

Bibliometrical data: 44 peer-reviewed articles
total number of citation (ISI) 1075 (7 papers cited 50+ times)
h-index : 21

among my articles: 2 Science (1 as first author), 3 PNAS (1 as first author), 5 Phys. Rev. Lett. (2 as first author), 2 Sci. Rep. (1 as first author), 8 Earth Planet. Sci. Lett. (3 as first author), 3 Geophys. Res. Lett (1 as first author), 8 Phys. Rev. B (2 as first author), 3 Appl. Phys. Lett. (1 as first author).

Publications in peer review journals

44) “*Fe-FeO and Fe-Fe₃C melting relations at Earth's Core-Mantle Boundary conditions: implications for a volatile-rich or oxygen-rich core*”, G. Morard, D. Andrault, D. Antonangeli, Y. Nakajima, A.L. Auzende, E. Boulard, S. Cervera, A. Clark, O.T. Lord, J. Siebert, V. Svitlyk, G. Garbarino, M. Mezouar, Earth Planet. Sci. Lett. 473, 94 (2017).

43) “*Elasticity and Poisson's ratio of hexagonal close-packed hydrogen at high pressures*”, A.F. Goncharov, M. Gauthier, D. Antonangeli, S. Ayrinhac, F. Decremps, M. Morand, A. Grechnev, S.M. Tretyak, and Yu.A.Freiman, Phys. Rev. B 95, 214104 (2017).

42) “*Phonon triggered rhombohedral lattice distortion in vanadium at high pressure*”, D. Antonangeli, D.L. Farber, A. Bosak, C.M. Aracne, D.G. Ruddle, M. Krisch, Sci. Rep. 6, 31887 (2016).

41) “*Dynamical and elastic properties of MgSiO₃ perovskite (bridgmanite)*”, B. Wehinger, A. Bosak, S. Nazzareni, D. Antonangeli, A. Mirone, S.L. Chaplot, R. Mittal, E. Ohtani, A. Shatskiy, S. Saxena, S. Ghose, M. Krisch, Geophys. Res. Lett. 43, 2568 (2016).

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37) “*Sound velocity of hcp-Fe at high pressure: experimental constraints, extrapolations and comparison with seismic models*”, D. Antonangeli, E. Ohtani, Progress in Earth and Planetary Science 2:3 (2015).

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35) “*Properties of iron alloys under the Earth's core conditions*”, G. Morard, D. Andrault, D. Antonangeli, J. Bouchet, C. R. Geoscience 346, 130 (2014).

34) “*Sound velocity of iron up to 152 GPa by picosecond acoustics in diamond anvil cell*”, F. Decremps, D. Antonangeli, M. Gauthier, S. Ayrinhac, M. Morand, G. Le Marchand, F. Bergame, J. Philippe, Geophys. Res. Lett. 41, 1459 (2014).

33) “*Density measurements and structural properties of liquid and amorphous metals under high pressure*”, G. Morard, G. Garbarino, D. Antonangeli, D. Andrault, N. Guignot, J. Siebert, M. Roberge, E. Boulard, A. Lincot, A. Denoud, S. Petitgirard, High Press. Res. 34, 9 (2014).

32) “*The Earth's core composition from high pressure density measurements of liquid*

iron alloys”, G. Morard, J. Siebert, D. Andrault, N. Guignot, G. Garbarino, F. Guyot, D. Antonangeli, Earth Planet. Sci. Lett. 373, 169 (2013).

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27) “*Melting of Fe-Ni-Si and Fe-Ni-S alloys at megabar pressures: implications for the Core-Mantle Boundary temperature*”, G. Morard, D. Andrault, N. Guignot, J. Siebert, G. Garbarino, D. Antonangeli, Phys. Chem. Min. 38, 767 (2011).

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16) “*3D-imaging of the Fermi surface by thermal diffuse scattering*”, A. Bosak, M. Hoesch, M. Krisch, D. Chernishov, P. Pattinson, C. Schulze-Briese, B. Winkler, V. Milman, K. Refson, D. Antonangeli, D. Farber, Phys. Rev. Lett. 103, 076403 (2009).

- 15) “*Lattice dynamics of vanadium: inelastic x-ray scattering measurements*”, A. Bosak, M. Hoesch, D. Antonangeli, D.L. Farber, I. Fischer, M. Krisch, Phys. Rev. B 78, 020301(R) (2008).
- 14) “*An integrated method to determine melting temperature in high pressure laser heating experiments*”, L.R. Benedetti, D. Antonangeli, D.L. Farber, M. Mezouar, Appl. Phys. Lett. 92, 141903 (2008).
- 13) “*Anomalous pressure evolution of the axial ratio c/a in hcp cobalt: interplay between structure, magnetism and lattice dynamics*”, D. Antonangeli, L.R. Benedetti, D.L. Farber, G. Steinle-Neumann, A-L. Auzende, J. Badro, M. Hanfland, M. Krisch, Appl. Phys. Lett. 92, 111911 (2008).
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- 9) “*Determination of the high-pressure elasticity of cobalt from measured interfacial acoustic wave velocity*”, J.C. Crowhurst, D. Antonangeli, J.M. Brown, A.F. Goncharov, D.L. Farber, C.M. Aracne, Appl. Phys. Lett. 89, 111920 (2006).
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- 7) “*Preparation and characterization of single crystal samples for high pressure experiments*”, D.L. Farber, D. Antonangeli, C.M. Aracne, J. Benerou, High Press. Res. 26, 1 (2006).
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- ◆ “*New host for carbon in the deep Earth*”, E. Boulard et al., ESRF Highlights 2011.
- ◆ “*Suppression of ferromagnetism in compressed 3d metals*”, R. Torchio et al., ESRF Highlights 2011.
- ◆ “*Composition of the Earth’s inner core from high-pressure sound velocity measurements in Fe-Ni-Si alloys*”, D. Antonangeli et al., ESRF Highlights 2010.
- ◆ “*3D imaging of the Fermi surface by thermal diffuse scattering*”, A. Bosak et al., ESRF Highlights 2008.
- ◆ “*Pressure dependence of phonon anomalies in molybdenum*”, D.L. Farber et al., ESRF Highlights 2006.