling	

crystallization process. This research endeavour continues to benefit from numerous collaborations built over the years with Italian and international universities and research institutes, as detailed in the publications and research projects listed in the *Curriculum Vitae*.

Part VIII – Summary of Scientific Achievements

Product type	Number	Data Base	Start	End
Articles in international journals	124	Scopus source on 2 August 2025	2006	2025
Articles in international books	11	Scopus source on 2 August 2025	2009	2021
International books	1	Scopus source on 2 August 2025	2021	2021

From 2006 to 2025	
Total number of publications	135 (Scopus source on 2 August 2025)
Total Impact Factor calculated in relation to the year of publication	475.605 (WoS - JCR source on 2 August 2025)
Average Impact Factor calculated in relation to the year of publication	3.805 (WoS - JCR source on 2 August 2025)
Total number of citations	4685 (Scopus source on 2 August 2025)
Average citations per product	35 (Scopus source on 2 August 2025)
Hirsch (H) index	43 (Scopus source on 2 August 2025)
Normalized H index*	2.263 (Scopus source on 2 August 2025)
Documents in top citation percentiles (percent of documents in the top 25% most cited documents worldwide)	56.3%, 49 documents (Scopus source on 2 August 2025)
Documents in top 25% journals (percent of documents in the top 25% journals)	85.2%, 69 documents (Scopus source on 2 August 2025)

*H index divided by the academic seniority, corresponding to the year of the first paper published

From 2015 to 2025	
Total number of publications	86 (Scopus source on 2 August 2025)
Total Impact Factor calculated in relation to the year of publication	339.274 (WoS - JCR Source on 2 August 2025)
Average Impact Factor calculated in relation to the year of publication	4.241 (WoS - JCR source on 2 August 2025)
Total number of citations	1973(Scopus source on 2 August 2025)
Average citations per product	23 (Scopus source on 2 August 2025)
Hirsch (H) index	23 (Scopus source on 2 August 2025)

Part IX – Selected Publications (listed from the most recent to the oldest)

- Asterisk "*" indicates my role as the corresponding author.
- Hash "#" indicates an article from a PhD student's thesis.
- Impact factor (IF) at the time of publication (*Web of Science, WoS - Journal Citation Reports, JCR*)

- 5-years impact factor at (IF-5) the time of publication (*Web of Science, WoS - Journal Citation Reports, JCR*)
 - Journal impact factor quartile (IF-Q) at the time of publication (*Web of Science, WoS - Journal Citation Reports, JCR*)
 - Total number of citations (C-TOT) (*Scopus Source at the date 2 August 2025*)
 - Average number of citations per year (C-AVERAGE), calculated by dividing the total number of citations by the number of years the publication (*Scopus Source at the date 2 August 2025*)
1. ***Mollo S.**, Di Fiore F., MacDonald A., Ubide T., Pontesilli A., Giuliani G., Vona A., Romano C., Scarlato P., 2024. Thermodynamics and kinetics of cation partitioning between plagioclase and trachybasaltic melt in static and dynamic systems: A reassessment of the lattice strain and electrostatic energies of substitution. *Geochimica et Cosmochimica Acta*, 384, 27-43. <https://doi.org/10.1016/j.gca.2024.09.006>. **IF: 5, IF-5: 5.4, IF-Q: Q1, C-TOT: 3, C-AVERAGE: 3.**
 2. #MacDonald A., Ubide T., **Mollo S.**, 2024. Degree of sector zoning in clinopyroxene records dynamic magma recharge and ascent. *Geochimica et Cosmochimica Acta*, 378, 245-258. <https://doi.org/10.1016/j.gca.2024.06.025>. **IF: 5, IF-5: 5.4, IF-Q: Q1, C-TOT: 4, C-AVERAGE: 4. AUTHORSHIP CONTRIBUTION STATEMENT, Silvio Mollo: Writing - review & editing, Visualization, Conceptualization.**
 3. Di Fiore F., Vona A., Di Genova D., Pontesilli A., Calabrò L., **Mollo S.**, Taddeucci J., Romano C., Scarlato P., 2024. Magma titanium and iron contents dictate crystallization timescales and rheological behaviour in basaltic volcanic systems. *Communications Earth & Environment*, 5:283. <https://doi.org/10.1038/s43247-024-01452-1>. **IF: 8.9, IF-5: 9.5, IF-Q: Q1, C-TOT: 11, C-AVERAGE: 11. AUTHORSHIP CONTRIBUTION STATEMENT, Silvio Mollo: Writing - review & editing.**
 4. ***Mollo S.**, Moschini P., Ubide T., MacDonald A., Vetere F., Nazzari M., Misiti V., Miyajima M., Melai C., Di Genova D., Vona A., Di Fiore F., Romano C., 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*, 361, 40–66. <https://doi.org/10.1016/j.gca.2023.10.012>. **IF: 4.5, IF-5: 5.1, IF-Q: Q1, C-TOT: 6, C-AVERAGE: 3.**
 5. #Moschini P., **Mollo S.**, Pontesilli A., Nazzari M., Petrone C.M., Fanara S., Vona A., Gaeta M., Romano C., Scarlato P., 2023, A review of plagioclase growth rate and compositional evolution in mafic alkaline magmas: Guidelines for thermometry, hygrometry, and timescales of magma dynamics at Stromboli and Mt. Etna. *Earth-Science Reviews*, 240, 104399. <https://doi.org/10.1016/j.earscirev.2023.104399>. **IF: 10.8, IF-5: 13, IF-Q: Q1, C-TOT: 15, C-AVERAGE: 8.**
 6. Petrone C.M., **Mollo S.**, Gertisser R., Buret Y., Scarlato P., Del Bello E., Andronico D., Ellis B., Pontesilli A., De Astis G., Giacomoni P., Coltorti M., Reagan M., 2022, Magma recharge and mush rejuvenation drive paroxysmal activity at Stromboli volcano. *Nature Communications* 13, 7717. <https://doi.org/10.1038/s41467-022-35405-z>. **IF: 16.6, IF-5: 17, IF-Q: Q1, C-TOT: 35, C-AVERAGE: 12. AUTHORSHIP CONTRIBUTION STATEMENT, C.M.P conceived, coordinated, wrote, and organized the manuscript, figures and tables with contributions from S.M., R.G. and B.Y.**
 7. #MacDonald A., Ubide T., **Mollo S.**, Masotta M., Pontesilli A., 2022, Trace element partitioning in zoned clinopyroxene as a proxy for undercooling: Experimental constraints from trachybasaltic magmas. *Geochimica et Cosmochimica Acta*, 336, 249-268. <https://doi.org/10.1016/j.gca.2022.09.007>. **IF: 5, IF-5: 5.3, IF-Q: Q1, C-TOT: 15, C-AVERAGE: 5.**
 8. #Di Fiore F., **Mollo S.**, Vona A., MacDonald A., Ubide T., Nazzari M., Romano C., Scarlato P., 2021, Kinetic partitioning of major and trace cations between clinopyroxene and

- phonotephritic melt under convective stirring conditions: New insights into clinopyroxene sector zoning and concentric zoning. *Chemical Geology*, 584, 120531. <https://doi.org/10.1016/j.chemgeo.2021.120531>. **IF: 4.685, IF-5: 4.942, IF-Q: Q1, C-TOT: 28, C-AVERAGE: 7.**
9. #Lang S., **Mollo S.**, Lyderic F., Misiti V., Nazzari M., 2021, Kinetic partitioning of major-minor cations between olivine and Hawaiian tholeiitic basalt under variable undercooling and cooling rate conditions. *Chemical Geology*, 584, 120485. <https://doi.org/10.1016/j.chemgeo.2021.120485>. **IF: 4.685, IF-5: 4.942, IF-Q: Q1, C-TOT: 16, C-AVERAGE: 4.**
 10. ***Mollo S.**, Blundy J., Scarlato P., Vetere F., Holtz F., Bachmann O., Gaeta M., 2020, A review of the lattice strain and electrostatic effects on trace element partitioning between clinopyroxene and melt: Applications to magmatic systems saturated with Tschermak-rich clinopyroxenes. *Earth-Science Reviews*, 210, 103351. <https://doi.org/10.1016/j.earscirev.2020.103351>. **IF: 12.413, IF-5: 13.307, IF-Q: Q1, C-TOT: 22, C-AVERAGE: 4.**
 11. #Di Stefano F., **Mollo S.**, Ubide T., Petrone C.M., Caulfield J., Scarlato P., Nazzari M., Andronico D., Del Bello E., 2020, Mush cannibalism and disruption recorded by clinopyroxene phenocrysts at Stromboli volcano: new insights from recent 2003-2017 activity. *Lithos*, 360-361, 105440, <https://doi.org/10.1016/j.lithos.2020.105440>. **IF: 4.004, IF-5: 5.11, IF-Q: Q1, C-TOT: 53, C-AVERAGE: 11.**
 12. ***Mollo S.**, Ubide T., Di Stefano F., Nazzari M., Scarlato P., 2020, Polybaric/polythermal magma transport and trace element partitioning recorded in single crystals: A case study of a zoned clinopyroxene from Mt. Etna. *Lithos* 356-357, 105382, <https://doi.org/10.1016/j.lithos.2020.105382>. **IF: 4.004, IF-5: 5.11, IF-Q: Q1, C-TOT: 22, C-AVERAGE: 4.**
 13. Ubide T., **Mollo S.**, Zhao J.-X., Nazzari M., Scarlato P., 2019, Sector-zoned clinopyroxene as a recorder of magma history, eruption triggers, and ascent rates. *Geochimica et Cosmochimica Acta*, 251, 265-283, doi: <https://doi.org/10.1016/j.gca.2019.02.021>. **IF: 4.659, IF-5: 5.267, IF-Q: Q1, C-TOT: 160, C-AVERAGE: 27.**
 14. #Forni F., Degruyter W., Bachmann O., De Astis G., **Mollo S.**, 2018, Long-term magmatic evolution reveals the beginning of a new caldera cycle at Campi Flegrei. *Science Advances*, 4 (11), eaat9401, doi: 10.1126/sciadv.aat9401. **IF: 12.804, IF-5: 13.293, IF-Q: Q1, C-TOT: 81, C-AVERAGE: 12. AUTHORSHIP CONTRIBUTION STATEMENT, S.M. contributed to estimates the temperatures and water contents of magmas**
 15. ***Mollo S.**, Blundy J., Scarlato P., De Cristofaro S.P., Tecchiato V., Di Stefano F., Vetere F., Holtz F., Bachmann O., 2018, An integrated P-T-H₂O-lattice strain model to quantify the role of clinopyroxene fractionation on REE+Y and HFSE patterns of mafic alkaline magmas: Application to eruptions at Mt. Etna. *Earth-Science Reviews*, 185, 32-56, <https://doi.org/10.1016/j.earscirev.2018.05.014>. **IF: 9.53, IF-5: 10.64, IF-Q: Q1, C-TOT: 83, C-AVERAGE: 12.**
 16. #Forni F., Bachmann O., **Mollo S.**, De Astis G., Gelman S. E., Ellis B.S., 2016, The origin of a zoned ignimbrite: Insights into the Campanian Ignimbrite magma chamber (Campi Flegrei, Italy), *Earth and Planetary Science Letters*, 449, 259-271, doi: <http://dx.doi.org/10.1016/j.epsl.2016.06.003>. **IF: 4.409, IF-5: 4.966, IF-Q: Q1, C-TOT: 75, C-AVERAGE: 8.**

Part X – Complete List of Publications *(listed from the most recent to the oldest)*

XA - Articles on International Journal *(Scopus Source on 2 August 2025)*

- *Impact factor (IF) at the time of publication (Web of Science, WoS - Journal Citation Reports, JCR)*
- *5-years impact factor at (IF-5) the time of publication (Web of Science, WoS - Journal Citation Reports, JCR)*

- *Journal impact factor quartile (IF-Q) at the time of publication (Web of Science, WoS - Journal Citation Reports, JCR)*
- *Total number of citations (C-TOT) (Scopus Source at the date 2 August 2025)*
- *Average number of citations per year (C-AVERAGE), calculated by dividing the total number of citations by the number of years the publication (Scopus Source at the date 2 August 2025)*

1. Schiavon B., Petrone C.M., Forni F., Pontesilli A., Hu H., Scarlato P., Andronico D., Del Bello E., Nazzari M., **Mollo S.**, 2025, Multiple mush generations provide insight into the longevity of open-conduit basaltic volcanoes. *Scientific Reports*, 15, 21393, <https://doi.org/10.1038/s41598-025-07005-6>. **IF: 3.9, IF-5: 4.3, IF-Q: Q1, C-TOT: 0, C-AVERAGE: 0.**
2. Di Fiore F., Vona A., Di Genova D., Caracciolo A., Pontesilli A., Calabrò L., Giuliani G., **Mollo S.**, Bondar D., Nazzari M., Romano C., Scarlato P., 2025. Impact of cooling rate on rheology and emplacement dynamics of basaltic lavas: Insights from the January 2024 Sundhnúksíggar eruption (Iceland). *Journal of Volcanology and Geothermal Research*, 466, 108400, <https://doi.org/10.1016/j.jvolgeores.2025.108400>. **IF: 2.3, IF-5: 2.6, IF-Q: Q2, C-TOT: 0, C-AVERAGE: 0.**
3. Califano E. **Mollo S.**, Sossi P.A., Tavazzani L., Moschini P., Pontesilli A., Scarlato P., 2025. Volatilities and diffusivities of Tl, Ag, Cu, Pb, Cd, Zn, Ga, and As from a Cl-bearing shoshonitic basalt and their application to volcanic degassing. *Chemical Geology*, 693, 122947, <https://doi.org/10.1016/j.chemgeo.2025.122947>. **IF: 3.6, IF-5: 4.1, IF-Q: Q1, C-TOT: 0, C-AVERAGE: 0.**
4. Özsoy R., Sunyé-Puchol I., Bolos X., Akkaş E., Costa A., Tavazzani L., Miggins D.P., Nazzari M., Bachmann O., Scarlato P., Kaya S., **Mollo S.**, 2025. Reconstructing the volcanic history of the Ulukis ,la Caldera: A collapse structure within the Hasandag Volcanic Complex, Central Anatolia (Turkey). *Journal of Volcanology and Geothermal Research*, 463, 108345, <https://doi.org/10.1016/j.jvolgeores.2025.108345>. **IF: 2.3, IF-5: 2.6, IF-Q: Q2, C-TOT: 0, C-AVERAGE: 0.**
5. Giuliani G., Di Genova D., Di Fiore F., **Mollo S.**, Dominijanni S., Petrone C.M., Romano C., Vova A., 2025. The rheological evolution of a phonotephritic melt upon variable degrees of carbonate assimilation and deformation regimes. *Chemical Geology*, 680, 122711, <https://doi.org/10.1016/j.chemgeo.2025.122711>. **IF: 3.6, IF-5: 4.1, IF-Q: Q1, C-TOT: 1, C-AVERAGE: 1.**
6. MacDonald A., Ubide T., **Mollo S.**, Taddeucci J., 2024. Spatial and temporal mush heterogeneity during eruptions recorded in clinopyroxene from the 2021 paroxysms at Mt. Etna, Italy. *Contributions to Mineralogy and Petrology*, 179:99. <https://doi.org/10.1007/s00410-024-02174-5>. **IF: 3.7, IF-5: 4, IF-Q: Q1, C-TOT: 1, C-AVERAGE: 1.**
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120. Iezzi G., **Mollo S.**, Ventura G., Cavallo A., Romano C., 2008, Experimental solidification of anhydrous latitic and trachytic melts at different cooling rates: the role of nucleation kinetics. *Chemical Geology*, 253, 91-101, doi:10.1016/j.chemgeo.2008.04.008. **IF: 3.531, IF-5: 4.227, IF-Q: Q1, C-TOT: 74, C-AVERAGE: 4.**
121. Freda C., Gaeta M., Misiti V., **Mollo S.**, Dolfi D., Scarlato P., 2008, Magma-carbonate interaction: an experimental study on ultrapotassic rocks from Alban Hills (Central Italy). *Lithos*, 101, 397-415, doi: 10.1016/j.lithos.2007.08.008. **IF: 3.303, IF-5: 3.767, IF-Q: Q1, C-TOT: 117, C-AVERAGE: 7.**
122. Dolfi D., De Rita D., Cimarelli C., **Mollo S.**, Soligo M., Fabbri M., 2007, Dome growth rates, eruption frequency and assessment of volcanic hazard: Insights from new U/Th dating of the Panarea and Basiluzzo dome lavas and pyroclastics, Aeolian Islands, Italy. *Quaternary International*, 162-163, 182-194, doi:10.1016/j.quaint.2006.05.035. **IF: 1.468, IF-5: 1.82, IF-Q: Q3, C-TOT: 25, C-AVERAGE: 1.**
123. Giordano, G., De Benedetti A.A., Diana A., Diano G., Gaudioso F., Marasco F., Miceli M., **Mollo S.**, Cas R.A.F., Funicello R., 2006, The Colli Albani caldera (Roma, Italy): stratigraphy, structure and petrology. In RAF Cas and G. Giordano (eds), *Explosive Mafic Volcanism*, *Journal Volcanology and Geothermal Research, Spec. Vol.*, 155, 49-80, doi:10.1016/j.jvolgeores.2006.02.009. **IF: 1.685, IF-5: 1.685, IF-Q: Q2, C-TOT: 180, C-AVERAGE: 9.**

XB - Articles in International Books (Scopus Source on 2 August 2025)

124. **Mollo S.**, Di Stefano F., Forni F., 2021, Editorial for the Special Issue “Mineral Textural and Compositional Variations as a Tool for Understanding Magmatic Processes”. *Minerals*, 11:102. <https://doi.org/10.3390/min11020102>. **IF: 2.818, IF-5: 2.818, IF-Q: Q2, C-TOT: 0, C-AVERAGE: 0.**
125. Masotta M., Beier C., Mollo S., 2021, Editorial for the Geophysical Monograph Series of AGU Book Series “Crustal Magmatic System Evolution: Anatomy, Architecture, and Physico-Chemical Processes”. *AGU Advancing Earth and Space Science*, Wiley, pp. 1-239. doi:10.1002/9781119564485. **IF: not assigned, IF-5: not assigned, IF-Q: not assigned, C-TOT: 1, C-AVERAGE: 0.**
126. Brenna M., Ubide T., Nichols A.R.L., **Mollo S.**, Pontesilli A., 2021, Anatomy of Intraplate Monogenetic Alkaline Basaltic Magmatism: Clues From Magma, Crystals, and Glass, <https://doi.org/10.1002/9781119564485.ch4>, in Masotta M., Mollo S., Beier C., eds., *Crustal Magmatic System Evolution: Anatomy, Architecture, and Physico-Chemical Processes*, *Geophysical Monograph Series*, ISBN: 9781119564454, John Wiley & Sons Inc., New Jersey, USA. **IF: not assigned, IF-5: not assigned, IF-Q: not assigned, C-TOT: 14, C-AVERAGE: 4.**
127. Scarlato P., **Mollo S.**, Petrone C.M., Ubide T., Di Stefano F., 2021, Interpreting magma dynamics through a statistically refined thermometer: Implications for clinopyroxene Fe-Mg diffusion modeling and sector zoning at Stromboli, <https://doi.org/10.1002/9781119564485.ch9>, in Masotta M., Mollo S., Beier C., eds., *Crustal Magmatic System Evolution: Anatomy, Architecture, and Physico-Chemical Processes*, *Geophysical Monograph Series*, ISBN: 9781119564454, John Wiley & Sons Inc., New Jersey, USA. **IF: not assigned, IF-5: not assigned, IF-Q: not assigned, C-TOT: 6, C-AVERAGE: 2.**
128. Giuliani, L., Iezzi, G., **Mollo, S.**, 2020, Dynamics of volcanic systems: physical and chemical models applied to equilibrium versus disequilibrium solidification of magmas, p.101-132, in Vetere F. eds., *Dynamic Magma Evolution*, *Geophysical Monograph Series* 254, 206 pp., ISBN: 9781119521136, John Wiley & Sons Inc., New Jersey, USA.

<https://doi.org/10.1002/9781119521143.ch5>. **IF: not assigned, IF-5: not assigned, IF-Q: not assigned, C-TOT: 6, C-AVERAGE: 1.**

129. Eichelberger J., Kiryukhin A., **Mollo S.**, Tsuchiya N., Villeneuve M., 2020, Exploring and Modeling the Magma–Hydrothermal Regime. *Geosciences*, 10, 0234. doi:10.3390/geosciences10060234. **IF: 0.69, IF-5: 0.69, IF-Q: Q2, C-TOT: 13, C-AVERAGE: 3.**
130. **Mollo S.**, Tuccimei P., Soligo M., Galli G., Scarlato P., 2018, Advancements in understanding the radon signal in volcanic areas: A laboratory approach based on rock physico-chemical changes. In *Integrating Disaster Science and Management*. Editors: Pijush Samui, Dookie Kim, and Chandan Ghosh. Publisher: Elsevier. pp. 309-328. <https://doi.org/10.1016/B978-0-12-812056-9.00018-X>. **IF: not assigned, IF-5: not assigned, IF-Q: not assigned, C-TOT: 8, C-AVERAGE: 1.**
131. **Mollo S.**, Hammer J.E., 2017, Dynamic crystallization in magmas. In *Mineral reaction kinetics: microstructures, textures, chemical and isotopic signatures*. Edited by W. Heinrich and R. Abart. *EMU Notes in Mineralogy*, Vol. 16 (2016), Chapter 7, 1–46. Published by the European Mineralogical Union and the Mineralogical Society of Great Britain & Ireland. Doi: 10.1180/EMU-notes.16.12. **IF: not assigned, IF-5: not assigned, IF-Q: not assigned, C-TOT: 86, C-AVERAGE: 11.**
132. **Mollo S.**, Scarlato P., Freda C., Gaeta M., 2011, Basalt-crust interaction processes: insights from experimental petrology, pp. 33-61, in West, J.P., eds., *Basalt: Types, Petrology and Uses*: New York, Nova Science Publishers, pp. 189. ISBN: 9781612096353. **IF: not assigned, IF-5: not assigned, IF-Q: not assigned, C-TOT: 5, C-AVERAGE: 0.**
133. Tuccimei P., Castelluccio M., Moretti S., **Mollo S.**, Vinciguerra S., Scarlato P., 2011, Thermal enhancement of Radon emission from geological materials. Implications for laboratory experiments on rocks under increasing deformation, pp. 247-256, in Veress, B., and Szigethy J., eds., *Horizons in Earth Science Research*. Volume 4: New York, Nova Science Publishers, pp. 274, ISBN: 978-1-61122-763-5. **IF: not assigned, IF-5: not assigned, IF-Q: not assigned, C-TOT: not assigned, C-AVERAGE: not assigned.**
134. Iezzi, G., **Mollo, S.**, Ventura, G., 2009, Solidification behaviour of natural silicate melts and volcanological implications, p. 127-151, in Lewis, N., and Moretti, A., eds., *Volcanoes: Formation, Eruptions and Modelling*: New York, Nova Science Publishers, 379 pp., ISBN: 978-1-61728-597-4. **IF: not assigned, IF-5: not assigned, IF-Q: not assigned, C-TOT: 22, C-AVERAGE: 1.**

XC - International Book (Scopus Source on 2 August 2025)

1. Masotta M., Beier C., **Mollo S.**, 2021, *Geophysical Monograph Series of AGU Book Series “Crustal Magmatic System Evolution: Anatomy, Architecture, and Physico-Chemical Processes”*. AGU Advancing Earth and Space Science, Wiley, pp. 1-239. doi:10.1002/9781119564485
2. Eichelberger J., Kiryukhin A., **Mollo S.**, Tsuchiya N., Villeneuve M., 2020, Exploring and Modeling the Magma–Hydrothermal Regime. *Geosciences*, 10, 0234. doi:10.3390/geosciences10060234

Part XI – Editorial Activity *(listed from the oldest to the most recent)*

Year	Journal/Role
2016-2021	Periodico di Mineralogia – Topic Editor
2018-2021	Minerals – Guest Editor
2020	Geosciences – Guest Editor

2020-
2021

AGU Books (Wiley) – Guest Editor

Part XII – Reviewer Activity

XIIA - Reviewer for Funding Agencies

Austrian Academy of Sciences
US National Science Foundation
French National Research Agency
Natural Sciences and Engineering Research Council of Canada
Swiss National Science Foundation
German Research Foundation
Natural Environment Research Council UK
MIUR Mobility Program

XIIB - Reviewer for Scientific Journals

Frontiers in Earth Sciences
American Mineralogist
Applied Geochemistry
Bulletin of Volcanology
Chemical Geology
Contributions to Mineralogy and Petrology
Comptes Rendus Geoscience - Reviewer
Earth and Planetary Science Letters
Earth-Science Reviews
Energies
Geochemistry
Geochemistry, Geophysics, Geosystems
Geochimica et Cosmochimica Acta
Gondwana Research
Geology
Geophysical Research Letter
International Geology Review
Journal of Volcanology and Geothermal Research
Journal of Non-Crystalline Solids
Journal of Petrology
Lithos
Mineralogy and Petrology
Nature Communications
Ore Geology Review
Periodico di Mineralogia
Pure and Applied Geophysics
Radiation Measurements

Scientific Reports
Science Advances
Solid Earth
The Canadian Mineralogist
Volcanica

Part XIII – Conferences *(listed from the oldest to the most recent)*

XIIA - Organization of Conferences as Convener

Year	Conference	Contribution
2014	AGU, American Geophysical union, 9-13 December 2014, San Francisco, USA	Invited Session Convener - Session V014. Footprints of magma chamber dynamics in eruptive products.
2015	Goldschmidt Conference, 16-21 August 2015, Prague, Czech Republic	Session Convener – Session 08b. Understanding of Magma Reservoir Processes
2017	Geosciences: a tool in a changing world, 4-6 September 2017, Pisa, Italy	Session Convener – Session P32. Melts, minerals and volatiles: who controls what in magmatic and volcanic processes
2018	Goldschmidt Conference, 12-17 August 2018, Boston, USA	Session Convener – Session 04g. Magma Dynamics in Volcanic Environments: Crystallization, Mixing, and Contamination Processes
2022	EGU General Assembly, 3-8 April 2022, Vienna, Austria	Session Convener – Session GMPV8.2. Tracking magma dynamics via natural, experimental, and numerical approaches
2023	XXI INQUA Congress – International union of Quaternary Research, 14-20 July 2023, Rome, Italy	Workshop Convener. Reconstructing the Quaternary explosive volcanic history of the Anatolian Peninsula: Implications for volcanic hazard assessments in Turkey
2023	EGU General Assembly, 23-28 April 2023, Vienna, Austria	Session Convener – Session GMPV7.5. Understanding magmatic processes: from storage dynamics to eruptive behaviour

XIIB - Participation to Conferences. The asterisk "" indicates my role as speaker*

Year	Conference	Contribution
2006	EMPG Bristol 11-13 September, 11th International Conference on Experimental Mineralogy, Petrology and Geochemistry, 52	*Mollo S., Misiti, V., Dolfi, D., 2006, Elements diffusion and hybridized melt in crust-basalt interaction experiments.
2006	EGU, European Geosciences Union General Assembly, Vienna, Austria, 02–07 April, Geophysical Research Abstracts, 8, 02897	*Mollo S., Misiti, V., Dolfi, D., 2006, Preliminary crust-basalt interaction experiments at 0.8–1.0 GPa: new hybrid melts formation
2006	EGU, European Geosciences Union General Assembly, Vienna, Austria, 02–07 April, Geophysical Research Abstracts, 8, 04788	Perinelli, C., Conte, A. M., Dolfi D., Gaeta, M., Misiti, V., Mollo, S., Scarlato, P., 2006, Experimental phase relations and liquids evolution of the Roman Province ultrapotassic magmas.

2006	EMPG XI Bristol, UK, 11-13 September, 11th International Conference on Experimental Mineralogy, Petrology and Geochemistry, p.28	Freda, C., Gaeta, M., Misiti, V., Mollo, S., Dolfi, D., Scarlato P., 2006, Crystal fractionation/crustal interaction processes in ultra-potassic magmas from Alban Hills (Central Italy).
2007	Frontiers in Mineral Sciences, Fitzwilliam College and the Department of Earth Sciences, University of Cambridge, 26-28 June, Cambridge, UK.	Mollo S., Iezzi G., Ventura G., Romano C., Bellatreccia F., 2007, Dynamic cooling experiments of latite and trachyte rocks from Campi Flegrei (Naples, Italy).
2007	Frontiers in Mineral Sciences, Fitzwilliam College and the Department of Earth Sciences, University of Cambridge, 26-28 June, Cambridge, UK	Mollo S., Ventura G., Iezzi G., Romano C., Torresi G., Traini T., Behrens H., 2007, Dynamic cooling of andesites: an experimental study
2008	EMPG XII, Innsbruck, Austria, 8-10 September, 12th International Conference on Experimental Mineralogy, Petrology and Geochemistry	*Mollo S., Gaeta M., Freda C., Misiti V., Scarlato P., 2008, Constrains on carbonate assimilation: experimental versus natural compositions.
2008	EMPG XII, Innsbruck, Austria, 8-10 September, 12th International Conference on Experimental Mineralogy, Petrology and Geochemistry	*Mollo S., Vinciguerra S., Tosi P., Scarlato P., 2008, An HT deformation apparatus to monitor volcanic rock weakening induced from mechanical and thermal stress
2009	EGU, European Geosciences Union General Assembly, Vienna, Austria, 19–24 April	Tuccimei P., Vinciguerra S., Moretti S., Mollo S., Castelluccio M., Soligo M., 2009, Relating changes in radon exhalation to increasing loading in rocks. New insights from rock deformation laboratory experiments
2009	8th Euro Conference of Rock Physics & Geomechanics, 13-18 September, Ascona, Switzerland	Delle Piane C., Vinciguerra S., Mollo S., 2009, Rock physics characterisation of the sedimentary basement of Mount Etna
2009	8th Euro Conference of Rock Physics & Geomechanics, 13-18 September, Ascona, Switzerland	*Mollo S., Vinciguerra S., Iarocci A., Iezzi G., 2009, Thermal weakening at Mt. Etna: implications for the volcano instability
2009	American Geophysical union, 14-18 December, San Francisco, United States of America, pp.184	Heap M. J., Mollo S., Lavallée Y., Vinciguerra S., von Aulock F. W., Dingwell D. B., Baud P., 2009, How Does Temperature Influence the Physical and Chemical Properties of the Deep Carbonate Basement and Shallow Lava Flows at Mt. Etna Volcano?
2009	AGU, American Geophysical union, 14-18 December, San Francisco, United States of America, pp.185	Vinciguerra S., Mollo S., Iarocci A., Iezzi G., Heap M. J., 2009, Temperature induced phase transformations at Mt. Etna (Italy) volcano: implications for the mechanical weakening of the volcanic edifice under magmatic stresses

2010	EMPG XIII, April 12-14, Toulouse (France), 13th International Conference on Experimental Mineralogy, Petrology and Geochemistry	*Mollo S., Del Gaudio P., Ventura G., Iezzi G., Scarlato P., 2010, Changes in clinopyroxene chemistry induced by cooling: an experimental study
2010	EMPG XIII, April 12-14, Toulouse (France), 13th International Conference on Experimental Mineralogy, Petrology and Geochemistry	Mollo S., Iezzi G., Ventura G., Cavallo A., Scarlato P., Torresi G., 2010, Crystallization kinetics of andesitic melts
2010	EGU, European Geosciences Union General Assembly, Vienna, Austria, 02–07 May	Vinciguerra S., Del Gaudio P., Iarocci A., Mollo S., Scarlato P., Freda C., 2010, Physical properties of Campi Flegrei tuff from variable depths
2010	EGU, European Geosciences Union General Assembly, Vienna, Austria, 02–07 May	Heap M. J., Mollo S., Lavallée Y., Vinciguerra S., K-U Hessl, Dingwell D. B., Baud P., Iezzi G., 2010, How does temperature influence the physical and chemical properties of the deep carbonate basement and shallow lava flows at Mt. Etna volcano?
2010	EMPG XIII, Innsbruck, April 12-14, Toulouse (France), 13th International Conference on Experimental Mineralogy, Petrology and Geochemistry	*Mollo S., Vinciguerra S., Iezzi G., Iarocci A., Scarlato P., Heap M. J., Dingwell D. B., 2010, Variable mechanical behaviour of sedimentary rocks from Mt. Etna induced by thermo-chemical reactions: implications for seismic and geochemical monitoring and flank instability
2010	EGU, European Geosciences Union General Assembly, Vienna, Austria, 02–07 May, Geophysical Research Abstracts, 12, EGU2010-10265.	Vinciguerra, S., Del Gaudio P., Iarocci A., Mollo S., Scarlato P., Freda C., 2010, Physical properties of Campi Flegrei tuff from variable depths
2010	EGU, European Geosciences Union General Assembly, Vienna, Austria, 02–07 May, Geophysical Research Abstracts, 12, EGU2010-10146	Vinciguerra S., Mollo S., Iezzi G., Scarlato P., Heap M. J., Dingwell D. B., 2010, Thermo-chemical reactions of sedimentary rocks from Mt. Etna volcano: implications for flank instability
2010	AGU, American Geophysical union, 13-17 December, San Francisco, United States of America, pp. 1340h	Vinciguerra S., Mollo S., Tuccimei P., Heap M.J., Soligo M., Castelluccio M., Scarlato P., Dingwell D.B., 2010, Radon and thoron emission from high and low porosity rocks under increasing deformation: An experimental study
2011	EGU, European Geosciences Union General Assembly, Vienna, Austria, 03–08 April, Geophysical Research Abstracts, 12, EGU2010- 10146	Vinciguerra S., Mollo S., Tuccimei P., Heap M., Soligo M., Castelluccio M., Scarlato P., Dingwell D., 2011, Radon and thoron emission from high and low porosity rocks under increasing deformation: An experimental study

2011	EGU, European Geosciences Union General Assembly, Vienna, Austria, 03–08 April, Geophysical Research Abstracts, 12, EGU2010-10146	Vinciguerra S., Heap M., Mollo S., Lavallée Y., Hess K.U., Dingwell D., Iezzi G., and Baud P., 2011, Volcanic edifice weakening via thermal reactions
2011	EGU, European Geosciences Union General Assembly, Vienna, Austria, 03–08 April, Geophysical Research Abstracts, 13, EGU2011-2031	*Mollo S., Putirka K., Iezzi G., Del Gaudio, P. Scarlato, P., 2011, Interpreting plagioclase-melt (dis)equilibrium due to cooling dynamics: implications for thermometry, barometry and hygrometry
2011	EGU, European Geosciences Union General Assembly, Vienna, Austria, 03–08 April, Geophysical Research Abstracts, 13, EGU2011-2028	Iezzi G., Mollo S., Torresi G., Ventura G., Cavallo A., Scarlato P., 2011, Experimental solidification of an andesitic melt by cooling
2011	EGU, European Geosciences Union General Assembly, Vienna, Austria, 03–08 April, Geophysical Research Abstracts, 13, EGU2011-6467	Di Rocco T., Mollo S., Gaeta M., Freda C., Dallai L., 2011, Petrology of skarn and cumulate rocks: a record of magma-carbonate interaction phenomena
2011	9th Euroconference on Rock Physics and Geomechanics, Trondheim, Norway, 17-21 October	Vinciguerra S., Mollo S., Heap M.J., Benson P., 2011, Changes of geophysical signatures and thermo-mechanical properties of volcanic rocks: What can we learn from active volcanoes?
2011	AGU, American Geophysical union, 13-17 December, San Francisco, United States of America, pp. 1340h	Collettini C., Chiaraluce L., Scarlato P., Di Stefano G., Mollo S., Romeo G., Mariano S., Carpenter, M.B., Tesei T., Vinciguerra S., Valoroso L., 2011, The GLASS Project: High-Resolution Infrastructures to Investigate the Mechanics of Earthquakes and Faulting
2011	ICGG, International Conference on Gas Geochemistry, 29 November-2 December, San Diego, United States of America	Italiano F., Caso C., Cavallo A., Favali P., C. Fu, Iezzi G., Martelli M., Mollo S., Paltrinieri D., Paonita A., Rizzo A., Signanini P. Ventura G., 2011, Geochemical features of the gas phase extracted from sea-water and rocks of the Marsili seamount (Tyrrhenian sea, Italy): implications for geothermal exploration projects
2012	10th International Symposium on Crystallization in Glasses and Liquids, Goslar, Germany, September 23 – 26	Iezzi G., Vetere F., Misiti V., Cavallo A., Ventura G., Behrens H., Knipping J., Mollo S., 2012, Compositional variations of clinopyroxene in natural silicate melts induced by cooling rate
2012	10th International Symposium on Crystallization in Glasses and Liquids, Goslar, Germany, September 23 – 26	Vetere F., Iezzi G., Behrens H., Cavallo A., Misiti V., Dietrich M., Ventura G., Mollo S., 2012, Glass forming ability of sub-alkaline silicate melts

2012	The Geological society, Rock Deformation from Field, Experiments and Theory, London, UK, 30th and 31st May	Collettini C., Di Stefano G., Carpenter B., Mollo S., Romeo G., Scarlato P., Tesei T., Vinciguerra S., 2012, A new biaxial apparatus within a pressure vessel to test the physical properties of brittle rocks
2012	The Geological Society, Rock Deformation from Field, Experiments and Theory, London, 30th and 31st May	Trippetta F., Mollo S., Collettini C., 2012, Physical-transport properties variations within carbonate-bearing fault zones: a comparison between a natural fault and laboratory-deformed samples
2012	22nd Goldschmidt Geochemistry Conference, Montreal (Canada), 24-29 June	Gozzi F., Gaeta M., Freda C., Mollo S., Di Rocco T., Marra F., Dallai L., Pack A., 2012, Ultrapotassic lava flows from Colli Albani Volcanic District (Central Italy) give insights into the crystallization of magmatic calcite in effusive rocks
2012	22nd Goldschmidt Geochemistry Conference, Montreal (Canada), 24-29 June.	Masotta M., Mollo S., Freda C., Gaeta M., Moore G., 2012, Towards a new clinopyroxene geothermometer for alkaline, differentiated magmas
2013	Goldschmidt2013 Conference, Florence (Italy), 25-30 August.	*Mollo S., Vona A., 2013, The geochemical evolution of clinopyroxene in the Roman Province: a window on decarbonation from wall-rocks to magma
2013	Goldschmidt2013 Conference, Florence (Italy), 25-30 August.	Scarlato P., Mollo S., Blundy J., Iezzi G., Langone A., 2013, The partitioning of trace elements between clinopyroxene and trachybasaltic melt during rapid cooling
2013	Goldschmidt2013 Conference, Florence (Italy), 25-30 August.	Giuliani L., Cauti T., Iezzi G., Vetere F., Poe B.T., Cavallo A., Misiti V., Ventura G., Mollo S., Berhens H., 2013, Textural evolution of a basaltic melt a function of cooling rate.
2013	Goldschmidt2013 Conference, Florence (Italy), 25-30 August.	Misiti V., Vetere F., Iezzi G., Beherens H., Holtz F., Ventura G., Cavallo A., Dietrich M., Mollo S., 2013, Glass forming ability of sub-alkaline silicate melts
2013	Goldschmidt2013 Conference, Florence (Italy), 25-30 August.	Lanzafame G., Mollo S., Iezzi G., Ferlito C., Ventura G., 2013, Syn- to post-eruptive crystallization of phenocrysts in pahoehoe "cicirara" lavas from Mount Etna volcano (Italy)
2013	AGU, American Geophysical Union, 9-13 December, San Francisco, United States of America	Speranza G., Vinciguerra S., Di Genova D., Romano C., Vona A., Mollo S., Iarocci A., 2013, New insights on the rheological properties of a rocksalt

2013	AGU, American Geophysical Union, 9-13 December, San Francisco, United States of America	Trippetta F., Mollo S., Carpenter B.M., Collettini C., 2013, The Relationship Between Fault Zone Processes and Physical-Transport Properties: The carbonate-bearing Monte Maggio Fault (Central Italy)
2013	AGU, American Geophysical Union, 9-13 December, San Francisco, United States of America	Collettini C., Carpenter B.M., Mollo S., Tesei T., Trippetta F., Viti C., 2013, The Role of Decarbonation in Seismicity: A Study of the Mechanical Behaviour of Portlandite
2013	AGU, American Geophysical Union, 9-13 December, San Francisco, United States of America	Collettini C., Carpenter B.M., Mollo S., Viti C., 2013, Seismic vs. Aseismic Microstructural and Experimental Signature on Carbonate-bearing Faults
2013	AGU, American Geophysical Union, 9-13 December, San Francisco, United States of America	*Mollo S., Vona A., 2013, The Geochemical Evolution of Clinopyroxene in the Roman Province: A Window on Decarbonation from Wall-Rocks to Magma
2013	AGU, American Geophysical Union, 9-13 December, San Francisco, United States of America	Scarlato P., Tuccimei P., Mollo S., Soligo M., Castelluccio M., 2013, Contrasting radon background levels in volcanic settings: Clues from ²²⁰ Rn activity concentrations measured during long-term deformation experiments
2014	EGU, European Geosciences Union General Assembly, Vienna, Austria, 27 April – 02 May, Geophysical Research Abstracts, 16, EGU2014-10252	Collettini C., Carpenter B., Tesei T., Viti C., Di Stefano G., Mollo S., Scarlato P., Chiaraluce L., 2014, Mechanical heterogeneities along carbonate-bearing faults constrained from field and rock deformation experiments
2014	EGU, European Geosciences Union General Assembly, Vienna, Austria, 27 April – 02 May, Geophysical Research Abstracts, 16, EGU2014-4082	Speranza G., Vinciguerra S., Mollo S., Iarocci A., 2014, Relating facies and rheological properties of rocksalt: new insights from physical properties and microstructural observations on Messinian halite of Italian Peninsula
2014	EGU, European Geosciences Union General Assembly, Vienna, Austria, 27 April – 02 May, Geophysical Research Abstracts, 16, EGU2014-6485	Carpenter B., Collettini C., Mollo S., Viti C., 2014, Calcite Decarbonation and its Influence on the Mechanical Behaviour of Carbonate-bearing Faults
2014	SGI-SIMP Congress, Congresso della Società Geologica Italiana e della Società Italiana di Mineralogia e Petrologia, Milano, Italy, 10-12 September, GFA-SIMP-SGI-2014-13-05-2014	Vetere F., Iezzi G., Behrens H., Holtz F., Ventura G., Misiti V., Cavallo A., Mollo S., Poe B.T., 2014, Glass forming ability of sub-alkaline silicate melts

2014	SGI-SIMP Congress, Congresso della Società Geologica Italiana e della Società Italiana di Mineralogia e Petrologia, Milano, Italy, 10-12 September, MARSILI-SIMP-SGI-2014-13-05-2014	Iezzi G., Ventura G., Caso C., Vallefucio M., Cavallo A., Behrens H., Mollo S., Paltrinieri D., Signanini P., Vetere F., 2014, Deep submarine explosive eruptions at the Marsili Seamount (Tyrrhenian Sea, Italy)
2014	SGI-SIMP Congress, Congresso della Società Geologica Italiana e della Società Italiana di Mineralogia e Petrologia, Milano, Italy, 10- 12 September, MAPPE-EPMA-SIMP-SGI-2014-13-05-2014	Iezzi G., Mollo S., Shahini E., Cavallo A., Scarlato P., 2014, The cooling kinetics of plagioclase revealed by electron microprobe mapping
2014	AGU, American Geophysical Union, 15- 19 December, San Francisco, United States of America	Vetere F., Iezzi G., Behrens H., Holtz F., Ventura G., Misiti V., Mollo S., Perugini D., 2014, Glass Forming Ability of Sub-Alkaline Silicate Melts
2015	IAVCEI, International Association of Volcanology and Chemistry of the Earth's Interior, at the 26th IUGG, General Assembly of the International Union of Geodesy and Geophysics, 22 June – 2 July, Prague, Czech Republic	Giacomoni P.P., Coltorti M., Ferlito C., Mollo S., 2015, Thermobarometric constraints of clinopyroxene and plagioclase textural and chemical zoning: A tool to investigate the feeding system of Mt. Etna volcano
2015	Goldschmidt2015 Conference, Prague (Czech Republic), 16-21 August	Misiti V., Elbrecht A., Davis M., Iezzi G., Vetere F., Cavallo A., Mollo S., 2015, Glass Stability of Silicate Glasses with Sub-Alkaline Compositions
2015	Goldschmidt2015 Conference, Prague (Czech Republic), 16-21 August	Giacomoni P.P., Coltorti M., Ferlito C., Mollo S., 2015, Reconstructing the Magmatic Conditions Driving Eruptions at Mt. Etna
2015	Goldschmidt2015 Conference, Prague (Czech Republic), 16-21 August	De Cristofaro S., Perinelli C., Gaeta M., Mollo S., Palladino D., Armienti P., Scarlato P., 2015, The Control of Water on the Crystallization of Magmas at Mt. Etna Volcano (Sicily, Italy)
2015	Goldschmidt2015 Conference, Prague (Czech Republic), 16-21 August	Tecchiato V., Gaeta M., Mollo S., Perinelli C., Scarlato P., 2015, High Porphyritic Calcalkaline Basalts from the Cenozoic Capo Marargiu Volcanic District (Sardinia, Italy)
2016	EGU, European Geosciences Union General Assembly, Vienna, Austria, 17-22 April, Geophysical Research Abstracts, EGU2016-13456	Forni F., Bachmann O., Mollo S., Gelman S., Ellis B.S., De Astis G., 2016, The origin of a zoned ignimbrite: insights into the Campanian Ignimbrite magma chamber (Campi Flegrei, Italy)
2015	35th International Geological Congress, Cape Town, South Africa, 27 August - 4 September 2016	Tecchiato V., Gaeta M., Mollo S., Scarlato P., 2016, Petrological constraints on the coarse-grained, high-Mg basaltic enclaves of Capo Marargiu (Sardinia, Italy)

2016	Goldschmidt2016 Conference, Yokohama (Japan), 26 June - 1 July	Di Piazza A., Del Bello E., Mollo S., Alvarado G. E., 2016, Chemical and textural characterization of cannonballs from Cerro Chopo volcano (Costa Rica): a preliminary approach to their origin
2016	Goldschmidt2016 Conference, Yokohama (Japan), 26 June - 1 July	Forni F., Bachmann O., Mollo S., De Astis G., 2016, Long-term magmatic evolution at the Campi Flegrei caldera (southern Italy)
2016	Goldschmidt2016 Conference, Yokohama (Japan), 26 June - 1 July	Tecchiato V., Gaeta M., Mollo S., Scarlato P., 2016, The coarse-grained, high-Mg basaltic enclaves of Capo Marargiu (Sardinia, Italy): constraints on the differentiation of arc magmas
2016	Goldschmidt2016 Conference, Yokohama (Japan), 26 June - 1 July	Masotta M., Scarlato P., Nazzari M., Mollo S., 2016, Solidification of rhyolitic magmas beneath the Krafla caldera
2016	Second European Mineralogical Conference, Rimini (Italy), 11-15 September	Stagno V., Ziberna L., Andreozzi G., Lenaz D., Lustrino M., Mollo S., Scarlato P., 2016, The $\text{Fe}^{3+}/\Sigma\text{Fe}^{\text{tot}}$ of spinel in equilibrium with graphite and carbonate either solid or melt: implications for the oxythermobarometry of natural diamantiferous spinel harzburgites
2016	Second European Mineralogical Conference, Rimini (Italy), 11-15 September	Mandolini T., Ridolfi F., Mollo S., Renzulli A., Perugini D., 2016, Experimental results on the assimilation of anhydritic rocks by a trachybasaltic magma
2016	Cities on Volcanoes 9, IAVCEI - International Association of Volcanology and Chemistry of the Earth's Interior, Puerto Varas (Chile), 20-25 November.	Scarlato P., Mollo S., Del Bello E., von Quadt A., Brown R., Gutierrez E., Martinez-Hackert B., Papale P., 2016, The 2013 eruption of Chaparrastique (San Miguel) volcano, El Salvador: effects of magma storage, mixing, and decompression
2017	EGU, European Geosciences Union General Assembly, Vienna, Austria, 23-28 April, Geophysical Research Abstracts, EGU2017-7469	Lanzafame G., Iezzi G., Mancini L., Lezzi F., Mollo S., Ferlito C., 2017, 2D and 3D analyses of bubbles and minerals in an Etnean dyke: Insights on turbulence (non-laminar) and solidification during magma ascent
2017	EGU, European Geosciences Union General Assembly, Vienna, Austria, 23-28 April, Geophysical Research Abstracts, EGU2017-8846	Forni F., Bachmann O., De Astis G., Mollo S., 2017, Long-term magmatic evolution at the Campi Flegrei caldera (Southern Italy)
2017	EGU, European Geosciences Union General Assembly, Vienna, Austria, 23-28 April, Geophysical Research Abstracts, EGU2017-14551	Giacomoni P.P., Coltorti M., Mollo S., Ferlito C., Braiato M., Scarlato P., 2017, Petrological study of the products of 2011-2012 paroxysmal eruptions: new insight of the intensive variables of the Mt. Etna magmatic system
2017	12th International Symposium on Crystallization in Glasses and Liquids, Segovia, Spain, 10-13 September, 2017	Giuliani L., Vetere F., Iezzi G., Misiti V., Nazzari M., Mollo S., Ventura G., Behrens H., Cavallo A., 2017, GFA of natural silicate melts: a general reappraisal

2017	12th International Symposium on Crystallization in Glasses and Liquids, Segovia, Spain, 10-13 September, 2017	Giuliani L., Vetere F., Iezzi G., Nazzari M., Mollo S., Misiti V., Ventura G., Cavallo A., Behrens A., 2017, Chemical variations induced by crystallization kinetics in natural silicate melts
2017	Geosciences: a tool in a changing world, 3-6 September, 2017	Giuliani L., Vetere F., Iezzi G., Nazzari M., Mollo S., Misiti V., Ventura G., Cavallo A., Behrens A., 2017, Chemical variation of crystal phases grown from a basaltic melt cooled at variable rates
2017	Geosciences: a tool in a changing world, 3-6 September, 2017	Giuliani L., Vetere F., Iezzi G., Nazzari M., Mollo S., Misiti V., Ventura G., Cavallo A., Behrens A., 2017, Textural evolution of plagioclase (plg), clinopyroxene (cpx) and spinel (sp) from a basaltic melt as a function of cooling rate
2017	IAVCEI 2017, Portland, Oregon, U.S.A, from the 14th to 18th of August	Forni F., Degruyter W., Bachmann O., De Astis G., Mollo S., 2017, Long-term magmatic evolution at the Campi Flegrei caldera (Southern Italy)
2018	EGU, European Geosciences Union General Assembly, Vienna, Austria, 8-13 April, Geophysical Research Abstracts, EGU2018-17845	Deegan F.M., Bédard J.H., Troll V.R., Dewing K., Grasby S., Sanei H., Harris C., Yakimchuk C., Sheih S., Freda C., Misiti V., Mollo S., Geiger H., Evenchick C.A., 2018, The Stiff Upper LIP: investigating the thermal impact of basaltic sills on sedimentary host rocks in the High Arctic Large Igneous Province
2018	EGU, European Geosciences Union General Assembly, Vienna, Austria, 8-13 April, Geophysical Research Abstracts, EGU2018-10620	Pontesilli A., Brenna M., Palin M., Mollo S., 2018, Amphibole thermobarometry of trachyte/syenite bodies in the Dunedin Volcano: implications for the plumbing system evolution
2018	EGU, European Geosciences Union General Assembly, Vienna, Austria, 8-13 April, Geophysical Research Abstracts, EGU2018-10585	Pontesilli A., Masotta M., Nazzari M., Mollo S., Scarlato P., Brenna M., 2018, Crystallization kinetics of clinopyroxene and titanomagnetite growing from a trachybasaltic melt: New insights from isothermal time-series experiments
2018	EGU, European Geosciences Union General Assembly, Vienna, Austria, 8-13 April, Geophysical Research Abstracts, EGU2018-14946	Lanzafame G., Iezzi G., Ventura G., Mancini L., Tamburrino S., Mollo S., Signanini P., 2018, Proximal and distal deep submarine tephra deposits: the Marsilian-like eruptions
2018	Geosciences for the environment, natural hazard and cultural heritage, Catania, Italia, 12-14 September, Società Geologica Italiana (SGI) e Società Italiana di Mineralogia e Petrologia (SIMP)	Masotta M., Pontesilli A., Mollo S., Armienti P., Scarlato P., 2018. Extremely fast magma dynamics at Mt. Etna revealed by clinopyroxene growth

2018	Geosciences for the environment, natural hazard and cultural heritage, Catania, Italia, 12-14 September, Società Geologica Italiana (SGI) e Società Italiana di Mineralogia e Petrologia (SIMP)	Iezzi G., Giuliani L., Vetere F., Nazzari M., Mollo S., Cavallo A., Misiti V., Ventura G., Behrens H., 2018. Solidification of silicate melts: an experimental perspective
2018	Geosciences for the environment, natural hazard and cultural heritage, Catania, Italia, 12-14 September, Società Geologica Italiana (SGI) e Società Italiana di Mineralogia e Petrologia (SIMP)	De Cristofaro S.P., Polo L., Giordano D., Janasi V., Masotta M., Mollo S., 2018, Preliminary experimental petrology investigation of Caxias do Sul magmas of the Paraná- Etendeka Magmatic Province
2018	Geosciences for the environment, natural hazard and cultural heritage, Catania, Italia, 12-14 September, Società Geologica Italiana (SGI) e Società Italiana di Mineralogia e Petrologia (SIMP)	Lanzafame G., Iezzi G., Ventura G., Mancini L., Tamburrino S., Behrens H., Mollo S., Signanini P., 2018, Marsilian explosive phenomena investigated by analysis of proximal and distal deposits
2018	Geosciences for the environment, natural hazard and cultural heritage, Catania, Italia, 12-14 September, Società Geologica Italiana (SGI) e Società Italiana di Mineralogia e Petrologia (SIMP)	Giuliani L., Iezzi G., Vetere F., Nazzari M., Mollo S., Misiti V., Ventura G., 2018, Effects of variable cooling rates on crystal-chemistry of solidified phases from a basaltic melt
2018	Geosciences for the environment, natural hazard and cultural heritage, Catania, Italia, 12-14 September, Società Geologica Italiana (SGI) e Società Italiana di Mineralogia e Petrologia (SIMP)	Tecchiato V., Gaeta M., Mollo S., Perinelli C., Bachmann O., Scarlato P., 2018, Plagioclase records variable-H ₂ O contents in basaltic to andesitic magmas from Capo Marargiu Volcanic District (Sardinia, Italy)
2018	Goldschmidt2018 Conference, Boston, USA, 12-17 August	Scarlato P., Mollo S., Tuccimei P., Galli G., Iezzi G., Soligo M., 2018, Enhanced radon emissions from volcanic rocks exposed to high-temperature conditions: Implications for the geochemical survey and public health in densely populated volcanic areas
2018	Goldschmidt2018 Conference, Boston, USA, 12-17 August	Nazzari M., Di Stefano F., Mollo S., Scarlato P., Tecchiato V., Ellis B., Bachmann O., Ferlito C., 2018, Modeling the Crystallization and Emplacement Conditions of a Basaltic Trachyandesitic Sill at Mt. Etna Volcano
2018	Goldschmidt2018 Conference, Boston, USA, 12-17 August	Masotta M., Pontesilli A., Armienti P., Mollo S., Nazzari M., Scarlato P., 2018, Very fast magma dynamics at Mt. Etna revealed by clinopyroxene growth rates

2018	Goldschmidt2018 Conference, Boston, USA, 12-17 August	Di Stefano F., Mollo S., Scarlato P., Nazzari M., Bachmann O., Caruso M., 2018, Olivine compositional changes in primitive skarn environments: A reassessment of divalent cation partitioning models to quantify the effect of carbonate assimilation
2018	Cities on Volcanoes 10, Naples, Italy, 2-7 September	Forni F., De Astis G., Bachmann O., Petricca E., Piochi M., Mollo S., 2018, The role of magma evolutionary processes and cumulate melting in the Campanian Ignimbrite and Neapolitan Yellow Tuff caldera-forming eruptions (Campi Flegrei, Southern Italy)
2018	Cities on Volcanoes 10, Naples, Italy, 2-7 September	Brenna M., Mollo S., Masotta M., Pontesilli A., Cronin S., 2018, How to make phonolites? An experimental approach
2018	Cities on Volcanoes 10, Naples, Italy, 2-7 September	Forni F., Degruyter W., Bachmann O., De Astis G., Mollo S., 2018, Insights into caldera cycles at Campi Flegrei by combining eruptive history, petrology, and numerical modelling
2018	Cities on Volcanoes 10, Naples, Italy, 2-7 September	Nazzari M., Di Stefano F., Mollo S., Scarlato P., Tecchiato V., Ellis B., Bachmann O., Ferlito C., 2018, Modeling the crystallization and emplacement conditions of a basaltic trachyandesitic sill at Mt. Etna volcano
2018	Cities on Volcanoes 10, Naples, Italy, 2-7 September	Di Stefano F., Mollo S., Scarlato P., Nazzari M., Bachmann O., Caruso M., 2018, Olivine compositional changes in primitive skarn environments: A reassessment of divalent cation partitioning models to quantify the effect of carbonate assimilation
2018	Cities on Volcanoes 10, Naples, Italy, 2-7 September	Ubide T., Mollo S., Blundy J.B., Zhao J.X., Nazzari M., Scarlato P., 2018, Clinopyroxene sector zoning revisited: magma mixing vs. kinetic effects
2018	The 54th annual conference of the Volcanic and Magmatic Studies Group, January 3-5, 2018, University of Leeds	Ubide T., Mollo S., Zhao J.-X., Nazzari M., Scarlato P., 2018, Sector zoned clinopyroxene records magma mixing and ascent
2019	EGU, European Geosciences Union General Assembly, Vienna, Austria, 7-12 April, Geophysical Research Abstracts, EGU2019-11	Nazzari M., Di Stefano F., Mollo S., Scarlato P., Tecchiato V., Ellis B., Bachmann O., Ferlito C., 2019, Modeling the crystallization and emplacement conditions of a basaltic trachyandesitic sill at Mt. Etna volcano
2019	EGU, European Geosciences Union General Assembly, Vienna, Austria, 7-12 April, Geophysical Research Abstracts, EGU2019-4499	Di Stefano F., Scarlato P., Mollo S., Petrone C., Ubide T., Nazzari M., Andronico D., 2019, Major and trace element maps of zoned clinopyroxenes at Stromboli: New clues on complex magma dynamics during 2003-2017 eruptions

2019	Goldschmidt2019 Conference, Barcelona, Spain, 18-23 August	Di Stefano F., Scarlato P., Mollo S., Petrone C.M., Ubide T., Nazzari M., Andronico D., 2019, Major and Trace Element Maps of Zoned Clinopyroxenes at Stromboli: New Clues on Complex Magma Dynamics during 2003-2017 Eruptions
2019	Goldschmidt2019 Conference, Barcelona, Spain, 18-23 August	Di Stefano F., Mollo S., Blundy J., Scarlato P., Nazzari M., Bachmann O., 2019, The Effect of CaO on the Partitioning Behavior of REE, Y and Sc between Olivine and Melt: Implications for Basalt-Carbonate Interaction Processes
2019	SIMP-SGI-SOGEI Conference, Parma, Italy, 16-19 September	Di Fiore F., Vona A., Romano C., Sulpizio R., Mollo S., 2019, The role of undercooling and strain rate on the syn-eruptive rheological evolution of the magma feeding the Pollena eruption of Somma-Vesuvius (Campania; Italy)
2019	SIMP-SGI-SOGEI Conference, Parma, Italy, 16-19 September	Giuliani L., Iezzi G., Casarin A., Piattelli V., Lanzafame G., Nazzari M., Ferlito C., Mollo S., Scarlato P., Trabucco F., Colò M., 2019, Textural variations along a vertical section of a distal portion of an Etnean lava flow
2019	SIMP-SGI-SOGEI Conference, Parma, Italy, 16-19 September	Giuliani L., Iezzi G., Davis M., Hippeli T., Vetere F., Elbrecht A.L., Nazzari M., Mollo S., Scarlato P., 2019, Onset of crystallization in a cooling MORB: an in-situ DSC investigation
2020	Volcanic and Magmatic Studies Group Conference 2020, Plymouth, UK, 6-9 January	Di Stefano F., Scarlato P., Mollo S., Petrone C.M., Ubide T., Nazzari M., Andronico D., 2020. Mush cannibalism and disruption recorded by clinopyroxene phenocrysts at Stromboli volcano: new insights from recent 2003-2017 activity
2020	Volcanic and Magmatic Studies Group Conference 2020, Plymouth, UK, 6-9 January	Di Stefano F., Mollo S., Blundy J., Scarlato P., Nazzari M., Bachmann O., 2020, The effect of CaO on the partitioning behavior of REE, Y and Sc between olivine and melt: Implications for basalt-carbonate interaction processes
2020	Volcanic and Magmatic Studies Group Conference 2020, Plymouth, UK, 6-9 January	Palummo F., Mollo S., De Astis G., Di Stefano F., Nazzari M., Scarlato P., 2020, Reconstruction of the intensive variables and magmatic architecture of Vulcano island (Aeolian Arc, Italy)
2020	13th International Symposium on Crystallization in Glasses and Liquids, 16-18 September 2020, Paris, France	Giuliani L., Iezzi G., Hippeli T., Davis M., Elbrecht A., Vetere F., Nazzari M., Mollo S., 2020, The onset and solidification path of a MORB by in-situ (DSC) and ex-situ investigations

2020	EGU, European Geosciences Union General Assembly, Online, 4-8 April, Geophysical Research Abstracts, EGU2020-19696	Lang S., Mollo S., France F., Nazzari M., Misiti V., Gurenko A.A., Devidal J.-L., 2020, Kinetic aspects of major and trace elements in olivines from variably cooled basaltic melts
2020	A. Rittmann Conference, Catania, 12-14 February	Di Fiore F., Vona A., Mollo S., Romano C., 2020, Rheological evolution of lava flows: effects of cooling and deformation history on crystallization efficiency and viscous-to-brittle transition
2020	EGU, European Geosciences Union General Assembly, Online, 4-8 April, Geophysical Research Abstracts, EGU2020-18109	Petrone C.M., Di Stefano F., Gertisser, R., Mollo S., Tommasini S., Del Bello E., Andronico D., Scarlato P., Giacomoni P.P., Coltorti M., 2020, Significant changes in the magma dynamics of Stromboli steady-state volcano recorded by clinopyroxene crystals
2020	Goldschmidt2020 Conference, Virtual 2020, 21-26 June	Pontesilli A., Brenna M., Ubide T., Mollo S., Masotta M., Caulfield J., Le Roux P., Nazzari M., Scarlato P., 2020, Basalt Alkalinity Modulated by a Lithospheric "Filter": Thermobarometry of a Complex Plumbing System beneath the Dunedin Volcano
2020	Goldschmidt2020 Conference, Virtual 2020, 21-26 June	MacDonald A., Ubide T., Masotta M., Mollo S., Pontesilli A., 2020, The Role of Undercooling on Trace Element Partitioning in Sector-Zoned Clinopyroxene
2020	Goldschmidt2020 Conference, Virtual 2020, 21-26 June	Petrone C.M., Di Stefano F., Mollo S., Gertisser R., Del Bello E., Andronico D., Scarlato P., 2020, The 2019 Paroxysms at Stromboli Volcano (Italy): Timescales of Eruption triggering
2021	Goldschmidt2021 Conference, Lyon, 4-9 July	MacDonald A., Ubide T., Masotta M., Mollo S., Pontesilli A., Magee R., Zhao J.-X., 2021, Tracking Thermal Pathways of Magma Ascent and Eruption Using Trace Element Partitioning in Sector Zoned Clinopyroxene
2021	Goldschmidt2021 Conference, Lyon, 4-9 July	30. MacDonald A., Ubide T., Masotta M., Mollo S., Pontesilli A., Magee R., Zhao J.-X., 2021, Tracking Thermal Pathways of Magma Ascent and Eruption Using Trace Element Partitioning in Sector Zoned Clinopyroxene
2021	Goldschmidt2021 Conference, Lyon, 4-9 July	Petrone C.M., Mollo S., Del Bello E., Scarlato P., Andronico D., Gertisser R., 2021, Where has the mush gone? A tale of a rejuvenated system
2022	Goldschmidt2022 Conference, Hawaii, 10-15 July	MacDonald A., Ubide T., Mollo S., Taddeucci J., Magmatic Pathways Feeding the 2021 Paroxysmal Events at Mt Etna: A Mineral Perspective

2022	Goldschmidt2022 Conference, Hawaii, 10-15 July	Petrone C.M., Mollo S., Gertisser R., Buret Y., Scarlato P., Del Bello E., Andronico D., Ellis B.S., Pontesilli A., De Astis G., Giacomoni P.P., Coltorti M., 2022, Magma-mush dynamics control paroxysmal eruptions at basaltic volcanoes: the summer 2019 eruptions at Stromboli volcano (Italy)
2022	Cities on Volcanoes, 12-17 June	Pontesilli A., Del Bello E., Andronico D., Taddeucci J., Mollo S., Scarlato P., 2022, Combining quantitative imaging of volcanic eruptions with pyroclasts microtextures to understand short-term variations in eruptive parameters: the May 2019 explosive activity of Stromboli Volcano (Italy)
2022	EGU, European Geosciences Union General Assembly, 23-27 May, Geophysical Research Abstracts, EGU22-5786	Costa S., Colle F., Masotta M., Mollo S., Landi P., Pontesilli A., Peres S., Griffiths T., Mancini, L., 2022, Kinetic crystallization of a high-K basalt melt undercooled in laboratory: Implications for modeling open conduit dynamics at Stromboli volcano
2022	EGU, European Geosciences Union General Assembly, 23-27 May, Geophysical Research Abstracts, EGU22-4243	Moschini P., Mollo S., Pontesilli A., Gaeta M., Nazzari M., Scarlato P., 2022, Modeling clinopyroxene and plagioclase growth kinetics at Mt. Etna and Stromboli
2022	5° Conferenza A. Rittmann, Catania, Italy, 29 settembre – 1 ottobre 2022	Di Fiore F., Vona A., Costa A., Mollo S., Romano C., 2022, Quantifying the Influence of Cooling Rate and Shear Rate on the Disequilibrium Rheology of a Basaltic Melt from Mt. Etna (Italy)
2022	5° Conferenza A. Rittmann, Catania, Italy, 29 settembre – 1 ottobre 2022	Colle F., Costa S., Masotta M., Mollo S., Landi P., Pontesilli A., Peres S., Griffiths T., Mancini, L., 2022, Kinetic crystallization of a high-K basalt melt undercooled in laboratory: Implications for the modeling of open-conduit dynamics at Stromboli (Aeolian Islands, Italy)
2022	5° Conferenza A. Rittmann, Catania, Italy, 29 settembre – 1 ottobre 2022	Petrone C.M., Mollo S., Gertisser R., Buret Y., Scarlato P., Del Bello E., Andronico D., Ellis B.S., Pontesilli A., De Astis G., 2022, Petrone C.M., Mollo S., Gertisser R., Buret Y., Scarlato P., Del Bello E., Andronico D., Ellis B.S., Pontesilli A., De Astis G., Giacomoni P.P., Coltorti M., 2022, Magma-mush dynamics control paroxysmal eruptions at basaltic volcanoes: the summer 2019 eruptions at Stromboli volcano (Italy)

2023	XXI INQUA Congress 2023, 13-20 July 2023	Ozsoy R., Puchol I.S., Aydar E., Pedrazzi D., Akkas E., Mollo S., 2023, Volcanic reconstruction of the Belbaşhanı Pumice eruption: a late Quaternary fallout deposit emitted in the Central Anatolian Volcanic Province (CAVP), Turkey
2023	XXI INQUA Congress 2023, 13-20 July 2023	Kaya S., Puchol I.S., Ozsoy R., Aydar E., Nazzari M., Mollo S., 2023, Characterization of three large holocene pyroclastic deposits from Mt Erciyes Stratovolcano (Central Anatolia, Turkey): Karagüllü, Perikartın and Dikkartın
2023	EGU, European Geosciences Union General Assembly, 23-28 April, Wien, Geophysical Research Abstracts, EGU23-4205	Petrone C.M., Mollo S., Gertisser R., Buret Y., Scarlato P., Del Bello E., Andronico D., Ellis B.S., Pontesilli A., De Astis G., 2022, Petrone C.M., Mollo S., Gertisser R., Buret Y., Scarlato P., Del Bello E., Andronico D., Ellis B.S., Pontesilli A., De Astis G., Giacomoni P.P., Coltorti M., 2022, Evolution of Stromboli basaltic plumbing system via magma recharge and mush rejuvenation
2023	EGU, European Geosciences Union General Assembly, 23-28 April, Wien, Geophysical Research Abstracts, EGU23-4205	Bini G., Chiodini G., Caliro S., Tassi F., Vaselli O., Rizzo A., Mollo S., Vougioukalakis G., Bachmann O., 2023, Tracking episodes of outgassing from upper crustal magma reservoirs through fumarole gas chemistry: the case of the Nisyros caldera (Aegean Arc, Greece)
2023	EGU, European Geosciences Union General Assembly, 23-28 April, Wien, Geophysical Research Abstracts, EGU23-2373	Schiavon B., Mollo S., Pontesilli A., Del Bello E., Scarlato P., Forni F., Petrone C.M., Nazzari M., Tiepolo M., 2023, Plagioclase textural and compositional parameterization: A tool for tracking magma dynamics at Stromboli
2023	Congresso Congiunto SIMP, SGI, AIV, SOGEI, 19-21 September, Potenza, Italy	Schiavon B., Mollo S., Pontesilli A., Del Bello E., Scarlato P., Forni F., Petrone C., Nazzari M., Tiepolo M., 2023, Plagioclase textural and compositional parameterization: A tool for tracking magma dynamics at Stromboli
2023	EGU, European Geosciences Union General Assembly, 23-28 April, Wien, Geophysical Research Abstracts, EGU23-5174	Giuliani G., Di Fiore F., Valdivia P., Mollo S., Romano C., Di Genova D., Vona A., 2023, The effect of CaO and CaO+MgO on the viscosity of a phonotephritic melt
2023	AGU, American Geophysical Union, 11-15 December, San Francisco, United States of America	Schiavon B., Mollo S., Pontesilli A., Del Bello E., Scarlato P., Forni F., Petrone C.M., Nazzari M., Tiepolo M., 2023, Magma-mush dynamics driving violent explosions at Stromboli: Insights from plagioclase growth kinetics and zoning patterns

2023	75th Geologic Conference of Turkey, April 10-14, 2023, Ankara (Turkey)	Özsoy R., Sunyé-Puchol I., Aydar E., Pedrazzi D., Akkas E., Mollo S., 2023, Characterization of Belbashani Pumice in Central Anatolian Volcanic Province (CAVP), Turkey
2023	XXI – INQUA_2023, Sapienza University of Rome (Italy), July 14-20, Rome, Italy.	Özsoy R., Sunyé-Puchol I., Aydar E., Pedrazzi D., Akkas E., Mollo S., 2023, Volcanic reconstruction of the Belbaşhanı Pumice eruption: a late Quaternary fallout deposit emitted in the Central Anatolian Volcanic Province (CAVP), Turkey
2023	XXI – INQUA_2023, Sapienza University of Rome (Italy), July 14-20, Rome, Italy.	Kaya S., Özsoy R., Sunyé-Puchol I., Aydar E., Nazzari M., Mollo S., 2023, Characterization of three large holocene pyroclastic deposits from Mt Erciyes Stratovolcano (Central Anatolia, Turkey): Karagüllü, Perikartın and Dikkartın
2023	XXI – INQUA_2023, Sapienza University of Rome (Italy), July 14-20, Rome, Italy	Sunyé-Puchol I., Özsoy R., Aydar E., Miggins D., Bolós X., Mollo, S., 2023, Reassessing the volcanic hazards in the Central Anatolian Volcanic Province (CAVP), Turkey: Could a new tuff cone eruption trigger a third collapse in Acigöl caldera and produce a large ignimbrite forming eruption?
2023	SIMP-SGI-SoGeI-AIV Geoscienze conference, September 19-21, Potenza, Italy	Kaya S., Özsoy R., Sunyé-Puchol I., Aydar E., Nazzari M., Mollo S., 2023, Reconstructing the Holocene volcanic history of Erciyes stratovolcano, Central Anatolia (Turkey): the Karagüllü, Perikartın and Dikkartın explosive eruptions
2023	SIMP-SGI-SoGeI-AIV Geoscienze conference, September 19-21, Potenza, Italy	Özsoy R., Sunyé-Puchol I., Pedrazzi D., Miggins D., Aydar E., Akkaş E., Tavazzani L., Mollo S., 2023, Reconstructing the recent eruptive history of Hasandağ volcano by tephrostratigraphic correlations along the Belbaşhanı Valley, Central Anatolia (Turkey)
2024	EGU, European Geosciences Union General Assembly, 23-28 April, Wien, Geophysical Research Abstracts, EGU24-659	Özsoy R., Sunye-Puchol I., Pedrazzi D., Akkas E., Costa A., Aydar E., Tavazzani L., Massaro S., Nazzari M., Miggins D. P., Kaya S., Mollo S., 2024, New insights into the Belbaşhanı Pumice Plinian eruption: tephrostratigraphy, eruptive history and implications for volcanic hazards posed by Hasandağ (Central Anatolia)
2024	EGU, European Geosciences Union General Assembly, 23-28 April, Wien, Geophysical Research Abstracts, EGU24-550	Sunye Puchol I., Bolos X., Ozsoy R., Akkas E., Aydar E., Tavazzani L., Nazarrı M., Mollo S., 2024, Assessing the potential of a new widespread ignimbrite-forming eruption in Cappadocia, Central Anatolia

2024	EGU, European Geosciences Union General Assembly, 23-28 April, Wien, Geophysical Research Abstracts, EGU24-459	Giuliani G., Di Fiore F., Mollo S., Romano C., Di Genova D., Vona A., 2024, The influence of carbonate assimilation and deformation regime on the multiphase rheology of a phonotephritic melt from Vesuvius
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2025	IAVCEI, International Association of Volcanology and Chemistry of the Earth's Interior, June 29 - July 4	Arzilli F., Polacci M., La Spina G., Di Genova D., Bamber E. C., Brooker R. A., Torres-Orozco R., Bonechi B., Mollo S., Llewellyn E. W., Neave D. A., Hartley M. E., Le Gall N., Atwood R., Lee P. D., Burton M. R., 2025, 4D crystallization and dissolution kinetics in hydrous basaltic magmas: implications for dynamics of volcanic processes
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2025	Goldschmidt2025 Conference, Prague, Czech Republic, 6-11 July	Akkaş E., Sunyé-Puchol I., Bolós X., Uslular G., Özsoy R., Mollo S., 2025, Machine Learning Model to Predict Cryptotephra Layers in the Black Sea Core Using Glass Geochemistry of Central Anatolian Volcanic Province Eruption
2025	Congresso congiunto SIMP-SGI, Padova, Italy, 16-18 September	*Mollo S., Crystallization dynamics in magmas recorded by clinopyroxene: a multifaceted perspective. <i>Invited keynote</i>
2025	Congresso congiunto SIMP-SGI, Padova, Italy, 16-18 September	Moschini P., Masotta M., Mollo S., Titanomagnetite growth kinetics as a proxy for major and trace cation substitution reactions

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Signature Silvio Mollo

Il presente documento è redatto in conformità a quanto prescritto dall'Art.4 del Codice in materia di protezione dei dati personali e dell'art. 26 del D.Lgs. 14 Marzo 2013, n.33, al fine della pubblicazione.