

PEER REVIEWED PUBLICATIONS

- Orberger, B. & Cathelineau, M. (2017)-Editorial:** Preface for thematic issue on “Supergene ore deposits”. *Miner Deposita* DOI 10.1007/s00126-017-0764-2
- Dubois, M., Lopez, M., Orberger, B., Gau, A., Moussavou, M., Pambno, F., Rodrigues, S. (2017).** The 2.1 Gold injectite network of the Franceville basin, Gabon: Architecture, origin and implication on manganese mineralization. *Precambrian Research*, <https://doi.org/10.1016/j.precamres.2017.09.022>
- Duée, C., Orberger, B. Nicolas Maubec, Valérie Laperche, Laure Capar, Anne Bouruignon, Xavier Bourrat, Yassine El Mendili, Stephanie Gascoïn, Daniel Chateigner, Celine Rordriguez, Anne Salaün, Monique Le Guen, Gino Mariotto, Marco Giarola, Arun Kumar, Nicola Daldasso, Marco Zanatta, Luca Lutterotti, Evegny Borovin, Mauro Bortolotti, Maria Secchi, Maurizio Montagna, Henry Pillière, Thomas Lefevre, Fons Eijkelkamp, Harm Nolte, Peter Koert, Saulius Grazulis, Fabien Trotet, Mohammed Kadar, Karen Devaux (2017).** Combined mineralogy and chemistry on drill cores: challenging for on-line real-time analyses. 14th SGA Biannual Meeting, Quebec City, Canada, August 20-23. *Mineral resources to discover, Proceedings V.3*, 1241-1244.
- Orberger, B., Eijkelkamp, F. and Le Guen, M. (2017).** The importance of high quality drill cores for geometallurgy. 14th SGA Biannual Meeting, Quebec City, Canada, August 20-23. *Mineral resources to discover, Proceedings V.3*, 1221-1223.
- Orberger, B., Wagner, C., Fialin, M. Boudama, O., Miska, S., Tudryn, A., Derre, C., Nabatian, G., Honarmand, M., Mosef, I.; Ghods, A. (2017).** Iron-oxide mineralogy of banded iron formations in the Takab region, North Western Iran. SGA, Quebec, Canada, Proceeding 14th SGA Biannual Meeting, Quebec City, Canada, August 20-23. *Mineral resources to discover, Proceedings V. 2*, 809-812.
- Orberger, B., Wagner, C., Tudryn, A., Baptiste, B., Wirth, R., Morgan, R., Miska, S.,** Characterisation of iron hydroxide and hematite nano and micro inclusions in dolomite from banded iron formations. *European Journal of Mineralogy*. DOI 10.1127/ejm/2017/0029-2679. (rang A)
- Hashizume K., Pinti D.L., Orberger B., Cloquet C., Jayananda M. & Soyama, H. (2016)** A biological switch at the ocean surface as a cause of laminations in a Precambrian iron formation. *Earth Planet. Sci. Lett.*, 10.1016/j.epsl.2016.04.023.
- Orberger, B., Tudryn. A., Wagner, Baptiste, B., C. Wirth, R., Morgan, R. M.(2016).** Hematite and goethite inclusions in low-grade dolomitic banded iron formation: physical parameter evaluation to optimize ore beneficiation. IMPC Congress, September 2016, Proceedings, Quebec, Canada. 10 pp.
- Orberger, B., Rojas, W., R. Millot, C. Flehoc (2015).** Stable isotopes (Li, O, H) combined with brine chemistry: powerful tracers for Li origins in Salar deposits. *Procedia Earth and Planetary Science Letters*, 13, 307-311.
- Dubois, M., Lopez, M., Orberger, B, C. Rodriguez, S. Rodrigues, F. Pambo (2015).** Mn-carbonates of the Francevillian Basin. SGA Conference, Proceedings, August, 4 pages.
- Orberger, B., Salaün, A., Wallmach, T., R. Wirth; V. Delarue, C. Goliath, Boussafir, M., Dreux, G., Rodriguez, C., Lafon, S., A. Schreiber (2014) :** In-situ analyses of carbonaceous matter in manganeseiferous shales: Analytical proxies and implication for ore processing. Reference lettre Soleau: LAVOIX TSP14X1302, Paris, France; client account: ERAMET, CertiDate_001_0B0024559A ; date of record : 22/12/2014 15:37:02
- Orberger, B., Wagner, C., Tudryn, A., Wirth, R., Morgan, R., Fabris, J.D., Greneche, JM, Rosière C. (2014):** Micro- to nano-scale characterization of martite from a banded iron formation in India and a lateritic soil in Brazil. *Physics and Chemistry of Minerals. Vol. 41, N 9, 651-667.*
- Hofmann, A., Bolhar, R., Orberger, B., Foucher, F. (2014) :**Cherts of the Barberton greenstone Belt, South Africa : Petrology and trace-element geochemistry of 3.5 to 3.3 Ga old silicified volcanoclastic sediments. *South African Journal of Geology.* 297-322.
- Orberger, B. Tudryn, A., Wagner, C., Wirth, R., Fabris, J.D., Greneche, JM., Morgan, R. (2013):** Martitisation of hematite in banded iron formations: implications for beneficiation by magnetic separation. *Proceedings, 12th biennial SGA meeting, 12-16 August 2013, Uppsala, Sweden, Volume 1*, 283-28.
- Orberger, B., Goguelin, A., Dusanter, B. Blancher, S. (2012):** Ultrasound treatment for phosphorous enrichment from fine Mn-oxide ores. IMPC, Conference Proceedings, Delhi, September (IMPC Proceedings).
- Orberger B ; Wagner C ; Wirth R ; Quirico E. Galline JP ; Derré C. ; Montaganac G ; Noret A (2012)** Origin iron-oxide spherules in the banded iron formation of the Bababudan Group, Dharwar Craton, Southern India. *J Asian Earth Sci* 52 :31-42
- Morgan, R., Orberger, B., Wirth, R., Rosiere, C.A., Da Mota Carvalho, C., Bellver-Baca, M.T. (2013).** The

- origin of coexisting carbonates in banded iron formations: A micro-mineralogical study of the 2.4 Ga Itabira Group, Brazil ; *Precambrian Research*, 224, 491-511.
- Rouchon, V., **Orberger, B.**, Hofmann, A., Pinti, D.L. (2009): Diagenetic Fe-carbonates in Paleoproterozoic felsic sedimentary rocks (Hoogenoeg Formation, Barberton greenstone belt, South Africa) : Implications for CO₂ sequestration and the the chemical budget of seawater. *Precambrian Research*, 172, 255-278.
- Orberger, B.** (2009): Les environnements marins de la jeune Terre : existe-il des analogues sur Mars ? *Plein Sud, Le magazine d'information de l'université Paris-Sud*. N° 74, p. 16.
- Rouchon, V., **Orberger, B.** (2008): Origin of K and Si metasomatism in Archean volcanoclastic sediments (exemple : Kittys Gap Chert, Pilbara, Australia ; Msauli chert, Barberton, South Africa). 169, 160-179.
- Pinti, D.L., Hashizume, K., **Orberger, B.**, Gallien, J.P., Cloquer, C., Massault, M. (2007) : Biogenic nitrogen and carbon in Fe-Mn oxyhydroxides from an Archean chert, Marble Bar, Pilbara, Australia. *G-cubed*, V.8, N2, 1-19.
- Orberger, B.**, Vymazalova, A., Wagner, C., Fialin, M., Gallien, J.P., Wirth, R., Pasava, J., Montagnac, G (2007). Biogenic origin of intergrown Mo-sulphide- and carbonaceous matter in Lower Cambrian black shales (Zunyi Formation, southern China) *Chem. Geol.*, 238, 213-231.
- Pasava, J. ; Kribek, B., Vymazalova, A., Sykorova, I. ; Zak, K ; **Orberger, B.** (No.RG07-08) entitled: "Multiple Sources of Metals of Mineralizations in Lower Cambrian Black Shales of South China: Evidences from Geochemical and Petrographic Study" , *Resource Geology*.
- Vachard, D., **Orberger, B.**, Rividi, N., Pille, L. and Berkhli, M. (2006). New Late Asbian/Early Brigantian (Late Viséan, Mississippian) dates in the Mouchenkour Formation (central Morocco): palaeogeographical consequences. *Comptes Rendus Palevol* 5(6): 769-777.
- Westall, F., de Vries, S., Nijman, W., Rouchon, V., **Orberger, B.**, Pearson, V. ; Watson, J. ; Verdovsky, A., Wright, I., Rouzaud, J.N. ; Marchesini, D., Severine, A. (2006) : The 3.466 Ga Kitty's Gap Chert, an Early Archean microbial ecosystem. *Geological Society of America, Special Paper*, N° 405. p. 105-132.
- Orberger, B.**, Rouchon, V., Westall, F., de Vries, S.T., Pinti, D.L., Wagner, C., Wirth, R. ; Hashizume, K. (2006) : Microfacies and origins of some Archean cherts, Pilbara, Australia, *Geological Society of America, Special Paper*, N° 405, 133-156.
- Orberger, B.**, C. Wagner, C., A. Vymazalova, J. Pasava, B. Kribek, J.P. Gallien (2005) : Rare metal sequestration and mobility in mineralized black shales from the Zunyi region, South China ; in Mao, J., Bierlein, F.P. : *Mineral Deposit Research, meeting the global challenge*, Springer, Vol. 1, p. 167-171.
- Rouchon, V., Pinti, D.L., Gallien, J.P., **Orberger, B.**, Daudin, L., Westall, F. (2005) NRA analyses of N and C in hydromuscovite from a 3.5 Ga chert from Kittys Gap, Pilbara, Australia. : *Nuclear Instruments and Methods in Physics Research, B231*, 536-540.
- Orberger, B.**, Gallien, J.P., Pinti, D., Fialin, M., Daudin, Gröcke, D.R.; L., Pasava, J. (2005): Nitrogen and carbon partitioning in diagenetic and hydrothermal minerals from Paleozoic Black Shales (Selwyn Basin, Yukon Territories, Canada), *Chem. Geology*, 218, 249-264.
- Karim, A. ; Berkhli, M., Vachard, D., Tribouvillard, N., **Orberger, B.** (2005). The late Viséan Azarare series (Central Morocco) :deposition environments, dating diagenetic evolution. *Compte Rendu Académie de Science*, 286-290.
- Gallien, J.P.,**Orberger, B.**, Daudin, L., Pinti, D.L., Pasava, J. (2004) : Nitrogen in biogenic and abiogenic minerals from Paleozoic black shales : a NRA study. *Nuclear Instruments and Methods in Physics Research, B 217*, 113-122.
- Orberger, B.**, Pasava, J., Gallien, JP, Daudin, L., Pinti, D. (2003) : Biogenic and abiogenic hydrothermal sulfides : controls of rare metal distribution in black shales. *Journal of Geochemical Exploration*, 78-79, 559-563.
- Orberger, B.**, Pasava, J.; Gallien, J. P., Trocellier, P. (2003) : Se, As, Mo, Pt, Au, Cd, In, Sb, Tl, Re traces in bio-chemical sulfides from Black Shales (Selwyn Basin, Yukon Territories, Canada) : A nuclear microprobe study. *Nuclear Instruments and Methods in Physics Research, Vol. 210*, p. 441 – 448.
- Orberger, B.**, Faure-Muret, A., Hoernes, St., Rais, F., Meslouh, S. (2002) Influence of diagenesis and tectonic evolution on the mobilisation of rare earth elements and base metals in siliciclastic sediments (Khenifra-Azrou Basin, Central Maroc). *The Geological Society of Namibia, South Africa and Zambia, 11th Quadrennial IAGOD Symposium and Geocongress 2002, Windhoek*, p. 240-244.
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- Orberger, B.**, Pagel, M., Michelot, JL. (2001) : Fluid-rock interaction in siltstones : origine of exceptional mechanical properties. *Water-Rock Interaction, Cidu (ed.)*, Swets & Zeitlinger, Lisse, ISBN 90 2651824 2, p. 1351-1354.

- Orberger, B.** & Pagel, M. (2000) : Diagenetic evolution of Cretaceous siltstones from the Eastern french basin (Drill Core MAR 501): implication of the radioactive waste deposits. *Journ. of Geochemical Exploration*, Vol. 69-70, p. 115-118.
- Orberger, B.**, Métrich, N., Mosbah, M. Mével, C., Fouquet, Y. (1999): Nuclear microprobe analysis of serpentines from the Mid-Atlantic Ridge. *Nuclear Instruments and Physics Research B158*, 575-581
- Orberger, B.**, Xu, Y., Reeves, S. (1998) : Platinum group elements in mantle xenoliths from eastern China. *Tectonophysics*, 296, 87-101).
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- Maetz, M., **Orberger, B.**; Traxel, K.; Wathanakul, P.; Pitragool, S. (1997) : Protonmicroprobe analyses on platinum-group element and gold grains from Palaeoterraces of the Mekong River, NE Thailand, *Nuclear Instruments and Methods in Physics Research, B*. 130, p.666-670.
- Orberger, B.**, Lorand, J.P., Girardeau, J., Pitragool, S.; Mercier, J.C.C. (1995): Petrogenesis of chromitites and their ultramafic hostrocks in the Nan-Uttaradit ophiolite, NE Thailand. *Lithos*, 35, pp.135-182.
- Orberger, B.** & Alleweldt, J. (1994): Mineralogical and geochemical characteristics of platinum, palladium and Ni-Cu-sulfide bearing black serpentinite of the Acoje ophiolite block, Zambales, Philippines: Mineralogical and geochemical characteristics, *Journal of Southeast Asian Earth Sciences*, Vol. 9, No.3, p. 229-239.
- Orberger, B.**; Girardeau, J.; Mercier, JCC; Lorand, J.P., Pitragool, S. (1993) : Ophiolitic chromitite from Nan-Uttaradit, Northern Thailand: a result of boninitic-type melt and peridotite interaction in: *Current Research in Geology applied to ore deposits, Fenoll Hach-Ali, Torres-Ruiz, J., Gervilla, F. (eds.) University of Granada, Spain ISBN-84-338-1772-8. p. 197-201.*
- Orberger, B.** & Traxel, K. (1991) : Protonmicroprobe analyses on Ni-Cu-sulfides. *Nuclear Instruments and Methods in Physics Research, B*. 54, p. 304-311.
- Orberger, B.**; Friedrich, G.; Woermann, E. (1990) : The distribution of halogens and carbon in PGE bearing ultramafics of the Acoje ophiolite block, Zambales, Philippines. *Journal of Geochemical Exploration*, 37, p.147-169.
- Busse, A.G., **Orberger, B.**; Friedrich, G. (1990) : Classification of mafics from the Nan-Uttaradit mafic-ultramafic belt (Northern Thailand) by comparative major and trace element geochemistry with the Acoje, Zambales ophiolite block and the Donqiao/Xiixa ophiolite. Proceedings to the International Symposium on intermontane basins: *Geology and Resources Chiang Mai, Thailand*, p. 493-501.
- Orberger, B.**, Friedrich, G.; Pitragool, S. (1989) : Platinum-group-element distribution in ultramafics, chromitite, magnetite and pyrrhotite, Nan-Uttaradit mafic-ultramafic belt, Northern Thailand: Preliminary results. *Proceedings to the International Symposium on intermontane basins: Geology and Resources, Chiang Mai*, p. 483-491.
- Orberger, B.**; Friedrich, G.; Woermann, E. (1988): Platinum-group-element mineralization in the ultramafic sequence of the Acoje ophiolite block, Zambales, Philippines. In: *H.M. Prichard, P.J. Potts, J.F.W. Bowles & S.J. Cribb (Editors), Geoplatinum 87. Elsevier, Amsterdam*, pp. 361-380.
- Saupé, F.; **Orberger, B.**; Arnold, M. (1986): Les gisements de barytine, pyrite, oxydes de fer des Alpes Apuanes Méridionales (Toscane, Italie) *Annales du Colloque PIRSEM*, Facteur de concentration des matières premières minérales, Montpellier, 10 p.
- Orberger, B.**, Arnold, M., Saupé, F. (1985) : Sulfur isotopic studies of the minerals from the Pollone and Monte Arsciccio deposits (SW Apuane Alps, Tuscany, Italy). *Fortschritte der Mineralogie, Bd. 64, Heft 2*, p.215-226.

PhD thesis

Orberger, B. (1985): Les gisements de barytine-pyrite-oxydes de fer de la région de Santa Anna (Alpes Apuanes, Toscane, Italie). Thèse de Dr. de l'INPL, CRPG, Nancy, 258 p.

Habilitation thesis

Orberger, B. (1997): Les éléments du groupe du platine dans les ophiolites. Université Paris 7; (290p.)

Reports, lettre soleau : (EU, DFG, Kernforschungszentrum Frankreich : ANDRA, internal reports ERAMET Research)

Peyaud, JB., **Orberger, B.**, Pagel, M. (1999): Diagenèse des shales et paléocirculation des fluides sur le site de Tournemire, Aveyron. Rapport annuel, contrat IPSN-Université Paris-Sud-CNRS-Cephyten N° 4060 8BO46310/ES. 50pp.

Bertrand, P. & **Orberger, B.** (1991): Etude prospective sur la géochimie des eaux dans les roches plutoniques, (CEA- ANDRA), Paris, France, 36 p.

- Orberger, B.** & Bertrand, Ph. (1990) : Le chlore dans les granites, Recherche Bibliographique, *Centre d'Etude Atomique*, (CEA-ANDRA) Paris, France, 30 p.
- Friedrich, G.; Woermann, E.; **Orberger, B.** (1989): Die Bildung von Chromitit- und Platinlagerstätten in Ophiolithen und die Rolle der Sauerstoffugazität als Steuerungsmechanismus (Fr-240-42/1-3 (1.4. 1985 - 31.3. 1989). 2 Volumes, 600 p
- Mercier, J.C.C.; **Orberger, B.**; Girardeau, J.; Lorand, J.P. (1992): 1st Yearly report, Project: SC*-CT 91-0660 'Platinum-group elements in mineralised ophiolites' (European Community) 100p.
- Orberger, B.**, Lorand, J.P., Mercier, J.C.C. (1993): 2nd Yearly report, Project SC*-CT 91-0660 'Platinum-group elements in mineralised ophiolites' (European Community) 200 p.
- Orberger, B.**, Lorand, J.P., Mercier, J.C. (1996): Final Report, SC*-CT 91-0660 'Platinum-group elements in mineralised ophiolites' (European Community) 237 p.

October 2011-December 2015 (EXPERT at ERAMET RESEARCH): 30 internal confidential reports on Mn-oxide deposits, mineralogy, geometallurgical.

Lettre soleau (pre-patents)

Orberger, B. –Goguelin, A. (2012). Mn-enrichment through ultrasonic treatment of Mn-oxide fines and elimination of phosphorous. (2012) N° d'enregistrement à l'INPL: 446311 du 19/04/2012 ; Réf. Interne : DJG_ES_12_003

Orberger, B., Salaün, A., Wallmach, T.; R. Wirth; V. Delarue, C. Goliath, Boussafir, M., Dreux, G., Rodriguez, C., Lafon, S., A. Schreiber (2014) : In-situ analyses of carbonaceous matter in manganese shales: Analytical proxies and implication for ore processing. Reference lettre Soleau: LAVOIX TSP14X1302, Paris, France; client account: ERAMET, CertiDate_001_0B0024559A; date of record : 22/12/2014 15:37:02.

Conference presentation & invited lectures (1985-2017)

2017

Invited Lectures

Université Franche Comté (Besançon):

« Lithium Deposits in circular economy » (21st March) (B. Orberger)

Zeppelin University, Friedrichshafen, Germany:

« **The strategic role of Lithium in the Global Energy Market: A geoscientists view** » (25th April) (B. Orberger)

Conferences:

TRIGGER, Teheran, IRAN 5-6 Mai 2017):

Orberger, B., Wagner, C., Fialin, M. Boudama, O., **Miska, S.**, **Tudryn, A.**, Derre, C., Nabatian, G., Honarmand, M., Mosef, I.; Ghods, A. (2017): Iron-oxide mineralogy of banded iron formations in the Takab region, North Western Iran.

15ème colloque annuel du GFA, Group Français des Argiles) Aix-Marseille-Provence, France 22 au 24 Mai

Nicolas Maubec, Pierre Gilles Blaineau, Anthony Da Silva Alves, Cedric Duee, Xavier Bourrat, **Beate Orberger**, Monique Le Guen, Anne Salaün, Celine Rodriguez

Caracterisations mineralogiques et cristallographiques d'argiles nickeliferes par DRX, Raman et couplage MEB-Raman. sciencesconf.org:gfa2017:145784. (Oral Presentation ?)

GISR 2017: Italian meeting on Raman spectroscopies and non-linear optical effects, Grignano, Trieste, June 7-9, 2017.

Maria Secchi, Marco Zanatta, Evgeny Borovin, Mauro Bortolotti, Arun Kumar, Marco Giarola, Andrea Sanson, Anne Salaün, Céline Rodriguez, Monique Le Guen, **Beate Orberger**, Nicola Daldosso, Stefano Gialanella, Gino Mariotto, Maurizio Montagna, Luca Lutterotti : Expert mineralogical investigations using a combined approach (Oral presentation) (GISR 2017- Abstract 2214)

AMAM- ICAM, International Conference on Applied Mineralogy and Industrial Applications, Castellenata Mare, Italy (5-9 June)

Beate Orberger, Anne Salaün, Clément Sthemer, Sebastien Lafont, Malo Rousseau (2), Vincent Delarue (2), Christiane Wagner : Rapid Particle Size and shape characterisation of fine grained iron ores: optimising comminution parameters. Scientific Research abstracts, V. 6, p71, ISSN 2464-9147 (online). Applied Mineralogy & Advanced Materials, AMAM-ICAM (Oral presentation).

Beate Orberger, Anne Salaün, Thomas Wallmach, Richard Wirth, Vincent Delarue, Mohammed Boussafir, Céline Rodriguez, Geoffrey Dreux, Sebastien Lafon. In-situ analyses of carbonaceous matter in metal-rich black shales: implications for ore processing. Scientific Research abstracts, V. 6, p72, ISSN 2464-9147 (online). Applied Mineralogy & Advanced Materials, AMAM-ICAM (Oral presentation).

Beate Orberger, Cedric Duée, Nicoalas Maubec, Valérie Laperche, Laure Capar, Anne Bouruignon, Xavier Bourrat, Yassine El Mendili , Stephanie Gascoin, Daniel Chateigner, Celine Rodriguez, Anne Salaün, Monique Le Guen, Gino Mariotto, Marco Giarola, Arun Kumar, Nicola Daldosso, Marco Zanatta, Luca Lutterotti, Evgeny Borovin, Mauro Bortolotti, Maria Secchi, Maurizio Montagna, Henry Pillière, Thomas Lefevre, Fons Eijkelkamp, Harm Nolte, Peter Koert, Saulius Grazulis, Fabien Trotet, Mohammed Kadar, Karen Devaux : Coupled Mineralogy and Chemistry on drill core samples: benchmarking on-line-real-time analyses. Scientific Research abstracts, V. 6, p70, ISSN 2464-9147 (online). Applied Mineralogy & Advanced Materials, AMAM-ICAM (Oral presentation)

Arun Kumar, Marco Giarola, Nicola Daldosso, Marco Zanatta, Gino Mariotto, Andrea Sanson, Maurizio Montagna, Maria Secchi, Evgeny Borovin, Mauro Bortolotti, Stefano Gianella, Luca Lutterotti, **Beate Orberger**, Monique Le Guen, Anne Salaün, Celine Rodriguez, Cedric Duée, Nicolas Maubec, and Xavier Bourrat: Combined Raman and EDXS analysis on drill core samples. Scientific Research abstracts, V. 6, p53, ISSN 2464-9147 (online). Applied Mineralogy & Advanced Materials, AMAM-ICAM. (Poster presentation)

SGA, Quebec, 22-25 August, Quebec, Canada

Duée, C., Maubec, N., Laperche, V., Capar, L., Bourguignon, A., Bourrat, X. El Mendeli, Y., Chateigner, D., Gascoin, S., mariotto, G., Giarol, M., Kumar, A., Daldosso, N., Zanatta, M., Lutterotti, L., Borovin E., Bortolotti, M., Secchi, M., Montagne, M., **Orberger, B.**, Le Guen, M., Salaün, A., Rodriguez, C., Trotet, F., Kadar, M., Devaux, K., Pilliere, H., Lefevre, T., Eijkelkamp, F., Nolte, H, Koert, P., Grazulis, S. (in press): Combined mineralogy and chemistry on drill cores: challenging for on-line-real-time analyses. SGA, Quebec, Canada, Proceeding 4 pages (in press). (rang C)

Orberger, B., Eijkelkamp, F., Le Guen, M. (2017). The importance of high quality drill cores for geometallurgy. SGA, Quebec, Canada, Proceeding 4 pages (in press).

Orberger, B., Wagner, C., Fialin, M. Boudama, O., Miska, S., Tudryn, A., Derre, C., Nabatian, G., Honarmand, M., Mosef, I.; Ghods, A. (2017). Iron-oxide mineralogy of banded iron formations in the Takab region, North Western Iran. SGA, Quebec, Canada, Proceeding 4 pages (in press).

Real Time Mining Conference, Amsterdam, 11-12 October

International Workshop of Ni-laterite, Nancy, 14-16 October

2016

10th January, 23 and 26 February

Invited Lectures, Universität Halle, Germany ; University of Geneva, Brussels, Academy of Science Brussels: Lithium resources, origin, exploration, mining and marketing.

EUG, Vienna, Austria, April

Wagner, C., **Orberger, B.**, Tudryn, A., Wirth, R., Morgan, R., Miska, S.: Key parameters for low-grade fine-grained iron ore valorization: lower environmental impact through reduced waste

IMPC, Quebec City, Quebec, Canada, September

Orberger, B., Tudryn, A., Wagner, C., Baptiste, B., C. Wirth, R., Morgan, R.M. (in press). Hematite and goethite inclusions in low-grade dolomitic banded iron formations : physical parameter evaluation to optimize ore beneficiation.

2015

Goldschmidt Conference, August, Florence, Italy

Tudryn, A., Wagner, C., **Orberger, B.**, Wirth, R., Baptiste, B., Morgan, R. : Iron oxyhydroxides inclusions in dolomitic banded iron formations (example from the Cauê Formation, Quadrilátero Ferrífero, Brazil)

13th SGA, Nancy, France (24-27 August)

Dubois, Lopez, Orberger, Rodriguez, Rodrigues, Pambo : Origin of Mn-carbonates, Francevillian basin, Gabon

Rojas, Orberger, Millot, Flehoc. Stable isotope tracers in the Centenario and Ratonés Salrs, Puna region, Argentina

AIG, Applied Isotope Geochemistry Conference, Orléans, 22 September 2015.

Orberger, B., Rojas, W., Millot, R., Flehoc, C.

2014

IMA, Johannesburg, South Africa (1-5 September)

Blancher, S. ; Orberger, B., Goguelin, A. ; Bellver Baca, M.T.: Visilog : a performant software for mineral quantification in mining and metallurgical processing.

Orberger, B., Tudryn, A., Wirth, R. ; Morgan, R. : Stability of Ironoxyhydroxides inclusions in micritic dolomite of carbonate hosted banded iron formations of the 2.4 Ga Cauê Formation (Quadrilátero Ferrífero, Brazil)

Orberger, B., Morgan, R., Hofmann, A. The environment of deposition of the 2.7 Ga Manjeri formation, Beilings Greenstone belt, Zimbabwe.

2013

SGA conference, Uppsala, 12-15 August

Orberger, B., Tudryn, A., Wagner, C., Wirth, R., Fabris, J.D., Greneche, J.M., Morgan, R. : Martitisation : the transformation of magnetite to hematite, its origin and implication for iron ore beneficiation through magnetic separation.

Invited lecture : Ecole Thématique for Doctoral schools in France and Switzerland and Belgium : Mining and Geology, Geneva, 5-7 february

B. Orberger : Ore deposits in sedimentary basins :from mining to exploitation.

2012

SEG Conference, Lima, September

Orberger, B. & Goguelin, A. : Ultrasound treatment on fine grained oxidized Mn-ore : Mn enrichment and impoverishment in P.

International Metallurgical processing Conference, Delhi, India (September).

Orberger, B., Goguelin, Dusanter, B., Blancher, S. : Phosphorous depletion through ultrasound treatment of Mn-oxides fines.

2011

SEG-SGA Conference, Antofagasta, Chili, September

Orberger, B. & Axel Hofmann: Uranium mineralisation in silicified black shale pebbles of the Precambrian Pongola conglomerate

2010 :

EUG, Vienne, Mai 2010

R. Morgan, **B. Orberger**, A. Hofmann, M. Bah, A. Noret : Discrimination between original and non-original biosignatures in banded iron formations: petrological and geochemical evidences from the 2.7 Ga Manjeri Formation, Belingwe Greenstone Belt, Zimbabwe, Abstracts, v. 12, EGU2010-919-2, 2010.

International Mineralogical Association, Budapest, Hungary, Août

Orberger, B., Wagner, C. , Wirth, R. , Derré, C. , Quirico, E. , Montagnac, G. , Noret, A. , Jayananda, M. Massault, M., Rouchon, V.: Hematite formation catalyzed by organic matter in banded iron formations

Morgan, R., **Orberger, B.**, François, P., Hofmann, A. & Rosière, C.A.: Carbonate mineral-chemistry in Late Archean to Early Proterozoic banded iron formations: a proxy for the evolution of ocean chemistry and its implication for metal concentrations

AGU, South America, Iguazu, Brazil, Août

Morgan, R., **Orberger, B.**, François, P., Hofmann, A. & Rosière, C.A.: Carbonate mineral-chemistry in Late Archean to Early Proterozoic banded iron formations: a proxy for the evolution of ocean chemistry and its implication for metal concentrations, Research Abstracts, v. 12, EGU2010-919-2, 2010.

Colloque, PNP Planétologie, Brest, septembre

Orberger, B., Wagner, C. , Wirth, R. , Derré, C. , Quirico, E. , Montagnac, G. , Noret, A. , Jayananda, M. , Massault, M. , Rouchon, V. : Hematite formation catalyzed by organic matter in banded iron formations.

Megneng, M., **Orberger, B.**, Hofmann, A.: Origin of uranium Mineralization in Archean placer deposits : implication for the evolution of the Archean atmosphere

Morgan, R., **Orberger, B.**, François, P., Hofmann, A. & Rosière, C.A. : Carbonate mineral-chemistry in Late Archean to Early Proterozoic banded iron formations: a proxy for the evolution of ocean chemistry and implication for metal concentrations.

2009 :

Precambrian World, Fukuoka, Japan, March :

Orberger, B., Wagner, C., Wirth, R., Noret, A., Gallien, JP, Jayananda, M., Rouchon, V., Quirico, E., Montagnac, G., Massault, M. : Origin of Fe-oxide sphérules in banded iron formation of the 2.9. Ga old Bababudan group, Southern India

Ribeiro-Dottori, F., **Orberger, B.**, Linares, J., M. Bah Saliou II, Hofmann, A., Rosière Carlos, Trudyn, A. : Mössbauer spectroscopie on banded iron formations from 2.4 to 3 Ga, implications for martian surface investigations

Vulgarisation-grand public : Colloque pluridisciplinaire, 18. Mars :

Univ. Paris Sud XI (année de l'Astronomie 2009)

B. Orberger : Les environnements marins de la Jeune Terre : existe-t-il des analogues sur Mars ?

Goldschmidt Conference, Davos, 21-25 June

B. M. Saliou II, **B. Orberger**, Trudyn, Hofmann : A reducing environment for the Banded iron formation of the Manjeri Formation, Belingwe Greenstone belt, Zimbabwe.

SGA-conference: 16-20 August 2009

B. M. Saliou II, **B. Orberger**, Trudyn, Hofmann : Metal evolution in the banded iron formation, Belingwe greenstone Belt, Zimbabwe

2008 :

Colloque Franco-Brésilien, Université Paris XI, 25-27.3. 2008-03-21

Beate Orberger¹, Richard Wirth², Christiane Wagner³, Fabiana Ribeiro-Dottori¹, Jorge Linares⁴, Camila da Mota Carvalho¹, Marc Massault¹, Virgile Rouchon¹, Ko Hashizume⁵, D.L. Pinti⁶, Axel Hofmann⁷, Jean Paul Gallien⁸, M. Jayananda, Carlos Rosière: Les plus grands gisements de fer du monde vu à nanoéchelle : une approche clé pour expliquer leur génèse, et leur signification pour la recherche de vie sur Mars

European Science Foundation, Workshop on Early Habitats of Life, Vienne 10-13 Avril

C. Da Mota Carvalho, C. A. Rosière, **B. Orberger**: Proterozoic dolomitic banded iron formations, (Quadrilátero Ferrífero District, Minas Gerais, Brazil): Biological or Abiological Origin.

C. Garonne, B ; **Orberger**¹ J. Linares, C. Wagner, A ; Hofmann: Iron-oxides mineralogy in banded iron formations from 3.5 to 2.65 Ga by spectroscopy Mössbauer: implications for iron oxides analyses on the Martian surface; Examples from South Africa and Zimbabwe

Réunion des Sciences de la Terre, Nancy, France 20-24 Avril 2008

C. Da Mota Carvalho, C. A. Rosière, **B. Orberger**: Proterozoic dolomitic banded iron formations, (Quadrilátero Ferrífero District, Minas Gerais, Brazil): Biological or Abiological Origin.

C. Garonne, B ; **Orberger**¹ J. Linares, C. Wagner, A ; Hofmann: Iron-oxides mineralogy in banded iron formations from 3.5 to 2.65 Ga by spectroscopy Mössbauer: implications for iron oxides analyses on the Martian surface; Examples from South Africa and Zimbabwe

Mössbauer Spectroscopy, 28-29 Mai, Mons, Belgium

C. Garonne, B. Orberger, J. Linares, C. Wagner., R. Wirth, K. Hashizume: Mössbauer spectroscopy used for iron-oxide determination in banded iron formations: implications for analyses on the Martian surface.

Goldschmidt Conference, Vancouver, 13-18 July, 2008

V. Rouchon and **B.Orberger**: K-Si-metasomatism of 3.4-3.3 Ga volcanoclastic sediments: implications for Archean seawater evolution

B. Orberger, R. Wirth, C. Wagner , M. Jayananda, V. Rouchon: The role of Fe-oxides and quartz in the sequestration of carbonaceous matter in Archaean iron formations: (Dhawar Craton, India ~2.9-2.72 Ga)

C. Garonne, **B. Orberger**, J. Linares, C. Wagner, R. Wirth, K. Hashizume : Mössbauer spectroscopy used for iron-oxide determination in banded iron formations: implications for analyses on the Martian surface

C. Da Mota Carvalho, C. A. Rosière, **B. Orberger**: F and Ba in dolomitic iron formations Quadrilátero Ferrífero District, Minas Gerais, Brazil)

2007

Invited Lecture : Université Federal de Minas Gerais, Belo Horizonte, Brasil, 24. 5.

B. Orberger : Metal-rich anoxic environments : possible environments for the emergence of life ?

Goldschmidt Conference, Cologne, August

B. Orberger, R.Wirth, N. Rividi, C. Wagner, A. Hofmann, J.P. Gallien, G. Montagnac, E. Quirico: Nanometric jarosite/alunite in carbonaceous matter rich cherts: *marble bar drill core (#1 ABDP)*: indications for acid-sulfate conditions in a hydrothermal system

V. Rouchon, **B. Orberger**, A. Hofmann, D. L. Pinti
Diagenetic evolution of the Hooggenoeg Formation: implication for Archean seawater composition

The Archean Symposium, London, Ontario, Canada. 19. – 26.8. 2007

B. Orberger, K. Hashizume, H. Soyama, R. Wirth, A. Hofmann, J.P. Gallien, C. Wagner, M. Jayananda, V. Rouchon, D..L. Pinti: Nitrogen and carbon in Archean iron formations.

Invited Conference IAGOD-SGA : Geological Survey Praha : 17.9.

B. Orberger : Metal-rich anoxic environments : a possible biotope for the emergence of life ?

INVITED CONFERENCE : MUSÉE DE L'AFRIQUE CENTRAL UNIVERSITE Libre de Bruxelles (20.12. 2007)

B. Orberger, K. Hashizume, H. Soyama, R. Wirth, A. Hofmann, J.P. Gallien, C. Wagner, M. Jayananda, V. Rouchon, D..L. Pinti: Nitrogen and carbon in Archean iron formations.

2006

Invited Conference GFZ Potsdam, Germany, 28. Fevrier

B. Orberger: "Schwarzschiefer: extreme Metallkonzentrationen und Lebensbedingungen"

Colloque pluridisciplinaire Université Paris Sud : 16 Mars

B. Orberger : Les shales noirs riches en métaux : un possible niche pour l'émergence de la vie ?

EGU, Vienne, 2-7 Avril

Orberger, B., Vymazalova, A., Wagner, C., Fialin, M., Gallien, J.P., Wirth, R., Pasava, J., Montagnac, G. : Trace metals and nitrogen in Mo-S-C phases (Cambrian black shales, Southern China).

Orberger, B., Rouchon, V., Pinti, D.L., Westall, F., de Vries, S., Hashizume, K. : Microfacies of some Archean cherts (Pilbara, Australia)

Rividi, N., Orberger, B., Karim, A. Vachard, D. : Origin of phosphates in siliciclastic sediments and carbonates

GAC-MAC, Montreal, Canada (Mai)

Rouchon, V., Hashizume, K., Pinti, D.L., **Orberger, B.**: Nitrogen isotopes in Hoogenoeg Formation, Barberton Greenstone Belt, South Africa

C. Cloquet, D. L. Pinti, **B. Orberger**, K. Hashizume, M. Jayananda and V. Rouchon: Iron isotopic composition of iron-silica layers along a profile in a single ~2.9Ga old BIF from Dharwar Craton, southern India

D. L. Pinti, **B. Orberger**, K. Hashizume, C. Cloquet, R. Wirth: Investigating biomarkers (N, C, Fe) in Archean cherts at micro- and nanoscale: new techniques at work.

IAGOD, Moscow, Aout

Vymazalova, A., **Orberger, B.**, Wagner, C., M. Fialin, J.P. Gallien, R.Wirth, G. Montagnac, J.Pasava: Trace metals and nitrogen in sulfides from the black shales (Zunji Formation, South China)

Invited Conference : Université Kwa-Zulu Natal, Durban, South Africa, Mai

B. Orberger: Mineralized black shales : a possible paleobiotope for the Cambrian Explosion?

International Sedimentological Congress: Fukuoka, Japan, Août

Karim, A., **Orberger, B.**, Vachard, D., St Bezar, B.: Depositional environments and diagenetic evolution of Mississippian calcareous sandstones and thrombolites: the Late Viséan Tizra Formation (Central Morocco)

GDR TRANSMET: Nancy, Colloque National, 6-7 th July

B. Orberger, A.Vymazalova, C. Wagner, M. Fialin, JP Gallien, R.Wirth, G. Montagnac, J.Pasava
Origin of MoSC phases in Lower Cambrian black shales (Southern China)

16th Goldschmidt Conference, Melbourne, Australie : 27.8.- 1.9.

B. Orberger, A.Vymazalova, C. Wagner, M. Fialin, JP Gallien, R.Wirth, G. Montagnac, J.Pasava
Origin of MoSC phases in Lower Cambrian black shales (Southern China)

B. Orberger, D.L. Pinti, C. Cloquet, K. Hashizume, H. Soyama, M. Jayananda, M. Massault, J.P. Gallien, R. Wirth, V. Rouchon, J.L. Michelot: Biomarkers in Archaean banded iron formations from Pilbara and Dhawar Craton

Hofmann, R. Bolhar, C. Harris: **B. Orberger**: Silica alteration zones and cherts as a record of hydrothermal processes on the Archaean seafloor.

K. Hashizume, A. Sugihara, D.L. Pinti, **B. Orberger**, F. Westall : Search for primordial biogenic isotopic signatures of nitrogen in Archean sedimentary rocks.

N. Rividi, **B. Orberger**, A. Hofmann²: Origin of black cherts from the Marble Bar Drill Core #1 (Pilbara,W-Australia)

PNP, Colloque national, Nancy, 11-13 septembre

B. Orberger, D.L. Pinti, C. Cloquet, K. Hashizume, H. Soyama, M. Jayananda, M. Massault, J.P. Gallien, R. Wirth, V. Rouchon, J.L. Michelot : Biomarkers in Archaean banded iron formations from Pilbara and Dhawar Craton

N. Rividi, **B. Orberger**, A. Hofmann: Origin of black cherts from the Marble Bar Drill Core #1 (Pilbara,W-Australia).

Rouchon, V., **Orberger, B.**, Pinti, D.L., Westall, F. : Silicification of Kittys Gap Chert, Pilbara, Australia.

ESPC, BERLIN, SEPTEMBRE (co-convenor : session origin of life)

B. Orberger, D.L. Pinti, C. Cloquet, K. Hashizume, H. Soyama, M. Jayananda, M. Massault, J.P. Gallien, R. Wirth, V. Rouchon, J.L. Michelot : Biomarkers in Archaean banded iron formations from Pilbara and Dhawar Craton

Invited lecture: Gladbeck, Ratsgymnasium (200 Highschool students: 20. décembre 2006

B. Orberger : Die ersten 4 Milliarden Jahre der ERDE:

2005

Invited Lecture : Geochem Workshop (cadre : PAI Barrande), Septembre, Czech Republic

Orberger, B : Environmental impact during the exploitation of Banded Iron Formation deposits

SGA Biannual Meeting, Beijing, China, August

Orberger, B., Wagner C., Vymalanove, A., Kribek, B., Pasava, J.: Rare metal sequestration in black shales from the Nunitang Formation, Southern China.

Invited lecture, GFZ Potsdam, Germany, 13. January

B. Orberger : Archaean cherts : key-material for the search of early life

EGU, Vienna, Austria, April

Karim, A. ; **Orberger, B.**, Vachard, D., Berkli, M. : Depositional environments and diagenetic evolution of gresco-carbonaceous sediments and microbialites of the Central Moroccan basin : exemple Tizra

2004

Invited lecture: Fondation Treilles : workshop on the Early Earth, 2-7th March, ,

Orberger, B.: Chert : a key-material for the Search of Life

Orberger, B., Pinti, D.L., Gallien, J.P., Wagner, CH., Fialin, M., Daudin, L., Hashizume, K. Micropaleoenvironments of an Archean Chert : a key for understanding $d^{15}N$ signatures.

AGU, Spring Meeting, Montreal, Canada (12-15 May)

Wagner, Ch., **Orberger, B.**, Pinti, D.L., Gallien, J.P., Daudin, L., Hashizume, K. : The N-story of a hydrothermal Archean BIF-bearing chert.

20th Colloquium of African Geology (2-7 June), Orléans, France

Karim, A., Berkli, M., Vachard, D., Tribovillard, N., **Orberger, B.**: Carbonate bioconstructions of the limit Upper Visean/Serpukhovian : example from the Central Moroccan basin.

B. Orberger, D. Vachard, M. Berkli, R. Hoffbauer, N. Rividi, A. Faure-Muret : Multiscale heterogeneities in Carboniferous siliciclastic turbidites from the Central Moroccan Basin : influence on reservoir qualities

Goldschmidt Conference, June, Copenhagen, Denmark,

V. Rouchon, **B. Orberger**, F. Westall, J-P Gallien and D.L. Pinti : Archean protominerals and their evolution during chert formation : Kittys Gap, Pilbara Complex

Field Forum on Processes on the early Life (4-9 July), Barberton, South Africa

B. Orberger, D. Pinti, F. Westall : Black shale origin of an Archean chert from the Dresser Formation, North Pole (Pilbara, Australia) ?

B. Orberger, V. Rouchon, D. Pinti, F. Westall : Significance of phosphates in Archean cherts

V. Rouchon, **B. Orberger**, D. Pinti, F. Westall, J-P Gallien : Kitty's Gap (Pilbara, Australia) silicified pyroclastites: preservation of early alteration products?

F. Westall, **B. Orberger**, V. Rouchon, J.N. Rouzaud: On the Identification of Early Archean microfossils in cherts from Barberton and the Pilbara.

D.L. Pinti, **B. Orberger**, V. Rouchon : N isotopes as chemical fossils in Precambrian rocks

Workshop Microbialites, Societe Geologique de France, Paris, 6-7. september

Karim, A., Berkli, M., Vachard, D., **Orberger, B.**: Microbialites of the central Moroccan Basin.

Réunion des Sciences de la Terre, 26.-29. Septembre, Strasbourg, Frankreich

B. Orberger, J.P Gallien, M. Fialin J. Pasava, D. Pinti , C. Quantin: Selenium and arsenic sequestration in hydrothermally-infiltrated black shales (Selwyn basin, Yukon Territory, Canada)

V. Rouchon, **B. Orberger**, D. Pinti, J.P. Gallien, F. Westall : A silicification model of Archean volcanoclastites: Kitty's Gap cherts, Pilbara, Australia.

S. Lakhdar, **B. Orberger**, D. Vachard, A. Filly : Origin and early diagenesis of phosphorous and iron in Upper Devonian carbonate sandstones (Khenifra-Azrou Basin, Central Morocco)

A. Karim, D. Vachard, M. Berkli, N. Tribovillard, **B. Orberger**: Diagenetic Evolution of Carbonate bioconstructions of the Upper Visean/Serpukhovian limit: example from the Central Moroccan basin

International Congress on Nuclear Methodes and Technologies Applications (ICNMTA), Dubrovnik, Croatia, Septembre

Gallien, JP; Rouchon, V.; Daudin, L.; Pinti, D.L.; **Orberger, B.**; Westall, F. : N and Carbon nuclear reaction analysis on minerals from an Archean silicified rhyolitic pyroclastite

Annual Meeting of the Mass Spectrometry Society of Japan, 24-26 november

2004, KAMINOYAMA ONSEN, YAMAGATA KEN, JAPAN.

V. Rouchon, A. Sugihara, **B. Orberger**, D. Pinti, K., Hashizume, J-P. Gallien and F. Westall, Archean chert mineralogy and its nitrogen isotopic composition : Kittys Gap, Pilbara, Complex, Poster Abstract n°13.

Invited lecture, 3 and 4 December, Prague, Czech Republic

1. Czech Geological Survey :

Orberger, B.: Selenium sequestration in black shales from the Selwyn basin, Yukon, Canada and comparison with Chinese black shales

2. Charles University :

Orberger, B.: N-story of a BIF bearing chert, Pilbara, Australia.

2003

Conférence invitée Centre de Biophysique Moléculaire CNRS (UPR 4301), Orléans, France

8. Octobre

Orberger, B., Gallien, J.P., Pinti, D., Wagner, Ch., Fialin, M., Daudin, L., Hashizume, K. : Mineralogie et géochimie d'un chert archéen : la recherche des sites de l'azote.

GOLDSCHMIDT CONFERENCE, KURASHIKI, JAPAN, 7-12. 9.

Gallien, J.P., **Orberger, B.**, Pinti, D.L., C. Wagner, M. Fialin,, L. Daudin, K. Hashizume : Mineralogy and geochemistry of an Archaean chert : in quest of N-sites. *Geochimica et Cosmochimica Acta*, Vol. 67, 18, A115.

Orberger, B., Gallien, J.P., Pasava, J., Daudin, L., Pinti, D.L. : Alkaline hydrothermalism in S-rare metal and P-rich black shales. *Geochimica et Cosmochimica Acta*, Vol. 67, 18, A364.

Geofluids IV, Utrecht, Netherlands, 11-16. May

Orberger, B., Pasava, J., Gallien, J.P., Daudin, L., Pinti, D.L. Biogenic and abiogenic hydrothermal sulfides : controls of rare metal distribution in black shales (Yukon Territories, Canada).

2002

11th Quadrennial IAGOD Symposium and Geocongress, 22-26.7., Windhoek, Namibia

Orberger, B., Faure-Muret, A., Hoernes, St. Rais, F., Meslouh, S. Influence of diagenesis and tectonic evolution on the mobilisation of rare earth elements and base metals in silicoclastic sediments (Khenifra-Azrou Basin, Central Maroc). *The Geological Society of Namibia, South Africa and Zambia*, abstr. p. 37.

Orberger, B., Pasava, J., Gallien, J.P.: Se, As, Mo, Pt, Au, Cd traces in framboidal pyrite, Ni-Fe and Zn-sulfides from the Ni-Zn-Mo-PGE rich sulfide layers (Nick Property, Yukon, Canada), *The Geological Society of Namibia, South Africa and Zambia, 11th Quadrennial IAGOD Symposium and Geocongress 2002*, abstr. p. 37.

Colloque National (CNRS-INSU-CNES) "EXOBILOGIE", CNES, Paris 27-29 Mai

Orberger, B., Pasava, J., Gallien, J.P.: Tracage des interactions fluides hydrothermaux et micro-organismes dans les schistes noirs anciens: localisation minéralogique et chimique de Se, Mo, As, U, Tl, Zn, Ni, Cu, Ag, Cd, Pt, Au et évaluation des conditions physico-chimiques de l'environnement de dépôt.

Colloque National (CNRS-INSU) GEOMEX (28/29 June)

Orberger, B., Pasava, J., Gallien, J.P.: Processus et mécanismes de transport et de dépôt de Se, REE, Zn, Cu, Ni, As, Se, Cd, Tl, Pt, Au: Concentration dans les schistes noirs, interaction fluides hydrothermaux et micro-organismes

International Conference on Nuclear Microprobe Analyses and Technology, Takahashi, Japon (Septembre)

Orberger, B., Pasava, J., Gallien, J. P., Trocellier, P. : Se, As, Mo, Pt, Au, Cd, In, Sb, Tl, Re traces in bio-chemical sulfides from Black Shales (Selwyn Basin, Yukon Territories, Canada) : A nuclear microprobe study.

2001

Tenth International Water-rock Symposium, Sardinia, Italy, 10th-16th June

Orberger, B., Pagel, M., Michelot, JL : Fluid-rock interaction in siltstones : origine of exceptional mechanical properties

EUG XI Strasbourg, 8-13. April

Orberger, B., Morel, JL, Faure-Muret, A., Rais, F., Meslouh, S., Zouine, M., Boursoumi, A., Tayeb, M., Benfrika, M., Berkhli, M. : Fluid circulation during the tectonic evolution of the Foreland basin of Khenifra-Azrou, Massif Central Morocco : preliminary results . (Terre abstract)

2000

Geofluides II, Barcelone, Espagne, 11-14 Juillet

Orberger, B. & Pagel, M.: Diagenetic evolution of Cretaceous siltstones of the SE French Basin: Drill core MAR 501.

18. Réunion des Sciences de la Terre, Paris: 17-20 April

Orberger, B. & Pagel, M.: Hétérogénéités d'origine diagénétique dans les siltites crétacées du forage MAR 501 (Gard, France)

Peyaud, JB., **Orberger, B.**, Pagel, M., Cabrera, J.: Diagenèse et transferts en milieu argileux fracturé : les argilites de Tournemire (Aveyron, France)

1999

Journée de la Microsonde Nucléaire, Laboratoire Pierre Süe, CEA, Saclay, 12. 5.

Orberger, B., Métrich, N., Mével, C., Mosbah, M., Fouquet, Y.: Trace elements in serpentine minerals and the role of seawater (14°45' on the Mid-Atlantic Ridge: the Logatchev hydrothermal field)

EUG 10, Strasbourg, 28.3.-1.4.

Orberger, B., Métrich, N., Mével, C., Mosbah, M., Fouquet, Y.: Trace elements in serpentine minerals and the role of seawater (14°45' on the Mid-Atlantic Ridge: the Logatchev hydrothermal field); (abstr. Journal of conference abstracts, ISSN: 1362-0886; p. 389)

Pagel, M.; **Orberger, B.**; Clauer, N., De Windt, L.; Cabrera, J.: Calcite veins in the Toarcien shales of the Tournemire Tunnel (Aveyron, France): open vs closed systems (abstr. Journal of conference abstracts, ISSN: 1362-0886; p. 529)

1998

Congress: ICNMTA, Capetown, November, South Africa

Orberger, B., Metrich, N., Mosbah, M., Mével, C., Fouquet, Y. (1998): Nuclear microprobe analyses on serpentine minerals from the Mid-Atlantic Ridge.

1997

Colloque "Dorsale", CNRS, Paris 23-24 November, France

Orberger, B., Metrich, N., Mosbah, M., Meville, C.: Nuclear microprobe analyses on serpentine minerals from 14°45' N (site Logachev) on the Mid-Atlantic Ridge. (abstr. p. 80)

EUG 9, Strasbourg, 23-27 March, France

Orberger, B.; Xu, Y.; Reeves, Sh.: Platinum-group elements in mantle xenoliths from NE China: a tracer for rifting processes. (abstr. p. 83)

1996

5th International Conference on Nuclear Microprobe Technology and Applications, Santa Fe, New Mexico, USA, November 10-15

Maetz, M.; **Orberger, B.**; Traxel, K.; Wathanakul, P. Pitragool, S.: Protonmicroprobe analyses on alluvial platinum-group-elements and gold grains from paleoterraces of the Mekong river.

Goldschmidt Conference, March 31-April 4, Heidelberg, Germany

Orberger, B., Lorand, J.P., Keays, R., Reeves, S., Mercier, J.C.: Platinum-group elements as a tracer for melt-rock interactions in peridotites. Exemple: The Nan-Uttaradit Ophiolite, NE-Thailand (Journal of Conference abstract Vol. 1 (1) p. 445.

Faisceau d'Ion dans le domaine des Sciences de l'Univers, 26.2. IPGP

Orberger, B.; Maetz, M., Traxel, K.: L'analyses de la microsonde protonique des ultra-traces dans les sulfures et des grains alluviaux à platinoïdes

Invited conference: Max Planck Institut for Nuclear Physics, Heidelberg, 18 January

Orberger, B.: The platinum-group elements in the geological cycle

1995

EUG 8, Strasbourg 9-13 April

Orberger, B., Lorand, J.P., Keays, R.: Platinum group elements in the Nan Uttaradit ophiolite: an indicator for boninitic type melt depleted peridotite interaction. (Terra abstracts, p. 336)

1993

IAGOD-Symposium: Mineralisations in mafic and ultramafic rocks, 1-3 September, Orléans

Orberger, B., Girardeau, J., Lorand, J.P., Pitragool, S.; Mercier, J.C.C.: Petrogenesis of chromitites and their ultramafic hostrocks in the Nan-Uttaradit ophiolite, NE Thailand.

Orberger, B.; Lorand, J.P.; Keays, R.R.: Platinum-group-element geochemistry of the Nan-Uttaradit ophiolite sequence, NE-Thailand

SGA conference, Granada, Spain: 9-11.September

Orberger, B., Girardeau, J., Lorand, J.P., Pitragool, S.; Mercier, J.C.C.: Chromitite mineralisation in the Nan-Uttaradit ophiolite complex, Northern Thailand: a result of melt/rock interaction.

1991

EUG VI Strasbourg, France, March

Orberger, B.: Chromite mineralization in the Nan-Uttaradit ultramafic-mafic belt, Northern Thailand. Terra abstracts p. 110.

Sixth International Platinum Conference, Perth, Australia, July

Orberger, B. & Ohnenstetter, M.: Platinum-group-elements in the Nan-Uttaradit mafic-ultramafic belt, Northern Thailand.(abstr.) p.25.

GEOSEA VII, Seventh regional conference on Geology, Mineral and Energy Resources of Southeast Asia, Bangkok, Thailand, November

Orberger, B.; Girardeau, J., Pattamakaew, K.; Gair, H.S., Jeenawut, S.; Pramaphan, S.; Munsamai, S., Chaisomboon, U.; Angkaew, G., Wonyai, A., Premmanee, S.; Pitragool, S. Chromite mineralization in the Nan-Uttaradit mafic-ultramafic belt, Northern Thailand.(abstr.) p. 26.

Orberger, B., Ohnenstetter, M., Pitragool, S., Wathanakul, P., Sektheera, S.; Davis, D.: Alluvial Platinum-Group-Metals in northern Burma and northern Thailand and their possible sources. p.26.

1990

Symposium on ophiolite genesis and evolution of oceanic lithosphere, Muscat, Oman, January

Orberger, B., Alleweldt, J.; Friedrich, G., Woermann, E.: Mineralogical and geochemical constraints on Pt-Pd/Ni-Cu-sulfide bearing black serpentinite of the lower oceanic crust of the Acoje ophiolite block, Zambales, Philippines. (abst) G4

Busse, A.G., **Orberger, B.**, Friedrich, G.: Classification of mafics from the Nan/Uttaradit mafic ultramafic belt (Northern Thailand) by comparative major and trace element geochemistry with the Acoje/Zambales ophiolite block and the Donqiao/Xianxa ophiolite. (abstr. G7)

Application of nuclear instruments, International Congress, Melbourne, Australia, February

Orberger, B. & Traxel, K.: Protonmicroprobe analyses on Ni-Cu-sulfides from the Acoje ophiolite block, Zambales, Philippines. (abstr. p. 15).

1989

International Intermontane Basin : Geology & Resources, Chiang Mai, Thailand, January

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