

ICSBM 2019  
Selected manuscript for the Special issue of **SN Applied Science**

| Submission number   | Titles   | Authors   |
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| 2   | Qualification of Biomass Derived Ashes for Application as a Cement Replacement and Quantification of Biomass Streams in The Netherlands  | N. Mühleisen, H. Jonkers, L. Tosti  |
| 13  | Chloride Ingress and Degradation of Portland Cement Mortar Exposed to Seawater Attack Coupling with Drying-wetting Cycle   | Shukai Cheng, Zhonghe Shui, Tao Sun, Xu Gao   |
| 17  | Application of Krstulovic-Dabic model on early hydration analysis of Portland cement under Mg <sup>2+</sup> influence  | X.S. Li, Z.H. Shui, X. Gao  |
| <b>The organizing committee suggest to merge together those contributions in 1 article:</b> |  |   |
| 021 and 019   | Stress-strain behaviour of steel confined recycled aggregate concrete<br>Influence of different recycled concrete aggregate treatment methods on the performance of concrete: a comparative assessment | Syed M. S. Kazmi, Muhammad J. Munir, Yu-Fei Wu, Indubhushan Patnaikuni              |
| 26  | Effects of Recycled Aggregates on Concrete Compressive Strength  | Najia Siddiqui, Maira Nasir, Isra Nasir, Darya Memon                                |
| 43  | Phase and dimensional stability of volcanic ash-based phosphate geopolymers at elevated temperatures   | Jean Noël Yankwa Djobo, Antoine Elimbi and Dietmar Stephan                          |
| 53  | Screening Untreated Municipal Solid Waste Incineration Fly Ash for Use in Cement-Based Materials – Chemical and Physical Properties  | Benjamin A. R. Ebert, Britt-Marie Steenari, Mette R. Geiker, Gunvor M. Kirkelund    |
| 58  | Effect of expansive agent on shrinkage and Long-term Performance of SCC  | Gang Ling, Zhonghe Shui, Tao Sun, Xu Gao, Xiaosheng Li, Guiming Wang                |
| 59  | Qualification of the residual reactivity of compacted recycled aggregates  | Yunlu HOU, Pierre-Yves MAHIEUX, Jérôme LUX, Philippe TURCRY, Abdelkarim AÏT-MOKHTAR |
| 61  | Effect of calcium hydroxide on the hydration of sulphoaluminate cement with high concentration of borate solution  | Qiu Li, Haosen Ma, Xuan Ling, Bo Yuan, Wei Chen                                     |
| 62  | Study on Self-healing Cementitious Materials with Hydrogels Encapsulating Phosphate  | Xiang Liu, Yanjie Tang, Zhilin Liu, Wanyu Chen, Qiu Li, Wei Chen                    |
| 72  | Biosorption of heavy metal ions of lead and zinc by <i>Trichoderma reesei</i> based on response surface method   | Yu Sun, Rui Yu, Zhonghe Shui, Diao Qian <sup>1</sup> , Biyun Rao, Jie Huang         |
| 81  | Role of Mg <sup>2+</sup> stabilized amorphous calcium carbonate on the early reaction of sodium carbonate activated slag   | B. Yuan, Q.L. Yu, W. Chen, H.J.H. Brouwers  |
| 102   | Quantification of Remaining Unhydrated Cement in Concrete Waste  | D. Kulisch, A. Katz   |
| 103   | Understanding Hydrogen Bonding in Calcium Silicate Hydrates  | Bo Li, H.J.H. Brouwers, Qingliang Yu, Wei Chen                                      |
| 105   | Mechanism and kinetics of binding of meat and bone meal ash into the Portland cement clinker   | T. Staněk, P. Sulovský, M. Bohác  |

**The organizing committee suggest to merge together those contributions in 1 article:**

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| 109 and 110 | Concrete with High-purity Volcanic Glass Powder Manufactured from Pyroclastic Deposit through Dry Gravity Classification and Pulverization and Manufacturing high-performance supplementary cementitious materials from pyroclastic deposit through dry gravity classification and pulverization | A. Tomoyose, T. Noguchi, K. Sodeyama, K. Higashi  |
| 112         | Early hydration of C2S doped with combination of S and Li  | M. Boháč, T. Staněk, A. Rybová, A. Zezulová, F. Bellmann, H.-M. Ludwig                      |
| 135         | Depth of penetration for steel-tube-confined concrete targets penetrated by rigid sharp-nosed projectiles  | Qinghua Tan, Dianyi Song, Zhigang Jiang   |
| 139         | The influence of cellulose-based micro and nanomaterials on early-age properties of cement grouts  | H. Karimi, Q.L. Yu, H.J.H. Brouwers   |
| 140         | Characteristics of mechanically activated converter steel slag   | Winnie Franco Santos, Katrin Schollbach, Qingliang Yu, Sieger van der Laan, H.J.H. Brouwers |
| 143         | Effect of MgO, nitrate intercalated LDH and Calcined-LDH on chloride resistance of alkali-activated fly ash /slag mortar   | Tao Liu, Yuxuan Chen, Qingliang Yu, H.J.H. Brouwers   |
| 144         | Recent development on sustainable ultra-high performance concrete design with low cement consumption: a review   | P.P. Li, Q.L. Yu, H.J.H. Brouwers   |
| 146         | Long term weathering of converter slag   | Katrin Schollbach, Sieger van der Laan  |
| 149         | Super-hydrophobic magnesium oxychloride cement (MOC): from structural control to self-cleaning property evaluation   | Z.Y. Qu, F.Z. Wang, Q.L. Yu, H.J.H. Brouwers  |
| 151         | Influence of Particle Size Distribution and MSWI Bottom Ash Aggregate Replacement in Zero-Slump Concrete   | P.M.F. van de Wouw, M.V.A. Florea, H.J.H. Brouwers  |
| 156         | The Optimized Application of Treated MSWI Bottom Ash in Concrete Mixtures  | M.V.A. Florea, A. Keulen, H.J.H. Brouwers   |
| 160         | Effect of carbonation on chloride binding behaviors and hydration product formation of metakaolin-ground waste coral blended marine mortars  | Y. Wang, Z. Shui, X. Gao, Y. Huang, R. Yu, Q. Song  |
| 161         | Rejuvenators for High RAP Asphalt Mixes and New Preservation Techniques for Open-Graded Pavements  | S.N. Nahar, F.B. Elzinga, B.J. Lommerts   |