

## **Curriculum vitae of Riccardo Tribuzio (June 2023)**

### **Personal details**

Date and place of birth: December 16, 1962 in Genova (Italy)

Nationality: Italian

Affiliation: Department of Earth and Environmental Sciences, University of Pavia (Italy)

Email: riccardo.tribuzio@unipv.it

### **Education**

1992: Ph.D. in Mineralogy and Crystallography at University of Pavia

1987: Graduated *cum laude* in Geological Sciences at University of Genova

### **Academic positions**

Since 2011: Full Professor in Petrology, University of Pavia

2000-2010: Associate Professor in Petrology, University of Pavia

1992-2000: Permanent Research position in Petrology, University of Pavia

### **Research focus: petrogenesis of magmatic, metamorphic and mantle rocks**

Multidisciplinary methodological approach, which may comprise field and petrographic studies, major and trace element microanalyses, radiogenic and stable isotope analyses, and geochronological determinations. The major recent interests are:

- Origin and evolution of the gabbroic and mantle sections from the Alpine Jurassic ophiolites
- Magmatic to hydrothermal evolution of lower oceanic crust from Atlantis Bank (Southwest Indian Ridge)
- Genesis of post-collisional mafic-ultramafic intrusive sequences of Permian age exposed along the Alpine belt
- The arc-related mafic-ultramafic intrusive sequences of Cambrian age from northern Victoria Land (Antarctica)

### **Applied environmental research: major interests**

- CO<sub>2</sub> storage in mafic-ultramafic rocks
- Distribution of sulfides and their role in concentrating the chalcophile metals and the platinum group elements
- Distribution and quantitative evaluation of asbestos fibers in ophiolites

### **Major institutional activity at University of Pavia**

Since 2022: Coordinator of the PhD program in Earth and Environmental Sciences

2013-2019: Coordinator of the bachelor's and master's degree courses in Earth Sciences

2006-2011: Deputy Director of the Department of Earth Sciences

### **National and international institutional activity**

Since 2019: Member of the national committee devoted to the Italian participation in the International Ocean Discovery Program (IODP) and the International Continental Scientific Drilling Program (ICDP)

Since 2019: Coordinator of the Italian "Working group on Mediterranean ophiolites"

2020-2021: Italian delegate at ECORD (European Consortium for Ocean Research Drilling) Science Support and Advisory Committee

2014-2017: Member of the ABYSS Scientific Advisory Board, an Initial Training Network on reactive geological systems from the mantle to the abyssal sub-seafloor funded by the European Commission

### **Invited talks and lectures**

2023: Keynote speaker in the session “Oceanic lithosphere: rocks, minerals, and critical resources” of the 9<sup>th</sup> meeting of the Mineralogical Society of Poland (Bielawa, Poland)

2015: Lecturer at the summer school “Ocean crust processes: magma, faults, fluxes and life” (Bremen, Germany)

2011: Keynote speaker in the session “Magmatic processes in the lower oceanic crust” of the American Geophysical Union - Fall Meeting (San Francisco, California)

Lecturer at the University of Montpellier (France, 2018), the University of Southampton (UK, 2017), the Leibniz University of Hannover (Germany, 2010), and the Italian Universities of Bologna (2009), Parma (2009) and Genova (1992, 2006 and 2008)

### **Recent international collaborations**

- Institute of Geology and Geophysics, Chinese Academy of Sciences, Beijing, China
- Géosciences Montpellier, University of Montpellier, Montpellier, France
- European Institute for Marine Studies, Université de Bretagne Occidentale, Brest, France
- University of Strasbourg, Strasbourg, France
- Institute of Geological Sciences, Freie Universität Berlin, Berlin, Germany
- Federal Institute for Geosciences and Natural Resources, Hannover, Germany
- Institute of Geological Sciences, Polish Academy of Science, Wrocław, Poland
- Khalifa University of Science and Technology, Abu Dhabi, United Arab Emirates

### **Participation in research expeditions**

December 2015 - January 2016: IODP expedition 360 - Southwest Indian Ridge Lower Crust and Moho

December 2004 - January 2005: 20<sup>th</sup> Italian expedition in Antarctica

### **Scientific awards**

1992: Best Italian Doctoral Thesis in Geochemistry and Petrology, awarded by the Italian Society of Mineralogy and Petrology

### **Teaching**

- Petrography - Bachelor course in Geological Sciences - Italian language
- Petrogenetic processes and evolution of the lithosphere - Master course in Geosciences for Sustainable Development” – English language

Teaching experience also in Geochemistry, Regional Geology, Mineralogy and Fieldwork Geology.

### **Training**

- Supervision of about 20 Bachelor Theses and about 30 Master Theses. Two of the tutored master students have now permanent research positions:
  - F. Schiavi: Research Engineer at the University of Clermont Auvergne (France)
  - M. Tiepolo: Full Professor in Geochemistry at the University of Milano (Italy)
- Supervision of seven Doctoral Theses. He is currently tutor of two PhD students, including one from the China University of Geosciences (Beijing). Four of the tutored PhD students have now permanent research positions in Italy:
  - R. Braga: Associate Professor in Petrology at the University of Bologna
  - S. Fiameni: Researcher at Institute of Condensed Matter Chemistry and Technology for Energy (Italian “Consiglio Nazionale delle Ricerche”)
  - M.R. Renna: Associate Professor in Petrology at the University of Messina
  - A. Sanfilippo: Associate Professor in Petrology at the University of Pavia
- Supervisor of post-doctoral fellow C. Ferrando (2020-2022), now researcher in Petrology at the University of Genova (Italy).

### **Editorial activity**

Since 2016: Associate Editor of *European Journal of Mineralogy*

2011: Guest Editor of a *Lithos* thematic Issue entitled "Alpine ophiolites and modern analogues" (volume 124, 161 pp.)

1996-2013: Chief Editor of *Ophioliti*

Since 1992: Manuscript reviewer for high impact scientific journals, such as *Journal of Petrology*, *Contributions to Mineralogy and Petrology*, *Lithos*, *Chemical Geology* and *Journal of Metamorphic Geology*.

### **Organization of international conferences**

2018: 3<sup>rd</sup> European Mantle Workshop (Pavia, Italy)

2018: Post-cruise meeting of IODP Expedition 360 - Southwest Indian Ridge Lower Crust and Moho (Siracusa, Italy)

2009: Alpine Ophiolites and Modern Analogues (Parma, Italy)

2002: 1<sup>st</sup> InterRidge Theoretical Institute - Thermal regime of ocean ridges and dynamics of hydrothermal circulation (Pavia, Italy)

1999: Orogenic Iherzolites and mantle processes (Pavia, Italy)

1995: International Ophiolite Symposium - From rifting to drifting in present-day and fossil ocean basins (Pavia, Italy)

### **Organization of international schools**

2021: International School on Mantle Dynamics (Sestri Levante, Italy)

2019: Structure and composition of the lower continental crust (Pavia, Italy)

2017: Melting and fluid/melt-rock reactions in the mantle (Pavia, Italy)

2013: Zircon a key mineral for dating and tracking geological processes (Pavia, Italy)

### **Research projects funded by national agencies**

Responsible of the University of Pavia unit (Co-PI) in:

- "Programma Nazionale di Ricerche in Antartide" 2004, 2009 and 2016
- "Programma di Ricerca di Interesse Nazionale" 2002, 2003, 2005, 2007, 2009, 2015 and 2022
- "Consiglio Nazionale delle Ricerche - Agenzia 2000"

### **Research grants**

2014: Grant for a one-year post-doctoral position, in collaboration with Prof. Gianreto Manatschal (University of Strasbourg, France), funded by "Università Italo Francese - Bando Vinci"

2002: Grant to perform bulk-rock chemical analyses at the University of Bristol, funded by "Large Scale Geochemical Facility" (European Commission - Access to Research Infrastructures Action)

1995: Scholarship by the Italian Society of Mineralogy and Petrology for a research visit at the Royal Holloway, University of London (UK), to carry out Nd-Sr isotopic analyses

### **Other activities**

- Reviewer of national and international research proposals
- Co-proponent of the current ICDP project DIVE (Drilling the Ivrea-Verbano zone)
- Field leader of excursions associated to international conferences

### **Bibliometric overview (Scopus data source)**

- 91 documents
- 2627 citations by 1519 documents
- *h*-index 33

2018-2023: 21 documents with 201 citations.

## Publication list of Riccardo Tribuzio

### 2023

- Tribuzio R.**, Renna M.R., Antonicelli M., Liu T., Wu F.-Y., Langone A. (2023) The peridotite-pyroxenite sequence of Rocca d'Argimonia (Ivrea-Verbanò Zone, Italy): Evidence for reactive melt flow and slow cooling in the lowermost continental crust. *Chemical Geology* 619 121315
- Decarlis A., Zanetti A., Ogunyeye A.C., Ceriani A., **Tribuzio R.**, (2023) The Ivrea-Verbanò tectonic evolution: The role of the crust-mantle interactions in rifting localization. *Earth-Science Reviews* 238 104318

### 2022

- Ferrando C., **Tribuzio R.**, Lissenberg C.J., France L., MacLeod C.J., Basch V., Villeneuve J., Deloule E., Sanfilippo A. (2022) Brown Amphibole as Tracer of Tectono-Magmatic Evolution of the Atlantis Bank Oceanic Core Complex (IODP Hole U1473A). *Journal of Petrology* 63 1-27
- Ferrari E., Montanini A., **Tribuzio R.** (2022) Rifting evolution of the lithospheric subcontinental mantle: New insights from the External Ligurian ophiolites (Northern Apennine, Italy). *Lithos* 410-411 106571

### 2021

- Henjes-Kunst F., **Tribuzio R.**, Gerdes A. (2021) Early Cambrian oceanic island-arc magmatism at the palaeo-Pacific margin of East Gondwana: evidence from northern Victoria Land (Antarctica). *Lithos* 382-383 105925
- Ferrando C., France L., Basch V., Sanfilippo A., **Tribuzio R.**, Boulanger M. (2021) Grain Size Variations Record Segregation of Residual Melts in Slow-Spreading Oceanic Crust (Atlantis Bank, 57°E Southwest Indian Ridge). *Journal of Geophysical Research: Solid Earth* 126 e2020JB020997
- Ferrari E., **Tribuzio R.**, Bosch D., Bruguier O. (2021) Constraints on the post-Variscan thermal evolution of the Ivrea crustal section (Italian-Swiss Alps) from U-Pb dating of relict rutile in middle crust amphibolites. *Lithos* 406-407 106500
- Renna M.R., Armandola S., Becker H., Sanfilippo A., **Tribuzio R.**, Wang Z. (2021) Fractionation of highly siderophile and chalcogen elements in the lower oceanic crust: Insights from the troctolites of the Alpine-Apennine Jurassic ophiolites. *Lithos* 380-381 1055873
- Compagnoni R., Dal Piaz G.V., Manatschal G., Montanini A., **Tribuzio R.** (2021) Foreword: Marco Beltrando 10.12.1978 - 08.12.2015. *Ofioliti* 46 103-106

### 2020

- Antonicelli M., **Tribuzio R.**, Liu T., Wu F.-Y. (2020) Contaminating melt flow in magmatic peridotites from the lower continental crust (Rocca d'Argimonia sequence, Ivrea-Verbanò Zone). *European Journal of Mineralogy* 32 587-612
- Berno D., **Tribuzio R.**, Zanetti A., Hémond C. (2020) Evolution of mantle melts intruding the lowermost continental crust: constraints from the Monte Capio-Alpe Cevia mafic-ultramafic sequences (Ivrea-Verbanò Zone, northern Italy). *Contributions to Mineralogy and Petrology* 175 2
- Decarlis A., Gillard M., **Tribuzio R.**, Epin M.E., Manatschal G. (2020) Reply to Discussion on "Breakup continents at magma-poor rifted margins: a seismic vs. outcrop perspective. *Journal of the Geological Society* 177 667-669
- Sanfilippo A., MacLeod C.J., **Tribuzio R.**, Lissenberg C.J., Zanetti A. (2020) Early-Stage Melt-Rock Reaction in a Cooling Crystal Mush Beneath a Slow-Spreading Mid-Ocean Ridge (IODP Hole U1473A, Atlantis Bank, Southwest Indian Ridge). *Frontiers in Earth Science* 8 579138
- Tribuzio R.**, Manatschal G., Renna M.R., Ottolini L., Zanetti A. (2020) Tectono-magmatic Interplay and Related Metasomatism in Gabbros of the Chenaillet Ophiolite (Western Alps). *Journal of Petrology* 60 2483-2508

### 2019

- Berno D., Sanfilippo A., Zanetti A., **Tribuzio R.** (2019) Reactive melt migration controls the trace element budget of the lower oceanic crust: insights from the troctolite-olivine gabbro association of the Pineto ophiolite (Corsica, France). *Ofioliti* 44 71-82
- Dick H.J.B., MacLeod C.J., Blum P. Abe N., Blackman D.K., Bowles J.A., Cheadle M.J., Cho K., Cizuela J., Deans J.R., Edgcomb V.P., Ferrando C., France L., Ghosh B., Ildelfonse B.M., Kendrick M.A., Koepke J.H., Leong J.A.M., Liu C., Ma Q., Morishita T., Morris A., Natland J.H., Nozaka T., Pluempfer O., Sanfilippo A., Sylvan J.B., Tivey M.A., **Tribuzio R.**, Viegas G. (2019) Dynamic

accretion beneath a slow-spreading ridge segment: IODP Hole 1473A and the Atlantis Bank Core Complex. *Journal of Geophysical Research: Solid Earth* 124 12631-12659

Nozaka T., Akitoua T., Abe N., **Tribuzio R.** (2019) Biotite in olivine gabbros from Atlantis Bank: Evidence for amphibolite-facies metasomatic alteration of the lower oceanic crust. *Lithos* 348-349 105176

Sanfilippo A., Salters V., **Tribuzio R.**, Zanetti A. (2019) Role of ancient, ultra-depleted mantle in Mid-Ocean-Ridge magmatism. *Earth and Planetary Science Letters* 511 89-98

## 2018

Decarlis A., Gillard M., **Tribuzio R.**, Epin M.E., Manatschal G. (2018) Breaking up continents at magma-poor rifted margins: a seismic v. outcrop perspective. *Journal of the Geological Society* 175 875-882

Liu T., Wu F.-Y., Liu C.-Z., **Tribuzio R.**, Ji W.-B., Zhang C., Xu Y., Zhang W.-Q. (2018) Variably evolved gabbroic intrusions within the Xigaze ophiolite (Tibet): new insights into the origin of ophiolite diversity. *Contributions to Mineralogy and Petrology* 173 91

Renna M.R., **Tribuzio R.**, Sanfilippo A., Thirlwall M. (2018) Role of melting process and melt-rock reaction in the formation of Jurassic MORB-type basalts (Alpine ophiolites). *Contributions to Mineralogy and Petrology* 173 31

## 2017

MacLeod C.J., Dick H.J.B., Blum P., Abe N., Blackman D.K., Bowles J.A., Cheadle M.J., Cho K., Ciązela J., Deans J.R., Edgcomb V.P., Ferrando C., France L., Ghosh B., Ildefonse B.M., Kendrick M.A., Koepke J.H., Leong J.A.M., Liu C., Ma Q., Morishita T., Morris A., Natland J.H., Nozaka T., Pluemper O., Sanfilippo A., Sylvan J.B., Tivey M.A., **Tribuzio R.**, Viegas L.G.F. (2017) Site U1473. *Proceedings of the International Ocean Discovery Program* 360 pp. 1-136

Renna M.R., **Tribuzio R.**, Sanfilippo A., Tiepolo M. (2017) Zircon U-Pb geochronology of lower crust and quartzo-feldspathic clastic sediments from the Balagne ophiolite (Corsica). *Swiss Journal of Geosciences* 110 479-501

Sanfilippo A., **Tribuzio R.**, Ottolini L., Hamada M. (2017) Water, lithium and trace element compositions of olivine from replacive mantle dunites (Lanzo South massif, Western Alps): implications for melt extraction at Mid Ocean Ridges. *Geochimica et Cosmochimica Acta* 214 51-72

## 2016

Ciązela J., Dick H.J.B., MacLeod C.J., Blum P., Abe N., Blackman D.K., Bowles J.A., Cheadle M.J., Cho K., Deans J.R., Edgcomb V.P., Ferrando C., France L., Ghosh B., Ildefonse B.M., Kendrick M.A., Koepke J.H., Leong J.A.M., Liu C., Ma Q., Morishita T., Morris A., Natland J.H., Nozaka T., Pluemper O., Sanfilippo A., Sylvan J.B., Tivey M.A., **Tribuzio R.**, Viegas L.G.F. (2016) IODP Expedition 360: First stage of drilling into Earth's Mantle. *Przeglad Geologiczny* 64 889-895

Dick H.J.B., MacLeod C.J., Blum P., Abe N., Blackman D.K., Bowles J.A., Cheadle M.J., Cho K., Ciązela J., Deans J.R., Edgcomb V.P., Ferrando C., France L., Ghosh B., Ildefonse B.M., Kendrick M.A., Koepke J.H., Leong J.A.M., Liu C., Ma Q., Morishita T., Morris A., Natland J.H., Nozaka T., Pluemper O., Sanfilippo A., Sylvan J.B., Tivey M.A., **Tribuzio R.**, Viegas L.G.F., Kavanagh L., Burgio M., Martinez, A., Zhang J., Skinner T., McLelland J.S. (2016) International Ocean Discovery Program Expedition 360 Preliminary Report: Southwest Indian Ridge Lower Crust and Moho the nature of the lower crust and Moho at slower spreading ridges (SloMoLeg 1). *Integrated Ocean Drilling Program: Preliminary Reports* 360 pp. 1-50

Renna M.R., **Tribuzio R.**, Ottolini L. (2016) New perspectives on the origin of olivine-rich troctolites and associated harrisites from the Ligurian ophiolites (Italy). *Journal of the Geological Society* 173: 916-932

**Tribuzio R.**, Garzetti F., Corfu F., Tiepolo M., Renna M.R. (2016) U-Pb zircon geochronology of the Ligurian ophiolites (Northern Apennine, Italy): Implications for continental breakup to slow seafloor spreading. *Tectonophysics* 666: 220-243

## 2015

Montanini A., **Tribuzio R.** (2015). Evolution of recycled crust within the mantle: Constraints from the garnet pyroxenites of the External Ligurian ophiolites (northern Apennines, Italy). *Geology* 43: 911-914

Sanfilippo A., **Tribuzio R.**, Tiepolo M., Berno D. (2015). Reactive flow as dominant evolution process in the lowermost oceanic crust: evidence from olivine of the Pineto ophiolite (Corsica). *Contributions to Mineralogy and Petrology* 170: 38

## 2014

- Sanfilippo A., Borghini G., Rampone E., **Tribuzio R.** (2014) The Ligurian Ophiolites: a journey through the building and evolution of slow spreading oceanic lithosphere. *Geological Field Trips* 6, DOI: 10.3301/GFT.2014.06
- Sanfilippo A., **Tribuzio R.**, Tiepolo M. (2014) Mantle-crust interactions in the oceanic lithosphere: constraints from minor and trace elements in olivine. *Geochimica et Cosmochimica Acta* 141: 423-439
- Tiepolo M., **Tribuzio R.**, Ji W., Wu F., Lustrino M. (2014) Alpine Tethys closure as revealed by amphibole-rich mafic and ultramafic rocks from the Adamello and the Bergell intrusions (Central Alps). *Journal of the Geological Society, London*, 171: 793-799
- Tribuzio R.**, Renna M.R., Dallai L., Zanetti A. (2014) The magmatic-hydrothermal transition in the lower oceanic crust: clues from the Ligurian ophiolites, Italy. *Geochimica et Cosmochimica Acta* 130: 188-211

## 2013

- Beltrando M., Zibra I., Montanini A., **Tribuzio R.** (2013) Crustal thinning and exhumation along a fossil magma-poor distal margin preserved in Corsica: A hot rift to drift transition? *Lithos* 168: 99-112
- Renna M.R., **Tribuzio R.**, Braga R. (2013) Petrogenetic relationships between peralkaline rhyolite dykes and mafic rocks in the post-Variscan gabbroic complex from Bocca di Tenda (northern Corsica, France). *Contributions to Mineralogy and Petrology* 165: 1073-1085
- Sanfilippo A., **Tribuzio R.** (2013) Building of the deepest crust at a fossil slow spreading centre (Pineto gabbroic sequence, Alpine Jurassic ophiolites). *Contributions to Mineralogy and Petrology* 165: 705-721
- Sanfilippo A., **Tribuzio R.** (2013) Origin of olivine-rich troctolites from the oceanic lithosphere: a comparison between the Alpine Jurassic ophiolites and modern slow spreading ridges. *Ophioliti* 38: 91-101

## 2012

- Montanini A., **Tribuzio R.**, Thirlwall M. (2012) Garnet clinopyroxenite layers from the mantle sequences of the Northern Apennine ophiolites (Italy): Evidence for recycling of crustal material. *Earth and Planetary Science Letters* 351-352: 171-181
- Zibra I., Kruhl J.H., Montanini A., **Tribuzio R.** (2012) Shearing of magma along a high-grade shear zone: Evolution of microstructures during the transition from magmatic to solid-state flow. *Journal of Structural Geology* 37: 150-160

## 2011

- Montanini A., Piccardo G.B., **Tribuzio R.**, Dick H.J.B. (2011). Preface. Alpine ophiolites and modern analogues. *Lithos* 124: p. v-vii
- Renna M.R., **Tribuzio R.** (2011) Olivine-rich troctolites from Ligurian ophiolites (Italy): evidence for impregnation of replacive mantle conduits by MORB-type melts. *Journal of Petrology* 52: 1763-1790
- Renna M.R., Tiepolo M., **Tribuzio R.** (2011) In situ U-Pb geochronology of baddeleyite-zircon pairs using laser-ablation ICPMS; the case study of quartz gabbro from Varney Nunatak (central Victoria Land, Antarctica). *European Journal of Mineralogy* 23: 223-240
- Sanfilippo A., **Tribuzio R.** (2011) Melt transport and deformation history in a nonvolcanic ophiolitic section, northern Apennines, Italy: Implications for crustal accretion at slow spreading settings. *Geochemistry, Geophysics, Geosystems* 12, doi: 10.1029/2010GC003429
- Tiepolo M., **Tribuzio R.**, Langone A. (2011) High-Mg andesite petrogenesis by amphibole crystallisation and ultramafic crust assimilation: evidence from Adamello hornblendites (Central Alps, Italy). *Journal of Petrology* 52: 1011-1045

## 2010

- Giacomini F., Boerio V., Polattini S., Tiepolo M., **Tribuzio R.**, Zanetti A. (2010) Evaluating asbestos fibre concentration in metaophiolites: a case study from the Voltri Massif and Sestri-Voltaggio Zone (Liguria, NW Italy). *Environmental Earth Sciences* 61: 1621-1639
- Montanini A., **Tribuzio R.**, Bersani D. (2010) Insights into the origin of mantle graphite and sulphides in garnet pyroxenites from the External Liguride peridotites (Northern Apennine, Italy). In: Coltorti M., Downes H., Grégoire M., O'Reilly S.Y., *Petrological Evolution of the European Lithospheric Mantle*. vol. 337: 87-105, The Geological Society of London

## 2009

- Renna M.R., **Tribuzio R.** (2009) Petrology, geochemistry and U-Pb zircon geochronology of lower crust pyroxenites from northern Apennine (Italy): insights into the post-collisional Variscan evolution. *Contributions to Mineralogy and Petrology* 157: 813-835
- Tribuzio R.**, Renna M.R., Braga R., Dallai L. (2009) Petrogenesis of Early Permian olivine-bearing cumulates and associated basalt dykes from Bocca di Tenda (Northern Corsica): Implications for post-collisional Variscan evolution. *Chemical Geology* 259: 190-203

## 2008

- Montanini A., **Tribuzio R.**, Vernia L. (2008) Petrogenesis of basalts and gabbros from an ancient continent-ocean transition (External Liguride ophiolites, Northern Italy). *Lithos* 101: 453-479
- Tribuzio R.**, Tiepolo M., Fiameni S. (2008) A mafic-ultramafic cumulate sequence derived from boninite-type melts (Niagara Icefalls, northern Victoria Land, Antarctica). *Contributions to Mineralogy and Petrology* 155: 619-633
- Tiepolo M., **Tribuzio R.** (2008) Petrology and U-Pb zircon geochronology of amphibole-rich cumulates with sanukitic affinity from Husky Ridge (Northern Victoria Land, Antarctica): insights into the role of amphibole in the petrogenesis of subduction related magmas. *Journal of Petrology* 49: 937-970

## 2007

- Giacomini F., Braga R., Tiepolo M., **Tribuzio R.** (2007) New constraints on the origin and age of Variscan eclogitic rocks (Ligurian Alps, Italy). *Contributions to Mineralogy and Petrology* 153: 29-53
- Renna M.R., **Tribuzio R.**, Tiepolo M. (2007) Origin and timing of the post-Variscan gabbro-granite complex of Porto (Western Corsica). *Contributions to Mineralogy and Petrology* 154: 493-517

## 2006

- Molli G., **Tribuzio R.**, Marquer D. (2006) Deformation and metamorphism at the eastern border of the Tenda Massif (NE Corsica): a record of subduction and exhumation of continental crust. *Journal of Structural Geology* 28: 1748-1766
- Montanini A., **Tribuzio R.**, Anczkiewicz R. (2006) Exhumation history of a garnet pyroxenite-bearing mantle section from a continent-ocean transition (Northern Apennine ophiolites, Italy). *Journal of Petrology* 47: 1943-1971
- Renna M.R., **Tribuzio R.**, Tiepolo M. (2006) Interaction between basic and acid magmas during the latest stages of the post-collisional Variscan evolution: Clues from the gabbro-granite association of Ota (Corsica-Sardinia batholith). *Lithos* 90: 92-110

## 2005

- Tiepolo M., **Tribuzio R.** (2005) Slab-melting during Alpine orogeny: evidence from mafic cumulates of the Adamello batholith (Central Alps, Italy). *Chemical Geology* 216: 271-288

## 2004

- Molli G., **Tribuzio R.** (2004) Shear zones and metamorphic signature of subducted continental crust as tracers of the evolution of the Corsica/Northern Apennine orogenic system. In: Alsop G.I., Holdsworth R.E., McCaffrey K.J.W., Hand M. (eds.), "Flow Processes in Fault and Shear Zones", Geological Society, London, Special Publications 224: 321-335
- Tribuzio R.**, Thirlwall M.F., Vannucci R. (2004) Origin of the gabbro-peridotite association from the Northern Apennine Ophiolites (Italy). *Journal of Petrology* 45: 1109-1124

## 2003

- Braga R., Callegari A., Messiga B., Ottolini L., Renna M.R., **Tribuzio R.** (2003) Origin of prismatic from the Sondalo granulites (Central Alps, northern Italy). *European Journal of Mineralogy*, 15: 393-400

## 2002

- Marroni M., Molli G., Montanini A., Ottria G., Pandolfi L., **Tribuzio R.** (2002) The External Ligurian units (Northern Apennine, Italy): from rifting to convergence of a fossil ocean-continent transition zone. *Ophioliti* 27: 119-131
- Tiepolo M., **Tribuzio R.**, Vannucci R. (2002) The compositions of mantle-derived melts developed during the Alpine continental collision. *Contributions to Mineralogy and Petrology* 144: 1-1.

**Tribuzio R.**, Giacomini F. (2002) Blueschist facies metamorphism of peralkaline rhyolites from the Tenda crystalline massif (northern Corsica): evidence for involvement in the Alpine subduction event? *Journal of Metamorphic Geology* 20: 513-526

#### **2001**

Braga R., Giacomini F., Messiga B., **Tribuzio R.** (2001) The Sondalo gabbroic complex (central Alps, Northern Italy): evidence for emplacement of mantle derived melts into amphibolite-facies metapelites, *Physics and Chemistry of the Earth*, 26: 333-342

Montanini A., **Tribuzio R.** (2001) Gabbro-derived Granulites from the Northern Apennines (Italy): Evidence for Lower-crustal Emplacement of Tholeiitic Liquids in Post-Variscan Times. *Journal of Petrology*, 42: 2259-2277

Piccardo G.B., Rampone E., Romairone A., Scambelluri M., **Tribuzio R.**, Beretta C. (2001) Evolution of the Ligurian Tethys: inference from petrology and geochemistry of the Ligurian Ophiolites. *Periodico di Mineralogia*, 70: 147-192

#### **2000**

**Tribuzio R.**, Tiepolo M., Thirwall M.F. (2000) Origin of titanian pargasite in gabbroic rocks from the Northern Apennine ophiolites (Italy): insights into the late-magmatic evolution of a MOR-type intrusive sequence. *Earth and Planetary Science Letters*, 176: 281-293

**Tribuzio R.**, Tiepolo M., Vannucci R. (2000) Evolution of gabbroic rocks of the Northern Apennine ophiolites (Italy): Comparison with the lower oceanic crust from modern slow-spreading ridges. In: Dilek J., Moores E., Elthon D., Nicolas A. (eds.), "Ophiolites and Oceanic Crust: New Insights from Field Studies and the Ocean Drilling Program", Geological Society of America Special Paper 349: 129-138

#### **1999**

Di Giulio A., **Tribuzio R.**, Ceriani A., Riccardi M.P. (1999) Integrated analyses constraining the provenance of sandstones, a case study: the Section Peak Formation (Beacon Supergroup, Antarctica). *Sedimentary Geology*, 124: 169-183

**Tribuzio R.**, Tiepolo M., Vannucci R., Bottazzi P. (1999) Trace element distribution within olivine-bearing gabbros from the Northern Apennine ophiolites (Italy): Evidence for post-cumulus crystallization in MOR-type gabbroic rocks. *Contributions to Mineralogy and Petrology*, 134: 123-133

Messiga B., Kienast J.R., Rebay G., Riccardi M.P., **Tribuzio R.** (1999) Cr-rich magnesiochloritoid-eclogites from the Monviso ophiolites (Western Alps, Italy). *Journal of Metamorphic Geology*, 17: 287-299

**Tribuzio R.**, Thirlwall M.F., Messiga B. (1999) Petrology, mineral and isotope geochemistry of the Sondalo gabbroic complex (Central Alps, Northern Italy): implications for the origin of post-Variscan magmatism. *Contributions to Mineralogy and Petrology*, 136: 48-62

#### **1998**

Marroni M., Molli G., Montanini A., **Tribuzio R.** (1998) The association of continental crust rocks with ophiolites in the Northern Apennines (Italy): Implications for the continent-ocean transition in the Western Tethys. *Tectonophysics*, 292: 43-66

#### **1997**

Balestrieri M.L., Bigazzi G., Marroni M., **Tribuzio R.** (1997) Quartzo-feldspathic granulites from External Liguride units (Northern Apennines): tectono-metamorphic evolution and thermochronological constraints from zircon fission-track data. *Comptes Rendus de l'Academie des Sciences*, 324: 87-94

Tiepolo M., **Tribuzio R.**, Vannucci R. (1997) Mg- and Fe-gabbroids from Northern Apennine ophiolites: Parental liquids and igneous differentiation process. *Ofioliti*, 22: 57-70

**Tribuzio R.**, Molli G., Riccardi M.P., Messiga B. (1997) Polyphase metamorphism in ophiolitic gabbros from Bonassola (Internal Liguride Units, northern Apennines): A record of western Tethys oceanization. *Ofioliti*, 22: 163-174

**Tribuzio R.**, Riccardi M.P., Messiga B. (1997) Amphibolitization of Mg- and Fe-rich gabbroic dykes within mantle-derived serpentinites from Northern Apennine ophiolites: Evidence for high-temperature hydration of the oceanic lithosphere. *Ofioliti*, 22: 71-80

#### 1996

Marroni M., **Tribuzio R.** (1996) Gabbro-derived granulites from External Liguride units (northern Apennine, Italy): implications for the rifting processes in the western Tethys. *Geologische Rundschau*, 85: 239-249

**Tribuzio R.**, Messiga B., Vannucci R., Bottazzi P. (1996) Rare earth element redistribution during high-pressure/low-temperature metamorphism in ophiolitic Fe-gabbros (Liguria, northwestern Italy): Implications for LREE mobility in subduction zones. *Geology*, 24: 711-714

#### 1995

Messiga B., **Tribuzio R.**, Bottazzi P., Ottolini L. (1995) An ion microprobe study on trace element compositions of clinopyroxenes from blueschist and eclogitized Fe-Ti-gabbros (Ligurian Alps, northwestern Italy): Some petrologic considerations. *Geochimica et Cosmochimica Acta*, 59: 59-75

**Tribuzio R.**, Riccardi M.P., Ottolini L. (1995) Trace element redistribution in high temperature deformed gabbros from East Ligurian ophiolites (Northern Apennines, Italy): constraints on the origin of syndeformation fluids. *Journal of Metamorphic Geology*, 13: 367-377

#### 1994

Messiga B., Scambelluri M., **Tribuzio R.** (1994) Petrological approach to the dynamics of high pressure nappes: combined investigations on the eclogitic metagabbros from Ligurian Alps, northwestern Italy. *Memorie della Società Geologica Italiana*, 48: 165-177

Riccardi M.P., **Tribuzio R.**, Caucia F. (1994) Amphibole evolution in the metagabbros from East Ligurian ophiolites (Northern Apennines, Italy): Constraints on the ocean-floor metamorphism. *Memorie della Società Geologica Italiana*, 48: 203-208

#### 1993

Messiga B., Scambelluri M., **Tribuzio R.** (1993) Petrology of Eclogitized Mafic Ophiolites from Western Alps. *Accademia Nazionale delle Scienze detta dei XL, Scritti e documenti: "Italian eclogites and related rocks"*, 13: 79-96

Compagnoni R., Lombardo B., Messiga B., **Tribuzio R.** (1993) The Eclogites in the Continental Crust of the Western Alps. *Accademia Nazionale delle Scienze detta dei XL, Scritti e documenti: "Italian eclogites and related rocks"*, 13: 60-78

#### 1992

Messiga B., **Tribuzio R.**, Caucia F. (1992) Amphibole evolution in Variscan eclogite-amphibolites from the Savona Crystalline massif (Western Ligurian Alps, Italy): Controls on the decompressional P-T-t path. *Lithos*, 27: 215-230

Messiga B., **Tribuzio R.**, Scambelluri M. (1992) Mafic eclogites from the Valosio crystalline Massif (Ligurian Alps, Italy). *Schweizerische Mineralogische und Petrografische Mitteilungen*, 72: 363-375

**Tribuzio R.** (1992) Distribution of rare earth and trace elements in the main mineral phases of the meta-Fe-gabbros from Ligurian ophiolites: Crystal-chemical controls and petrogenetic implications. *Plinius*, 7: 115-120

#### 1991

Messiga B., **Tribuzio R.** (1991) The reaction between olivine and plagioclase as a consequence of fluid-rock interactions during sub-seafloor metamorphism (Al-Mg-gabbros, Northern Apennine ophiolites, Italy). *Schweizerische Mineralogische und Petrografische Mitteilungen*, 71: 405-414

Messiga B., **Tribuzio R.** (1991) Steady mineral sequence generated by reaction between olivine and plagioclase during sub-seafloor metamorphism in Al-Mg-gabbros from Northern Apennine ophiolites, Italy. *Ophioliti*, 16: 7-15

Vannucci R., **Tribuzio R.**, Piccardo G.B., Ottolini L., Bottazzi P. (1991) SIMS analysis of REE in pyroxenes and amphiboles from the Proterozoic Ikaasulak intrusive complex (SE Greenland): implications for LREE enrichment processes during post-orogenic plutonism. *Chemical Geology*, 92: 115-133

#### 1990

Messiga B., **Tribuzio R.**, Vannucci R. (1990) Mafic and ultramafic pods with eclogitic relics from the Proterozoic Nagssugtoqidian mobile belt of East Greenland. *Lithos*, 25: 101-118