

## Liste exhaustive des communications de F. (PA) JORAND :

(mise à jour 08 octobre 2013)

- A1. **JORAND F.**, P. GUICHERD\*, V. URBAIN, J. MANEM and J.-C. BLOCK (1994) Hydrophobicity of activated sludge flocs and laboratory-grown bacteria. *Wat. Sci. Tech.*, **30**(11), 211–218. IF = 1,005.
- A2. **JORAND F.**, F. ZARTARIAN, F. THOMAS, J.-C. BLOCK, J.Y. BOTTERO, G. VILLEMEN, V. URBAIN and J. MANEM (1995) Chemical and structural (2D) linkage between bacteria within activated sludge flocs. *Wat. Res.*, **29**, 1639–1647. IF = 3,587.
- A3. **JORAND F.**, R. PALMGREN, J.-C. BLOCK, P.H. NIELSEN, V. URBAIN and J. MANEM (1995) Biosorption of wastewater organics by activated sludges. In : *Récents Progrès en Génie des Procédés*, « *Les procédés d'épuration des effluents et déchets des industries biologiques et alimentaires* », Vol. 44, Eds. J. Boudrant, J. Conte, B. Jacquinot, pp. 61–67. Technique et Documentation—Lavoisier.
- A4. SNIDARO D., F. ZARTARIAN, **F. JORAND**, J.-Y. BOTTERO, J.-C. BLOCK and J. MANEM (1997) Characterization of activated sludge flocs structure. *Wat. Sci. Tech.*, **36**(4), 313-320.
- A5. **JORAND F.** F. BOUÉ-BIGNE\*, J.-C. BLOCK and V. URBAIN (1998) Hydrophobic / hydrophilic properties of activated sludge exopolymeric substances. *Wat. Sci. Tech.*, **37**(4-5), 307-315.
- A6. PALMGREN R., **F. JORAND**, P.H. NIELSEN and J.-C. BLOCK (1998) Influence of oxygen limitation on the cell surface properties of bacteria from activated sludge. *Wat. Sci. Tech.*, **37**(4-5), 349-352.
- A7. **JORAND F.**, B. APPENZELLER\*, M. ABDELMOULA, P. REFAIT, J.-C. BLOCK and J.-M.R. GENIN. (2000) Assessment of vivianite formation in *Shewanella putrefaciens* culture. *Environ Technol.*, **21**, 1001-1005.
- A8. MARTIN-CERECEDA M.\*, **F. JORAND**, A. GUINEA and J.-C. BLOCK. (2001) Characterization of extracellular polymeric substances in rotating biological contactors and activated sludge flocs. *Environ. Technol.*, **22**, 951-959.
- A9. ONA-NGUEMA G.\*, M. ABDELMOULA, **F. JORAND**, O. BENALI, A. GÉHIN, J.-C. BLOCK and J.-M. R. GÉNIN (2002) Iron (II,III) hydroxy-carbonate green rust formation and stabilisation from lepidocrocite bioreduction. *Environ. Sci. Tech.* **36**, 16-20.
- A10. ONA-NGUEMA G.\*, M. ABDELMOULA, **F. JORAND**, O. BENALI, A. GEHIN, J.-C. BLOCK and J.-M. R. GÉNIN (2002) Microbial reduction of lepidocrocite  $\gamma$ -FeOOH by *Shewanella putrefaciens*; the formation of green rust. *Hyperfine Interact.* **139/140**, 231-237.
- A11. ONA-NGUEMA G.\*, O. BENALI, **F. JORAND**, M. ABDELMOULA, J.-C. BLOCK and J.-M. R. GÉNIN (2003) Key role of the kinetics of  $\gamma$ -FeOOH bioreduction on the formation of Fe(II)-Fe(III) minerals. In: W. J. Thomas MF, Gibb TC (Eds.), Proceedings of the International Conference on the Applications of the Mössbauer Effect (ICAME 2001). *Hyperfine Interactions (C)*, Vol. 5 , pp. 415–418. Dordrecht: Kluwer Academic Publishers.
- A12. BATTÉ M., B.M.R. APPENZELLER, D. GRANDJEAN\*, S. FASS, V. GAUTHIER, **F. JORAND**, L. MATHIEU, M. BOUALAM, S. SABY & J.-C. BLOCK (2003) Biofilms in drinking water distribution systems. *Rev. Environ. Sci. Bio/Technol.* **2**, 147-168.  
<http://www.springerlink.com/content/q0477011278w/?p=bb8d2e22fa5b4b93b5fdf1231944b59b&pi=16>
- A13. ONA-NGUEMA G.\*, C. CARTERET, O. BENALI, M. ABDELMOULA, J.-M. R. GÉNIN, and **F. JORAND** (2004) Competitive formation of hydroxycarbonate green rust I vs hydroxysulphate green rust II in *Shewanella putrefaciens* cultures. *Geomicrobiology J.* **21**, 79-90.
- A14. GRANDJEAN D.\*, **F. JORAND**, C. YAÑEZ\*, B. M. R. APPENZELLER and J.-C. BLOCK (2005) Influence of lepidocrocite ( $\gamma$ -FeOOH) on *Escherichia coli* cultivability in drinking water. *Environ. Technol.* **26**(2), 211-218.
- A15. GABORIAUD F., S. BAILET\*, E. DAGUE\*, **F. JORAND** (2005) Surface structure and nano-mechanical properties of *Shewanella putrefaciens* bacteria at two pH values (4 and 10) by atomic force microscopy. *J. Bacteriol.* **187**(11), 3864 – 3868.
- A16. APPENZELLER B. M. R., C. YAÑEZ\*, **F. JORAND**, and J.-C. BLOCK (2005) Advantage provided by iron for *Escherichia coli* growth and cultivability in drinking water. *Appl. Environ. Microbiol.*, **71**, 5621-5623.
- A17. ZEGEYE A.\*, G. ONA-NGUEMA\*, C. CARTERET, L. HUGUET\*, M. ABDELMOULA and **F. JORAND** (2005) Formation of hydroxysulphate green rust 2 as a single iron(II-III) mineral in microbial culture. *Geomicrobiol. J.* **22**, 389–399.
- A18. GRANDJEAN D.\*, **F. JORAND**, H. GUILLOTEAU and J.-C. BLOCK (2006) Iron uptake is essential for *Escherichia coli* survival in drinking water. *Let. Appl. Microbiol.* **43**, 111-117.
- A19. GABORIAUD F., E. DAGUE\*, S. BAILET\*, **F. JORAND**, J. DUVAL and F. THOMAS (2006) Multiscale dynamics of the cell envelope of *Shewanella putrefaciens* as a response to pH change. *Coll. Surf. B: Biointerfaces*, **52**, 108 – 116.

- A20. BERTHELIN J., G. ONA-NGUEMA\*, S. STEMMLER, C. QUANTIN, M. ABDELMOULA and **F. JORAND** (2006) Bioreduction of ferric species and biogenesis of green rust in soils. *C.R. Geoscience*. Tome 338, N°6-7, 447-455.
- A21. DAGUE E.\*, J. DUVAL, **F. JORAND**, F. THOMAS and F. GABORIAUD (2006) Probing surface structures of *Shewanella* spp. by microelectrophoresis, *Biophys. J.* **90**, 2612 - 2621.
- A22. ABDELMOULA M., A. ZEGEYE\*, **F. JORAND** and C. CARTERET (2006) Monitoring structural transformation of hydroxy-sulphate green rust in the presence of sulphate reducing bacteria. *Hyperfine Interact.*, **167**, 723 - 727.
- A23. ZEGEYE A.\*, C. RUBY and **F. JORAND** (2007) Kinetic and thermodynamic analysis during dissimilatory  $\gamma$ -FeOOH reduction: formation of green rust 1 and magnetite. *Geomicrobiol. J.* **24**, 51 – 64.
- A24. GABORIAUD F., S. BAILET\*, E. DAGUE\*, and **F. JORAND** (2007) Probing the modifications of polystyrene surface properties after incubation with the *Shewanella putrefaciens* bacteria at two pH values (4, 10) by force spectroscopy. *Surf. Interface Anal.* **39**(7), 648 – 652.
- A25. **JORAND F.**, A. ZEGEYE\*, F. LANDRY\* and C. RUBY (2007) Reduction of ferric green rust by *Shewanella putrefaciens* *Lett. Appl. Microbiol.* **45**, 515 – 521.
- A26. ZEGEYE A.\*, HUGUET L.\*, ABDELMOULA M., CARTERET C., MULLET M. and **JORAND F.** (2007) Biogenic hydroxysulfate green rust, a potential electron acceptor for SRB activity. *Geochim. Cosmochim. Ac.* **71**, 5450 – 5462.
- A27. HUGUET L.\*, CASTELLE S., SCHÄFER J., BLANC G., MAURY-BRACHET R., REYNOUARD C., **JORAND F.** (2010) Mercury methylation rates of biofilm and plankton microorganisms from a hydroelectric reservoir in French Guiana. *Sci. Total Environ.* **408**, 1338 - 1348.
- A28. ZEGEYE A.\*, MUSTIN C. and **JORAND F.** (2010) Bacterial and iron oxide aggregates mediate secondary iron mineral formation: green-rust vs magnetite. *Geobiology* **8**, 209–222.
- A29. **JORAND F.**, A. ZEGEYE, J. GHANBAJA and M. ABDELMOULA. (2011) The formation of green rust induced by tropical river biofilm components. *Sci. Total Environ.* **409**, 2586-2596.
- A30. SERGENT AS\*, **JORAND F.**, HANNA K (2011) Effects of Si-bearing minerals on the nature of iron mineral products from lepidocrocite bioreduction. *Chemical Geology* **289**, 86-97.
- A31. GOUDOT S.\*, HERBELIN P., MATHIEU L., S. SOREAU, S. BANAS, **JORAND F.P.A.** (2012) Growth dynamic of *Naegleria fowleri* in a microbial freshwater biofilm. *Wat. Res.*, **46**, 3958-3966.
- A32. **JORAND F.P.A.** SERGENT AS\*, REMY PP\*, BIHANNIC I, GHANBAJA J, LARTIGES B, HANNA K, A. ZEGEYE (2013) Contribution of anionic vs neutral polymers to the formation of green rust 1 from  $\gamma$ -FeOOH bioreduction. *Geomicrobiology Journal*, **30**, 600 – 615.
- A33. GHACH W., ETIENNE M., BILLARD P., **JORAND F.P.A.**, WALCARIUS A. (2013) Electrochemically assisted bacteria encapsulation in thin hybrid sol–gel films. *Journal of Materials Chemistry B.* **1**, 1052-1059.

\* = étudiants encadrés/co-encadrés en thèse ou master.