

1.1. Liste des publications

Articles dans des revues scientifiques avec comité de lecture

1. Fathi, A., Moradian, Z.A., Rivard, P., Ballivy, G. et Boyd, A. (2015) *Geometric effect of asperities on shear mechanism of rock joints*, Rock Mechanics and Rock Eng., DOI 10.1007/s00603-015-0799-6.
2. Peyras, L., Rivard, P., Breul, P., Millet, A. et Ballivy G. (2015) *Characterization of rock discontinuity opening using acoustic wave amplitude*, Eng. Geology, 193: 402-411.
3. Nouailletas, O., Laborderie, C., Perlot, C., Rivard, P. et Ballivy, G. (2015) *Experimental study of crack closure on heterogeneous quasi-brittle material*, DOI: 10.1061/(ASCE)EM.1943-7889.0000928, ASCE Journal of Eng. Mechanics.
4. Power, G.J., Tandja, C., Bastien, J., and Gregoire, P. (2015). *Measuring Infrastructure Investment Option Value*. Journal of Risk Finance. 16(1), pp. 49-72.
5. Wolofsky, R., Chouinard, L. Conciatori, D., and Bastien, J. (2015). *Updating of chloride Ingres Models Using Core Data Measurements*. International Journal of reliability and Safety, vol. 9, no. 4, pp. 291-310.
6. AzariJafari, H., Yahia, A., and Ben Amor, M. (2015) *Life cycle assessment of pavements: Reviewing research challenges and opportunities*. Journal of Cleane Production, 40 p. Accepted. DOI: 10.1016/j.jclepro.2015.09.080.
7. Simon, B., Bachtin, K., Kiliç, A., Ben Amor, M., and Weil, M. (2015) *Potential Environmental Impacts of Nano-Fiber Lithium Iron Phosphate Cathodes: Gaining life cycle inventory on the basis of laboratory informatio*. Integrated Environmental Assessment and Management. Accepted.
8. Simon, B., Ben Amor, M., and Földény, R. (2015) *Life cycle impact assessment of beverage packaging systems: Focus on the collection of post-consumer bottles*. Journal of Cleane Production. In Press.
9. Anand, C.K., Bisailon, V., Webster, A., and Ben Amor, M. (2015) *Integration of sustainable development in higher education - A regional initiative in Quebec (Canada)*. Journal of Cleane Production. Vol. 108, Part A, pp. 916-923.
10. Descateaux, P., Astudillo, M. F., and Ben Amor, M. (2015) *Assessing the life cycle environmental benefits of renewable distributed generation in a context of carbon taxes: The case of the Northeastern American market*. Renewable and Sustainable Energy Reviews. In Press.
11. Ahmed, E., Benmokrane, B., and Sansfaçon, M. (2015). *Case Study: Design, Construction, and Performance of the La Chancelière Parking Garage's Concrete Flat Slabs Reinforced with GFRP Bars*. ASCE Journal of Composites for Construction, (In-Press).
12. Mohamed, K., Farghaly, A., and Benmokrane, B. (2015). *Strut Efficiency-Based Design for Concrete Deep Beams Reinforced with FRP Bars*. ACI Structural Journal, (In-Press).
13. Elgabbas, F., Ahmed, E., and Benmokrane, B. (2015). *Experimental Testing of Concrete Bridge-Deck Slabs Reinforced with Basalt-FRP Reinforcing Bars under Concentrated Loads*. ASCE Journal of Bridge Engineering, (In-Press).
14. Benmokrane, B., Ali, A., Mohamed, M.H., Robert, M., and Elsafty, A. (2015). *Durability Performance and Service Life of CFCC Tendons Exposed to Elevated Temperature and Alkaline Environment*. ASCE Journal of Composites for Construction, [10.1061/\(ASCE\)CC.1943-5614.0000606](https://doi.org/10.1061/(ASCE)CC.1943-5614.0000606), 04015043.

15. Mohamed, M.H., and Benmokrane, B. (2015). *Reinforced Concrete Beams with and without FRP Web Reinforcement under Pure Torsion*. ASCE Journal of Bridge Engineering (In-Press).
16. Foruzanmehr, M., Montaigu, M., Benmokrane, B. and Robert, M. (2015). *Laboratory evaluation of chemical resistance of pultruded GFRP dowels for concrete pavement*. RILEM Materials and Structures Journal, DOI: 10.1617/s11527-015-0549-y.
17. Benmokrane, B., Elgabbas, F., Ahmed, E., and Cousin, P. (2015). *Characterization and Comparative Durability Study of Glass/Vinylester, Basalt/Vinylester, and Basalt/Epoxy FRP Bars*. ASCE Journal of Composites for Construction, (In-Press).
18. Hassan, M., Ahmed, E., and Benmokrane, B. (2015). *Punching-Shear Behaviour of Two-Way Concrete Slabs Reinforced with FRP Shear Reinforcement*. ASCE Journal of Composites for Construction, Vol. 19, No.1, pp. 04014030-1 – 04014030-13.
19. Mohamed, H.M., Chaallal, O., and Benmokrane, B. (2015). *Torsional Moment Capacity and Failure Mode Mechanisms of Concrete Beams Reinforced with Carbon FRP Bars and Stirrups*. ASCE Journal of Composite for Construction, Vol. 19, No. 2, p. 04014049.
20. Maranan, G., Manalo, A., Karunasena, W., and Benmokrane, B. (2015). *Bond Stress-Slip Behaviour: The Case of GFRP Bars in Geopolymer Concrete*. ASCE Journal of Materials in Civil Engineering, Vol. 27, No. 1, pp. A4014116-1 - A4014001-11.
21. Mohamed, H.M., and Benmokrane, B. (2015). *Make the Case: The Use of FRP Bars for Soft-Eyes in Construction of Tunnels*. Tunnels and Tunnelling, The official publication of the Tunnelling Association of Canada, Dec.-Jan., pp. 35-40.
22. Mohamed, H.M., Afifi, Z.M., and Benmokrane, B. (2014). *Performance Evaluation of Concrete Columns Reinforced Longitudinally with FRP Bars and Confined with FRP Hoops and Spirals under Axial Load*. ASCE Journal of Bridge Engineering, Vol. 19, No. 7, pp. 04014020-1 – 04014020-12.
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24. Ahmed, E., Settecasì, F., and Benmokrane, B. (2014). *Construction and Testing of Hybrid Reinforced Concrete Bridge Deck Slabs for the Ste-Catherine Twin Overpass Bridges*. ASCE Journal of Bridge Engineering, Vol. 19, No. 6, pp. 04014011-1 – 04014011-11.
25. Tobbi, H., Farghaly, A.S., and Benmokrane, B. (2014). *Strength Model for Concrete Columns Reinforced with FRP Bars and Ties*. ACI Structural Journal, Vol. 111, No. 4, pp. 789-798.
26. Hassan, M., Ahmed, E., and Benmokrane, B. (2014). *Punching-Shear Design Equation for Two-way Concrete Slabs Reinforced with FRP Bars and Stirrups*. Construction and Building Materials Journal, Vol. 66, pp. 522-532.
27. Mohamed, N. Farghaly, A., Benmokrane, B., and Neale, K. (2014). *Numerical Simulation of Mid-Rise Concrete Shear Walls Reinforced with GFRP Bars Subjected to Lateral Displacement Reversals*. Engineering Structures Journal, Vol. 73, No. 15, pp. 62-71.
28. Manalo, A., Benmokrane, B., Park, K.T., and Lutze, D. (2014). *Recent Developments on FRP Bars as Internal Reinforcement in Concrete Structures*. Concrete in Australia Journal, Vol. 40, No. 2, pp. 46-56.
29. Argane, R., El Adnani, M., Benzaazoua, M., Bouzahzah, H., Khalil, A., Hakkou, R., and Taha, Y. (2015). *Geochemical behavior and environmental risks related to the use of abandoned base-metal tailings as construction material in the upper-Moulouya district*,

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31. Bossé, B., Bussière, B., Hakkou, R., Maqsoud, A., and Benzaazoua, M. (2015). *Hydrogeological Behavior of a Store-and-Release Cover: A Comparison Between a Field Column Test and Numerical Predictions with or without Hysteresis Effects*. Mine Water and the Environment. Paper accepted on 11 May 2015 (In Press).
32. Bossé, B., Bussière, B., Hakkou, R., Maqsoud, A., and Benzaazoua, M. (2015). *Field Experimental Cells to Assess the Hydrogeological Behaviour of Store-and-Release Covers Made with Phosphate Mine Waste*. Canadian geotechnical journal. Paper web online (DOI: 10.1139/cgj-2014-0263).
33. Bouzahzah, H., Benzaazoua, M., Bussière, B., and Plante, B. (2015) *ASTM normalized humidity cell kinetic test: Protocol improvements for optimal sulfide tailings reactivity*. Mine Water and the Environment. 34-3: 242-257.
34. Couvidat, J., Benzaazoua, M., Chatain, V., and Bouzahzah, H. (2015). *An innovative coupling between column leaching and oxygen-consumption tests to assess behavior of contaminated marine dredged sediments*. Environmental Science and Pollution Research. 22-14: 10943-10955.
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37. Plante, B., Benzaazoua, M., Bussière, B., El-Hadji-Babacar, K., Chopard, A., and Bouzahzah, H. (2015). *Use of EDTA in modified kinetic testing for contaminated drainage prediction from waste rocks: Case of the Lac Tio mine*. Environmental Science and Pollution Research. 22: 7882-7896.
38. Bouzahzah, H., Benzaazoua, M., Plante, B., and Bussière, B. (2015). *Quantitative approaches for the estimation of the “fizz rating”*. Journal of exploration geochemistry. 153: 53-65.
39. Argane, R., Benzaazoua, M., Bouamrane, A., and Hakkou, R. (2015). *Cement hydration and Durability of Low Sulfide Tailings-Based Renders: A Case Study in Moroccan Constructions*. Minerals Engineering. 76: 97–108.
40. Demers, I., Benzaazoua, M., Mbonimpa, M., Bouda, M., Bois, D., and Gagnon, M. (2015). *Valorization of acid mine drainage treatment sludge as remediation component to control acid generation from mine wastes, part 1: Material characterization and laboratory kinetic testing*. Minerals Engineering. 76: 109–116.
41. Demers, I., Bouda, M., Mbonimpa, M., Benzaazoua, M., Bois, D., and Gagnon, M. (2015). *Valorisation of acid mine drainage treatment sludge as remediation component to control acid generation from mine wastes, part 2: Field experimentation*. Minerals Engineering. 76: 117–125.

42. Othmani, M., Souissi, F., Bouzahzah, H., Bussièrè, B., Da Silva, E.F., and Benzaazoua, M. (2015). *The flotation tailings of the former Pb-Zn mine of Touiref (NW Tunisia): Mineralogy, mine drainage prediction, base-metal speciation assessment and geochemical modeling.* Environmental Science and Pollution Research. 22: 2877–2890.
43. Yilmaz, E., Belem, T., and Benzaazoua, M. (2015) *Specimen size effect on strength behavior of cemented paste backfills subjected to different placement conditions.* Engineering Geology. 185: 52–62
44. Yilmaz, E., Belem, T., Bussièrè, B., Mbonimpa, M., and Benzaazoua, M. (2015). *Curing Time Effect on Consolidation Behaviour of Cemented Paste Backfill Containing Different Cement Types and Contents.* Construction & Building Materials. 75: 99 - 111.
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54. Kamorina, G., Tremblay, F., Bussièrè, B., Smirnova, E., and Thiffault, N. (2015.) *Bluejoint is an effective bio-barrier species on mine covers.* Journal of Environmental Quality. In press.
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61. Lagier, F., Massicotte, B., and Charron, J.-P. (2015), *Bond strength of tension lap splice specimens in UHPFRC*, *Construction and Building Materials*, Vol. 93, pp. 84-94.
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78. Yu, L., François, R., Vu, H. D., L'Hostis, V. et Gagné, R. (2015) *Distribution of corrosion and pitting factor of steel in corroded RC beams*, Construction and Building Materials, Vol. 95, 384-392.
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