

LIST OF PUBLICATIONS

Bruna Borges Carvalho (Carvalho, B. B.)

PEER REVIEWED ARTICLES

As first author:

Carvalho, B.B. & Janasi, V.A., 2012. Crystallization conditions and controls on trace element residence in the main minerals from the Pedra Branca Syenite, Brazil: an electron microprobe and LA-ICPMS study. **Lithos** 153, 208-223.

<https://doi.org/10.1016/j.lithos.2012.05.003> (citations: 13)

Carvalho, B.B.; Janasi, V.A. & Henrique-Pinto, R. 2014. Geochemical and Sr-Nd-Pb isotope constraints on the petrogenesis of the K-rich Pedra Branca Syenite: implications for the Neoproterozoic post-collisional magmatism in SE Brazil. **Lithos** 205, 39-59.

<https://doi.org/10.1016/j.lithos.2014.06.016> (citations: 13)

Carvalho, B.B.; Sawyer, E.W. & Janasi, V.A. 2016. Crustal reworking in a shear zone: transformation of metagranite to migmatite.

Journal of Metamorphic Geology 34, 237-264. <https://doi.org/10.1111/jmg.12180> (citations: 45)

Carvalho, B.B.; Janasi, V.A. & Sawyer, E.W. 2017. Evidence for Paleoproterozoic anatexis and crustal reworking of Archean crust in the São Francisco Craton, Brazil: A dating and isotopic study of the Kinawa migmatite. **Precambrian Research** 291, 98-118.

<https://doi.org/10.1016/j.precamres.2017.01.019> (citations: 24)

Carvalho, B.B.; Sawyer, E.W. & Janasi, V.A. 2017. Enhancing Maficity of Granitic Magma during Anatexis: Entrainment of Infertile Mafic Lithologies. **Journal of Petrology** 58, 1333-1362. <https://doi.org/10.1093/petrology/egx056> (citations: 11)

Carvalho, B.B., Bartoli, O., Ferri, F., Cesare, B., Ferrero, S., Remusat, L., Capizzi, L. & Poli, S. 2019 Anatexis and fluid regime of the deep continental crust: new clues from melt and fluid inclusions in metapelitic migmatites from Ivrea Zone (NW Italy). **Journal of Metamorphic Geology** 37, 951-975.

<https://doi.org/10.1111/JMG.12463> (citations: 12)

Carvalho, B.B., Bartoli, O., Cesare, B., Tacchetto, T., Gianola, O., Ferri, F., Aradi, L.E., Szabó, C. 2020. Primary CO₂-bearing fluid inclusions in granulitic garnet usually do not survive. **Earth and Planetary Science Letters** 536, 116170.

<https://doi.org/10.1016/j.epsl.2020.116170> (citations: 4)

As a co-author:

Henrique-Pinto, R; Janasi, V.A; **Carvalho, B.B.**; Calado, B.O. & Grohmann, C.H.; 2014. Integrated Geological Map of the São Roque Domain, North of São Paulo City – Brazil. **Journal of Maps** <https://doi.org/10.1080/17445647.2014.883338> (citations: 4)

Henrique-Pinto, R.; Janasi, V.A.; Tassinari, C.C.G.; **Carvalho, B.B.**; Cioffi, C.R. & Stríkis, N.M. 2015 Provenance and sedimentation environments of São Roque Group, Brazil: contributions from petrography and geochemistry of metasediments. **Journal of South America Earth Sciences** 63, 191-207. <https://doi.org/10.1016/j.jsames.2015.07.015> (citations: 6)

Ou, Q., Lai, J.-Q., **Carvalho, B.B.**, Zi, F., Kong, H., Li, B., Jiang, Z.-Q., 2018. Different response to Middle Paleozoic magmatism during intracontinental orogenic processes: Evidence from southeastern South China Block. **International Geology Review** 61, 1504-1521.

<https://doi.org/10.1080/00206814.2018.1522518> (citations: 6)

Henrique-Pinto, R., Guilmette, C., Bilodeau, C., Stevenson, R., **Carvalho, B.B.**, 2019. Petrography, geochemistry and Nd systematics of metaconglomerates and matrix-rich metasedimentary rocks: Implications on provenance and tectonic setting of the Labrador Trough, Canada. **Canadian Journal of Earth Sciences** 56, 672-687.

<https://doi.org/10.1139/cjes-2018-0187> (citations: 2)

Liu, Z., Tong, L., Bartoli, O., **Carvalho, B.B.**, Li, C. 2020. Low-pressure Granulite-facies Metamorphism in The Southern Chinese Altay Orogenic Belt, NW China: P-T Estimates, U-Pb Ages And Tectonic Implications in Geochemistry. **Geochemistry** **80**, 125603. <https://doi.org/10.1016/j.chemer.2020.125603>

Liu, Z., Bartoli, O., Tong, L., **Carvalho, B.B.**, Xu, Y.-G., Gianola, O., Li, C. 2020. Anatexis and metamorphic history of Permian pelitic granulites from the southern Chinese Altay: constraints from petrology, melt inclusions and phase equilibria modelling. **Lithos** **360-361**, 105432. <https://doi.org/10.1016/j.lithos.2020.105432> (citations: 3)

Ou, Q., Lai, J.-Q., **Carvalho, B.B.**, Zi, F., Jiang, Z.-Q., Liu, Y.-Z., 2021. Early Silurian granitic rocks and associated enclaves as evidence of rapid cooling in cognate magma system: the case of the Xuehuading-Panshanchong pluton, South China Block. **Geological Magazine**.

Bartoli, O. & **Carvalho, B.B.** (2021). S-type granites in their source region: experiments, thermodynamic modeling and nanogranitoids. **Lithos**. <https://doi.org/10.1016/j.lithos.2021.106046>

ABSTRACTS AT CONFERENCES (SELECTED)

Carvalho, B.B., Bartoli, O., Satish-Kumar, M., Kawakami, T., Hokada, T., Gilio, M., Alvaro, M., Cesare, B. 2021. Generation of highly silicic magmas at ultra-high temperature conditions: evidence from melt inclusions in peritectic garnet. In: EGU virtual 2021.

March, S., Tamblyn, R., Hand, M., **Carvalho, B.B.**, Clark, C. 2021 Timescales of continental subduction: Constraints from ultrahigh-pressure metapelites in the Western Gneiss Region, Norway. In: EGU virtual 2021.

Carvalho, B.B. Fate of CO₂-bearing fluids trapped in granulites – old perspectives and new insights. Metamorphic Studies Group (40th anniversary) Research in Progress Meeting (virtual) (**oral presentation solicited**)

Carvalho, B.B., Bartoli, O.; Cesare, B.; Tacchetti, T.; Gianola, O.; Ferri, F.; Aradi, L. E.; Szabó, C. Fluids during (ultra)-high temperature metamorphism: new perspectives and changes in paradigm. In: AGU, 2020, online. (**oral presentation solicited**)

Carvalho, B.B., Bartoli, O.; Cesare, B.; Tacchetti, T.; Gianola, O.; Ferri, F.; Aradi, L. E.; Szabó, C. Fluids during (ultra)-high temperature metamorphism: new perspectives and changes in paradigm. EMC 2020, Krakow, Poland (**oral presentation solicited – postponed to 2021 due to Covid-19**)

Carvalho, B.B.; Bartoli, O.; Cesare, B.; Tacchetti, T.; Gianola, O.; Ferri, F.; Aradi, L. E.; 2019. Fate of primary COH fluid inclusions in garnet from high-grade rocks. In: SIMP-SGI 2019, Parma, Italy (*oral presentation*).

Carvalho, B.B.; Bartoli, O.; Ferri, F.; Cesare, B.; Ferrero, S.; Remusat, L.; Capizzi, L. S.; Poli, S.; 2019. Melt and fluid inclusions in migmatites: unravelling anatexis and fluid regime of the deep crust. In: EGU 2019, Vienna, Austria. (**oral presentation solicited**)

Bartoli, O.; Acosta-Vigil, A.; **Carvalho, B.B.**; Cesare, B.; Ferri, F.; Gianola, O.; Tacchetti, T.; 2018. Changing the viewpoint: entrapment of melt inclusions upon heating. In: AGU 2018, Washington, USA.

Carvalho, B.B.; Bartoli, O.; Ferri, F.; Cesare, B.; Ferrero, S.; Remusat, L.; Capizzi, L. S.; Poli, S.; 2018. Melt inclusions from the deep continental crust: recovering the starting composition of crustal melts. In: AGU 2018, Washington, USA.

Carvalho, B.B.; Bartoli, O.; Ferri, F.; Cesare, B.; Ferrero, S.; Capizzi, L. S.; Poli, S.; 2018. Melt and fluid inclusions in metapelitic migmatites from Ivrea Zone: anatexis and fluid regime of a high-grade terrane. In: Granulites & Granulites 2018, Ullapool, Scotland (*oral presentation*).

Carvalho, B.B.; Sawyer, E.W.; Janasi, V.A.; 2017. From anatectic melt to granite magma: enhancing maficity by assimilating mafic rocks at the source. In: Goldschmidt, Paris, France (*oral presentation*).

Janasi, V.A.; Martins, L.; Alves, A.; Henrique-Pinto, R.; **Carvalho, B.B.**; Andrade, S.; 2016. Datação U-Pb e isotopia H fem zircao herdado de granitos do SE brasileiro: implicacoes petrologicas e tectonicas. Anais: as geotecnologias e o seculo XXI, Congresso Brasileiro de Geologia, Sao Paulo, Brazil.

Carvalho, B.B.; Sawyer, E.W.; Janasi, V.A.; 2016. The connection between crustal reworking and petrological diversity in the deep crust: clues from migmatites. In: EGU (European Geosciences Union General Assembly), Vienna, Austria (*oral presentation*).

Henrique-Pinto, R., Janasi, V.A., Martins, L., **Carvalho, B.B.** 2015. Petrogenesis of the syn-orogenic calc-alkaline magmatism in the Agudos Grandes Batholith, SE Brazil. In: VIII Hutton Symposium on Granites and Related Rocks, 2015, Florianopolis, Brazil. Abstracts Book with Attendees Addresses.

Carvalho, B.B.; Sawyer, E.W.; Janasi, V.A.; 2015. Controls on the geochemistry of leucogranites produced by water-fluxed melting of a granitic protolith In: VIII Hutton Symposium on Granites and Related Rocks, 2015, Florianopolis, Brazil. Abstracts Book with Attendees Addresses (*oral presentation*).

Henrique-Pinto, R., Janasi, V.A., Barnes, S.-J., **Carvalho, B.B.**, Tassinari, C.C.G., Basei, M.A.S. 2014. Provenance and tectonic setting of Proterozoic metasedimentary sequences of the São Roque Domain, Ribeira Fold Belt, Brazil: a combination of whole-rock geochemistry, Sm-Nd isotopic systematics and detrital zircon U-Pb geochronology. In: European Geosciences Union General Assembly, 2014, Vienna, Austria.

Carvalho, B.B.; Sawyer, E.W.; Janasi, V.A.; 2014. Melting granites to make granites. In: EGU (European Geosciences Union General Assembly), Vienna, Austria (*oral presentation*).