

Liste des publications dans des revues internationales avec comité de lecture

1. BOUZAHZAH H., **BENZAAZOUA M.**, BUSSIÈRE B. (2014). Prediction of Acid Mine Drainage: Importance of Mineralogy and the Test Protocols for Static and Kinetic Tests Mine Water and the Environment. *Mine Water and the Environment*. Paper online (DOI 10.1007/s10230-013-0249-1).
2. PLANTE B., BUSSIÈRE B., **BENZAAZOUA M.** (2014). Lab to field scale effects on contaminated neutral drainage prediction from mine waste rocks. *Journal of geochemical exploration*. Vol. 137 : 37 – 47.
3. LAMBERT A., DROGUI P., DAGHRIR R., ZAVISKA F., **BENZAAZOUA M.** (2014) Removal of copper in leachate from mining residues using electrochemical technology. *Journal of Environmental Management*. 133 : 78–85
4. YILMAZ E., BELEM T., **BENZAAZOUA M.** (2014). Effects of curing and stress conditions on hydromechanical, geotechnical and geochemical properties of cemented paste backfill. *Engineering Geology*, **168** : 23-37.
1. OUAKIBI O., LOQMAN, S., HAKKOU R., **BENZAAZOUA M.** (2013).The Potential Use of Phosphatic Limestone Wastes in the Passive Treatment of AMD a Laboratory Study. *Mine Water and the Environment*. **32-4** : 266-277.
2. COUSSY S., **BENZAAZOUA M.**, BLANC D., BUSSIÈRE B., MOSZKOWICZ P. (2013). Stabilisation de l'arsenic dans les remblais miniers en pâte cimentée. *Déchets Sciences et Techniques* : **64** : 4-12
3. **BENZAAZOUA M.**, BUSSIÈRE B., DEMERS I., PLANTE B., PEPIN G., AUBERTIN M., CHOUTEAU M., DAWOOD I., INTISSAR R., LESSARD G., MONZON M., PEREGOEDOVA A., ZAGURY G.J., MOLSON J.W, LAFLAMME D. (2013). Comportement géochimique et hydrogéologique des stériles de la mine Lac tio. *Déchets Sciences et Techniques* : **64** : 14-23
4. GOUMIH A., EL ADNANI M., HAKKOU R., **BENZAAZOUA M.** (2013). Geochemical Behavior of the Mine Tailings and Waste Rock at the Abandoned Cu-Mo-W Azegour Mine (Occidental High Atlas, Morocco). *Mine Water and the Environment*. **32-2** : 121-132.
5. BOSSÉ B., BUSSIÈRE B., HAKKOU R., MAQSOU D., **BENZAAZOUA M.** (2013) Assessment of Phosphate Limestone Wastes as a Component of a Store-and-Release Cover in Semiarid Climate. *Mine Water and the Environment*. **32-2** : 152-167.
6. OTHMANI M., SOUISSI F., **BENZAAZOUA M.**, BOUZAHZAH H., BUSSIÈRE B., MANSOURI A. (2013). Study of the geochemical behaviour of mine tailings using weathering cells leaching tests: Touiref Pb-Zn district of Touiref (NW Tunisia) case study. *Mine Water and the Environment*. **32**:28-41.
7. YILMAZ E., BELEM T., **BENZAAZOUA M.** (2013). Study of physic-chemical and mechanical characteristics of consolidated and unconsolidated cement paste backfill. *Mineral Resources Management*. **29-1**: 81-100.
8. DERYCKE V., KONGOLO M., **BENZAAZOUA M.**, MALLET M., BARRÈS O., DE DONATO P., BUSSIÈRE B. MERMILLOD-BLONDIN R. (2013) Surface chemistry characterization of different pyrite size fractions for flotation purposes. *International Journal of mineral processing*. **118** : 1-14.
9. YILMAZ E., BELEM T., **BENZAAZOUA M.** (2012). One-dimensional consolidation parameters of cemented paste backfill. *Mineral Resources Management*. **28-4**: 29-45.
10. CHOU C. L., CHOUTEAU M., **BENZAAZOUA M.** (2012). Laboratory Characterization of Mining Cemented Rockfill by NDT Methods: Experimental Set-up and Testing. *Nondestructive testing of materials and structures*. RILEM Book series, Volume 6, Part 8, 935-941.
11. CHATAIN V., **BENZAAZOUA M.**, LOUSTAU CAZALET M., BOUZAHZAH H., DELOLME C., GAUTIER M., BLANC D., DE BRAUER C. (2013). Mineralogical study and leaching behavior of a stabilized harbor sediment with hydraulic binder. *Environmental Science and Pollution Research*. **20-1** : 51-59.
12. GENTY T., BUSSIÈRE B., **BENZAAZOUA M.**, J. ZAGURY G. (2012) Capacity of Wood Ash Filters to Remove Iron from Acid Mine Drainage: Assessment of Retention Mechanism. *Mine Water and the Environment*. **31**: 273–286.
13. COUSSY S. PAKTUNC D., ROSE J., **BENZAAZOUA M.** (2012). Arsenic speciation in cemented paste backfills and synthetic calcium-silicate-hydrates. *Minerals Engineering*. **39** : 51–61.
14. GENTY T., BUSSIÈRE B., POTVIN R., **BENZAAZOUA M.**, ZAGURY, J.G. (2012), Dissolution of calcitic marble and dolomitic rock in high iron concentrated acid mine drainage: application to

- anoxic: Application to anoxic limestone drains.(2012). *Environmental earth sciences*, **66-8** : 2387-2401.
15. PLANET B., BUSSIÈRE, B., **BENZA AZOUA, M.** (2012). Static tests response on 5 Canadian Hard Rock mine tailings with low acid generating potentials. *Journal of Geochemical Exploration*. **114**:57-69.
 16. PEYRONNARD O., **BENZA AZOUA M.** (2012) Alternative by-product based binders for cemented mine backfill: recipes optimization using the Taguchi Method. *Minerals Engineering*. **29**: 28-38.
 17. COUSSY S., **BENZA AZOUA M.**, BANC D., MOSZKOWICZ P., BUSSIÈRE B. (2012) Arsenic Assessment of arsenic immobilization in synthetically prepared cemented paste backfill specimens. *Journal of Environmental Management*. **93** : 10-21.
 18. MERMILLOD-BLONDIN R., **BENZA AZOUA M.**, KONGOLO M., DE DONATO P., BUSSIÈRE B. MARION P. (2011). Development and calibration of a quantitative, automated mineralogical assessment method based on SEM-EDS and image analysis: Application for fine tailings. *Journal of Mineral and Materials Characterization and Engineering*, **10-12**:1111-1130.
 19. PEYRONNARD O., **BENZA AZOUA M.** (2011). Estimation of the cementitious properties of various industrial by-products for applications requiring low mechanical strength. *Resources, Conservation & Recycling*, **56** ; 22– 33.
 20. YILMAZ E., BELEM T., BUSSIÈRE B., **BENZA AZOUA M.** (2011) Relationships between microstructural properties and compressive strength of consolidated and unconsolidated cemented paste backfills. *Cement and Concrete Composite*, **33-6** : 702-715
 21. DESCHAMPS T., **BENZA AZOUA M.**, BUSSIÈRE B., AUBERTIN M. (2011) Laboratory study of surface paste disposal for sulfidic tailings: Physical model testing. *Minerals Engineering*, **24-8** : 794-806
 22. PLANTE, B., **BENZA AZOUA, M.**, BUSSIÈRE, B. (2011) Contaminated neutral drainage prediction: kinetic testing and sorption studies by modified weathering cells. *Mine Water and the Environment*. **30-1** : 22-37.
 23. PLANTE, B., **BENZA AZOUA, M.**, BUSSIÈRE, B. (2011) Geochemical behavior of waste rock with low acid generating potential using laboratory kinetic tests. *Mine Water and the Environment*. **30-1** : 2-21.
 24. COUSSY S., **BENZA AZOUA M.**, BANC D., MOSZKOWICZ P., BUSSIÈRE B. (2011) Arsenic stability in arsenopyrite-rich cemented paste backfills: a leaching test-based assessment. *Journal of Hazardous materials*, **185-2/3**: 1467-1476.
 25. YILMAZ E., BELEM T., **BENZA AZOUA M.**, KESIMAL A., ERCIKDI B., CIHANGIR F. (2011). Use of high-density paste backfill for safe disposal of copper/zinc mine tailings. *Mineral Resources Management*. **27-3**: 81-94.
 26. PLANTE, B., **BENZA AZOUA, M.**, BUSSIÈRE, B., BIESINGER, M.C., PRATT, A.R. (2010) Study of Ni sorption onto Tio mine waste rock surfaces and its effect on drainage geochemistry. *Applied Geochemistry*, **25** : 1830-1844.
 27. YILMAZ E., BELEM T., **BENZA AZOUA M.**, BUSSIÈRE B. (2010) Assessment of the Modified CUAPS Apparatus to Estimate In Situ Properties of Cemented Paste Backfill. *Geotechnical Testing Journal (ASTM)*. **33-5**: 351-362.
 28. PEYRONNARD O., BLANC D., **BENZA AZOUA M.**; MOSZKOWICZ P. (2010). Identification of leaching-controlling process by differential acid neutralization analysis for geochemical modeling: Application to metal hydroxide sludge stabilization with coal fly ash. *Déchets Sciences et Techniques* : **57-1**.
 29. DEMERS I., BUSSIÈRE B., **BENZA AZOUA M.**, MBONIMPA M., BLIER A. (2009) Preliminary optimisation of single-layer cover made of desulphurized tailings: Application to the Doyon mine tailings impoundment. *Society for Mining, Metallurgy, and Exploration, SME Annual Transactions Volume 326* : 21-33.
 30. HAKKOU R., **BENZA AZOUA M.**, BUSSIÈRE B. (2009). Laboratory evaluation of the use of alkaline phosphate wastes for the control of acidic mine drainage. *Mine Water and the Environment*. **28** : 206 - 218.
 31. **BENZA AZOUA, M.** (2009). Rejets miniers : Entre gestion intégrée en amont et restauration en aval. *Notes et Mémoires du Service Géologique*. **No 530** : 63 – 70.
 32. HAKKOU R., **BENZA AZOUA M.**, BUSSIÈRE B. (2009). Minéralogie secondaire associée au drainage minier acide du site abandonné de Kettara (Maroc). *Notes et Mémoires du Service Géologique*. **No 530** : 83 - 92.

33. DEMERS I., **BENZAAZOUA M.**, BUSSIÈRE B., AUBERTIN M., MBONIMPA M., FRIED E., BLIER A. (2009). Évaluation de l'application de la gestion intégrée des résidus à la mine Doyon. *Déchets Sciences et Techniques* : **54-2** : 19-30.
34. DESCHAMPS T., **BENZAAZOUA M.**, BUSSIÈRE B., AUBERTIN M., BOUZAHZAH H., MARTIN V. (2009). Les effets d'amendements alcalins sur des résidus miniers sulfureux entreposés en surface : cas des dépôts en pâte. *Déchets Sciences et Techniques* : **54-2** : 31-40.
35. YILMAZ E., **BENZAAZOUA M.**, BELEM T., BUSSIÈRE B. (2009). Effect of curing under pressure on compressive strength development of cemented paste backfill. *Minerals Engineering*. **22-(9-10)**: 772-785.
36. PEYRONNARD O., **BENZAAZOUA M.**, BLANC D., MOSZKOWICZ P. (2009). Study of mineralogy and leaching behavior of stabilized/solidified sludge using differential acid neutralization analysis. Part I: experimental study. *Cement and Concrete Research*. **39-7** : 600-609.
37. PEYRONNARD O., BLANC D., **BENZAAZOUA M.**, MOSZKOWICZ P. (2009). Study of mineralogy and leaching behavior of stabilized/solidified sludge using differential acid neutralization analysis. Part II: Use of a numerical simulator as an aid tool for cementitious hydrates identification. *Cement and Concrete Research*. **39-6** : 501-509.
38. DEMERS I., BUSSIÈRE B., MBONIMPA M., **BENZAAZOUA M.** (2009). Oxygen diffusion and consumption in low sulphide tailings covers. *Canadian Geotechnical Journal*. **46**: 454-469.
39. HAKKOU R., **BENZAAZOUA M.**, BUSSIÈRE B. (2008) Acid mine drainage potential in the Kettara abandoned mine (Morocco): Part 1: Environmental characterization. *Mine water and Environment*. **27**:145-159.
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41. QUELLET, S., BUSSIERE, B., AUBERTIN, M., **BENZAAZOUA, M.** (2008). Characterization of cemented paste backfill pore structure using SEM and IA analysis. *Bulletin of Engineering Geology and the Environment*. **Vol. 67-2** : 139-152.
42. DESCHAMPS T., **BENZAAZOUA M.**, BUSSIÈRE B., AUBERTIN M., BELEM T. (2008) Microstructural and geochemical evolution of surface paste tailings. *Mineral Engineering*. Special edition Processing & Disposal of Mineral Industry Waste. **Vol 21-4** : 341-353.
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44. DEMERS, I., BUSSIÈRE, B., **BENZAAZOUA, M.**, MBONIMPA, M. (2008). Laboratory study of monolayer covers made of desulphurized tailings to prevent Acid Mine Drainage. *Mineral Engineering*. Special edition Processing & Disposal of Mineral Industry Waste. Vol 21-4 : 317-329.
45. BELEM, T., **BENZAAZOUA, M.** (2007). Underground mine paste backfill technology: applications and design methods. *Geotechnical and Geological Engineering*. **Vol. 26-2** : 147-174.
46. MOLSON, J., AUBERTIN, M., BUSSIÈRE, B., **BENZAAZOUA, M.** (2008). Geochemical transport modelling of drainage from mine tailings cells covered by capillary barriers. *Applied Geochemistry*, **Vol. 23-1** : 1-24.
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49. **BENZAAZOUA, M.**, MARION, P., ROBAUT, F., PINTO, A. (2007). Gold bearing arsenopyrite and pyrite in refractory ores: Analytical refinements and new findings about gold mineralogical state. *Mineralogical Magazine*. **Vol. 71-2** : 123-142.
50. YILMAZ, E., BELEM, T., **BENZAAZOUA, M.**, KESIMAL, A., ERCIKDI, B. (2007). Evaluation of the strength properties of deslimed tailings paste backfill," *Mineral Resources Engineering*, **Vol. 12-2** : 129-144.
51. DESCHAMPS, T., **BENZAAZOUA, M.**, BUSSIÈRE, B., BELEM, T., MBONIMPA, M. (2007). Aperçu des mécanismes de rétention des métaux lourds en phase solide et exemples d'applications pour la stabilisation des sols contaminés et des déchets industriels. *VertigO – La revue en sciences de l'environnement*. **Vol-7-2**, Art 3 :11p.

52. FALL, M., BELEM, T., SAMB, S., **BENZA AZOUA, M.** (2007). Experimental characterization of the stress-strain behaviour of cemented paste backfill in compression. *Journal of Materials Science*. **42** : 3914–3922.
53. **BENZA AZOUA, M.**, BELEM, T., YILMAZ, E. (2006). Development of a novel laboratory tool, CUAPS: *A novel Lab Tool for Paste Backfill*. *Canadian Mining Journal*. Vol. 127, No. 3: 31 (1p).
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55. **BENZA AZOUA, M.**, Fiset, J-F. BUSSIÈRE, B. VILLENEUVE, M., PLANTE, B. (2006). Sludge recycling within cemented paste backfill: Study of the mechanical and leachability properties. *Minerals Engineering*. **19-5** : 420-432.
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61. KONGOLO, M., **BENZA AZOUA, M.**, DE DONATO, P., DROUET, B., BARRÈS, O. (2004). The comparison between amine thioacetate and amyl xanthate collector performances for pyrite flotation and its application to tailings desulphurization. *Minerals Engineering*. **17-4**: 505-515.
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66. **BENZA AZOUA, M.**, MARION, P., LIOUVILLE-BOURGEOIS, L., JOUSSEMET, R., HOUOT, R., FRANCO, A., PINTO A. (2002). Mineralogical distribution of some minor and trace elements during flotation processing of Neves-Corvo ore (Portugal). *International Journal of Mineral Processing*. **66**: 163 – 181.
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Liste des articles présentés à des congrès scientifiques internationaux et publiés dans des actes avec comités de lecture

1. MARTIN V., AUBERTIN M., MOSTAFA **BENZA AZOUA M.** (2013). Laboratory Investigation of the Disposal of Paste Tailing. GeoMontreal'13, 66th Canadian Geotechnical Conference and the 11th

- Joint CGS/IAH-CNC Groundwater Conference. Montreal, Quebec, Canada. September 29 - October 3, 2013,
2. PLANTE B., KANDJI E. H. B., CHOPARD A., **BENZA AZOUA M.**, BUSSIÈRE B. (2013). Use of a chelating agent in kinetic studies for contaminated neutral drainage prediction of metal bearing waste rocks. 23rd World mining Congress, Held in conjunction with ISARC 2013. Track: Tailings, Water & Mine Site Rehabilitation. Montreal, Quebec, Canada. August 11-15, 2013.
 3. KERMANI M., HASSANI F., **BENZA AZOUA M.**, ISAGON I. NOKKEN M., ZAMANI S. (2013). The effect of curing temperature on the physical properties of hydraulic backfill and Gelfill. 23rd World mining Congress, Held in conjunction with ISARC 2013. Track: Tailings, Water & Mine Site Rehabilitation. Montréal, Québec, Canada. August 11-15, 2013.
 4. BELEM T., EL AATAR O., YILMAZ E., **BENZA AZOUA M.** (2013). Effect of drainage and the pore water pressure dissipation on the backfilling sequencing. 23rd World mining Congress, Held in conjunction with ISARC 2013. Track: Tailings, Water & Mine Site Rehabilitation. Montreal, Quebec, Canada. August 11-15, 2013.
 5. BOUZHACH H., **BENZA AZOUA M.**, BUSSIÈRE B. (2013). Acid-generating potential calculation using mineralogical static test: modification of the Paktunc equation. 23rd World mining Congress, Held in conjunction with ISARC 2013. Track: Tailings, Water & Mine Site Rehabilitation. Montreal, Quebec, Canada. August 11-15, 2013.
 6. ARGANE R., HAKKOU R., **BENZA AZOUA M.** (2013). Environmental geochemistry of the Upper-Moulouya Lead district abandoned mines (Morocco). 23rd World mining Congress, Held in conjunction with ISARC 2013. Track: Tailings, Water & Mine Site Rehabilitation. Montreal, Quebec, Canada. August 11-15, 2013.
 7. OUAKIBI O., LOQMAN S., HAKKOU R., **BENZA AZOUA M.** (2013) Phosphates Limestone Wastes Drains to Increase pH and Remove Dissolved Metals from Acidic Mine Drainage. 2nd International Symposium on Innovation and Technology in the Phosphate Industry, SYMPHOS 2013, Mai 6-10, Agadir Morocco.
 8. BOUDA, M., MBONIMPA, M., DEMERS, I., **BENZA AZOUA, M.**, GAGNON, M. (2012). Hydrogeotechnical characterization of AMD treatment sludge and sludge-based mixtures. 65th Canadian Geotechnical Conference, Winnipeg, Manitoba, Canada, Sept. 30- Oct. 3.
 9. DERYCKE V., **BENZA AZOUA M.**, BUSSIÈRE B. KONGOLO M., MERMILLOD-BLONDIN R. (2012). Assessment of the Performance of Environmental Desulphurization on Arsenic Release from Tailing. 9th Internat. Conf. on Acid Rock Drainage, May 20 - 26, 2012, Ottawa (ON), Canada.
 10. BOUZHACH H., **BENZA AZOUA M.**, BUSSIÈRE B. (2012). Modification and automation of the humidity cell test protocol to favor tailings reactivity. 9th Internat. Conf. on Acid Rock Drainage, May 20 - 26, 2012, Ottawa (ON), Canada.
 11. MERMILLOD-BLONDIN R., BOUZHACH H., **BENZA AZOUA M.**, MARION P., VALLE N., MATHIEU S., COUSIN P. (2011). Process mineralogy of the refractory gold part of the Lapa ORE deposit. Conference of metallurgist 2011(COM 2011), World Gold 2011, 3rd International Conference 2-5 October 2011 Montreal, Canada.
 12. GENTY T., BUSSIÈRE B., NECULITA C. M., **BENZA AZOUA M.**, ZAGURY G. J. (2011) Passive treatment of acid mine drainage: repeatability for sulphate reducing passive bioreactor column efficiency testing. International Mine Water Association Symposium 2011, "Mine Water - Managing the challenges". Rüde, Freund & Wolkersdorfer (Editors), Aachen Germany 4 – 11 September 2011: 71-76
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15. PLANTE B., **BENZA AZOUA M.**, PEPIN G., BUSSIÈRE B., (2010). Evaluation of the Ni-contaminated neutral drainage generation potential in the Tio mine waste rocks. International Mine Water Association Symposium 2010, "Mine Water and innovating thinking". Sydney Nova Scotia, Canada 5 – 9 September 2010. Wolkersdorfer & Freund Eds: 391-394.
16. COUSSY S., **BENZA AZOUA M.**, BLANC D., PEYRONNARD O., BUSSIÈRE B., MOSZKOWICZ P., A. MALCHERE (2010). Stabilization/solidification of arsenic-rich cemented paste backfill: geochemical modelling as a mineralogical characterization tool. 2010 International Stabilization/Solidification Technology Forum (S/S Tech). June 15-17, 2010. Sydney (NS), Canada, (paper no 6).
17. PEYRONNARD O., **BENZA AZOUA M.**, TAGNIT-HAMOU A. (2010). Geochemical behavior of mine cemented paste backfill prepared with industrial by-products as alternative binders. 2010. International Stabilization/Solidification Technology Forum (S/S Tech). June 15-17, 2010. Sydney (NS), Canada, (paper no 9)
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19. **BENZA AZOUA M.**, PEYRONNARD O., BELEM T., FRIED E., AURORE S., DUBLET G. (2010). Key issues related to behaviour of binders in cemented paste backfilling. 13th International Seminar on Paste & Thickened Tailings (Paste 2010). Key-note paper. May 03 - 06, 2010, Toronto (ON), Canada.
20. MARTIN V., AUBERTIN M., **BENZA AZOUA M.**, ZHAN G. (2010). Investigation of Near-Surface Exchange Processes in Reactive Paste Tailings. 13th International Seminar on Paste & Thickened Tailings (Paste 2010). Abstract accepted ID: 34. May 03 - 06, 2010, Toronto (ON), Canada.
21. GODBOUT J., BUSSIÈRE B., **BENZA AZOUA M.**, AUBERTIN M. (2010). Influence of pyrrhotite content on the physico-chemical behaviour of cemented mine backfill. International Seminar on Paste & Thickened Tailings (Paste 2010). Abstract accepted ID: 38. May 03 - 06, 2010, Toronto (ON), Canada.
22. PEYRONNARD O., **BENZA AZOUA M.** (2010). Utilisation du ciment dans le remblayage des mines souterraines : généralités, évolutions des pratiques et utilisation de sous-produits industriels comme complément cimentaire. RPIC Federal Contaminated Sites National Workshop. May 10 - 13, 2010, Montreal (QC), Canada.
23. PEYRONNARD O., BLANC D., **BENZA AZOUA M.**; MOSZKOWICZ P. (2009). Identification of leaching-controlling process by differential acid neutralization analysis for geochemical modeling: Application to metal hydroxide sludge stabilization with coal fly ash. WASCON 2009 Conference, Juin, 2009, Lyon France.
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