

Publication List - Dr. Jochen E. Mezger (as of October 2019)

Peer reviewed

1. Schnapperelle, S., Mezger, J. E., Stipp, M., Hofmann, M., Gärtner, A. & Linnemann, U.: Polyphase magmatic pulses along the Northern Gondwana margin: U-Pb zircon geochronology from gneiss domes of the Pyrenees. - *Submitted to Gondwana Research*.
2. Mezger, J.E. & Régnier, J.-L. (2016): Stable staurolite-cordierite assemblages in K-poor metapelitic schists in Aston and Hospitalet gneiss domes of the central Pyrenees (France, Andorra). - *Journal of Metamorphic Geology* 34, 167–190. doi: 10.1111/jmg.12177
3. Mezger, J.E. & Gerdes, A. (2016): Early Variscan (Visean) granites in the core of central Pyrenean gneiss domes: implications from laser ablation U-Pb and Th-Pb studies. *Gondwana Research* 29, 181–198. doi: 10.1016/j.gr.2014.11.010
4. Mezger, J.E., Felder, M. & Harms, F.-J. (2013): Crystalline rocks in the maar deposits of Messel: key to understand the geometries of the Messel Fault Zone and diatreme and the post-eruptional development of the basin fill. – *Zeitschrift der Deutschen Gesellschaft für Geowissenschaften* 164, 639–662.
5. Mezger, J. E., Schnapperelle, S. & Rölke, C. (2012): Evolution of the Central Pyrenean Mérens fault controlled by near collision of two gneiss domes. - *Hallesches Jahrbuch für Geowissenschaften* 34, 11–29.
6. Mezger, J. E. (2010): Rotation of irregular staurolite porphyroblasts in a simple shear dominated shear zone controlled by initial growth orientation and aspect ratio. - *Journal of Structural Geology* 32, 1147–1157. doi: 10.1016/j.jsg.2010.07.002
7. Mezger, J. E. (2010): Mimicking syntectonic growth: cordierite overgrowth of earlier rotated staurolite porphyroblasts, strain caps and deflected foliation. - *Journal of Structural Geology* 32, 703–708. doi: 10.1016/j.jsg.2010.04.012
8. Mezger, J. E. (2009): Transpressional tectonic setting during the main Variscan deformation: evidence from four structural levels in the Bossost and Aston-Hospitalet mantled gneiss domes, central Axial Zone, Pyrenees. - *Bulletin de la Société Géologique de France* 180, 199–207. doi: 10.2113/gssgfbull.180.3.199
9. Régnier, J.-L., Mezger, J. E. & Passchier, C. W. (2007): Metamorphism of Precambrian-Paleozoic schist of the Menderes core series and contact relationships with Proterozoic orthogneiss of the western Çine Massif, Anatolide Belt, western Turkey. - *Geological Magazine* 144, 67–104. doi: 10.1017/S0016756806002640
10. Mezger, J. E. (2005): Comparison of the western Aston-Hospitalet and the Bossost domes: Evidence for polymetamorphism and its implications for the Variscan tectonic evolution of the Axial Zone of the Pyrenees. - In: (eds.) Carosi, R., Dias, R., Iacopini, D. and Rosenbaum, G., The southern Variscan belt, *Journal of the Virtual Explorer* 19, Paper 6, Electronic Edition, ISSN 1441-8142 doi:10.3809/jvirtex.2005.00122 (<http://www.virtualexplorer.com.au/journal/2005/19>)
11. Mezger, J. E. & Passchier, C. W. (2004): Comment on "Identification of an underfilled foreland basin system in the Upper Devonian of the Central Pyrenees: implications for the Hercynian orogeny" by Souquet et al., *International Journal of Earth Sciences* 92, 316–337 (2003). - *International Journal of Earth Sciences* 93, 467–470. doi: 10.1007/s00531-004-0395-6
12. Mezger, J. E., Passchier, C. W. & Régnier, J.-L. (2004): Metastable staurolite–cordierite assemblage of the Bossost dome: late Variscan decompression and polyphase metamorphism in the Axial Zone of the central Pyrenees. *Comptes Rendus Geoscience* 336, 827–837. doi: 10.1016/j.crte.2003.12.024
13. Mezger, J. E. & Passchier, C. W. (2003): Polymetamorphism and ductile deformation of staurolite-cordierite schist of the Bossost dome: indication for Variscan extension in the Axial Zone of the central Pyrenees. *Geological Magazine* 140, 595–612. doi: 10.1017/S0016756803008112
14. Mezger, J. E. (2003): Geology of the Dezadeash Range and adjacent areas of the northern Coast Mountains (115A), southwestern Yukon: Re-examination of a terrane boundary. - In: *Yukon Exploration and Geology 2002* (edited by Emond, D. S. & Lewis, L. L.). Exploration and Geological Services Division, Yukon Region, Indian and Northern Affairs Canada, 149–163.
15. Mezger, J. E., Chacko, T. & Erdmer, P. (2001): Metamorphism along a late Mesozoic accretionary continental margin: a case study from the northern Coast Belt of the North American Cordillera. - *Journal of Metamorphic Geology* 19, 121–138. doi: 10.1046/j.0263-4929.2000.00300.x
16. Mezger, J. E., Creaser, R. A., Erdmer, P. & Johnston, S. T. (2001): A Cretaceous back arc basin in the Coast Belt of the northern Canadian Cordillera: evidence from geochemical and neodymium isotope characteristics of the Klunne metamorphic assemblage, southwest Yukon. *Canadian Journal of Earth Sciences* 38, 91–103. doi: 10.1139/cjes-38-1-91

17. Mezger, J. E. (2000): "Alpine-type" ultramafic rocks of the Kluane metamorphic assemblage, southwest Yukon: Oceanic crust fragments of a late Mesozoic back arc basin along the northern Coast Belt.- In: *Yukon Exploration and Geology 1999* (edited by Emond, D. S. & Weston, L. H.). Exploration and Geological Services Division, Indian and Northern Affairs Canada, Whitehorse, 127–138.

Conference abstracts

1. Schnapperelle, S., Mezger, J. E., Stipp, M., Hofmann, M., Gärtner, A. & Linnemann, U. (2019): Longlived pulsed magmatic intrusions along the Northern Gondwana margin revealed by Ordovician to Early Permian LA U-Pb geochronology of Central Pyrenean gneiss domes.- GeoMünster 2019, Münster, Germany, September 22-25, 2019, 77.
2. Mezger, J. E., Schnapperelle, S., Stipp, M., Hofmann, M., Gärtner, A. & Linnemann, U. (2019): Where does the heat come from? Continuous Paleozoic magmatic activity along the former northern Gondwana margin recorded in gneiss domes of the Central Pyrenees (western European Variscan belt).- Annual Meeting of the Geological Society of America, Phoenix, Arizona, September 21-25, 2019. Abstracts with Programs 51(5), paper 291-2.
3. Mezger, J. E., Hoffmann, R. & Bergermann, H. (2019): Tectonic origin of sheared belemnites from central Alaska confirmed by fluorescence, cathodoluminescence and trace element mapping.- Annual Meeting of the Geological Society of America, Phoenix, Arizona, September 21-25, 2019. Abstracts with Programs 51(5), paper 45-16.

from the Axial Zone of the Pyrenees.- In: Mechanics of Variscan Orogeny: a modern view on orogenic research, September 13-15, 2007, Orléans, France. *Géologie de la France* 2007/2: 136.

16. Felder, M., Mezger, J. E., Harms, F. J. & Wilde, V. (2007): Lake Messel the development of a volcanic basin.- *Limnogeology: tales of an evolving Earth*. 4th Limnogeology Congress Barcelona, Spain, July 11-14, 2007, Programme with abstracts book, 69.
17. Felder, M., Mezger, J. E., Harms, F. J. & Wilde, V. (2006): Lake Messel Origin and fate of a volcanic basin.- In: *Sediment 2006; abstracts and field trips* (June 6-11, 2006, Göttingen, Germany). - *Schriftenreihe der Deutschen Gesellschaft für Geowissenschaften* 45, 66.
18. Mezger, J. E., Passchier, C. W., Piaolo, S. & ten Grotenhuis, S. (2001): Emplacement of Gneiss Domes: an Integrated Study of Field work (Variscan Pyrenees) and Analogue Modelling. EUG 11, Strasbourg, France, April 8-12, 2001. *Journal of Conference Abstracts* 6, 618.
19. Mezger, J. E., Passchier, C. W., ten Grotenhuis, S. & Piaolo, S. (2001): Fabric development in gneiss domes and mantling metasedimentary rocks.- In: *Deformation Mechanisms, Rheology & Tectonics meeting*, April 2-4, 2001, Noordwijkerhout, Netherlands. 115.
20. Mezger, J. E., Passchier, C. W., ten Grotenhuis, S. & Piaolo, S. (2000): Evolution of gneiss domes: evidence from the Variscan Pyrenees (Southern France) and analogue model

Unpublished theses and mapping reports

1. Mezger, J. E. (1997): Tectonometamorphic evolution of the Kluane metamorphic assemblage, SW Yukon: evidence for late Cretaceous eastward subduction of oceanic crust undern