

PUBLICATIONS SCIENTIFIQUES

Le professeur Benmokrane a publié 415 articles scientifiques au cours des 20 dernières années dont 173 articles scientifiques dans des revues avec comité de lecture et 242 articles dans des comptes rendus de conférences avec comité de lecture, 26 chapitres de livre, et plus de 175 rapports techniques avec ses étudiants gradués, stagiaires postdoctoraux et collaborateurs universitaires. Les articles, présentés dans la liste ci-dessous, sont publiés dans des revues internationales de premier ordre et présentés dans des conférences internationales prestigieuses.

Articles dans des revues scientifiques avec comité de lecture

- J1. 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).
- J2. 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).
- J3. 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).
- J4. 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).
- J5. 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 (In-Press).
- J6. 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).
- J7. 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.
- J8. Maranan, G., Manalo, A., Karunasena, W., and Benmokrane, B. (2015). "*Pullout Behavior of GFRP Bars with Anchor Head in Geopolymer Concrete.*" Composite Structures Journal, Vol. 132, pp. 1113-1121.
- J9. Afifi, Z.M., Mohamed, H.M., and Benmokrane, B. (2015). "*Theoretical Stress–Strain Model for Concrete Columns Confined by GFRP Spirals and Hoops.*" Engineering Structures, Vol. 102, pp. 202-213.
- J10. Mohamed, H.M. and Benmokrane, B. (2015). "*Torsion Behavior of Concrete Beams Reinforced with GFRP Bars and Stirrups.*" ACI Structural Journal, Vol. 112, No. 5, pp. 543-552.
- J11. Maranan, G., Manalo, A., Benmokrane, B., Karunasena, W., and Mendis, P. (2015). "*Evaluation of the flexural strength and serviceability of geopolymer concrete beams reinforced with Glass-Fibre-Reinforced Polymer (GFRP) bars.*" Engineering Structures Journal, Vol. 101, pp. 529-541.
- J12. Mohamed, N., Farghaly, A., and Benmokrane, B. (2015). "*Aspects of Deformability of*

- Concrete Shear Walls Reinforced with Glass Fiber Reinforced Bars.*" ASCE Journal of Composite for Construction, Vol. 19, No. 5, pp. 06014001.
- J13. Afifi, Z.M., Mohamed, H.M., Chaallal, O., and Benmokrane, B. (2015). "*Confinement Model for Concrete Columns Internally Confined with Carbon FRP Spirals and Hoops.*" ASCE Journal of Structural Engineering, Vol. 141, No. 9, pp. 04014219.
- J14. Elgabbas, F., Ahmed, E., and Benmokrane, B. (2015). "*Physical and Mechanical Characteristics of New Basalt FRP Rods for Reinforcing Concrete Structures.*" Construction and Building Materials Journal, Vol. 95, pp. 623-635.
- J15. 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, pp. 04014049.
- J16. 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. 04014030-1-13.
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- J18. 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. 2015, pp. 35-40.
- J19. 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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- J21. 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.
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- J25. 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, August, pp. 62-71.

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- J33. Benmokrane, B., and Mohamed, M.H. (2014). "Extending the Service Life of Water Treatment Structures: Glass Fiber-Reinforced Polymer Bar Replaces Steel in Concrete Water Tanks in Quebec." *ACI Concrete International Magazine*, Vol. 36, No. 2, pp. 40-45.
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