



Liste non-exhaustive des publications en lien avec la plate-forme MET de l'IMPMC

2012

A. Bernadac, LF Wu, CL Santini, C. Vidaud, JN Sturgis, N. Menguy, P. Bergam, C. Nicoletti, T. Xiao

Structural properties of the tubular appendage spinae from marine bacterium *Roseobacter* sp strain YSCB

Scientific Reports (2012), 2, 950

M.E. Galvez, O. Beyssac, K. Benzerara, N. Menguy, S. Bernard and S. Cox

Micro- and nano-textural evidence of Ti(-Ca-Fe) mobility during fluid-rock interactions in carbonaceous lawsonite-bearing rocks from New Zealand

Contrib Mineral Petrol (2012) 164:895–914

J. Han, F. Testard, F. Malloggi, P.E. Coulon, N. Menguy and O. Spalla

Understanding of the Size Control of Biocompatible Gold Nanoparticles in Millifluidic Channels

Langmuir (2012), 28, 15966–15974

M. Gaceur, M. Giraud, M. Hemadi, S. Nowak, N. Menguy, J.P. Quisefit, K. David, T.

Jahanbin, S. Benderbous, M. Boissiere, S. Ammar

Polyol-synthesized Zn_{0.9}Mn_{0.1}S nanoparticles as potential luminescent and magnetic bimodal imaging probes: synthesis, characterization, and toxicity study

Journal of Nanoparticle Research (2012) 14, 932

O. Dargaud, L. Cormier, N. Menguy, G. Patriarche

Multi-scale structuration of glasses: Observations of phase separation and nanoscale heterogeneities in glasses by Z-contrast scanning electron transmission microscopy

Journal of Non-Crystalline Solids (2012) 358, 1257–1262

M.E. Galvez, O. Beyssac, K. Benzerara, S. Bernard, N. Menguy, SC Cox, I. Martinez, MR

Johnston GE Brown

Morphological preservation of carbonaceous plant fossils in blueschist metamorphic rocks from New Zealand

Geobiology (2012) 10, 118-129

E. Boulard, N. Menguy, AL Auzende, K. Benzerara, H. Bureau, D. Antonangeli, A. Corgne, G.

Morard, J. Siebert, JP Perillat, F. Guyot, G. Fiquet

Experimental investigation of the stability of Fe-rich carbonates in the lower mantle

J. Geophysical Research - Solid Earth (2012), 117, B02208

Babinot Julien, Guigner Jean-Michel, Renard Estelle, Langlois Valerie (2012)
A micellization study of medium chain length poly(3-hydroxyalkanoate)-based amphiphilic diblock copolymers.)
Journal of colloid and interface science 375 88

Bonfils B., Bourgeoi, F., Julcour-Lebigue C., Guyot F., Bodénan F., Chiquet P., Bourgeois F. (2012)
Comprehensive analysis of direct aqueous mineral carbonation using dissolution enhancing organic additives
International Journal of Greenhouse Gas Control . 9, 334–346

Bureau Helene; Langenhorst Falko; Auzende Anne-Line; et al. (2012)
The growth of fibrous, cloudy and polycrystalline diamonds
Geochimica et Cosmochimica Acta 77 202

Coppari F., A. Polian, N. Menguy, A. Trapananti, A. Congeduti, M. Newville, V. B. Prakapenka, Y. Choi, E. Principi and A. Di Cicco (2012)
Pressure-induced transformations in amorphous Si-Ge alloy
Physical Review B, 85, 04520

De Zorzi, R., E.A. Bray, W. Nicholson, J.M. Guigner, F. Erne-Brand, H. Stahlberg and C.Vénien-Bryan (2012)
Systematic and rational screening of 2D crystallization conditions for the bacterial potassium channel KirBac3.1, in press

Francois F.; Lombard C.; Guigner J.M.; et al. (2012)
Isolation and Characterization of Environmental Bacteria Capable of Extracellular Biosorption of Mercury
Applied and Environmental Microbiology 78 1097

2011

Alloyeau, D., B. Stephanidis, X. Zhao, E. Larquet, N. Boisset, and C. Ricolleau (2011)
Biotemplated Synthesis of Metallic Nanoclusters Organized in Tunable Two-Dimensional Superlattices.
Journal of Physical Chemistry C 115:20926-20930

Alphandery E., C. Carvallo, N. Menguy, N. I. Chebbi (2011)
Chains of Cobalt Doped Magnetosomes Extracted from AMB-1 Magnetotactic Bacteria for Application in Alternative Magnetic Field Cancer Therapy
J. Physical Chemistry C, 115, 11920-11924

Benzerara K., Menguy N., Obst M., Stolarski J., Mazur M., Tyliczak T., Brown G. E. Jr., Meibom A. (2011)
Study of the crystallographic architecture of corals at the nanoscale by scanning transmission x-ray microscopy and transmission electron microscopy
Ultramicroscopy 111,1268-75.

Boulard, E., A. Gloter, A. Corgne, D. Antonangeli, A.L. Auzende, J.P. Perillat, F. Guyot and G. Fiquet., (2011)

New host for carbon in the deep Earth

Proc. Nat. Acad. Sc. 108, 5184-5187

Busson, M. P., B. Rolly, B. Stout, N. Bonod, E. Larquet, A. Polman, and S. Bidault (2011)

Optical and Topological Characterization of Gold Nanoparticle Dimers Linked by a Single DNA Double Strand

Nano Letters 11:5060-5065

Cormier L., O. Dargaud, N. Menguy, G. S. Henderson, M. Guignard, N. Trcera and B. Watts (2011)

Investigation of the Role of Nucleating Agents in MgO-SiO₂-Al₂O₃-SiO₂-TiO₂ Glasses and Glass-Ceramics: A XANES Study at the Ti K- and L_{2,3}-Edges

Crystal Growth & Design, 11, 311–319

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Mesoscopic scale description of nucleation processes in glasses

Appl. Phys. Lett., 99, 021904

Lahlil S., M. Cotte, I. Biron, J.Szlachetko, N. Menguy, J Susini (2011)

Synthesizing lead antimonate in ancient and modern opaque glass

J. Analytical Atomic Spectrometry, 26 1040–1050

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Influence of amorphous silica layer formation on the dissolution rate of olivine at 90 degrees C and elevated pCO₂

Chemical Geology, 284, 193–209

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Secreted dengue virus nonstructural protein NS1 is an atypical barrel-shaped high-density lipoprotein

Proc. Nat. Acad. Sc. 108 8003

Guyot, F., D. Daval, S. Dupraz, I. Martinez, B. Menez and O. Sissmann (2011)

CO₂ geological storage: The environmental mineralogy perspective

Comptes Rendus Geoscience. 343, 246-259

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Molecular-level modes of As binding to Fe(III) (oxyhydr)oxides precipitated by the anaerobic nitrate-reducing Fe(II)-oxidizing Acidovorax sp strain BoFeN1

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Earth Planet. Sci. Lett., 312, 37-47

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Biochimie 93:254-259

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Geobiology, 9, 459-470

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Soft matter 7 6187

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Journal of crystal growth 329, 52

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Chemistry of Materials, 22 (4), 1350 – 1366

Bernard S., K. Benzerara, O. Beyssac, G.E. Brown Jr. (2010)
Multiscale characterization of pyritized plant tissues in blueschist facies metamorphic rocks
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Structural role of Zr⁴⁺ as a nucleating agent in a MgO–Al₂O₃–SiO₂ glass-ceramics: a combined XAS and HRTEM approach
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Chemical Geology. 275, 161-175

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Biomineralization, crystallography and magnetic properties of bullet-shaped magnetite magnetosomes in giant rod magnetotactic bacteria
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