

## LIST OF PUBLICATION

Forray Ferenc Lázár

### 1. Publications considered relevant to the habilitation thesis, published after PhD. (max. 10)

1. **Forray F.L.**, Onac B.P., Tanțău I., Wynn J.G., Tămaș T., Coroiu I., Giurgiu A. (2015) A Late Holocene environmental history of a bat guano deposit from Romania: an isotopic, pollen and microcharcoal study. *Quaternary Science Reviews*. doi:10.1016/j.quascirev.2015.05.022 (**Current IF: 4.572**)
2. Onac B.P., Hutchinson S.M., Geantă A., **Forray F.L.**, Wynn J.G., Giurgiu A.M., Coroiu I. (2015) A 2500-year Late Holocene multi-proxy record of vegetation and hydrologic changes from a cave guano-clay sequence in SW Romania. *Quaternary Research* 83:437-448. doi:10.1016/j.yqres.2015.01.007 (**Current IF: 2.544**)
3. **Forray F.L.**, Smith A.M.L., Navrotzky A., Wright K., Hudson-Edwards K.A., Dubbin W.E. (2014) Synthesis, characterization and thermochemistry of synthetic Pb-As, Pb-Cu and Pb-Zn jarosites. *Geochimica Cosmochimica Acta* 127:107-119. doi:10.1016/j.gca.2013.10.043 (**Current IF: 4.331**)
4. Onac B.P., **Forray F.L.**, Wynn J.G., Giurgiu A.M. (2014) Guano-derived  $\delta^{13}\text{C}$ -based paleo-hydroclimate record from Gaura cu Musca Cave, SW Romania. *Environmental Earth Sciences* 71:4061-4069. doi:10.1007/s12665-013-2789-x (**Current IF: 1.765**)
5. Servida D., Comero S., Dal Santo M., Capitani L., Grieco G., Marescotti P., Porro S., **Forray F.L.**, Gál Á., Szakács A. (2013) Waste rock dump investigation at Roșia Montană gold mine (Romania): a geostatistical approach. *Environmental Earth Sciences* 70:13-31. doi:<http://dx.doi.org/10.1007/s12665-012-2100-6> (**Current IF: 1.765**)
6. Pop D., Ionescu C., **Forray F.**, Tămaș C.G., Benea M. (2011) "Transylvanian gold" of hydrothermal origin: an EMPA study in an archaeological provenancing perspective. *European Journal of Mineralogy* 23:911-923. doi:10.1127/0935-1221/2011/0023-2156 (**Current IF: 1.483**)
7. **Forray F.L.**, Smith A.M.L., Drouet C., Navrotzky A., Wright K., Hudson-Edwards K.A., Dubbin W.E. (2010) Synthesis, characterization and thermochemistry of a Pb-jarosite. *Geochimica Cosmochimica Acta* 74:215-224. doi:<http://dx.doi.org/10.1016/j.gca.2009.09.033> (**Current IF: 4.331**)
8. **Forray F.L.**, Drouet C., Navrotzky A. (2005) Thermochemistry of yavapaiite  $\text{KFe}(\text{SO}_4)_2$ : Formation and decomposition. *Geochimica Cosmochimica Acta* 69:2133-2140. doi:<http://dx.doi.org/10.1016/j.gca.2004.10.018> (**Current IF: 4.331**)
9. Navrotzky A., **Forray F.L.**, Drouet C. (2005) Jarosite stability on Mars. *Icarus* 176:250-253. doi:<http://dx.doi.org/10.1016/j.icarus.2005.02.003> (**Current IF: 3.038**)

10. **Forray, F.L.**, 2003. Research on the possibilities of stopping the heavy metal pollution in the Rosia Montana mining region, in: Ujvárosi, L. (Ed.), Studies of the natural sciences topics. Scientia, Cluj-Napoca, pp. 247-273 (in Hungarian).

## 2. PhD thesis

**Forray, F.L.**, 2002. Geochemistry of the environment in the areas of mining works from Aries Valley (Apuseni Mountains, Romania), PhD Thesis, Department of Mineralogy. Babeş-Bolyai University, Cluj-Napoca, p. 301.

## 3. Books and book chapters

### 3.1. Books

Bucur I., Balica C., Bedelean H., Benea M., Chira C., Codrea V., Filipescu S., **Forray F.**, Gal A., Popa M., Săsăran E., Tanțău, I., 2008. Repere geologice în Apuseni și sud-vestul Carpaților Meridionali. Ed. Presa Universitară Clujeană, Cluj-Napoca, 225 p.

### 3.2. Book chapters

**Forray, F.L.**, 2002. Bioaccumulation of heavy metals in gastropods shells as tool for environmental pollution monitoring, in: Nagy, L. (Ed.), Studies of the natural sciences topics. Scientia, Cluj-Napoca, pp. 203-227. (in Hungarian).

**Forray, F.L.**, 2003. Research on the possibilities of stopping the heavy metal pollution in the Rosia Montana mining region, in: Ujvárosi, L. (Ed.), Studies of the natural sciences topics. Scientia, Cluj-Napoca, pp. 247-273, (in Hungarian).

## 4. Articles published in the mainstream international scientific publications (ISI)

**Forray F.L.**, Onac B.P., Tanțău I., Wynn J.G., Tămaș T., Coroiu I., Giurgiu A. (2015) A Late Holocene environmental history of a bat guano deposit from Romania: an isotopic, pollen and microcharcoal study. Quaternary Science Reviews. doi:10.1016/j.quascirev.2015.05.022 (**Current IF: 4.572**)

Onac B.P., Hutchinson S.M., Geantă A., **Forray F.L.**, Wynn J.G., Giurgiu A.M., Coroiu I. (2015) A 2500-year Late Holocene multi-proxy record of vegetation and hydrologic changes from a cave guano-clay sequence in SW Romania. Quaternary Research 83:437-448. doi:10.1016/j.yqres.2015.01.007 (**Current IF: 2.544**)

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- Onac B.P., **Forray F.L.**, Wynn J.G., Giurgiu A.M. (2014) Guano-derived  $\delta^{13}\text{C}$ -based paleohydroclimate record from Gaura cu Musca Cave, SW Romania. Environmental Earth Sciences 71:4061-4069. doi:10.1007/s12665-013-2789-x (**Current IF: 1.765**)
- Servida D., Comero S., Dal Santo M., Capitani L., Grieco G., Marescotti P., Porro S., **Forray F.L.**, Gál Á., Szakács A. (2013) Waste rock dump investigation at Roșia Montană gold mine (Romania): a geostatistical approach. Environmental Earth Sciences 70:13-31. doi:<http://dx.doi.org/10.1007/s12665-012-2100-6> (**Current IF: 1.765**)
- Pop D., Ionescu C., **Forray F.**, Tămaș C.G., Benea M. (2011) "Transylvanian gold" of hydrothermal origin: an EMPA study in an archaeological provenancing perspective. European Journal of Mineralogy 23:911-923. doi:10.1127/0935-1221/2011/0023-2156 (**Current IF: 1.483**)
- Forray F.L.**, Smith A.M.L., Drouet C., Navrotzky A., Wright K., Hudson-Edwards K.A., Dubbin W.E. (2010) Synthesis, characterization and thermochemistry of a Pb-jarosite. Geochimica Cosmochimica Acta 74:215-224. doi:<http://dx.doi.org/10.1016/j.gca.2009.09.033> (**Current IF: 4.331**)
- Forray F.L.**, Drouet C., Navrotzky A. (2005) Thermochemistry of yavapaiite  $\text{KFe}(\text{SO}_4)_2$ : Formation and decomposition. Geochimica Cosmochimica Acta 69:2133-2140. doi:<http://dx.doi.org/10.1016/j.gca.2004.10.018> (**Current IF: 4.331**)
- Navrotzky A., **Forray F.L.**, Drouet C. (2005) Jarosite stability on Mars. Icarus 176:250-253. doi:<http://dx.doi.org/10.1016/j.icarus.2005.02.003> (**Current IF: 3.038**)
- Forray, F.L.**, Hallbauer, D.K., 2000. A study of the pollution of the Aries River (Romania) using capillary electrophoresis as analytical technique. Environ. Geol. 39, 1372-1384. doi: <http://dx.doi.org/10.1007/s002540000168>. (**Current IF: 1.765**)

## 5. Articles published from international conferences

- Ponta, G.M., Nam, N.X., **Forray, F.L.**, 2015. A comparative study between the karst of Hoa Quang, Cao Bang province, Vietnam and Tuscumbia Alabama, U.S.A. NCKRI SYMPOSIUM 5, 1-13.
- Lane, M.D., Bishop, J.L., Dyar, M.D., Cloutis, E., **Forray, F.L.** & Hiroi, T. 2005, Integrated spectroscopic studies of anhydrous sulfate minerals. Lunar and Planetary Science, XXXVI: #1442.

## 6. Other scientific publications

- Mărza, I., Hallbauer, D.K. & **Forray, F.** 2004, Hollow, non - fixed hydrothermal concretions - a mineralogical curiosity from the Herja - (Baia Mare) ore deposit. *Romanian Journal of Mineral Deposits*, 81 (special issue): 130-134.

**Forray, F.** 2002, Environmental pollution in the Aries river catchment basin. Case study: Rosia Montana mining exploitation. *Studia Univ. Babeş-Bolyai, Geologia*, Special Issue 1: 189-198.

**Forray, F.L.** 2001, Using pollution index to establish the contamination level of Aries River (Apuseni Mountains, Romania). *Studia Univ. Babeş-Bolyai, Geologia*, XLVI (1): 153-159 (in Romanian).

**Forray, F.L.** 2001, Application of factor analysis in study of pollution of the Aries River (Apuseni Mountains, Romania). *Studia Univ. Babeş-Bolyai, Geologia* XLVI (1): 47-58 (in Romanian).

Onac, B.P. & **Forray, F.L.** 2000, Camiro 1.0 - The Romanian cave minerals database program. *Romanian Journal of Mineralogy*, 80, 1: 57-62.

**Forray, F.L.** 1999, Application of UV-VIS spectrophotometry in study of mine water. *Studia Univ. Babeş-Bolyai, Geologia* XLIV (1): 75-84.

Onac, B.P., **Forray, F.**, Brişan, N. & Chira, C. 1998, *Geological field trip guide I. (in Romanian)*. Universitatea Babeş-Bolyai, Cluj, 64 p.

**Forray, F.** & Andreica, A. 1997, Telur 1.0 - Identification system for minerals. *Studia Univ. Babeş-Bolyai, Geologia*, XLII (1): 13-21.

Ghergari, L., Tamas, T., Damm, P. & **Forray, F.** 1997, Hydrothermal paleokarst in Pestera din Valea Rea (Bihor Mountains, Romania). *Theoretical and Applied Karstology*, 10: 115-125.

Ghergari, L., **Forray, F.** & Andrei, V. 1996, Contributions to the petrographic and mineralogical study of the rock salt from cacica (Suceava county). *Studia Univ. Babeş-Bolyai, Geologia* XLI (1): 165-180.

**Forray, F.** & Bucur, I.I. 1995, Some new data concerning the upper cretaceous deposits from Chergheş (Hunedoara country). *Studia Univ. Babeş-Bolyai, Geologia* XL (1): 29-38.

Mârza, I., Ghergari, L., **Forray, F.** & Tămaş, C.G. 1995, The glauch - glamm formation associated to the hydrothermal deposits from the Apuseni Mountains: Genetic and metallogenetic mechanism. *Studia Univ. Babeş-Bolyai, Geologia* XL (1): 185-194.

Ghergari, L., **Forray, F.**, Gál, Á. & Fărcaş, T. 1994, Arsenic minerals from Săcărâmb ore deposit: arsenic, arsenolite, villyaelenite and krautite (Transylvania, Romania). *Studia Univ. Babeş-Bolyai, Geologia* XXXIX (1): 127-140.

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Signature:

