

**CRIB – Vingt-cinq publications les plus significatives 2016-2018**  
**Centre de recherche sur les infrastructures en béton**

1. **Gagné R** (2016). «Air entraining agents - chapitre 17 Expansive agents - chapitre 22 Shrinkage- reducing admixtures - chapitre 23», dans Pierre-Claude Aïtcin et Robert J. Flatt, *Science and Technology of Concrete Admixtures*, Elsevier-Woodhead Publishing, p. 379-391
2. Nixon P et **Fournier B** (2017). «Assessment, testing and Specification (Chapitre 2)», dans Ian Sims & Alan Poole, *Alkali-Aggregate Reaction in Concrete – a World Review*, Londres, Royaume-Uni, CRC Press (Taylor & Francis Group), p. 33-61
3. Rodrigues A, **Duchesne J**, **Fournier B**, Durand B, **Rivard P** et Shehata MH (2016). «Evaluation protocol for concrete aggregates containing iron sulfide minerals», *ACI Materials Journal*, vol. 113, no 3, p. 349-359
4. **Gagné R**, Bonneau O, Bouchard R et Morin-Morissette PO (2017). *Étude de la durabilité au gel-dégel et de la résistance à l'écaillage de bétons de type V-S fabriqués avec des liants ternaires*, Québec, 314 p
5. Benarchild Y, Taha Y, Argane R et **Benzaazoua M** (2018). «Application of Quebec recycling guidelines to assess the use feasibility of waste rocks as construction aggregates», *Elsevier*
6. Enjil R, De Jesus Cano-Barrita PF, Komar A et **Boyd A** (2018). «Wet Front Penetration with Unsteady State Wicking in Mortar Studied by Magnetic Resonance Imaging (MRI)», *Materials and Structures*, vol. 51, p. 1-16
7. Kassem M, **Ahmed AS** et El-Najar M (2018). «Sustainable approach for recycling treated oil sand waste in concrete: Engineering properties and potential applications», *Elsevier*, vol. 204, p. 50-59
8. Aliques Granero J, Tognonvi TM et **Tagnit-Hamou A** (2017). «Durability test methods and their application to AAMs: Case of sulfuric-acid resistance», *Materials and Structures*, vol. 50
9. Ginouse N et **Jolin M** (2016). «Mechanisms of placement in sprayed concrete», *Tunnelling and Underground Space Technology*, vol. 58, p. 177-185
10. Ouattara D, **Yahia A**, Mbonimpa M et Belem T (2017). «Effects of superplasticizer on rheological properties of cemented paste backfills», *International Journal of Mineral Processing*, vol. 161, p. 28-40
11. Ghoulé Z et **Shao Y** (2018). «Turning municipal solid waste incineration into a cleaner cement production», *Elsevier*, vol. 195, p. 268-279
12. Mostafa A et **Yahia A** (2016). «New Approach to Assess Build-up of Cement-Based Suspensions», *Cement and Concrete Research*, vol. 85, p. 174-182

13. Omran A et **Tagnit-Hamou A** (2016). «Performance of glass-powder concrete in field applications», *Construction and Building Materials*, vol. 109, p. 84-95
14. Lagier F, **Massicotte B** et **Charron JP** (2016). «3D Nonlinear Finite Element Modeling of Lap Splices in UHPFRC», *ASCE Journal of Structural Engineering*, vol. 142, no 11
15. Verger-Leboeuf S, **Charron JP** et **Massicotte B** (2017). «UHPFRC connection joint for precast bridge slabs in HPFRC and UHPFRC», *ASCE Bridge Engineering*, vol. 22, no 7, p. 1-11
16. Wilson W, **Sorelli L** et **Tagnit-Hamou A** (2017). «Automated coupling of NanoIndentation and Quantitative Energy-Dispersive Spectroscopy (NI-QEDS): A comprehensive method to disclose the micro-chemo-mechanical properties of cement pastes», *Cement and Concrete Research*, vol. 103, p. 49-65
17. **Mitchell D**, Paultre P et Adebar P (2016). «Shear and Torsion - Chapitre 4», dans Cement Association of Canada, *Concrete Design Handbook*, Ottawa, Ontario, Canada, p. 4.1-4.41
18. **Conciatori D**, Brühwiler E et Linden C (2018). «Numerical simulation of the probability of corrosion initiation of RC elements made of reinforcing steel with improved corrosion performance», *Structure and Infrastructure Engineering*, p. 1-9
19. **Masmoudi R** et Abouzied A (2018). «Flexural Performance and Deflection Prediction of Rectangular FRP-Tube Beams Fully or Partially Filled with Reinforced Concrete», *ASCE Journal of Structural Engineering*, vol. 144, no 6, p. 12
20. Namy M, **Charron JP** et **Massicotte B** (2016). «Structural behavior of bridge decks with cast-in-place and precast concrete barriers subjected to static loading: Numerical modeling», *ASCE Bridge Engineering*, vol. 20, no 12
21. Beaulieu LD, **Charron JP**, Desmetre C, **Gagné R** et **Joanis M** (2016). «Promouvoir l'innovation par les marchés publics : Le cas des infrastructures en béton - Chapitre 12», dans Marcellin Joanis, *Le Québec économique VI: Le défi des infrastructures*, Québec, Québec, Canada, Presses de l'Université Laval, p.
22. Courard L, **Bissonnette B**, Garbacz A, Vaysburd AM, Von Fay KF et al. (2017). *Development of specifications and performance criteria for surface preparation based on issues related to bond strength*, Denver, Colorado, États-Unis, 190 p
23. Lessard JM, Cloutier J, **Tagnit-Hamou A** et **Ben Amor M** (2017). «Environmental Benefits of Using Glass Powder in Manhole Production», *10th ACI/RILEM International conference Cimentitious Materials*, Montreal, Québec, Canada, p. 19.1-19.14
24. Saint-Pierre F, Philibert A, Giroux B et **Rivard P** (2016). «Concrete Quality Designation based on Ultrasonic Pulse Velocity», *Construction and Building Materials*, vol. 125, p. 1022-1027
25. Tandja Mbianda DC, **Power G** et **Bastien J** (2018). «Real option valuation in a Gollier/Weitzman world: The effect of long-run discount rate uncertainty», *Energy Journal - Eastern Finance Association*, vol. 39, p. 21-53