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3	Sustainability of durable concrete reinforced with aluminum metal	Harald Justnes
5	Electrodialytically treated MSWI fly ash use in clay bricks	Lorena Skevi, Lisbeth M. Ottosen, Gunvor M. Kirkelund
7	Design of reinforced concrete slabs with consideration of the construction joints	V. Kurochkina, I. Yakovleva, A. Deineko, A. Starostin
9	HYDCEM: A new cement hydration model	Niall Holmes, Denis Kelliher and Mark Tyrer
44	The Effect of NaOH Concentration on the Mechanical and Physical Properties of Alkali Activated Fly Ash-Based Artificial Lightweight Aggregate	Puput Risdanareni, Katrin Schollbach, Jianyun Wang, Nele De Belie
48	Influence of External Water Introducing by Coral Sand on Autogenous Shrinkage and Microstructure of Ultra-High Performance Concrete (UHPC)	Kaizhi Liu, Zhonghe Shui, Rui Yu, Shuangqin Y
50	Neutron radiography to study water ingress via the interlayer of 3D printed cementitious materials	Jolien, Van Der Putten, Mahzad, Azima, Philip, Van den Heede, Tim, Van Mullem, Geert, De Schutter and Kim, Van Tittelboom
57	Influence of heat treatment and mechanical activation on reactivity of natural pozzolan for geopolymer synthesis	Rafia Firdous, Dietmar Stephan
64	Sewage sludge ash as resource for phosphorous and material for clay brick manufacturing	Lisbeth M. Ottosen, Ida M.G. Bertelsen, Pernille E. Jensen & Gunvor M. Kirkelund
65	The effect of MgO on the structure and chemical composition of C-S-H gels	Yanjie Tang, Wei Chen
79	Investigation of the zonation of thermally treated ultra high performance concrete	M. Voigt, J. von Werder, B. Meng
90	Assessment of mine tailings as precursors for alkali-activated materials for on-site applications	R. Obenaus-Emler, M. Falah, M. Illikainen
97	The Effects of Epoxy Resin as Partial Cement Replacement on the Mechanical Properties of Concrete	Gul Ahmed Jokhio, Yasmeeen Gul, Abid Abu-Tair, Gan Shang Wei

98	Experimental development of alternative lightweight concretes	Daia Zwicky
100	Fire resistance of aerated alkali-activated cements	J. Rodriguez-Sanchez, M. Fedorciuc-Onisa, H. Kinoshita, J.L. Provis, S. MacLachlan
114	The impact of slag fineness on the reactivity of blended cements with high-volume non-ferrous metallurgy slag	Vincent Hallet, Nele De Belie, Yiannis Pontikes
115	Safe Use of Sustainable Building Materials: A reappraisal of Adobe	T. Li Piani, J. Weerheijm, L. Koene and L. J. Sluys
119	A concrete composite from biologically based binders and mineral aggregates for constructional 3D-printing	J. Christ, H. Koss, L.M. Ottosen
137	A silica aerogel synthesized from olivine and its application as a photocatalytic support	Y.X. Chen, Y. Hendrix, K. Schollbach, H.J.H. Brouwers
141	The recycling potential of waste wood into wood-wool/cement composite	F. Berger, F. Gauvin, and H.J.H. Brouwers
153	Suitability of phenolphthalein indicator method for alkali activated concrete	Olalekan O. Ojedokun, P.S. Mangat
155	Methods for determining and tracking the residual cement paste content of recycled concrete	P.M.F. van de Wouw, M.V.A. Florea, H.J.H. Brouwers ¹
159	Self-cleaning and air purification performance of Portland cement paste with low dosage of nanodispersed TiO ₂ coatings	Zixiao Wang, Florent Gauvin, Pan Feng, H.J.H. Brouwers, Qingliang Yu
Keynote contribution	Specification of building materials for in service durability	C. Gehlen, C. Thiel