

Bernardo Cesare - Curriculum Vitae (September 2024)

Date of birth: 12.08.1963 at Chirignago, Venice, Italian national. Married, two daughters.

Education and Professional Career

2011 Full Professor of Petrography and Petrology, Geosciences Department, University of Padua, Italy (UniPD)

2001 - Associate Professor, Geosciences Department, UniPD

1993 - Lecturer in Petrography, Mineralogy Department, UniPD

1992 PhD in Earth Sciences.

1987 Degree cum laude in Geological Sciences

Research training abroad

1997: 2 months at C.N.R.S., Clermont-Ferrand (France): experiments on the low-pressure partial melting of graphitic metapelites. In collaboration with Max W. Schmidt.

1993: 3 months at Dept. Geol. Geophys. Sci., Princeton, NJ (USA): fluid inclusion study, microthermometry and petrology of andalusite-bearing veins from the eastern Alps, Italy. In collaboration with Lincoln S. Hollister.

1990-1991: 7 months stay at ETH-Zurich (CH). Metamorphic petrology of graphitic pelites. In collaboration with Volkmar Trommsdorff and James A.D. Connolly.

Scientific Areas

The research activity of Bernardo Cesare concentrates on:

- Metamorphic Petrology
- Low-Pressure – High-Temperature metamorphism and anatexis of metapelites
- Melt inclusions (*Nanogranites*) in anatectic metapelites
- Fluid inclusion studies and fluid-rock interactions during partial melting of graphitic pelites
- Petrologic Mineralogy: studies on garnet, biotite, Al₂SiO₅ polymorphs, cordierite, staurolite and graphite
- Alpine Pressure-Temperature evolution and geochronology in the rocks south of the Tauern Window
- Geology and geochronology in the Eastern Alps (Italy) and in the Betic Cordillera (Spain)
- Science and Art through rock photomicrography

Research papers

>95 papers (>40 as first author), 87 of which in Scopus, h-index: 38, >4200 citations

3 volumes as (co)Editor

>190 presentations at congresses and workshops (>120 international)

Invited Contributions

Invited Seminars at: Stockholm (2023), Heidelberg, D (2022), Catania (2021), Bern, CH (2020), Potsdam, D (2020), Pavia (2019), Open University, UK (2019), Cambridge, UK (2019), Niigata, JP (2019), Modena (2018), Budapest, HU (2017), Monaco, D (2016); Portsmouth, UK (2016); NHM London, UK (2014); MHN Paris, F (2014), Boulder, CO (2014); UPMC Paris, F (2013); Curtin, Perth, AU (2012); Univ. Maryland, MD (2011); Princeton, NJ (2011), Berlin, D (2002, 2010), Granada, ES (2001, 2006, 2011), ETH-Zurich, CH (2002, 2007, 2012).

Invited Talks at GSA (Philadelphia, USA, 2006); AGU (San Francisco, USA, 2006); GSA (Portland, 2009); IMA (Budapest, 2010); Goldschmidt (Montreal, CA, 2012); Granulites and Granulites (Hyderabad, IN, 2013); MinPet (Graz, A, 2013, *keynote*); DMGV (Tubingen, Germany, 2013, *Plenary Lecture*); EGU (Vienna, A,

2014); Goldschmidt 2014 (Sacramento, USA, 2014), Granulites & Granulites (Ullapool, UK, 2018, *keynote*); JSPS-DST (Niigata, Japan, 2019, *keynote*); Microscopy Conference 2021 (Vienna, A, 2021).

Invited Talks at workshops ESF (Turku, FI, 1999); Euromargins (Bologna, 2006); IVSLA (Venice, 2009).

Invited Lectures at advanced Schools: GNM (Ponza, 1997); GNP (Asiago, 1997; Pavia, 1998); SFMC-SIMP (Pavia, 2002); ISPET (Granada, E, 2004; Canberra, AU, 2005); Eurispet (Budapest, H, 2008); GAC-MAC (Quebec City, CA, 2008), Eurispet (Padova, 2010).

Expertise in Research Management

Coordinator or P.I. of projects:

- *Crustal Anatexis in Nature and Experiments*, (1998-2000) funded by UniPD
- *Subsolidus processes in rocks and materials* (1999-2001) funded by C.N.R.
- *Crustal Melting in the thinned margin of the Alboràn basin* within the WESTMED Euromargins Eurocore (2004-2006) funded by C.N.R. through the European Science Foundation.
- *Petrologic study of fluid-melt-rock interactions during the anatexis of graphitic metapelites* (2005-2007) funded by MIUR
- *Crustal Anatexis: Natural evidence, Experiments and Modelling* (2008-2010) funded by MIUR
- *Geodynamic and geochemical control on magma genesis and differentiation: implications for the evolution of the Europe-Africa convergence* (2012-2015) funded by MIUR
- *Il metamorfismo di HP/UHP e HT in Antartide: una chiave per ricostruire l'evoluzione dei vecchi continenti dal continente Mawson fino al supercontinente Gondwana*. Funded by C.N.R. PNRA (2015-2016)
- *Making continental crust: a novel micro-scale perspective through Earth's history (MAKEARTH)*. Funded by Ca.Ri.Pa.Ro. (2016-2018)
- *Nanogranite*. Marie Curie IOF Project funded by European Commission (2016-2018)
- *3D reconstruction of the shape of solid inclusions in garnet* (2019) TOMCAT SLS beamtime funded by PSI (CH)
- *The Dynamic Mass Transfer from Slabs to Arcs – Dynastars* (2018-2021) funded by MIUR-PRIN
- *Uncovering and mapping silica crystallinity in diatom frustules: biological interpretation and physical implications* (2022) Micro-XAS SLS beamtime funded by PSI (CH)
- *Nano-focus on metamorphic garnet – NanoMeGa* (2023-2025) funded by MIUR-PRIN

Scientific Prizes and Honors

Prize "Oxilia", of *Società Geologica Italiana* for the period 1989-1990

Prize "Bianchi", of *Società Italiana di Mineralogia e Petrologia* for the period 1994-1995

Prize "Tartufari", of *Accademia Nazionale dei Lincei*, 2012

Fellow, *Geological Society of America*, from 2013

Fellow, *Mineralogical Society of America*, 2017

Fellow, *Royal Microscopical Society*, from 2009

Fellow, *Royal Photographic Society*, from 2017

Member, *Istituto Veneto di Scienze Lettere e Arti*, from 2008

Member, *Accademia Nazionale dei Lincei*, from 2022

Member, *Accademia Europaea*, from 2023

Affiliations

Società Italiana di Mineralogia e Petrologia (1990-)

Società Geologica Italiana (2014-)

Mineralogical Society of America (1992-)

Geological Society of America (2006-)

Mineralogical Association of Canada (2008-2013)

Royal Microscopical Society (2009-)
Royal Photographic Society (2015-2022)

Services for Societies/Academy

President, *Società Italiana di Mineralogia e Petrologia* (2014-2015)
Member, Mineralogy/Petrology Research Grant Committee, *Mineralogical Society of America* (2006-2008)
Member, *Annual Program Committee*, Geological Society of America (2013-2016)
Member, *Urey Award Committee*, European Association of Geochemistry (2014-2017)
Member, *MSA Award Committee*, Mineralogical Society of America (2018-2020)
Member, *The Barrow Award* judging panel, Metamorphic Studies Group (2020)
President, Committee for appointing the Director of *Istituto di Geoscienze e Georisorse of CNR – Pisa*. (2024).
Member, evaluation Committee of Uppsala University's Faculty of Science and Technology (2024).
Referee, *Professor recruiting/promotion Committees*, Uppsala University, Sweden (2019); Carleton University, Canada (2020); IIS Bangalore, India (2021); IIT Kanpur, India (2022); Stockholm University, Sweden (2022); University of Otago, New Zealand (2022), University of Wien, Austria (2023).

Organization of Scientific Meetings

(co)Chair of Meetings:

- *Granulites&Granulites 2024*, Verbania (Italy)
- *European Mineralogical Conference 2016*. Rimini, Italy, 11-15 September 2016
- *Il Pianeta Dinamico*. Joint Meeting SIMP-SGI-AIV-SoGel, Firenze, Italy, 2-4 September 2015
- *The Future of the Italian Geosciences of the Future*. Joint Meeting SIMP-SGI, Milano, Italy, 10-12 September 2014

Coordinator of the Theme *Crustal differentiation and specialization*. Goldschmidt 2017 (Paris, France)

Member of the Scientific Committee:

- Xth "*Hutton Symposium on Granites and Related Rocks*" (Baveno, I, 2023)
- "*The Geoscience paradigm*" Joint Meeting SIMP-SGI-SOGEL-AIV (Potenza, I, 2023)

Co-Convenor of symposia, sessions and workshops:

- *Geochemical and geodynamical processes of the lithosphere based on fluid, silicate, carbonatite, and sulfide melt inclusions of the upper mantle and crust* (session in honor of Dr. Csaba Szabó). Goldschmidt (Lyon, 2023)
- *(Ultra)high-temperature metamorphism, crustal anatexis and granite formation*. Emc2020 (Krakow, PL)
- *Fifty Years of Innovation in Petrology and Orogenic Systems: A Tribute to Lincoln Hollister*. GSA 2016 (Denver, CO)
- *Metamorphic Petrology: New Approaches and Outcomes*. GSA 2015 (Baltimore, MD)
- *Quantification of Metamorphic Processes and the Thermo-Tectonic Evolution of Orogens*. Goldschmidt 2013 (Florence, I)
- *Applying Phase Equilibria Modelling to Rocks* Goldschmidt 2013 (Florence, I).
- *Crustal Melting*, IGC 2012 (Brisbane, AU)
- *Volatiles in minerals and their petrologic implications*, *Frontiers in Mineral Sciences* 2007 (Cambridge, UK)
- *Melting and the rheology of the crust and upper mantle: what significance for geodynamics?* IGC, 2004 (Florence, Italy)
- *Deciphering metamorphic processes*, EUG10 (Strasbourg, France, 1999)

Invited member at the ESF Workshop *Restite-melt and solid-vapour back reactions* (Turku, Finland, 1999)

Member of Advisory Board of 18 ECROFI (European Current Research on Fluid Inclusions) Meeting, Siena 2006

Lecturer at "Working with Migmatites", GAC-MAC "Quebec2008", Canada

Editorial Activity

Editor of *Journal of Metamorphic Geology* (2019-)

Member of the Advisory Editorial Board of *Journal of Petrology* (2019-)

Associate Editor of *European Journal of Mineralogy* (2013-)

Member of the Editorial Review Board of *Journal of Metamorphic Geology* (2006-2016)

Member of the Executive Committee, *Elements* (2012-2013)

Member of the Editorial Board of *Periodico di Mineralogia* (2004-08)

Guest Editor of the special Volume of *Periodico di Mineralogia*: "A showcase of the Italian research in metamorphic petrology" (2004)

Guest Editor of the special Volume of *Elements*: "When the Continental Crust melts" (Vol. 7(4), 2011).

Referee for: *African J. Earth Sci.*, *American Mineralogist*, *Compt. Rend. Acad. Sci.*, *Comput. Geosci*, *Contrib. Mineral. Petrol.*; *EPSL*; *Elements*, *Eur. J. Mineral.*, *Geochim. Cosmochim. Acta*, *Geology*, *Geol. Mag.*, *Geol. Mat. Res.*, *Geophys. Res. Lett.*, *Iranian J. Sci. Tech.*, *Int. J. Earth Sci.*, *J. African Earth Sci.*, *J. Geol. Soc. London*, *J. Metam Geol.*, *J. Petrology*, *Lithos*, *Miner. Depos.*, *Min. Mag.*, *Nature Communications*, *Nature Sci. Rep.*, *Phys. Chem. Earth.*, *Proceed. O.D.P.*, *SMPM*, *Terra Nova*.

Reviewing of Research Projects

Referee for: CIVR, Italy; European Science Foundation; MIUR-PRIN, Italy; National Research Foundation of South Africa; Università di Siena, Italy, progetti di Ateneo Padova, Italy; RCSA, USA; BLANC, France; Swiss National Science Foundation; National Science Center, Poland; Estonian Research Council, Estonia.

Member of the ASN – Abilitazione Scientifica Nazionale Committee (2016-2018)

Teaching and Training of Research

Director of the Bachelor's and Master's Degree in Geological Sciences at UniPD (2013-2020)

Director of the PhD School in Earth Sciences at the UniPD (2004-2007)

Supervisor or co-supervisor of 7 PhD and 8 postDocs

Coordinator of the FP6 Marie Curie Series of Events "*EURISPET*" - *European Intensive Seminars of Petrology* and Coordinator of the *ISPET* project (MIUR Interlink) for international teaching of metamorphic petrology at PhD level. Combined, the two series of events organized 11 international intensive Seminars in petrology in the period 2003-2010.

With a budget from the European Commission of € 450.000, the Eurispet series of Seminars run six Schools:

* 2007 State-of-the-art analytical and imaging techniques applied to petrology (Institut de Physique du Globe de Paris, France)

* 2008 Isotopes applied to petrological problems (Australian National University, Canberra, Australia)

* 2008 Petrology of the lithosphere in extensional settings (University of Budapest, Hungary)

* 2009 High-pressure metamorphism and subduction zones (University of Granada, Spain)

* 2010 High-temperature metamorphism and crustal melting (University of Padua, Italy)

* 2010 Experimental petrology and rock deformation (ETH, Zurich, Switzerland).

Eurispets was attended by >210 early career researchers and >110 internationally recognised scholars from 45 countries in 5 continents, and was recognised worldwide as one of the most relevant training actions in Earth Sciences of that decade.

Co-coordinator of the Winter School "*Understanding deep crustal processes*" jointly organized by the Universities of Padua and Lausanne (30 Jan – 2 Feb 2023).

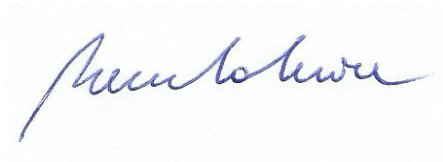
Public Dissemination of Science

Bernardo Cesare, ASIS FRPS, is also an award-winning microphotographer specialized in artistic photography of rocks and minerals under a polarizing microscope. His images explore the intersection between geology and art and communicate geological histories and information with the help of their aesthetic impact.

Cesare's rock photomicrographs have been displayed in photo galleries, at mineralogical and scientific exhibits and in Natural Sciences Museums in Italy, France, Germany, Hungary, Poland, Spain, Switzerland, UK and USA, and published in photographic and popular magazines, and in geological journals.

In 2009 he starts the MicROCKScopica - Rock Art project (www.microrockscopica.org).

Padova, June 15, 2023

A handwritten signature in blue ink, reading "Bernardo Cesare", written in a cursive style.

Full List of Scientific Contributions

The list below is complemented by over 170 presentations at congresses and workshops >120 international)

Papers in peer-reviewed journals:

1. Cesare B., Martin S. e Zaggia L. (1989): "Mantle peridotites from the Austroalpine Mont Mary nappe (Western Alps)", *Schweizerische Mineralogische and Petrographische Mitteilungen*, vol. 69, pp. 61-69.
2. Canepa M., Castelletto M., Cesare B., Martin S. e Zaggia L. (1990): "The Austroalpine Mont Mary nappe (Italian Western Alps)", *Memorie di Scienze Geologiche*, vol. 42, pp. 1-17.
3. Cesare B. (1992) Metamorfismo di contatto di rocce pelitiche nell'aureola di Vedrette di Ries (Alpi Orientali, Italia). *Atti Ticinensi di Scienze della Terra*, 35; 1-7.
4. Cesare B. (1992) Contact metamorphism of pelitic rocks in the aureole of the Vedrette di Ries intrusion (eastern Alps - Italy) Riassunto Tesi di Dottorato, *Plinius* (Suppl. It. European Journal of Mineralogy), 7, 37-42
5. Connolly J. and Cesare B. (1993) C-O-H-S fluid composition and oxygen fugacity in graphitic metapelites. *Journal of Metamorphic Geology*, 11, 379-388.
6. Cesare B. (1994) Hercynite as the product of staurolite decomposition in the contact aureole of Vedrette di Ries, eastern Alps, Italy. *Contributions to Mineralogy and Petrology*, 116, 239-246.
7. Cesare B. (1994) Synmetamorphic veining: origin of andalusite-bearing veins in the Vedrette di Ries contact aureole, Eastern Alps, Italy. *Journal of Metamorphic Geology*, 12, 643-653.
8. Cesare B. and Grobety B. (1995) Epitaxial replacement of kyanite by staurolite: a TEM study of the microstructures. *American Mineralogist*, 95, 78-86.
9. Cesare B. Hollister L.S. (1995) Andalusite-bearing veins at Vedrette di Ries (Eastern Alps - Italy): fluid phase composition based on fluid inclusions. *Journal of Metamorphic Geology*, 13, 687-700.
10. Cesare B. (1995) Graphite precipitation within C-O-H fluid inclusions: closed-system chemical and density changes, and thermobarometric implications. *Contributions to Mineralogy and Petrology*, 122, 25-33.
11. Cesare B., Salvioli Mariani E., Venturelli G. (1997) Crustal anatexis and melt extraction in the restitic xenoliths at El Joyazo (SE Spain). *Mineralogical Magazine*, 61. 15-27.
12. Pennacchioni G. Cesare B. (1997) Ductile-brittle transition in pre-Alpine amphibolite facies mylonites during evolution from water-present to water-deficient conditions (Mont Mary nappe, Italian Western Alps). *Journal of Metamorphic Geology*, 15, 777-791.
13. Cesare B. Maineri C. (1999) Fluid-present anatexis of metapelites at El Joyazo (SE Spain): constraints from raman spectroscopy of graphite. *Contributions to Mineralogy and Petrology*, 135, 41-52.
14. Cesare B. (1999) Multi-Stage pseudomorphic replacement of garnet during polymetamorphism: Microstructures and their interpretation. *Journal of Metamorphic Geology*, 17, 723-734.
15. Cesare B. (1999) Multi-Stage pseudomorphic replacement of garnet during polymetamorphism: 2. algebraic analysis of mineral assemblages. *Journal of Metamorphic Geology*, 17, 735-746.
16. Cesare B. (2000) Incongruent melting of biotite to spinel in a quartz-free restite at El Joyazo (SE Spain): Textures and reaction characterization. *Contributions to Mineralogy and Petrology*, 139: 273-284.
17. Cesare B. Gomez-Pugnaire M.T. (2001) Crustal melting in the Alborán domain: constraints from the xenoliths of the Neogene Volcanic Province. *Physics and Chemistry of the Earth*, Part A, 26/4-5, 255-260.

18. Cesare B., Poletti E., Boiron M-C. Cathelineau M. (2001) Alpine metamorphism and veining in the Zentralgneis Complex of the SW Tauern Window: a model of fluid-rock interactions based on fluid inclusions. *Tectonophysics*, 336, 121-136.
19. Cesare B. Rubatto D., Hermann J. Barzi L. (2002) Evidence for Late Carboniferous subduction-type magmatism in mafic-ultramafic cumulates of the SW Tauern Window (Eastern Alps). *Contributions to Mineralogy and Petrology*, 142, 449-464.
20. Cesare B. Marchesi C. Connolly J.A.D. (2002) Growth of myrmekite coronas by contact metamorphism of granitic mylonites in the aureole of Cima di Vila (eastern Alps - Italy). *Journal of Metamorphic Geology*, 20, 203-213.
21. Cesare B., Gomez-Pugnaire M.T., Sanchez-Navas A. Grobety B. (2002) Andalusite - sillimanite replacement (Mazarrón - SE Spain): microstructural and TEM study. *American Mineralogist*, 87, 433-444.
22. Cesare B., Cruciani G. and Russo U. (2003) Hydrogen deficiency in titanium-rich biotite from anatectic metapelites (El Joyazo - SE Spain): implications for high-temperature petrogenesis *American Mineralogist*, 88, 583-595.
23. Cesare B., Marchesi C., Hermann J. and Gomez-Pugnaire M.T. (2003) Primary melt inclusions in andalusite from anatectic graphitic metapelites: Implications for the position of the Al₂SiO₅ triple point. *Geology*, 31, 7, 573-576.
24. Cesare B., Gomez-Pugnaire M.T., Rubatto D. (2003) Residence time of S-type anatectic magmas beneath the Neogene Volcanic Province of SE Spain: a zircon and monazite SHRIMP study. *Contributions to Mineralogy and Petrology*, 146: 28-43.
25. Burlini L.; Cesare B.; Mazzoli C.; Meli S.; Peruzzo L.; Sassi R.; Spiess R.; Sassi F.P. (2003). Standardized operational procedures for the project "Composition and evolution of the continental crust, with special regard to the Italian crystalline basements". In F.P. Sassi (Ed.) The abundance of 55 elements and petrovolumetric models of the crust in 9 type areas from the crystalline basements of Italy, with some geophysical and petrophysical data. *Accademia Nazionale delle Scienze detta dei XL, Scritti e Documenti*, vol. 32 pp. 23-34.
26. Mazzoli C.; Sassi R.; Burlini L.; Cesare B.; Peruzzo L.; Spiess R.; Sassi F.P. (2003). The abundance of 55 elements and petrovolumetric models of the crust in the Aurina and Pusteria valleys (site 4). In F.P. Sassi (Ed.) The abundance of 55 elements and petrovolumetric models of the crust in 9 type areas from the crystalline basements of Italy, with some geophysical and petrophysical data. *Accademia Nazionale delle Scienze detta dei XL, Scritti e Documenti*, vol. 32 pp. 197-251.
27. Sassi F.P., Cesare B., Mazzoli C., Peruzzo L., Sassi R. and Spiess R. (2004) The crystalline basements of the Italian eastern Alps: a review of the metamorphic features. *Periodico di Mineralogia*, vol. 73, 23-42.
28. Frezzotti M.L., Cesare B. and Scambelluri M. (2004) Fluids at extreme P-T metamorphic conditions: the message from high-grade rocks. *Periodico di Mineralogia*, vol. 73, 209-219.
29. Clarke, D.B., Dorais, M., Barbarin, B., Barker, D., Cesare, B., et al. (2005) Occurrence and Origin of Andalusite in Peraluminous Felsic Igneous Rocks. *Journal of Petrology*, 46, 441-472.
30. Cesare B., Meli S., Nodari L., Russo U. (2005) Fe³⁺ reduction during biotite melting in graphitic metapelites: another origin of CO₂ in granulites. *Contributions to Mineralogy and Petrology*, 149, 129-140.
31. Alvarez-Valero A.M., Cesare B., Kriegsman L. (2005) Formation of elliptical garnets in a metapelitic enclave by melt-assisted dissolution and reprecipitation. *Journal of Metamorphic Geology*, 23, 65-74.
32. Tarolli, P., Borga, M., Cesare, B., Zanon, F., Tollardo, M., Macconi P.P. (2006) Innesco di frane superficiali durante eventi di precipitazione brevi ed intensi in zone alpine. *Quaderni di Idronomia Montana*, 26, 95-112.
33. Cesare B., Maineri C., Baron Toaldo A., Pedron D. and Acosta Vigil A. (2007) Immiscibility between

- carbonic fluids and granitic melts during crustal anatexis: a fluid and melt inclusion study in the enclaves of the Neogene Volcanic Province of SE Spain. *Chemical Geology*, 237, 433-449.
34. Acosta-Vigil A., Cesare B., London D., Morgan G.B.VI (2007) Microstructures and composition of melt inclusions in a crustal anatectic environment: the metapelitic enclaves within El Hoyazo dacites, SE Spain. *Chemical Geology*, 237, 450-465.
 35. Ferri, F., Burlini, L., Cesare, B., Sassi R. (2007) Seismic properties of lower crustal xenoliths from El Hoyazo (SE Spain): experimental evidence up to partial melting. *Earth and Planetary Science Letters*, 253; 239-253.
 36. Alvarez-Valero A.M., Cesare B., Kriegsman L. (2007) Formation of spinel-cordierite-feldspars-glass coronas after garnet in metapelitic xenoliths. Reaction modelling and geodynamic implications. *Journal of Metamorphic Geology*, 25, 305-320.
 37. Cesare, B., Satish-Kumar, M., Cruciani, G., Pocker, S., Nodari (2008) Mineral chemistry of Ti-rich biotite from pegmatite and metapelitic granulites of the Kerala Khondalite Belt (SE India): Petrology and further insight into titanium substitutions. *American Mineralogist*, 93, 327-338
 38. Cesare B. (2008) Crustal melting: working with enclaves. *Mineralogical Association of Canada Short Course 38*, Quebec City, Quebec, p. 37-55.
 39. Acosta-Vigil, A., Buick, I., Hermann, J., Cesare, B. and Rubatto D. (2008) Mechanisms and kinetics of crustal anatexis from a LA-ICP-MS study of partially melted metapelitic enclaves and host El Hoyazo dacite, SE Spain. *Geotemas*, 10, 1369-1372. (ISSN: 1567-5172)
 40. Cesare B., Rubatto D., Gómez-Pugnaire M.T. (2009) Do extrusion ages reflect magma generation processes at depth? An example from SE Spain. *Contributions to Mineralogy and Petrology*, 157, 267-279.
 41. Perini G., Cesare B., Gómez-Pugnaire M.T., Ghezzi, S., Tommasini S. (2009) Armouring effect in decoupling Sr-Nd isotopes during disequilibrium crustal melting: the case study of frozen migmatites from El Hoyazo and Mazarrón, SE Spain. *European Journal of Mineralogy*, 21, 117-131.
 42. Tajcmanova L., Connolly JAD, Cesare B. (2009) A thermodynamic model for titanium and ferric iron solution in biotite. *Journal of Metamorphic Geology*, 27, 153-165
 43. Lavina B., Cesare B., Álvarez-Valero A.M., Uchida H., Downs R.T., Koneva A., Dera P. (2009) Closure temperatures of intracrystalline ordering in anatectic and metamorphic hercynite, $\text{Fe}^{2+}\text{Al}_2\text{O}_4$. *American Mineralogist*, 94, 657-665.
 44. Cesare B., Ferrero S., Salvioli-Mariani E., Pedron D. e Cavallo A. (2009) Nanogranite and glassy inclusions: the anatectic melt in migmatites and granulites. *Geology*, 37, 627-630.
 45. Della Ventura G., Bellatreccia F., Cesare B., Harley S. and Piccinini M. (2009) FTIR microspectroscopy and SIMS study of water-poor cordierite from El Hoyazo, Spain: Application to mineral and melt devolatilization. *Lithos*, 113, 498-506.
 46. Spiess, R., Cesare, B., Mazzoli C. e Sassi R. (2009) The crystalline basement of the Adria micro-plate. *Rendiconti online Soc. Geol. It.*, 9, 60-63.
 47. Cesare, B., Mazzoli C., Sassi, R., Spiess R. e Sassi F.P. (2009) Petrogenetic processes in the middle crust of the Eastern Alps. *Rendiconti online Soc. Geol. It.*, 9, 18-20.
 48. Acosta-Vigil A., Buick I., Hermann J., Cesare B., Rubatto D., London D., Morgan VI G.B. (2010) Mechanisms of Crustal Anatexis: a Geochemical Study of Partially Melted Metapelitic Enclaves and Host Dacite, SE Spain. *Journal of Petrology*, 51, 785-821.
 49. Cesare, B., Mazzoli C., Sassi, R., Spiess R. e Sassi F.P. (2010) Beauty and complexity of metamorphism: case studies from the frontal part of the Adria Micro-plate. *Rendiconti Lincei*, 21, S73-S94.
 50. Spiess, R., Cesare, B., Mazzoli C., Sassi R. e Sassi F.P. (2010) The crystalline basement of the Adria micro-plate in the Eastern Alps: a review of the palaeostructural evolution from the Neoproterozoic to the Cenozoic. *Rendiconti Lincei*, 21, S31-S50.

51. Cesare, B. and Acosta-Vigil, A. (2011) Using melt inclusions for understanding crustal melting processes. *McGraw-Hill Yearbook of Science & Technology*, 355-359.
52. Ferrero S., Bodnar R.J., Cesare B., Viti C. (2011) Re-equilibration of primary fluid inclusions in peritectic garnet from metapelitic enclaves, El Hoyazo, Spain. *Lithos*, 124, 117-131.
53. Cesare, B., Acosta-Vigil, A., Ferrero, S. and Bartoli, O. (2011) Melt inclusions in migmatites and granulites. In: (Eds.) Marnie A. Forster, and John D. Fitz Gerald, The Science of Microstructure - Part II, *Journal of the Virtual Explorer*, Electronic Edition, ISSN 1441-8142, volume 40, paper2.
54. Satish-Kumar M., Yurimoto H., Itoh S., Cesare B. (2011) Carbon isotope anatomy of a single graphite crystal in a metapelitic migmatite revealed by high-resolution SIMS analysis. *Contributions to Mineralogy and Petrology*, , 162, 821-834.
55. Holness, M.B., Cesare, B. & Sawyer, E.W. (2011) Melted rocks under the microscope: microstructures and their interpretation. *Elements*, 7, 245-250.
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