

Lista de lucrări publicate

Lucrări in extenso:

1. Loredana Brînză, Hong Phuc Vu, Mariana Neamtu, Liane G Benning, 2019, Experimental and simulation results of the adsorption of Mo and V onto ferrihydrite, 9, Article number: 1365 **Scientific Reports**, (IF=4,122; AIS= 1,356; Q1)
2. Loredana Brînză, Kalotina Geraki, Iuliana G. Breaban, Mariana Neamtu, 2019, Zn adsorption onto Irish *Fucus vesiculosus*: Biosorbent uptake capacity and atomistic mechanism insights. **Journal of Hazardous Materials**, 365: p. 252-260 (IF= 6,434; AIS= 1,182; Q1)
3. Loredana Brînză, Hong P. Vu, Samuel Shaw, J. Fred W. Mosselmans, Liane G. Benning, 2015, The effect of molybdenum and vanadium on the hydrothermal crystallization of hematite from ferrihydrite at seawater pH and ionic strength - an in situ EDXRD and XAS study, **Crystal Growth and Design**, accepted; (IF= 3,972; AIS= 0,777; Q1);
4. Mark E Hodson, Stuart Black, Loredana Brînză, Daniel Carpenter, Denise C. Lambkin, J. Fred W Mosselmans, Barbara Palumbo-Roe, Paul F Schofield, Tom Sizmur, Emma A Versteegh, 2014, Biology as an agent of chemical and mineralogical change in soil, **Procedia Earth and Planetary Science**. 10, 114 – 117
5. Loredana Brînză, Frederick J. W. Mosselmans, Paul F. Schofield, Erica Donner, Enzo Lombi, Mark E. Hodson, 2014, Can earthworm-secreted calcium carbonate immobilise Zn in contaminated soils?, **Soil Biology and Biochemistry**, 74, 1-10, DOI: 10.1016/j.soilbio.2014.01.012; (IF=4,926; AIS=1,403, Q1)
6. Loredana Brînză, P. F. Schofield, M. E. Hodson, S. Weller, K. Ignatyev, K. Geraki, P. D. Quinn, J. F. W. Mosselmans, 2014, Combining μ XANES and μ XRD mapping to analyse the heterogeneity in calcium carbonate granules excreted by the earthworm *Lumbricus terrestris* **Journal of Synchrotron Radiation**, 01/2014, 21, 235-41; DOI:10.1107/S160057751303083X, (IF=3,232; AIS=1,078, Q1)
7. Hong Phuc Vu, Samuel Shaw, Loredana Brînză, Liane G Benning, 2013, Partitioning of Pb (II) during goethite and hematite crystallisation: implication for Pb transport in natural systems, 2013 **Applied Geochemistry**, 39, 119-128; DOI:10.1016/j.apgeochem.2013.10.001, (IF= 3,088, AIS=0,773, Q2);
8. Loredana Brînză, Paul D. Quinn, Paul F. Schofield, Frederick J. W. Mosselmans, Mark E. Hodson, 2012, Incorporation of strontium in earthworm-secreted calcium carbonate granules produced in strontium-amended and strontium-bearing soil, **Geochimica et Cosmochimica Acta**, 113 21-37, DOI: 10.1016/j.gca.2013.03.011, (IF= 4,690, AIS= 1,751, Q1);
9. Sofia Diaz-Moreno, M. Amboage, R. Boada-Romero, L. Brînză, G. Cibir, A. Dent, A. Freeman, T. Geraki, S. Hayama, F. Mosselmans, S. Parry, P. Quinn and S. Ramos, (2012), X-Ray Absorption Spectroscopy at Diamond Light Source: Three Complementary Beamlines to Deliver a Comprehensive Service, **XAS Research Review**, 3
10. Rob Raiswell, Hong Phuc Vu, Loredana Brînză, Liane Benning, (2010), The determination of Fe in ferrihydrite by ascorbic acid extraction: methodology, dissolution kinetics and loss of solubility with age and de-watering, **Chemical Geology**, Vol 278, 1-2, 70-79 doi:10.1016/j.chemgeo.2010.09.002, (IF= 3,57, AIS=1,560, Q1);
11. Vu Hong Phuc, Shaw Samuel, Brînză Loredana, Benning Liane G., (2010), The crystallization of hematite (α -Fe₂O₃) under alkaline condition: the effects of Pb" **Crystal Growth and Design**, Vol 10, No 4, 1544–1551, DOI: 10.1021/cg900782g, (IF= 3,972; AIS= 0,777; Q1);
12. Loredana Brînză, Charlotta A. Nygard, Matthew J. Dring, Liane G. Benning, Maria Gavrilescu, (2009), Cadmium tolerance and adsorption by the marine brown alga *Fucus vesiculosus* from the Irish Sea and the Bothnian Sea, **Bioresource Technology**, Vol. 100, No 5, 1727-1733, doi:10.1016/j.biortech.2008.09.041 (IF= 5,807, AIS= 0,973, Q1);
13. Loredana Brînză, Liane G. Benning, Peter J. Statham, (2008), Adsorption studies of Mo and V onto ferrihydrite, **Mineralogical Magazine**, Vol. 72, No1, 107–110; doi:10.1180/minmag.2008.072.1.385, (IF= 1,774, AIS= 0,476, Q3);

14. Loredana Brînză, Matthew J. Dring, Maria Gavrilăscu, (2007), Marine micro and macro algal species as biosorbents for heavy metals treatment - review, **Environmental Engineering and Management Journal**, Vol. 6, No. 3, 237-251, (IF= 1,334, AIS=0,086, Q3);
15. Simona Pintilie, Loredana Brînză, Camelia Betianu, Lucian Vasile Pavel, Florina Ungureanu, Maria Gavrilăscu, (2007), Modelling and simulation of heavy metals transport in water and sediments, **Environmental Engineering and Management Journal**, Vol. 6, No. 2, 153-161, (IF= 1,334, AIS=0,086, Q3);
16. Camelia Betianu, Loredana Brînză, Vasile Lucian Pavel, Maria Gavrilăscu, (2007) Partition and sorption of heavy metals to soils, **Analele USAMV**, vol. 50, seria Agronomie, Editura „Ion Ionescu de la Brad”, Iași, 2007, ISSN 1454-7414
17. Loredana Brînză, Matthew J. Dring, Maria Gavrilăscu, (2005), Biosorption of Cu (2+) ions from aqueous solution by-Enteromorpha sp, **Environmental Engineering and Management Journal**, Vol.4, No.1, 41-51, FI: (IF= 1,334, AIS=0,086, Q3);
18. Loredana Brînză, Maria Gavrilăscu, (2003), pH Effect on the Biosorption of Cu (2+) from Aqueous Solution by Saccharomyces Cerevisae, **Environmental Engineering and Management Journal**, Vol.2, No.3, 243-254, (IF= 1,334, AIS=0,086, Q3);
19. Loredana Brînză, Maria Gavrilăscu, Studies of Heavy Metal Recovery by Biosorption, (2003), Bulletin of the Polytechnic Institute of Iasi, Tomul XLVII (LII), fasc. 1B, Chemistry and Chemical Engineering, 250-256; ISSN: 0254 - 7104

Rezumate publicate:

1. Loredana Brînză, J. Fred W. Mosselmans, Paul F. Schofield, Erica Donner, Enzo Lombi, Mark E. Hodson, Zn immobilization by *Lumbricus terrestris* calcium carbonate biomineralized granules, (2013), **Mineralogical Magazine**, 77(5), 774, (IF= 1.774, AIS= 0.476);
2. Loredana Brînză, J. Fred W. Mosselmans, Paul F. Schofield, Erica Donner, Enzo Lombi, David Paterson, Paul D. Quinn, Tina Geraki, Mark E Hodson, Sr, Cu and Zn incorporation in earthworm synthesized calcium carbonate granules - a μ XAS and μ S-XRF investigation, (2012), **EMC2012, 2-6th September 2012**, Frankfurt, Germany
3. Loredana Brînză, J. Fred W. Mosselmans, Paul F. Schofield, Paul D. Quinn And Mark E. Hodson, (2011), Strontium incorporation into carbonate granules secreted by earthworms, **Mineralogical Magazine**, 581, (IF= 1,774, AIS= 0.476);
4. Loredana Brînză, Sam Shaw, Liane. G. Benning, (2008), The effect of molybdenum on the transformation kinetics of ferrihydrite to hematite: An *in situ* ED-XRD approach (Abstract) - **Geochimica et Cosmochimica Acta**, Vol. 72, No. 12S, A115, (IF= 4,690, AIS= 1,751, Q1);
5. Loredana Brînză, Liane. G. Benning, Peter. J. Statham, (2007), Characterisation of Mo and V interactions with ferrihydrite as an analogue for deep-sea hydrothermal plumes processes (Abstract) - **Geochimica et Cosmochimica Acta**, Vol. 71, No. 15S, A121, (IF= 4,690, AIS= 1,751, Q1);
6. Loredana Brînză, Liane. G. Benning, Peter. J. Statham, (2007), The mechanism of molybdenum uptake by ferrihydrite and its fate during the transformation to hematite, (Abstract) - **Frontiers in Mineral Sciences**, June 2007
7. Loredana Brînză, Matthew J. Dring, Maria Gavrilăscu, (2005), Ability of different algal species to uptake heavy metals from wastewater (Abstract), **The Phycologist**, No 68, Spring 2005, 30

Alte publicații:

1. Loredana Brînză, 2010, Interactions of molybdenum and vanadium with iron nanoparticles, PhD thesis, University of Leeds, United Kingdom, ISBN: 978-0-85731-019-4 (full thesis at: http://etheses.whiterose.ac.uk/1082/1/LBrinza_PhD_thesis.pdf)
2. Loredana Brînză, 2011, Bioremedierea recuperativă prin biosorbție a factorilor de mediu poluați cu metale (Recuperative Bioremediation Of Metals From Environmental Components using Biosorption), PhD thesis, Gh Asachi, Technical University Iasi, Romania (Thesis resume at: http://www.tuiasi.ro/users/110/TD_BrinzaL2011.pdf)