SANFILIPPO Alessio
Born in Sarnico, September 5th, 1984, Italian.
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Bibliographic indexes: Scopus Citations 742 HI 16; Google Scholar Citations 982 HI 18

EDUCATION

2008 – 2011 PhD
Department of Earth and Environmental Science (DSTA), University of Pavia, Italy
Supervisor: R. Tribuzio, co-supervisor: Henry J.B. Dick (Woods Hole Oceanographic Institution)
2005 – 2008 Master in Applied Geological Science
Department of Earth and Environmental Science, University of Pavia, Italy

CURRENT POSITION

03/2021– Associate Professor
Department of Earth and Environmental Science, University of Pavia, Italy

PREVIOUS POSITIONS

12/2017 – 12/2020	Researcher (RTD B) Department of Earth and Environmental Science, University of Pavia, Italy
12/2014 – 12/2017	Researcher (RTD A) Department of Earth and Environmental Science, University of Pavia, Italy
03/2014 – 12/2014	JSPS Postdoc College of Science and Engineering, Kanazawa University, Japan
11/2013 – 02/2014	Associate Scientist Woods Hole Oceanographic Institution, USA
01/2013 – 10/2013	Postdoc Department of Earth and Environmental Science, University of Pavia, Italy
06/2011– 10/2012	Visiting PhD Student Woods Hole Oceanographic Institution, USA

FELLOWSHIPS AND AWARDS

2013	Japan Society for Promotion of Science Fellowship for Foreign Researchers, Japan
2012	InterRidge Fellowship (5000 USD) EU
2012	Premio Borsa di Studio all'Estero, SIMP (2500 USD), Italy
2011	Leopoldo and Clara Gori Foundation Fellowship (8500 USD), USA

TEACHING AND INSTITUTIONAL RESPONSABLITIES

SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

2015-2022 University of Pavia. 3 Postdocs; 4 PhD; 14 Master Students

BACHELOR, MASTERS AND PHD COURSES

- *Vulcanologia*, Geological Science (L 34) 2015/22
- *Petrogenetic processes and Evolution of the Lithosphere*, Master in Geoscience for the Sustainability (LM 74) 2021/22
- *Composizione della Litosfera*, Master in Applied Geological Science (LM 74) 2018/21
- Lecturer of short course "*Petrology of Mid-Ocean Ridges: knowledge and perspectives*" (14 hours) at Tongji University, Shanghai, China (03/2017)
- Lecturer (2 hours) at the PhD School "*MEREMA Melting and fluid/melt-rock reactions in the mantle*", Pavia, Italy (02/2017);

DEPARTMENT COMMISSIONS AND INSTITUTIONAL ACTIVITIES

2021 Department, *Commissione Paritetica Docenti-Studenti*
2017 – 2021 Department, *Commissione Comunicazione, Piano Lauree Scientifiche*
07/2019 PhD School "Multidisciplinary field trip in Western Alps"
06/2018 PhD School "Field course in Asinara"
06/2017 PhD School "Field course in Cima di Gagnone"
11/2017 PhD School, Seminar "Element cycling in the deep Earth" seminar of V. Salters

RESEARCH

FUNDED RESEARCH PROJECTS

(principal investigator)

- Progetto di Rilevante Interesse Nazionale, PRIN2017-KY5ZX8. *Oceanic Megatransforms: a new class of grain boundaries* (127000 €)
- Progetto Nazionale Ricerche Antartide, PNRA16-002. *An intra-oceanic rift along the western Antartic-Pacific plate boundary: geophysical and petrological constraints* (6000 €)
- *Improving Source Rock evaluation using Inorganic Geochemistry (ISRIG)* funded by Eni Spa. Study of geochemical proxies for the estimate of environmental conditions of formation of organic matter-rich sediments. (100000 €)
- *Contributo Spedizione Oceanografica IODP Exp 360* funded by University of Pavia (15000 €)

(collaborator)

- German Research Foundation research grant DFG-STR853/14-1 '*Doldrums FZ*' (PI: A. Stracke)
- Bilateral agreement CNR/RFBR 2018-2020 (CUP-B36C17000250005) (Russia) *A new Class of Plate Boundaries: Oceanic Megatransforms* (PI M. Ligi)
- Progetto di Rilevante Interesse Nazionale, PRIN 2015 C5LN35_004. *Melt extraction mechanism in the suboceanic mantle: geochemical observation and numerical modelling* (PI E. Rampone)
- Progetto di Rilevante Interesse Nazionale, PRIN2012 5JKANY_002. *Rift-to-drift transition in the Red Sea: Geodynamics, geochemistry, and high-resolution plate kinematics* (PI A. Schettino)
- Progetto di Rilevante Interesse Nazionale, PRIN 2009 SWLYC_002. *Early magmatic evolution of the mantle and crustal sequences exposed in the Alpine Jurassic Ophiolites* (PI G.B. Piccardo)

SCIENTIFIC CRUISES

- Parece Vela oceanic core complexes, (upcoming, 04/2023), R/V Yokosuka
- AS Vavilov 53 (9-10/2021), Charlie-Gibbs and Bight FZ (co-chief scientist). R/V Vavilov
- AN Strakhov 50 (9-10/2020), Charlie-Gibbs FZ (co-chief scientist). R/V Strakhov
- AN Strakhov 45 (10-11/2019), Doldrums FZ (co-chief scientist). R/V Strakhov
- Shikoku Basin oceanic core complex and petit spot, Leg2 (04/2018), R/V Yokosuka
- Shikoku Basin oceanic core complex and petit spot, Leg1 (Luglio 2018). R/V Hakuho Maru
- IODP Expedition 360 (12/2015-02/2016), Southwest Indian Ridge, R/V Joides Resolution
- KN210-05 (05-06/2013) Central Atlantic (16.5ºN), R/V Knorr
- YK11-08 (10/2011) Philippine Sea, R/V Yokosuka

ACTIVE IODP PROPOSALS

- IODP 971Full2 "Kane OCC; drilling the lower crust and mantle at the slow spreading MAR" (lead proponent) (JRFB)
- IODP-941-full "The nature of the Back-Arc basin lower crust and upper mantle at the Godzilla Megamullion" (co-lead proponent, PI Y.Ohara) (JRFB)
- IODP-800-full "MoHo, the nature of crust-mantle boundary at lower spreading ridge" (co-proponent, PI HJB. Dick) (Leg 1 IODP Exp 360; Leg 2 at JRFB)

INVITETED PRESENTATIONS AT INTERNATIONAL CONFERENCES AND SEMINARS
GeoMinKöln Annual Conference, September 2022, Cologne, Germany (*keynote*)
Goldschmidt Conference 2022, July 22, Honolulu, USA (*keynote*)
Goldschmidt Conference 2020, June 2020, Honolulu, USA (*Invited*)
Goldschmidt Conference 2017, August 2017, Paris, France (*Invited*)
Society of Exploration Geophysics, Red Sea Exploration Workshop 19-23 Nov 2018, Hurghada, Egypt (*Invited*)
US-China IODP Workshop, Maggio 2015, Woods Hole, USA (*Invited*)
(seminars)
12/2023 Goethe-Universität Frankfurt, Frankfurt, Germany
04/2021 IGAG CNR Webinar cycle 2021
05/2021 Webinar IODP-Italia 2021
02/2020 ISMAR-CNR, Bologna, Italy
11/2018 CNRS and University of Nancy, Nancy, France
05/2018 Universita' di Milano La Statale, Italy
03/2018 IPGP, Paris
10/2017 University of Münster, Münster
08/2014 Japan Agency for Marine Science and Technology, Yokohama, Japan
01/2014 Woods Hole Oceanographic Institution, USA
10/2013 CNR-Istituto di Scienze Marine, Bologna, Italy
07/2011 Woods Hole Oceanographic Institution, USA

MEMBERSHIPS OF SCIENTIFIC SOCIETIES
2017 – Present Società Italiana di Mineralogia e Petrologia
2018 – Present Geochemical Society
2014 – Present Japan Society for Promotion of Science

SYNERGISTIC ACTIVITIES

EDITORIAL ACTIVITIES, EVALUATION PANELS AND REVIEWING
2022-2025. Science member of the Science Evaluation Panel (SEP) for IODP
2018-present Member of the Editor Board of Ofioliti (IF 2.5).
12/2021 PhD Committee, Maël Allard, Université de Montpellier, France
01/2019 PhD Committee, Alden Arian De Brito, Université de Bretagne Occidentale, France
12/2018 PhD Evaluator, Tancredi Rumbolo, Università di Parma, Italy

ORGANISATION OF SCIENTIFIC MEETINGS AND PHD SCHOOLS
03/2023. Lead organizer of ECORD MagellanPlus Workshop "MAREXKUS, MAntle Remelting and hydrothermal chemical EXchange at Knipovich Ultraslow Spreading ridge
04/2022. Co-organizer, ECORD MagellanPlus Workshop "Investigating the Oceanic Life Cycle of Tectonic Plates with MSP Drilling", Plymotuh, UK.
07/2021. Conveneer of session (2e) "Mantle heterogeneity: origins and contribution to magmatism and implications for mantle dynamics" at Goldschmit Conference 2021, Lyon, Frnce
2020. Lead organizer, DriMMLOC "Drilling the Mantle, Moho and Lower Oceanic Crust", Shanghai, China (postponed).
09/2019. Co-organizer, International PhD School "Structure and composition of the Lower Continental Crust", Pavia, Italy.
09/2019. Conveneer of session (S20) "Advances in Understanding Geological and Petrological Processes in the Oceanic Lithosphere" at SIMP-SGI-SoGeI-AIV conference "Le geoscienze tra passato e futuro" (Settembre 2019, Parma)
06/2018. Co-organizer, 3rd European Mantle Workshop, Pavia, Italy and field leader of pre-conference excursion (Lanzo).

05/2018. Lead organizer, "Post-cruise meeting IODP Expedition 360", Siracusa, Italy.
09/2017. Conveneer of session (S14) “Modern and fossil oceanic lithosphere revisited: from field to laboratory” at SIMP-SGI-SoGeI-AIV conference “Geosciences: a toll in a changing world”, Pisa, Italy. Funded by EGU, UniPv, UniMI, UniMoRE, UniGe, UniFe.
02/2017. Co-organizer, International PhD School “Melting and fluid/melt-rock reactions in the mantle”, Pavia, Italy
08/2013. Field leader “The Ligurian Ophiolites”, Goldschmidt Conference, Florence, Italy
09/2009. Field leader “Field Trip to the Ligurian Ophiolites”, AOMA, Parma, Italy.

PEER REVIEWED PUBLICATIONS (*student advisee first author)

1. ***Sani, C.,** **Sanfilippo, A.**, Peyve, A., Genske, F., & Stracke, A., (2023). Earth mantle’s isotopic record of progressive chemical depletion. *AGU Advances (in press)*.
2. **Sanfilippo, A.,** Borghini, G., Guarnieri, L., Nakamura, E., Piccardo, G. B., Vannucci, R., & Zanetti, A. (2022). A 400 Ma-long Nd-Hf isotopic evolution of melt-modified garnet-pyroxenites in an ancient subcontinental lithosphere (Lanzo North ophiolite, Western Alps). *Chemical Geology*, 588, 120643
3. ***Basch, V.,** **Sanfilippo, A**., Skolotnev, S. G., Ferrando, C., Muccini, F., Palmiotto, C., Peyve A.A, Ermolaev, Okina O.I & M Ligi (2022). Genesis of Oceanic Oxide Gabbros and Gabbronorites During Reactive Melt Migration at Transform Walls (Doldrums Megatransform System; 7–8° N Mid-Atlantic Ridge). *Journal of Petrology*, 63(9), egac086.
4. ***Basch, V.,** **Sanfilippo, A.**, Vigliotti, L., Langone, A., Rasul, N., Khorsheed, M., ... & Ligi, M. (2022). Crustal contamination and hybridization of an embryonic oceanic crust during the Red Sea rifting (Tihama Asir igneous complex, Saudi Arabia). *Journal of Petrology* egac005.
5. ***Ferrando, C.,** Tribuzio, R., Lissenberg, C. J., France, L., MacLeod, C. J., Basch, V., Vilneuve 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(9).
6. Skolotnev, S. G., Peyve, A. A., **Sanfilippo, A.,** Ivanenko, A. N., Ligi, M., Veklich, I. A., & Cuffaro, M. (2022, May). Peculiarities of the Tectonomagmatic Processes in the Interaction Area between the Icelandic Plume and the Bight Transform Fault (North Atlantic). *Doklady Earth Sciences,* 504(1), 233-239.
7. Skolotnev, S. G., Peyve, A. A., **Sanfilippo, A.,** Ivanenko, A. N., Ligi, M., Veklich, I. A., ... & Cuffaro, M. (2022). Geological-Geophysical Investigations in the North Atlantic during Cruise 53 of the R/V Akademik Sergey Vavilov. *Oceanology*, 62(4), 575-577
8. Skolotnev S.G., Peyve A.A., **Sanfilippo, A.**, Sokolov S. Yu, Petracchini, L., Dobrolyubova K.O., Nestola, Y., Ivanenko, A.N., Basch, V., Pertsev, AN, Sani C., Brusilovskiy, Yu V., Ferrando, C., Veklich, IA, Bich, V., Sholukhov, KN., Razumovskii, AA, Dobrolyubov, VN. (2022). Geological and Geophysical Studies of the Double Transform Fault Charlie Gibbs (North Atlantic) during Cruise 50 of R/V Akademik Nikolaj Strakhov. *Oceanology*, 62(5), 724-726
9. Skolotnev, S. G., Peyve, A. A., Ivanenko, A. N., Dobrolyubova, K. O., **Sanfilippo, A**., Ligi, M., ... & Yakovenko, E. S. (2022). New Data on the Geological Structure of the Eastern Flank of the Charlie Gibbs Fracture Zone (North Atlantic). *Doklady Earth Sciences*. 504(2), 333-337.
10. Rampone, E., and ***Sanfilippo, A.** (2021) The heterogeneous Tethyan oceanic lithosphere of the Alpine Ophiolites. In: *Shedding new Light on the European Alps* edited Anders McCarthy and Othmar Müntener, *Elements: An International Magazine of Mineralogy, Geochemistry, and Petrology*
11. **Sanfilippo, A**., Sani, C., Rasul, N., Stewart, I., Vigliotti, L., Widinly, N., Osemi, A., Ligi, M. (2021). Hidden but Ubiquitous: The Pre-Rift Continental Mantle in the Red Sea Region, *Frontiers in Earth Science*, 666
12. Sen, A., Snow, J. E., Ohara, Y., Hirauchi, K., Kouketsu, Y., **Sanfilippo, A**., V. Basch,Y. Harigane,M. Fujii,K. Okino, & Akizawa, N. (2021). Melting and Evolution of Amphibole-Rich Back-Arc Abyssal Peridotites at the Mado Megamullion, Shikoku Basin. *Geochemistry, Geophysics, Geosystems*, 22(12), e2021GC010013.
13. Akizawa, N., Ohara, Y., Okino, K., Ishizuka, O., Yamashita, H., Machida, S., **Sanfilippo A**., … Hirata, T. (2021). Geochemical characteristics of back-arc basin lower crust and upper mantle at final spreading stage

of Shikoku Basin: an example of Mado Megamullion. *Progress in Earth and Planetary Science*, 8(1), 1-24.

14. Boulanger, M; France, L; Ferrando, C; Ildefonse, Benoit; Ghosh, B; **Sanfilippo, A**; Liu, C-Z; Morishita, T; Koepke, J; Bruguier, O (2021) ,Magma-Mush Interactions in the Lower Oceanic Crust: Insights From Atlantis Bank Layered Series (Southwest Indian Ridge). Journal of Geophysical Research: Solid Earth, 126, 9, e2021JB022331.
15. Casini, L., Maino, M., **Sanfilippo, A.**, Ildefonse, B., Dick, HJB. (2021). High-Temperature Strain Localization and the Nucleation of Oceanic Core Complexes (16.5° N, Mid-Atlantic Ridge). *Journal of Geophysical Research: Solid Earth*, 126, 9, e2021JB022215.
16. ***Ferrando, C**; Basch. V, Ildefonse. B, Deans, J., **Sanfilippo, A**; Barou, F., France, L. (2021). Role of compaction in melt extraction and accumulation at a slow spreading center: Microstructures of olivine gabbros from the Atlantis Bank (IODP Hole U1473A, SWIR)",Tectonophysics,815,,229001
17. **Sanfilippo, A.,** Salters, V., Sokolov, S.Y., Peyve, A.A., Stracke, A. (2021). Ancient, refractory asthenosphere revealed by mantle re-melting in the Arctic Mid-Atlantic Ridge. *Earth and Planetary Science Letters, in press.*
18. Skolotnev, S., **Sanfilippo, A.,** Peyve, A., Nestola, Y., Sokolov, S., Petracchini, L., ... & Ligi, M. (2021). Seafloor Spreading and Tectonics at the Charlie Gibbs Transform System (52-53ºN, Mid Atlantic Ridge): Preliminary Results from R/V AN Strakhov Expedition S50. *Ofioliti*, *46*(1).
19. ***Ferrando C.,** France, L., Basch, V., **Sanfilippo, A.**, Tribuzio, R., Boulanger M., (2021). Grain size variations record segregation of residual melts in Skow Spreding Oceanic Crust (atlantis Bank, 57°E, Southwest Indian Ridge). *Journal of Geophysical Research: Solid Earth 126* (4), e2020JB020997
20. 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, doi.org/10.1016/j.lithos.2020.105873.*
21. ***Bonacina, G., Sanfilippo, A.**, Zana, S., Bosino, A., Previde Massara, E., Viaggi, P., Scotti P. Gallicchio, S., Sabato, L. (2020). Geochemical evidence for local variability in redox and depositional conditions in a deep-water Bonarelli Equivalent section from Southern Thetys (Fontana Valloneto Section, Southern Italy, Ofioliti. DOI:10.4454/ofioliti.v46i1.537
22. **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*, vol. 8, ISSN: 2296-6463, doi: 10.3389/feart.2020.579138
23. ***Sani, C., Sanfilippo, A.**, Ferrando, C., Peyve, A., Skolotnev, S., Muccini, F., Zanetti, A., Basch, V., Palmiotto, C., Bonatti, E., Ligi, M. (2020). Ultra-depleted melt refertilization of mantle peridotites in a large intra-transform domain (Doldrums Fracture Zone; 7–8° N, Mid Atlantic Ridge). *Lithos*, 374, 105698.
24. ***Basch, V., Sanfilippo, A**., Sani, C., Ohara, Y., Snow, J., Ishizuka, O., Harigane, Y., Michibayashi, K., Sen, A., Akizawa, N., Okino, K., Fujii, M., Yamashita, H. (2020). Crustal Accretion in a Slow Spreading Back-Arc Basin: Insights From the Mado Megamullion Oceanic Core Complex in the Shikoku Basin. *Geochemistry, Geophysics, Geosystems*, vol. 21, ISSN: 1525-2027, doi: 10.1029/2020GC009199
25. Brunelli D., **Sanfilippo A**., Bonatti E., Skolotnev S., Escartin J., Ligi M., Ballabio G., Cipriani A. (2020). Origin of oceanic ferrodiorites by injection of nelsonitic melts in gabbros at the Vema Lithospheric Section, Mid Atlantic Ridge. Lithos, vol. 368-369, ISSN: 0024-4937, doi: 10.1016/j.lithos.2020.105589
26. Skolotnev S., **Sanfilippo A.**, Peyve A.A., Muccini F., Sokolov S.Y., Sani C., Dobroliubova K., Ferrando C., Chamov N., Palmiotto C., Pertsev A., Bonatti E., Cuffaro M., Gryaznova A., Sholukhov K.N., Bich A.M., Ligi M., (2020). Large-scale structure of the Doldrums multi-fault transform system (7-8ºN Equatorial Atlantic): Preliminary results from the 45th Expedition of the R/V A. N. Strakhov. *Ofioliti*
27. Skolotnev S., **Sanfilippo A.**, Peyve A.A., Muccini F., Sokolov S.Y., Sani C., Dobroliubova K., Ferrando C., Chamov N., Palmiotto C., Pertsev A., Bonatti E., Cuffaro M., Gryaznova A., Sholukhov K.N., Bich A.M., Ligi M (2020). New Data on the Structure of the Megatransform System of the Doldrums (Central Atlantic). *Doklady Earth Sciences*,491,,131-134
28. Ivanova, S. Skolotnev, DG Borisov, AN Demidov, AS Bich, FN Gippius, AS Gryaznova, KO Dobroliubova, TF Zinger, DM Korshunov, OV Levchenko, VV Mashura, Filippo Muccini, NV Nemchenko, Alexander A

Peyve, AN Pertsev, K Sani, **A. Sanfilippo**, NV Simagin, S Yu Sokolov, C Ferrando, NP Chamov, IB Shakhovskoy, KN Sholukhov (2020). Multidisciplinary Investigation of the Transform Fault Zones Doldrums and Vema during Cruise 45 of the R/V "Akademik Nikolaj Strakhov",*Oceanology*, 60, 3, 424-426.

29. Dick, H.J.B., MacLeod, C.J., Blum, P., Abe, N., Blackman, D.K., Bowles, J.A., Cheadle, M.J., Cho, K., Ciążela, J., Deans, J.R., Edgcomb, V.P., Ferrando, C., France, L., Ghosh, B., Ildefonse, B., John, B., 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, G., (2019). Dynamic accretion beneath a slow spreading ridge segment: IODP Hole U1473A and the Atlantis Bank Oceanic Core Complex. *J. Geophys. Res. Solid Earth.*
30. **Sanfilippo A.,** Salters VJM, Tribuzio R., Zanetti A. (2019). Role of ancient, ultra-depleted mantle in Mid-Ocean-Ridge magmatism. *Earth and Planetary Science Letters, 511: 89–98*
31. ***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, 2019, 44* (2), 71-82
32. **Sanfilippo A.,** Cai Y., Gouveia Jácome A.P., Ligi M. (2019). Geochemistry of the Lunayyir and Khaybar volcanic fields (Saudi Arabia): Insights into the origin of the Cenozoic Arabian volcanism. *The Geological Settings of the Red Sea; Rasul, N., Stewart, I., (Eds.) Elsevier*
33. Nguyen D., Morishita T., Soda Y., Tamura A., Ghosh B., Harigane Y., France L., Liu CZ, Natland J., **Sanfilippo A.,** MacLeod C., Blum P., Dick H.J.B. (2018). Occurrence of Felsic Rocks in Oceanic Gabbros from IODP Hole U1473A: Implications for Evolved Melt Migration in the Lower Oceanic Crust. Minerals, 8: 583; https://doi.org/10.3390/min8120583
34. 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 (4), 31
35. **Sanfilippo A.,** Dick H.J.B., Marschall H., Lissenmeberg J., Urann B., (2018). Emplacement and high-temperature evolution of gabbros of the 16.5 ºN oceanic core complexes (Mid-Atlantic Ridge): insights into the compositional variability of the lower oceanic crust. *Geochemistry, Geophysics, Geosystems, doi.org/10.1029/2018GC007512*
36. Renna M.R., Tribuzio, R., **Sanfilippo, A.**, Tiepolo, M. (2018). Zircon U-Pb geochronology of lower crust and quartzo-feldspathic clastic sediments from the Balagne ophiolite (Corsica). *Swiss Journal of Geosciences,* in press, DOI 10.1007/s00015-016-0239-y
37. **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, pp. 51-72.
38. Di Giulio, A., Ronchi, A., **Sanfilippo, A.**, Balgord, E.A., Carrapa, B., Ramos, V.A. (2017). Cretaceous evolution of the Andean margin between 36°S and 40°S latitude through a multi-proxy provenance analysis of Neuquén Basin strata (Argentina). *Basin Research,* Article in Press. DOI: 10.1111/bre.12176
39. **Sanfilippo, A.**, Dick, H.J.B., Ohara, Y., Tiepolo, M. (2016). New insights on the origin of troctolites from the breakaway area of the Godzilla Megamullion (Parece Vela back-arc basin): The role of melt-mantle interaction on the composition of the lower crust. *Island Arc,* 25 (3), pp. 220-234.DOI: 10.1111/iar.12137
40. **Sanfilippo, A**., Morishita, T., Senda, R., (2016). Rhenium-osmium isotope fractionation at the oceanic crust-mantle boundary. *Geology*, 44 (2), pp. 167-170. DOI: 10.1130/G37428.1
41. Tamura, A., Morishita, T., Ishimaru, S., Hara, K., **Sanfilippo, A.,** Arai, S. (2016). Compositional variations in spinel-hosted pargasite inclusions in the olivine-rich rock from the oceanic crust–mantle boundary zone. *Contributions to Mineralogy and Petrology*, 171 (5), art. no. 39, . DOI: 10.1007/s00410-016-1245-9
42. MacLeod, C.J., Dick, H.J.B., Blum, P., and the Expedition 360 Scientists, 2016. Southwest Indian Ridge Lower Crust and Moho. *Proceedings of the Integrated Ocean Drilling Program*. Volume 360. DOI: 10.14379/iodp.pr.360.2016
43. Ciazela, J., Dick, H.J.B., MacLeod, C.J., Blum, P., and the Expedition 360 Scientists (2016) IODP Expedition 360: First stage of drilling into Earth's Mantle [Ekspedycja IODP 360: Pierwszy etap odwiertu do plaszcza Ziemi]. *Przeglad Geologiczny.* 64, (11) pp. 889-895

44. **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 (4), art. no. 38, 12 p. DOI: 10.1007/s00410-015-1194-8
45. **Sanfilippo, A**., Morishita, T., Kumagai, H., Nakamura, K., Okino, K., Hara, K., Tamura, A., Arai, S. (2015). Hybrid troctolites from mid-ocean ridges: Inherited mantle in the lower crust. Lithos, 232, pp. 124-130.DOI: 10.1016/j.lithos.2015.06.025
46. **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 Trip, DOI: 10.1002/2014GC005563.
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