

PRODUCTION SCIENTIFIQUE au 14/09/2021

ResearcherID : M-6934-2014

105+ articles de rang A ou proceedings avec comité de lecture ou chapitre de livre

Les noms en italique surlignés en gris dans la liste qui suit sont ceux d'étudiants et/ou post-doctorants supervisés.

REVUES À COMITÉ DE LECTURE

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52. FIQUET, G., BADRO, J., GUYOT, F. AND KRISCH, M. (2001) Application of inelastic X-ray scattering to measurements of acoustic wave velocities in geophysical materials at very high-pressure. AGU Fall meeting, EoS Transactions (supplement), 82, 47, F1382 (**conférence invitée**). San Francisco, Californie, USA, 10-14 Décembre 2001.
53. BADRO, J., FIQUET, G., GUYOT, F., KRISCH, M., SHUKLA, A., MERMET, A., REQUARDT, H., RUEFF, J.P., OCCELLI, F., STRUZHUKIN, V., MAO, H.K., SHEN, G. AND KAO, C.C. (2001) X-ray spectroscopy at ultra-high pressure : present and future. AGU Fall meeting, EoS Transactions (supplement), 82, 47, F1382. San Francisco, Californie, USA, 10-14 Décembre 2001.
54. FIQUET, G., ANTONANGELI, D., BADRO, J., GUYOT, F., REQUARDT, H., AND KRISCH, M. (2002) Application of inelastic X-ray scattering to measurements of acoustic wave velocities in geophysical materials at very high pressure. High Pressure Mineral Physics Seminar (Hpmps-6), Verbania, Italy, August 26-31 (**conférence invitée**).
55. FIQUET, G. (2002) Recent developments in the high-pressure high-temperature study of the mantle and core forming phases. Deep Earth Meeting, Royal Astronomical Society, London, 11 Octobre 2002 (**conférence invitée**).

56. BADRO, J., FIQUET, G., GUYOT, F. AND VANKO, G. (2002) High-Pressure Geochemistry Of Iron: Towards A Two-Layer Lower Mantle, *Eos Trans. AGU*, 83(47), Fall Meet. Suppl., Abstract MR71B-06.
57. SANLOUP, C., GUYOT, F., FEI, Y AND FIQUET, G. (2002) Constraints on the composition of the outer core from the equations of state and other properties of liquid Fe, S, Si -alloys. *Eos Trans. AGU*, 83(47), Fall Meet. Suppl., Abstract MR62B-1070.
58. ANTONANGELI, D., OCCELLI, F., ARACNE-RUDDLE, C., FARBER, D., GUYOT, F., REQUARDT, H., FIQUET, G., KRISCH, M. (2003) Acoustic anisotropy of hcp metals at high-pressure: the example of cobalt. EGS-AGU-EUG Joint assembly, *Geophysical Research Abstracts*, Vol. 5, 13826.
59. GREGORYANZ, E., OCCELLI, F., BADRO, J., FIQUET, G., D'ASTUTO, M., BOCTOR, N. (2003) Acoustic velocities of FeS at high pressures and temperatures measured by inelastic x-ray scattering. EGS-AGU-EUG Joint assembly, *Geophysical Research Abstracts*, Vol. 5, 7799.
60. OCCELLI, F., BADRO, J., FIQUET, G., GUYOT, F., GREGORYANZ, E., KRISCH, M., REQUARDT, H., D'ASTUTO, M. (2003) Inelastic x-ray scattering in extreme conditions: a tool for investigating deep planetary interiors. EGS-AGU-EUG Joint assembly, *Geophysical Research Abstracts*, Vol. 5, 08042, 2003.
61. SANLOUP, C., FEI, Y., FIQUET, G., GUYOT, F. (2003) How light elements (S, Si) affect the physical properties of liquid iron at high pressures and temperatures? EGS-AGU-EUG Joint assembly, *Geophysical Research Abstracts*, Vol. 5, 00845.
62. BADRO, J., FIQUET, G., GUYOT, F., VANKO, G., MONACO, G. (2003) High pressure geochemistry of iron: toward a deep lower mantle discontinuity. EGS-AGU-EUG Joint assembly, *Geophysical Research Abstracts*, Vol. 5, 07784.
63. FIQUET, G. (2003) Deep Earth science opportunities created by synchrotron facilities. Cooperative Institute for Deep Earth Research (CIDER) meeting, Point Reyes, Californie, USA, 24-29 mai 2003 (**conférence invitée**).
64. BADRO, J., FIQUET, G., GUYOT, F (2003) Chemical Heterogeneities and Layering in the Lowermost Mantle. *Eos Trans. AGU*, 84(46), Fall Meet. Suppl., Abstract T22D-07.
65. OCCELLI, F ., BADRO, J., FIQUET, G., FARBER, D L, GUYOT, F., GREGORYANZ, E., KRISCH, M., REQUARDT, H., MERMET, A., D'ASTUTO, M (2003) Inelastic x-ray scattering in extreme conditions: a tool for investigating deep planetary interiors *Eos Trans. AGU*, 84(46), Fall Meet. Suppl., Abstract T11C-0410.
66. MERKEL, S., ANTONANGELI, D ., FIQUET, G ., YAGI, T . (2003) Ultrahigh pressure deformation of polycrystalline hcp-cobalt *Eos Trans. AGU*, 84(46), Fall Meet. Suppl., Abstract T22D-03.
67. ANTONANGELI, D ., OCCELLI, F ., BADRO, J ., REQUARDT, H ., FIQUET, G ., KRISCH, M . (2003) Sound Velocity Measurements in Textured hcp-Iron and the Anisotropy and Structure of Earth's Inner Core *Eos Trans. AGU*, 84(46), Fall Meet. Suppl., Abstract T21F-04.

68. FIQUET, G., BADRO, J., GUYOT, F. (2003) Mineralogical and Chemical Models of Earth's Lower Mantle: Where are We Heading to? *Eos Trans. AGU*, 84(46), Fall Meet. Suppl., Abstract S21E-0372.
69. DANIEL, I., BASS, J., FIQUET, G., CARDON, H., HANFLAND, M. (2003) Effects of Aluminum on the Compressibility of Silicate Perovskite *Eos Trans. AGU*, 84(46), Fall Meet. Suppl., Abstract T11C-0403.
70. FIQUET, G. (2004) Acceptance of the Mineralogical Society of America Award for 2003, **American Mineralogist** 89 (5-6): 905-906 MAY-JUN 2004. **Conférence invitée** à l'Annual Meeting de la Geological Society of America, Seattle, 2003.
71. ANTONANGELI, D.; ARACNE, C.; BADRO, J.; FARBER, D., OCCELLI, F., REQUARDT, H., FIQUET, G., KRISCH, M. (2004) Elasticity and phonons dispersion in hcp-metals at high pressure International workshop « Phonons in crystalline materials » ESRF (Grenoble, France), 08-10/02/2004.
72. G. FIQUET (2004) New experimental constraints on earth's mantle and core structure and composition, EMPG X, Francfort (Allemagne), 04-07/04/2004 (**conférence invitée**).
73. G. FIQUET (2004) Earth's mantle and core structure and composition: the mineral physics, SEDI meeting, Garmisch-Partenkirchen, (Allemagne), 04-09/07/2004 (**conférence invitée**).
74. DANIEL, I.; BASS, J.D., FIQUET, G.; CARDON, H., HANFLAND, M. (2004) Effects of Aluminium on the compressibility of silicate perovskite *Eos Trans. AGU*, 85(47), Fall Meet. Suppl.
75. BADRO, J.; FIQUET, G.; GUYOT, F. (2004) Electronic Transitions in (Mg,Fe)SiO₃ Perovskite and Post-perovskite phases: Implications for Deep-Earth Dynamics *Eos Trans. AGU*, 85(47), Fall Meet. Suppl.
76. BADRO, J.; FIQUET, G.; GUYOT, F. (2004) Experimental Insights on the Thermochemical State of the Lower Mantle: Convection, Chemical Heterogeneities, and the D" layer *Eos Trans. AGU*, 85(47), Fall Meet. Suppl.
77. FIQUET, G.; BADRO, J.; GUYOT, F. (2004) New Constraints on the Earth's Core Chemical Composition. *Eos Trans. AGU*, 85(47), Fall Meet. Suppl. (**conférence invitée**).
78. RICOLLEAU, A; FIQUET, G.; PERRILLAT, J.; DANIEL, I.; MENGUY, N.; CARDON, H.; ADDAD, A.; VANNI, C.; GUIGNOT, N. (2004) The Fate of Subducted Basaltic Crust in the Earth's Lower Mantle : an Experimental Petrological Study *Eos Trans. AGU*, 85(47), Fall Meet. Suppl.
79. FIQUET, G. (2005) Mineral physics perspectives for the Earth's mantle. COMPRES Fourth Annual Meeting, Mohonk Mountain House, New Paltz, NY (USA) (**conférence invitée**).
80. FIQUET, G. (2005) Composition and dynamics of the Earth's lower mantle: new challenges for mineral physics, Gordon Research Conference, Mont Holyoke, Massachusetts (USA) (**conférence invitée**).
81. FIQUET, G. (2005) High-Resolution Inelastic X-ray Scattering of Materials of Geophysical Interest, XX congress of the International Union of Crystallography, Florence 23-31 août 2005 (**conférence invitée**).
82. FIQUET, G. (2005) Some applications of synchrotron radiation in Earth sciences - Physics of the Earth and planetary interiors. Conférence France – Afrique du Sud « Synchrotron

research in South Africa – Opportunities for Partnership with France » 25 novembre – 1^{er} décembre 2005 Pretoria, Afrique du Sud (**conférence invitée**).

83. BADRO, J., FIQUET, G., GUYOT, F. (2005), Insights into the Thermochemical State of the Lower Mantle: A New Paradigm? *Eos Trans. AGU*, 86(52), Fall Meet. Suppl., Abstract MR14A-03.
84. ANTONANGELI, D., KRISCH, M., FIQUET, G., BADRO, J., FARBER, D. L. (2005), Aggregate and Single-Crystalline Elasticity of hcp Cobalt, *Eos Trans. AGU*, 86(52), Fall Meet. Suppl., Abstract MR34A-01.
85. FIQUET, G. (2006) Minéralogie physique ou l'expérimentation au cœur des planètes, Conférence Eole - Conférence des entrants INSU-PU au CNRS, 9-11 Octobre 2006, Nancy, France (**conférence invitée**).
86. FIQUET, G. (2006) High-resolution inelastic X-ray scattering of materials of geophysical interest, Users' meeting synchrotron Elettra – Trieste and international Satellite workshop « Science at High pressures » 20-22 novembre 2006, Trieste, Italie (**conférence invitée**).
87. BADRO, J., FIQUET, G., GUYOT, F. (2006) Effect of Light Elements on the Sound Velocities in Solid Iron: Implications for the Composition of Earth's Core. *Eos Trans. AGU* 87(52), Fall Meet. Suppl., Abstract U42A-05.
88. GILLET, P., FIQUET, G., COLTICE, N., GUYOT, F. (2006) Low potassium content in the Earth's core: a high pressure and high temperature study of the Fe-K system. *Eos Trans. AGU* 87(52), Fall Meet. Suppl., Abstract U42A-07.
89. MARTINEZ, I., DUFAUD, F., GOFFE, B., FIQUET, G. (2006) A Mineralogical Study of Carbonation Reactions in Ultrabasic Rocks. *Eos Trans. AGU* 87(52), Fall Meet. Suppl., Abstract V53D-1780.
90. DUFAUD, F., MARTINEZ, I., SHILOBREEVA, S., FIQUET, G. (2006) Coupled Serpentinisation and Carbonation Reaction in Ultrabasic Minerals. *Eos Trans. AGU* 87(52), Fall Meet. Suppl., Abstract V41G-04.
91. FIQUET, G., BADRO, J., AUZENDE, A.L., SIEBERT, J., GREGORYANZ, E., GUIGNOT, N. (2006) Magnesium Content of the Core: an Experimental Study. *Eos Trans. AGU* 87(52), Fall Meet. Suppl., Abstract U43C-05.
92. BASS, J.D., LAKSHANOV, D.L., FIQUET, G., BOSSAK, A., KRISCH, M., LITASOV, K., HIRAO, N., FUKUI, H., LI, L., WEIDNER, D.J., OHTANI, E. (2006) Sound Velocities and Elastic Moduli of Fe- and Al-bearing Mg-Silicate Perovskite by Inelastic X-Ray Scattering. *Eos Trans. AGU* 87(52), Fall Meet. Suppl., Abstract MR14A-05.
93. FIQUET, G., BADRO, J., GUYOT, F. (2007) The Earth's core: composition and anisotropy. 7th High Pressure Mineral Physics Seminar, International conference, May 8-12, 2007 Matsushima, Japon (**conférence invitée**).
94. FIQUET, G., COLTICE, N., GUYOT, F., GILLET, P. (2007) Potassium content in the Earth's core: a high-pressure and high temperature study of the Fe-K system. Goldschmidt 2007 - "atoms to planets", August 19 - 24, 2007, Cologne, Allemagne.

95. FIQUET, G. (2007) Synchrotrons : a core business ? International Workshop on Synchrotron High-pressure Mineral Physics and Material Science, December 6-7, 2007, Advanced Photon Source , Argonne, USA (**conference invitée**).
96. AUZENDE, A.L., BADRO, J., RYERSON, F., FIQUET, G. (2007) Iron partitioning and the self-oxidation of the lower mantle. *Eos Trans. AGU*, 88(52), Fall Meet. Suppl., MR23D-02
97. BADRO, J., FIQUET, G., GUYOT, F. (2007) A Tightly Constrained Composition Model of Earth's Core. *Eos Trans. AGU*, 88(52), Fall Meet. Suppl., Abstract U11A-0001.
98. ANTONANGELI, D., KRISCH, M., FARBER, D.L., FIQUET, G. (2007) Elasticity of hcp Metals at High Pressure and Temperature: the Quasi-harmonic Case of Cobalt. *Eos Trans. AGU*, 88(52), Fall Meet. Suppl., Abstract MR43C-1523.
99. MORARD, G., SANLOUP, C., FIQUET, G., MEZOUAR, M., ANDRAULT, D., GUIGNOT, N. (2007) Investigation of Fe-FeS phase diagram and liquid structure at high pressure and high temperature. *Eos Trans. AGU*, 88(52), Fall Meet. Suppl., Abstract MR13A-0990.
100. FIQUET, G., BADRO, J., AUZENDE, A.L., GREGORYANZ, E., SIEBERT, J., MATAS, J., GUIGNOT, N. (2007) A New Thermal Equation of State for Iron at Megabar Pressure. *Eos Trans. AGU*, 88(52), Fall Meet. Suppl., Abstract DI24A-05.
101. RICOLLEAU, A., FEI, Y., COTTRELL, E., WATSON, H., DENG, L., ZHANG, L., FIQUET, G., AUZENDE, A.L., ROSKOSZ, M., MORARD, G., PRAKAPENKA, V. (2007) New Constraints on the Pyrolitic Model: In Situ X-ray Diffraction Measurements on KLB-1 Peridotite Under the Lower Mantle Conditions. *Eos Trans. AGU*, 88(52), Fall Meet. Suppl., Abstract MR23D-05.
102. FIQUET, G. (2008) High-resolution Inelastic X-ray scattering of Materials of Geophysical Interest. High-resolution Inelastic X-ray scattering on Earth Materials using Synchrotron Radiation, IXS 2008 International Workshop, Argonne National Laboratory, May 31-June 1, 2008, Argonne, USA (**conférence invitée**).
103. FIQUET, G. (2008) Structure, thermal equation of state of iron and alloys at Earth's core conditions: from static to shock experiments. Japan-France Workshop on High energy density science, Maison franco-japonaise, Tokyo 8-10 octobre 2008.
104. AUZENDE, A.L., BADRO, J., RYERSON, R., SIEBERT, J., FIQUET, G. (2008) The role of iron chemistry on the interpretation of lower mantle heterogeneities, *Eos Trans. AGU*, 89(53), Fall Meet. Suppl., Abstract DI34A-07.
105. FIQUET, G., BOULARD, E., AUZENDE, A.L., ANTONANGELI, D., BADRO, J., MORARD, G., SIEBERT, J., PERRILLAT, J.P., MEZOUAR, M. (2008) Phase relations of Fe-Si-Ni alloys at core conditions: Implications for the Earth inner core *Eos Trans. AGU*, 89(53), Fall Meet. Suppl., Abstract DI53B-08.
106. FIQUET, G. (2009) **Invited chair and invited talk** "High-pressure mineralogy to investigate the deep Earth" Third annual symposium of Japanese – French frontiers of Science. Co-organized MAEE, MESR, CNRS, JSPS, Kanagawa, 24-26 janvier 2009, Japon.
107. FIQUET, G., MORARD, G., BOULARD, E., AUZENDE, A.L., ANTONANGELI, D., BADRO, J., SIEBERT, J. (2009) Phase relations of Fe-Si-Ni alloys at core conditions : implications for the Earth's inner

core. International meeting of the British Geophysical Association and the Mineralogical Society of Great Britain and Ireland, "New views on the Earth's Interior", 12-13 février 2009, Burlington House, Londres **(invited talk)**.

106. MORARD, G., SANLOUP, C., KATSURA, T., GUILLOT, B., FIQUET, G., MEZOUAR, M. (2009), Study of Fe-Si immiscible system at high pressure and high temperature: implications for planetary cores, *Eos Trans. AGU*, 90 (52), Fall Meet. Suppl., Abstract MR43B-1872.
107. FIQUET, G., AUZENDE, A.L., SIEBERT, J., CORGNE, A., BUREAU, H., OZAWA, H. GARBARINO, G. (2009) Melting of Peridotite at Lower Mantle Conditions: Implications for Magma Ocean Differentiation and Melting Processes at the CMB, *Eos Trans. AGU*, 90(52), Fall Meet. Suppl., Abstract V13C-2049.
108. ANTONANGELI, D., SIEBERT, J., BADRO, J., FARBER, D., RYERSON, F., FIQUET, G. (2009) Sound velocity measurements on $\text{Fe}_{0.89}\text{Ni}_{0.04}\text{Si}_{0.07}$ to 108 GPa: mineral physics constraints on the silicon abundance in the Earth's core, *Eos Trans. AGU*, 90(52), Fall Meet. Suppl., Abstract D133A-1620.
109. FIQUET, G. (2010) Pushing high pressure experiments to extreme temperatures: the melting of a peridotite sample at lower mantle conditions as an example. ESRF International Workshop, Science at high pressure: initiative for the creation of an ILL/ESRF Partnership for Extreme Conditions Science, ESRF, Grenoble 9-11 février 2010 **(invited keynote lecture)**.
110. FIQUET, G., AUZENDE, AL, SIEBERT, J., CORGNE, A., OZAWA, H. GARBARINO, G. (2010) Melting of Earth deep mantle materials, Japanese Geophysical Union International Meeting 2010, Chiba City, Japan May 2010 **(invited talk)**.
111. FIQUET, G. (2010) Melting of peridotite to 160 GPa – Global COE program for Earth sciences at Tohoku University, Sendai, Japan May 2010 **(invited conference)**.
112. FIQUET, G. (2010) Melting of peridotite to 160 GPa – International Frontier Seminar – Global COE program at Center for Advanced Experimental and Theoretical Deep Earth Mineralogy , Matsuyama, Japan May 2010 **(invited conference)**.
113. FIQUET, G (2010) Synchrotrons: a core business ? Journées annuelles de la SF2M 2010 2010, Chimie Paris Tech, Paris France **(invited keynote lecture)**.
114. FIQUET, G., AUZENDE, A.L., SIEBERT, J., CORGNE, A., BUREAU, H., OZAWA, H., GARBARINO, G. (2010) Melting of Peridotite to 140 GPa, Abstract MR44A-04 presented at 2010 Fall Meeting, AGU, San Francisco, Calif., 13-17 Dec **(invited)**.
115. ANTONANGELI, D., SIEBERT, J., BADRO, J., FARBER, D., RYERSON, F.J., MORARD, G. (2010) Composition of the Earth's inner core from high-pressure sound velocity measurements in Fe-Ni-Si alloys, Abstract D122A-03 presented at 2010 Fall Meeting, AGU, San Francisco, Calif., 13-17 Dec **(invited)**.
116. ANTONANGELI, D., SIEBERT, J., ARACNE, C., FARBER, D., KRISCH, M., RYERSON F. J., FIQUET, G., BADRO, J. (2010) Spin crossover in ferropericlase at high pressure: A seismically transparent transition?, Abstract D112B-03 presented at 2010 Fall Meeting, AGU, San Francisco, Calif., 13-17 Dec **(invited)**.

117. BOULARD, E., GLOTER, A., CORGNE, A., ANTONANGELI, D., AUZENDE, A.L., PERRILLAT, J.P., GUYOT, F., FIQUET, G. (2010) A New Carbonate Chemistry in the Earth's Lower Mantle, Abstract U21A-0002 presented at 2010 Fall Meeting, AGU, San Francisco, Calif., 13-17 Dec.
118. BOULARD, E., GLOTER, A., CORGNE, A., ANTONANGELI, D., AUZENDE, A.L., PERRILLAT, J.P., GUYOT, F., FIQUET, G. (2010) A New Carbonate Chemistry in the Earth's Lower Mantle, Abstract U21A-0002 presented at 2010 Fall Meeting, AGU, San Francisco, Calif., 13-17 Dec.
119. MAROCCHI, M., BUREAU, H., FIQUET, G., GUYOT, F. (2010) In situ Raman Spectroscopy Investigation of Siderite Dissolution in Aqueous Fluids up to 400°C, Abstract V33B-2357 presented at 2010 Fall Meeting, AGU, San Francisco, Calif., 13-17 Dec.
120. FIQUET, G. (2011) Do We Have Mineral Physics Evidence for Partial Melt at The Base of Earth's Mantle? Geophysical Laboratory, Carnegie Institution of Washington May 2011 **(invited)**.
121. FIQUET, G., GUYOT, F., MORARD, G. (2011) Geophysics grand challenges - Planetary interiors : a challenge for laser shocks. Conference on laser shocks, Imperial College London **(invited)**.
122. FIQUET, G. (2011) Melting of peridotite to 140 GPa, ESRF Users' meeting 2011 **(invited)**.
123. FIQUET, G. (2011) Melting of peridotite to 140 GPa, Goldschmidt conference, Prague.
124. BOULARD, E., FIQUET, G., GUYOT, F., AUZENDE, A.L., MENGUY, N., BENZERARA, K., GUIGNIER, J.M. (2011) Carbon storage and recycling in the deep Earth's mantle, Tokyo Institute of Technology, Tokyo **(invited)**.
125. FIQUET, G., ANTONANGELI, D., KOMABAYASHI, T. , OCCELLI, F., MORARD, G., FEI, Y. (2012) Sound velocity measurements on iron and several alloys at high pressure and high temperature: a window on the Earth's core composition, University College London **(invited)**.
126. FIQUET, G. (2013) Acoustic properties of iron alloys and the composition of the Earth's inner core, International workshop « Approach to the centre of the Earth », Akiu, Sendai, Japan **(invited keynote lecture)**.
127. PRADHAN, G.K., FIQUET, G., SIEBERT, J., AUZENDE, A.L., ANTONANGELI, D. (2013) Melting of MORB up to 130 GPa, Abstract MR33A-2308 presented at 2013 Fall Meeting, AGU, San Francisco, Calif., 9-13 Dec.
128. FIQUET, G., NARAYANA, C., BELLIN, C., SHUKLA, A., ESTEVE, I., MEZOUAR, M. (2013) A quest for super dense aluminium, Abstract MR31A-2258 presented at 2013 Fall Meeting, AGU, San Francisco, Calif., 9-13 Dec.
129. ANTONANGELI, D., MORARD, G., KOMABAYASHI, T, KRISCH, M, FIQUET, G, FEI, Y (2013) Sound velocity of gamma-iron at Moon's core conditions, Abstract MR13B-01 presented at 2013 Fall Meeting, AGU, San Francisco, Calif., 9-13 Dec.
130. FIQUET, G. (2014) Users' meeting ESRF – International Workshop « High Pressure Science at 3rd generation synchrotron facilities – State of the art and future prospects » X-ray diffraction at 400 GPa and above : the example of aluminium **(invited)**.

131. FIQUET, G. AND ESTÈVE, I. (2015) FIB applications in high-pressure research, HPSTAR Institute, International workshop, Shanghai March 2015 (**invited keynote**).
132. FIQUET, G. (2015) Melting processes at the core mantle boundary, HPSTAR Institute, International workshop, Shanghai March 2015 (**invited**).
133. FIQUET, G. (2015) Melting processes at the core mantle boundary, Goldschmidt conference, Prague (**invited talk**).
134. FIQUET, G. (2016) Melting processes at the core mantle boundary, Atami, International workshop « Magma Oceanology » (**invited talk**) Japan May 2016.
135. FIQUET, G. (2016) Physical and properties of the Earth's deep interior, Symposium international, China University of Sciences, Wuhan, 4-6 Nov. 2016 (**invited talk**).
136. FIQUET, G. (2017) New challenges in geo- and planetary physics: a review of state of the art experiments at extreme conditions of pressure and temperature. Réunion du GDR international Matter in extreme conditions : from material science to planetary physics (MECMATPLA), Montgenèvre (France), 29 janvier – 4 février 2017 (**invited talk**).
137. **Miozzi, F.**, MORARD, G., ANTONANGELI, D., CLARK, A., EDMUND, E., FIQUET, G., MEZOUAR, M. (2017) On The Interior Of Carbon-Rich Exoplanets: New Insight From Si-C System At Ultra High Pressure, AGU Fall meeting New Orleans 2017, Dec. 11-15.
138. ANTONANGELI, D., MORARD, G., PAOLASINI, L., GARBARINO, G., MURPHY, C.A., EDMUND, E., DECREMPS, F., FIQUET, G., BOSAK, A., MEZOUAR, M., FEI, Y. (2017) Sound velocities and density measurements of solid hcp-Fe and hcp-Fe-Si (9wt.%) alloy at high pressure: constraints on the Si abundance in the Earth's inner core. AGU Fall meeting New Orleans 2017, Dec. 11-15.
139. HARMAND, M., KRYGIER, A., APPEL, K., GALTIER, E., HARTLEY, N., KONOPKOVA, Z., LEE, H.J., MCBRIDE, E.E., MIYANISHI, K., NAGLER, B., NEMAUSAT, R., VINCI, T., ZHU, D., OZAKI, N., FIQUET, G. (2017) Solid – solid and solid – liquid phase transitions of iron and iron alloys under laser shock compression. AGU Fall meeting New Orleans 2017, Dec. 11-15.
140. FIQUET, G. (2018) 140 ans, 140 GPa ou la minéralogie des extrêmes. Conférence @ Mines Paris Tech pour le 140^{ème} anniversaire de la SFMC (**conférence invitée**).
141. BOULARD, E., GUYOT F., FIQUET, G. (2018) Geochemical Implications of Carbonates with CO₄ Groups. Goldschmidt Boston 2018, August 12-17.
142. FIQUET, G., BARON, M.A., MORARD, G., MIOZZI, F., MEZOUAR, M. (2019) Melting Phase Relations in the FeO-MgO-SiO₂ system at Megabar Pressure Range and its Application to the Structure and Evolution of the Earth and Super-Earth Planets, AGU Fall meeting, San Francisco, December 2019.
143. **BARON, M.A.**, FIQUET, G., MORARD, G., MIOZZI, F., ESTÈVE, I., DOISNEAU, B., BUREAU, H., GUYOT, F.J. AND PAKHOMOVA, A. (2019) Partitioning of major and minor elements between melt and solids in the basaltic and peridotitic lithologies at Earth's lower mantle conditions, AGU Fall meeting, San Francisco, December 2019.

144. **Miozzi, F.**, MORARD, G., ANTONANGELI, D., CLARK, A.N., BARON, M.A., MEZOUAR M., PAKHOMOVA, A., FIQUET, G. (2019) Phase relations and melting in a Fe-Si-C core: new constraints from experimental data, AGU Fall Meeting, San Francisco, December 2019.
145. FIQUET, G. on behalf of EuXFEL Community Proposal #2292 (2020) Fe and Fe-alloys experiments, Satellite workshop "Static Pressure Experiments at XFEL", Eu-XFEL, DESY, 27-28/01/2020, Hamburg, Germany.