



Type 1: 15-minute oral presentation in the presentation room and poster outside the room

Paper ID	Paper Title
PA0008	Comparison of the mode of action of a shotcrete accelerator in a slag cement and an OPC cement
PA0018	3D Printed Prefabricated Prefinished Volumetric Construction for Sustainable Construction
PA0021	Assessment of early-age drying induced microstructural changes in 3D printed cement mortar
PA0031	Outline of NEDO Moonshot Project “Calcium Carbonate Circulation System in Construction”
PB0010	Production and Analysis of BYF Clinker Produced via the Combustion of Elemental Sulfur
PB0015	Effect of cooling rates on the properties of Portland cement clinkers in the presence of Mg element
PB0017	Effect of Synthesis Conditions, Zn Doping and Al/Fe Ratio on Calcium [Alumino] Ferrite Structure
PC0004	Effects of different calcined kaolinite clays on the sulfate demand of LC3 cements
PC0005	Monitoring of nucleation and growth of C-S-H phases by analytical ultracentrifugation and ICP-OES
PC0006	Effect of Temperature on Performance of Calcium Aluminate Cement Based Accelerator
PC0015	Hydration mechanism of wollastonite-blended magnesium potassium phosphate cements
PC0019	Kinetics of Al uptake in synthetic calcium silicate hydrate (C-S-H)
PC0021	Combined effect of sulfate carriers and alkanolamine on the hydration and setting performance of calcined clay cement
PC0022	Synthesis and characterization of Iron and Aluminium-containing AFm phases
PC0025	Role of Gypsum on Early Age Hydration of Alite Polymorphs (TI and TIII): A Temporal X-ray PDF Analysis
PC0027	In Situ X-ray Total Scattering Study on the Impact of Gypsum in C3S-Metakaolin-Limestone Systems
PC0042	Sodium sites and hydration state in C-S-H phases synthesized under alkaline conditions from ^1H and ^{23}Na MAS NMR experiments
PC0046	Early hydration and rheological behavior of the calcium aluminates mixtures in the presence of gypsum
PC0061	Organic additive’s influence on M-S-H formation
PD0004	Challenges and opportunities of limestone calcined clays cements with less than 50% clinker
PD0009	Activation of LC3 low-carbon cements by C-S-H seeding
PD0011	Monitoring The Impact Of Accelerators On The Reactivity Of Model Blended Cements

Paper ID	Paper Title
PD0020	The Effects of High Limestone Content on the Performance of PC Limestone GGBS Grouts for Encapsulating Nuclear Waste
PD0022	A Study on Hydration Properties of Cement Matrix according to Limestone Content for Portland Cement
PD0043	New Insights on the Use of Sewage Sludge Ashes as Supplementary Cementitious Materials
PD0044	Impact of Ca/Si and Al/Si ratio on the alumina-silica gel formed by wet carbonation of synthesized C-S-H phases
PD0046	Determining the reaction kinetics of supplementary cementitious materials for input into thermodynamic-kinetic models
PD0048	Characterization of (A/F) H3 Phase Microstructure with Different Al/(Fe+Al) Ratios based on Calcium Sulfoaluminate Cement
PD0056	Sensitivity of Modified Chapelle test for measuring the reactivity of different types of clays calcined under different conditions
PD0060	Comparison and optimization of calcination processes towards using clays as Supplementary Cementitious Materials
PD0061	Novel strength enhancing cement additives to enable production of low-clinker cements
PD0066	Modelling of clay calcination: Rotary kiln versus flash calciner
PD0069	The effect of potential activators on the hydration of slag substituted cement systems
PD0070	Correlating initial chemistry, reaction degree and phase assemblage in alkali-activated systems
PD0075	Performance Evaluation and Beneficiation of Fly Ash Co-mingled with Flue Gas Desulfurization Products for Use in Concrete
PD0076	Pozzolanic Reactivity and Characterization of Natural Pozzolans
PD0081	Refinement of activation methods for increased reactivity of kaolinitic and illitic clays
PD0113	Application of Interparticle Spacing Model to Maximize Filler Content in Cementitious Pastes
PD0118	Improving early-age strength of limestone-calcined clay cement by using finer cement and cement kiln dust
PD0120	A preliminary study on pozzolanic activity and reaction kinetics of coal gasification slag
PE0004	Characterization of siliceous hydrogarnet (Ca ₃ Al ₂ (SiO ₄) _x (OH) _{12-4x}) by solid-state NMR spectroscopy
PE0006	Influence of MgO on formation of clinker with different alumina modulus based on big data
PE0007	Multiscale investigation on the thermal stability of synthetic C-S-H pastes according to Ca/Si ratios

Paper ID	Paper Title
PE0013	Numerical Model for Growth and Porosity of C-S-H Structures in Cement Hydration
PE0014	Micromechanical properties of C-A-S-H based on nanoindentation
PE0030	C-S-H sorption under temperature and relative humidity changes
PE0038	Determination of amorphous silica and alumina fractions in metakaolin using X-ray diffraction and PONKCS method.
PE0039	Luminescent-based method for monitoring pH and chloride ingress in cementitious systems
PE0053	Impact of autoclaving on the phase assemblage of Portland cement: Experiment and thermodynamic modelling
PF0006	Hierarchical Structures in Magnesium Silicate Hydrates
PF0010	Effect of relative humidity on the carbonation of hardened cement paste particles under atmospheric CO ₂ concentration
PF0017	High-performance eco-cement synthesized from municipal solid waste incineration bottom ash and recycled concrete fine
PF0019	Formation and stability of magnesium silicate hydrate and hydromagnesite
PF0023	Microstructure of MgO-Al ₂ O ₃ -SiO ₂ binders
PF0026	Hydration of cementitious binders based on magnesium oxide / hydromagnesite blends
PF0054	Shrinkage in carbonatable binders: Are the cementitious standards applicable for non-hydraulic lime-cement systems?
PF0060	Carbon Dioxide Absorption by Amine Mediated Calcium-Silicate-Hydrate (C-S-H)
PF0066	CO ₂ utilization for ready mixed concrete production: development, challenges and scale up
PF0068	Experience of a real precast and site-cast application of alkali-activated GGBS based binder concrete
PF0071	Investigating the influence of addition of γ C 2 S and Carbon Di oxide on concrete performance and CO ₂ absorption
PF0079	Early hydration of low-energy cements from clinkers doped with combination of dopants
PF0082	Synthesis of Giorgiosite [Mg ₅ (CO ₃) ₄ (OH) ₂ ·5–6H ₂ O], further light on a new hydrated magnesium carbonate for MgO-based cement
PF0096	Chemical and structural evolution of magnesium silicate hydrate
PF0103	Influence of acetate on the carbonation of brucite (Mg(OH) ₂)



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PF0120	Development of Calcium Sulfoaluminate-Belite Cement Using Low-Grade Limestone
PF0123	Optimization of Hybrid Portland Cement – Metakaolin Concrete
PF0129	Transforming lignite fly ash into a carbon negative SCM through mineral carbonation
PG0009	Inefficiency of naphthalene superplasticizer in alkali-activated slag pastes: an investigation from the physical and chemical stability
PG0017	Reactivity and Microstructure of De-chlorinated Ti-Extracted Residues
PG0018	C-S-H and Pore Structure on Hardened Cement Mixed With Volcanic Glass Fine Powder
PG0033	Optimization of molecular structure of allylether-based PCEs with enhanced clay tolerance
PG0036	Hydration and Viscoelastic Properties of Tricalcium Aluminate Pastes Influenced by Soluble Sodium Salts
PG0040	Influence of pH value and temperature on the dispersion ability of PCEs containing ethyl acrylate and diethyl maleate segments and its mechanism study
PG0042	Paste rheology and surface charge of calcined kaolinite
PG0045	Cellulose ether behavior in slag cement-based tile adhesives
PG0060	Complexation Enthalpies of Organic Admixtures: Measurement Method Development and Application to Calcium Complexes
PH0003	Thermal Crack Resistance and DEF Suppression Effect of Concrete Using Fly Ash Cement
PH0004	Gradient distribution of slender glass microfibers in 3D printed cementitious filaments
PH0011	Preliminary Investigation of 0-3 Lead Zirconate Titanate – Lime Calcined Clay Cement Composites
PI0004	Durability of low-carbon cements exposed to chemically aggressive environments
PI0006	Cement use under extreme marine environment–deep sea
PI0009	Evaluation of transport properties in ITZ with coupled CT image analysis and simulation
PI0010	Crack reactivity of ultra-high performance fibre reinforced concrete under the flowing impact of geothermal water
PI0015	Antimicrobial performance of ZnO-modified geopolymer against microbial corrosion
PI0024	Drying shrinkage of cement paste during the first drying-resaturation cycle
PI0032	Investigation on the durability evolution of high belite cement subjected to thermal fatigue



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PI0035	The deterioration process of alkali activated slag exposed to sulfate attack and calcium leaching
PI0039	Kinetics of iron (hydr)oxide precipitation in cementitious materials
PI0041	Assessment of the ion diffusivity of cement-based materials using QXRD and micro-CT based random walk simulation
PI0047	Chloride ingress resistance of Ca(OH) ₂ activated GGBFS: Impact of curing temperature and additional activators
PI0056	Experimental investigation of expansion and damage due to alkali-silica reaction at low temperature
PI0057	Physicochemical stability of calcium aluminate cement and hemihydrate-based material exposed to deep sea
PI0064	Effect of nitrate and nitrite on the dissolution kinetics of iron sulfides in alkaline solutions
PI0074	Elucidating the carbonation front in blended calcined kaolinite clays binders using analytical techniques
PJ0001	Preparation of reactive urchin-like recycled concrete aggregate by wet carbonation: towards improving the bonding capability
PJ0011	Structure and Reactivity of Aqueous Carbonated Blended Cement Pastes
PJ0018	Capability of traditional and geopolymers cementitious systems for the immobilization of a thermally treated ion exchange resin
PJ0026	Durability properties of composite cement including engineered scrap based EAF-slag as novel SCM
PJ0029	The role of C12A7, α' -H-C2S and dehydrated amorphous nesosilicate in rehydration of recycled cement
PJ0033	Assessment of the Microstructure and Mass Transfer in Strontium-Loaded Geopolymer Cement Wasteforms
PJ0042	Relationship between the chemical composition of cementitious materials and their radioactivity
PJ0050	An Experimental Study of Sulfur and Chlorine Stripping from Cement Hot Meal
PJ0064	Developing circular concrete through acid leaching of waste concrete fines
PJ0066	Design and Two Years of Field Experience from an Energy-Harvesting Floor Utilizing Piezoelectric Ceramics
PJ0069	Upcycling of Bio-Waste Ashes into Additive for Concrete
PJ0071	Decarbonizing UAE Cement Industry with Limestone Calcined Clay Cement (LC3)
PJ0075	Properties Of A Magnesium-Silicate-Hydrate Cement Paste Prepared Using Magnesium Hydroxide
PJ0083	Effect of Conditions on Pore structure of silica gel in Wet Carbonated Recycled Cement Paste Powder
PJ0087	Eco-toxicity assessment of cement. Bioassays on luminescent bacteria and sea urchin embryogenesis



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PJ0095	Optimization of low clinker limestone calcined clay cement (LC3) concrete mixes as further carbon footprint reduction strategy
PJ0100	Estimating Lifecycle-based Carbon uptake at building level: insights from a bottom-up approach in two countries
PJ0101	Calcium sulfoaluminate clinker production from sulfidic mine tailings
PK0006	Recent advances on European cement standards prepared by CEN TC51 for more sustainable products