



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 ($\text{Ca}_3\text{Al}_2(\text{SiO}_4)_x(\text{OH})_{12-4x}$) 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
PF0024	Development of Carbonation-cured Low-carbon Precast Concrete Products and Evaluation of Avoided CO ₂ Emissions
PF0026	Hydration of cementitious binders based on magnesium oxide / hydromagnesite blends
PF0032	Microstructure of Alkali-activated Slag Paste Modified by Superabsorbent Polymers
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
PF0076	Quantitative analysis of carbon dioxide bound by carbonation of belite
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)



Paper ID	Paper Title
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

Paper ID	Paper Title
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



Paper ID	Paper Title
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



Type 2: 5-minute oral presentation in the presentation room and poster outside the room

Paper ID	Paper Title
PA0001	Effect on Graphene Oxide and Silica Fume on the Performance of Concrete under Standard Curing Conditions
PA0003	Self-healing concrete using special biological materials
PA0005	Electrocatalytic Reduction of CO ₂ to useful chemicals with 3D structure of Cu ₂ O/Cu
PA0009	3D-printable magnesium-silicate-hydrate cement composites: A feasibility study
PA0010	Evaluation of Internal Cracks and Three-Dimensional Deformation due to Different Nozzle Paths in a Material Extrusion 3D Printer
PA0012	Use of volcanic ash in an ECC material for 3D printing
PA0013	Future projection of carbon dioxide emission in calcium carbonate concrete (CCC) production
PA0015	Novel Soluble Boron Compounds to Improve Shielding of Cement Systems
PA0016	Constructing solutions using cement-based materials for energy harvesting and storage
PA0017	Thermal evaluation of the use of liquid nitrogen as a pre-cooling methodology for mass concrete for use in onshore wind tower
PA0020	Use of biomass ash in the fabrication of Self-healing engineered cementitious composites (ECC)
PA0023	The First 3D Printed 2-storey Building in Thailand
PA0025	3D Printing Mortar and Concrete: Advancement and Application of Laboratory Test Protocol to Evaluate Properties physiochemical and mechanical.
PA0028	The Role of Belitic Calcium Sulfoaluminate Cement in Achieving Net-zero
PA0035	Carbon neutral concrete based on a sea snail shell: a green solution for the urban heat island
PB0002	Digitalization in cement production: prediction of free lime content in clinker production
PB0003	Method of Intensifying Cement Clinker Production
PB0004	Piezoresistive performance of deformable cement-based materials with in-situ polymerization
PB0007	Research on the preparation of low-calcium Portland cement
PB0008	Determination of Clinker Performance with Chemical Additives by use of XRF, QXRD and Microscopy Analysis.
PB0009	Preparation and Characterization of Portland cement Clinker by High Magnesium Limestone and Iron Tailings
PB0011	Controlling soluble Cr(VI) in Portland cement containing high content of ferrite phase
PB0014	Low-emission Portland clinker with decarbonized waste materials as necessary part of a circular economy
PB0016	Effect of chlorides on the clinkering and reactivity of ye'elite



Paper ID	Paper Title
PC0001	Hydration and conversion reactions of Calcium Aluminate Cement with reactive Calcite at variable temperatures
PC0002	Recent advances in understanding the hydration of limestone calcined clay cements (LC3)
PC0003	Microstructural mechanism involved in the expansion generated in cementitious materials with expansive agent type K
PC0008	Effect of DEIPA on hydration and mechanical properties of calcium sulphoaluminate-belite cement
PC0009	Effect of mixing conditions on the rheology and microstructure of silicate-activated slag mixtures
PC0010	Ion uptake in C-S-H
PC0011	The influence of free water removal approaches on the composition and morphologies of CAC hydrates cured at different temperatures
PC0016	Effect of temperature rise inhibitor on heat evolution of cement-quartz system
PC0018	Effect of Formulation Process of An Alkali-free Liquid Accelerator on Hydration and Properties of Portland Cement
PC0020	Influence of ferronickel slag on the early hydration and microstructure of alkali-activated ground granulated blast furnace slag
PC0024	Effect of titanium dioxide nanoparticles on hydration and mechanical properties of mortar based on a ternary binder system
PC0026	Adsorption of Ca ²⁺ at the Interface and Its Effect on the Particle Interaction, C-S-H Formation and Adhesion
PC0028	Promoting effect and mechanism of polyaluminum chloride on hydration reaction of excess-sulfate phosphogypsum slag cement
PC0029	Hydration of CAC pastes at high temperature
PC0030	Hydration of Blended Pastes at Later Age under Different Curing Conditions: Insights into the Rate Limiting Mechanism
PC0031	A Combined Calorimetry and XRD Study of The First 15 Minutes of Portland Cement Hydration
PC0036	Evaluation of cement matrix hydration products with X – ray microtomography images
PC0037	Comparative study of the hydration kinetics of oil well cement and model cement retarded by tartaric acid at elevated temperatures
PC0038	Immobilization and role of cerium(IV) during the hydration of Portland cement-based material
PC0039	Hydration of tricalcium aluminate-sulphate systems in presence of alkanolamines
PC0040	Thermogravimetric analysis on the effect of SAP addition on the microstructure of cement based materials
PC0043	Effect of irradiation on Portland cement pastes: impact on mineralogy, mechanical properties, and microstructure



Paper ID	Paper Title
PC0044	Influence of TiO ₂ on the kinetic reaction of white Portland cement suspensions
PC0045	Activation of prehydrated CAC during curing at 20 °C using micro-sized CaCO ₃
PC0048	Elucidation of hydration reaction of blended OPC by the utilization of alkanolamine-base grinding agent
PC0049	An insight on the effect of KAlO ₂ on hydration kinetics and mechanical properties of ternesite
PC0050	Synthesis of sodium iron silicate hydrate (N-F-S-H)
PC0051	Study on the hydration and properties of oil well cement slurry with sodium and potassium chlorides
PC0052	Nucleation of C-S-H from Molecular Dynamics
PC0053	Study of early age hydration behavior of sulfate-rich belite sulfoaluminate cements with anhydrite and gypsum
PC0054	Identification of Phases in Cementitious Materials at Critical Elevated Temperatures
PC0055	Time resolved synchrotron X-ray diffraction investigations of LC3 hydration in the presence of hydroxyethyl methyl cellulose ethers
PC0056	Mineral dissolution mechanism of different polymorphs of alite from ReaxFF molecular dynamics simulation
PC0057	Effect of Zn retention in alite on the hydration of cementitious systems
PC0058	Hydration of Calcium [Alumino] Ferrite with Limestone
PC0059	Deciphering the defects of alite particles at the single-atom level
PC0062	Sintering Flue Gas Desulphurization Ash-Steel Slag Cementitious Materials: Hydration Improvement and Application
PC0063	Directly Indication of Structure of Blast Furnace Slag
PC0064	NHL preparation and the influence of B ₂ O ₃ on this process
PC0068	Effect of C ₄ A ₃ S̄-C ₃ S̄ on hydration property and volumetric stability of Portland cement
PC0069	Modifications on the early hydration stages of a Portland cement paste induced by polydimethylsiloxane (PDMS)
PD0001	New steel production processes and their consequences for slag utilization in cement
PD0003	The effect of iron phases on the performance of calcined clays in calcined clay-limestone cement
PD0005	Dilution Effects in Cementitious Matrices By Using Calcined Clay and Limestone for Reduced Clinker Factors
PD0006	Study on Calcined Clay-Recycled Concrete Powder Composite as Supplementary Cementitious Material
PD0007	Study of filler effect of VGP on cement hydration
PD0008	Reactivity of alternative supplementary cementitious materials assessed by the R3 method



Paper ID	Paper Title
PD0012	Nucleation Effects of Biologically Architected Calcium Carbonate in Portland Limestone Cements
PD0013	Using Calcined Clay and Calcium Chloride to Enable Aluminum Reinforced Concrete
PD0014	Dune sand powders characterization for their use in cement-based materials
PD0016	Study on preparation of low calcium supplementary cementitious material for solidification of heavy metal zinc
PD0019	Pore structure refinement of calcium-sulfate-aluminate--Portland cement mortars by early-age CO ₂ curing
PD0024	Critical Investigations on Two-Stage Mixing to Increase Early Strength of Cements with Slag and Limestone
PD0026	Cement Hydration Kinetics of LC3 Paste Synthesized with Biologically Architected CaCO ₃
PD0027	Valorization of industrial waste in ternary cement design
PD0028	Behavior of zeolitized rocks as supplementary cementitious material
PD0029	Effect of silica fume on long-term hydration and compressive strength of UHPC under different curing regimes
PD0032	Using blast furnace slag from iron ore “green briquette” on cements – Part 1: chemical and mineralogical characterization
PD0033	Variation of Fluidity of Calcined Clay Limestone Cements by Power Ultrasound and Gypsum Addition
PD0034	Effect of solid wastes with different activities on the rheological properties of 3D printing low carbon concrete
PD0035	Assessing the activity of potential SCM's using the R3 test method
PD0036	The effect of ionic environment of cement pore solution on the PCE’s molecular conformation, adsorption and performance
PD0038	On the synergies among supplementary cementitious materials
PD0039	Comparison of composite cements with limestone filler, fly ash, and calcined clays
PD0040	Performance of calcined anthill clay as a supplementary cementitious material
PD0041	Using blast furnace slag from iron ore “green briquette” on cements - Part 2: physical-mechanical characterization
PD0042	Reactivity of alternative SCMs from Nordic Countries – Input for the R3 test
PD0045	About The Effect Of Portland Cement Activation On Supersulfated Cements Properties
PD0047	Microstructure characterization of (A/F) H3 phases with different alkali concentrations based on calcium sulfoaluminate cement
PD0051	PCE Superplasticizers for a Green Binder Containing Calcined Clay
PD0054	Influence of mineralogical composition on the calcinability of shales
PD0055	A New Soluble Alkali Test to Predict the Alkali Contribution of SCMs to Concrete Pore Solution

Paper ID	Paper Title
PD0057	Use of alkaline salts to improve the reactivity of cements with high fly ash content: hybrid alkaline cements
PD0058	Impact of C-S-H seeding on hydration and strength of slag blended cement
PD0059	Reduce OPC content in limestone calcined clay cement (LC3) with C-S-H seeding
PD0062	How siderite (FeCO ₃) might be a future low-CO ₂ reactive binder component for composite cements
PD0064	Electrification of Calcined Clay Systems in the Cement Industry – Technical, Economic and Environmental Potentials
PD0065	Production of Low-Heat Cement from Industrial Waste
PD0067	Hydration of ternary blended cements comprising co-calcined bauxite residue and kaolinitic clay
PD0071	Preliminary Selection Criteria of Clays for Limestone Calcined Clay Cement
PD0072	Assessing the Viability of Incorporating Granite Dust as A Partial Cement Replacement in Concrete
PD0074	The effect of rice husk ash on carbonation-hydration process of low-carbon cementitious materials
PD0077	Transformation of Bauxite Residue into a Reactive Supplementary Cementitious Material
PD0078	Scientific dosage of self-compacting concretes containing ternary cement mixtures
PD0080	Effect of Admixture for Slag on the Hydration and the Durability of Cement blend containing Cement, Slag, and Calcium Carbonate
PD0082	Effect of temperature on the heat of hydration and compressive strength of ternary blends
PD0085	Effects of three-dimensional graphene-CNT on the mechanical and microstructure of cement paste
PD0087	A novel self-hardening cement by the self-activation of glass powder
PD0088	Reducing the clinker factor in vitrified bauxite residue-containing ternary blended cements
PD0090	Alkali-carbonate activated waste glass-based cements
PD0091	Alkali-activation and chemical stabilization of incineration fly ash using slag for dangerous waste storage
PD0092	Use of synthetic-SCMs in blended cements and hybrid alkaline cements
PD0094	Influence of burning level on calcined clay reactivity - Experience from a rotary field trial up to RMX application
PD0095	Impact of calcination technology on the properties of a low kaolinite calcined clay
PD0096	Fresh and hardened state properties of ternary slag cement concrete with high filler content
PD0097	Application of LC3 in Non-Structural Concrete



Paper ID	Paper Title
PD0098	A tailored supplementary cementitious material based on Calcined Clay technology for Ready Mix production
PD0099	Functionalization of Metakaolin with Non-Ionic Surfactants: Swelling and Pozzolanic Reactivity
PD0100	Influence of dregs and grits on the hydration of Portland cement pastes
PD0101	Reactivity (R3) and hydration products of Fe(II)-rich slags: from CaO-FeOx-SiO ₂ to CaO-Al ₂ O ₃ -Na ₂ O-FeOx-SiO ₂
PD0102	The Assessment of SCMs Reactivity in Thailand
PD0104	Bauxite residue as a new source of SCM: its impact on cement hydration and interaction with fly ash
PD0105	Supplementary cementitious materials based on CO ₂ -Capturing periwinkle shell
PD0106	Performance of concretes with ternary blended cements containing limestone filler and calcined illitic clay
PD0107	Utilization of red mud as mineral admixtures in low carbon cement: microstructure and properties
PD0108	Development of supplementary cementitious materials using weathered volcanic eject
PD0109	Fit-for-Purpose Self-Healing Cements
PD0110	Beyond kaolinite content: untangling the influence of other clay properties on the reactivity of calcined clays
PD0111	Use Of Supplementary Cementitious Materials for Composite Cements: An Overview
PD0114	Determination of calcined clay minerals impact on strength and carbonation of Portland cement mortars using k-value concept
PD0115	Effects of Blast Furnace Slag Fineness on Cement Physical, Mechanical and Chemical Properties
PD0116	Reactivity of synthesized aluminosilicates in supersulfated cement (SSC) systems
PD0117	Orthogonal analysis of technological conditions of autoclaved aerated concrete based on red mud
PD0119	Design of lime-based repair materials for the Ming Great Wall : a scientific understanding based on traditional lime mortar
PD0122	Alkali-activated fly ash synthesized with pre-polymerized suspension combined with ultrafine fly ash at ambient temperature
PD0123	A unified method for efficient and reliable determination of pozzolanic reaction degree of SCMs in blended cement pastes
PD0124	Power ultrasound assisted production of sustainable concrete
PD0125	Feasibility of using volcanic debris from the island of La Palma as building materials



Paper ID	Paper Title
PD0126	Low-emission concrete with natural and recycled aggregate in standard and modular construction
PD0127	Blended systems with OPC-Pozzolan-High limestone filler
PE0002	Relationship between rate of hydration and physical and chemical characteristics of Portland cement
PE0003	Combined use of laboratory X-ray diffraction and microtomography in early age cement hydration
PE0005	Revisiting the correlation between porosity and compressive strength of composite cements
PE0008	Molecular Dynamics on the Pressure Exerted By Water Molecules Confined in Microporous C-S-H
PE0009	Investigation of Selective Dissolution Method for Separation of Ferrite Phase in Cement and Characterization
PE0010	A comparative study of tribometer rotor configurations and analytical methods for concrete pumping pressure prediction
PE0011	Microstructural analysis of the effect of clinker phase distribution on cement hydration using computer-based approaches
PE0012	Application of artificial intelligence on reconstruction of multi-phase cement paste microstructures
PE0015	Methods for measuring internal stress and expansion deformation of fresh concrete during steam curing
PE0016	Composition and chain length of Alkali-activated Ground Bottom Ash gels using NMR
PE0018	Determining the degree of reaction of SCMs in hydrated cement pastes
PE0019	Mineralogical Investigation of Coal Fly Ash using Combined SEM-EDS and Raman Spectroscopy
PE0020	Study of alite and belite dissolution by kinetic Monte Carlo simulations and its effect in cement hydration.
PE0021	DEM insights into the effect of coarse aggregate properties on the creep behaviors of concrete
PE0022	Machine Learning atomic potential for C-S-H
PE0023	Assessment of Radiation-Induced Degradation in a Siliceous Rock via Correlative Characterization
PE0024	Solid state NMR study of the hydration of a fast-setting ternary binder added with lithium carbonate or trisodium-citrate
PE0025	Exploring C-S-H clusters with evolutionary
PE0026	Low-Cost and Reliable Contact Angle Goniometry for Cementitious Materials
PE0027	Structure and mechanical properties of calcium silicate hydrate and calcium carbonate nano composites resolved by reactive molecular dynamics simulations

Paper ID	Paper Title
PE0029	MD study of radiocesium immobilization in the geopolymer matrix
PE0031	Modelling of the Flocculated Polydisperse Microstructure of Fresh Cement Paste
PE0032	Behavior of water in C-S-H
PE0033	Microstructure quantification of blended cement pastes by using the conventional EDS images
PE0035	Correlation Between Kinetic Behavior and Compressive Strength of Alkaline Activation
PE0037	Simulation of heat transport in extruded concrete structure
PE0041	Modelling the Dielectric Spectrum of Cementitious Materials for Radiative Cooling Applications: Importance of the Si-O Interactions
PE0042	In situ monitoring of microstructure evolution of C3A –gypsum system by low field NMR
PE0045	Thermodynamic modelling of Portland cement clinkers
PE0048	Calcium Silicate Hydrate Surface
PE0049	Reacquainting the rate value and predicting BYT clinker compressive strength by the Random Forest algorithm
PE0050	Experimental thermodynamic study of selected cement clinker phases
PE0051	Simulation of Concrete Thermal Stress Based on Temperature-stress Test
PE0054	A Multi-scale Model of Reinforcement Bars Corrosion Based on the Concentrated Electrolyte Theory and Three Dimensional Hierarchical Structure of Concrete
PE0056	Application of fluorophores for cement hydration monitoring
PF0002	Effects of Magnesium Ion on Retardation Mechanism of Non-calcium Metakaolin Geopolymer
PF0003	Alkaline materials based on pulverized recycled concrete and waste glass
PF0004	Effect of further water curing on properties of carbonated reactive MgO cement
PF0007	Lightweight reactive magnesia cement (RMC) and biochar-based CO ₂ -reducing composites
PF0008	Processing and hydration activation of limestone calcined clay belite-rich cements
PF0011	Optimizing calcined clay geopolymer production
PF0012	Microstructural modifications of alkali-activated fly ash cement pastes by the presence of calcium hydroxide
PF0013	Physical properties and CO ₂ fixation of concrete using carbonated cement slurry
PF0014	Cement and Synthetic SCM with Low-CO ₂ Footprint
PF0015	Influence of elevated heating temperature on the mechanical performance of carbonated belite pastes



Paper ID	Paper Title
PF0016	Fresh Properties and Compressive Strength of Alkali Activated Mortar with Different Powder Composition
PF0018	Effects of Sodium Silicate on the Mechanical Properties and Setting Time of Geopolymer
PF0020	The modification of ultra fines on the rheological properties of alkali-activated ternary paste
PF0021	Strength development and CO ₂ sequestration by carbonation curing of mortar using blast furnace slag fine powder and γ -C ₂ S
PF0022	Valorization of A Low-Grade Magnesia as A Precursor in the Preparation of MKPCs
PF0025	Experimental study on synergy between CO ₂ mineralized steel slag and carbonation-cured steel slag-cement paste
PF0027	Effect of organic ligands in AAM binders
PF0028	Carbonation of iron (Fe)-rich phases in cement/concrete matrices: where are we now?
PF0029	Enhancement of the properties of recycled concrete aggregates in different mediums
PF0030	Reaction Kinetics and Mechanical Properties of Alkali-Activated Metakaolin-Limestone Cements
PF0034	Utilization of carbonated steel slag powder in cementitious materials
PF0036	Insights into the Role of Carbonation Curing on Calcium Leaching Behavior of Cement Paste
PF0038	Effect of early carbonation curing system on performance of cement mortar
PF0039	Mechanical properties of Hardened Cement Paste Containing Amines
PF0041	Further Carbon Capture by Semi-Carbonated Concrete Waste Fines through Wet Carbonation Process
PF0042	Fracture properties of in-situ polymerization modified cementitious materials
PF0043	Preparation and hydration of steel slag-based cementitious material
PF0044	Hydration and Shrinkage Behavior of Copper Slag Activated by Sodium Silicate at Different Na ₂ O Equivalents
PF0046	Use of Geopolymer Cements for the Treatment of Intermediate Level Radioactive Waste
PF0047	Low CO ₂ footprint and high circular cementitious binders based on mineralized RCF and LF steel slags under synergistic approach
PF0048	Understanding the role of carbon nanotubes in low-carbon concrete: from experiment to molecular dynamics
PF0049	Effect of CO ₂ curing on bonding strength and microstructure in the interfacial transition zone
PF0050	Accelerated Carbonation of Brucite Recovered from Desalination Reject Brine for Construction Applications

Paper ID	Paper Title
PF0051	Preliminary study on the impact of the ratio of r-MgO to Biomass fly ash on Carbonated Reactive Magnesia Cement-based mortars
PF0052	Enhancing Carbonation of Reactive Magnesium Oxide Cement (RMC)-Based Composites with Cenospheres
PF0055	Compressive strength, pore structure and hydration of alkali-activated slag-waste ceramic powder-silica fume ternary system
PF0057	Hydration, microstructure and macro-properties of high belite MgO expansive cement
PF0058	Development of Magnesium Silicate Hydrates from Brucite and Silica Fume
PF0059	Spatial and Temporal Analysis of Carbonation Depth via Raman Spectroscopy and Imaging
PF0062	Incorporation of construction and demolition waste (CDW) in fiber cement submitted to the accelerated carbonation process
PF0063	Enzymatic Carbon Sequestration in Cementitious Materials
PF0064	Role of Mixing Temperature on CO ₂ Mineralization of Cement-based Materials
PF0065	Evolution of products in CO ₂ surface treated cement
PF0069	Promoting Carbonization of Hardened Cement Paste by Wet-Dry Cycle
PF0070	Global Warming and its Consequences for the Construction Industry
PF0073	Amine-CO ₂ Treatment of Cement Slurry and its Effect on Portland Cement-Fly Ash-Slag Ternary System
PF0075	Investigating Carbonation and Hydration of Reactive Magnesia Cement using Advanced Characterization Methods
PF0080	Alkali-activated cements derived from natural and designed blends of clay and calcium(magnesium) carbonate sources
PF0081	Evaluation of iron ore tailing in alkali-activated cement
PF0083	Limitations of isothermal calorimetry for sulfate optimization of Limestone Calcined Clay Cements (LC3)
PF0085	An alkali-activated cement factory in Brazil: quantification of CO ₂ emissions for a class of cements
PF0086	Effect of CO ₂ concentration on amount of carbonation in Mortar
PF0088	Fundamental understanding of carbonation mechanism of aluminosilicate based material: A state-of-the art review
PF0089	Alkali-Silica Reactivity in Belitic Calcium Sulfoaluminate (BCSA)
PF0090	The Utilisation of Rice Husk Ash Leachates for the Synthesis of Eco-friendly Geopolymers
PF0091	Preservation of α' Dicalcium Silicate (C ₂ S) under SO ₂ -Containing Atmosphere
PF0092	Chloride Diffusion and Migration into Concrete Made with Ternary Cements (Clinker, Blast-furnace Slag and Coal Fly Ash)
PF0093	The study of relationship between capability of CO ₂ absorption and strength and pore structure using blast furnace slag cement

Paper ID	Paper Title
PF0094	Effect of Limestone Powder on the Resistance of AACM to Sulfate Attack
PF0098	Development of plaster-like materials from magnesium carbonates
PF0102	Suitability of Low purity Limestone for Limestone Calcined Clay Cement (LC3) Production
PF0104	Suitable solvent extraction method selection and gel structure evolution for alkali activated slag (AAS) pastes at early age
PF0105	Synthesis of Calcium Sulfoaluminate-Belite Cement from Lignite Bottom Ash Using Clinkerization and Hydrothermal-Calcination
PF0106	CO ₂ mineralization of silicate minerals and the potential inhibiting effect of amorphous silica-rich surface layers
PF0107	Two-Step Synthesis of Low-Lime Cement and its Hydration
PF0108	The optimal water conditions for the accelerated carbonation curing of cement-based materials incorporating γ -C ₂ S
PF0110	Utilization of biochar as a carbon sink in low carbon concrete
PF0111	Effect of carbonated phases on the performance of different MgO-based formulations
PF0112	Leaching-Induced Mass Loss Characterisation of Calcium Sulfoaluminate Binders Using Acid Titrimetry
PF0113	Reactivity of novel artificial precursors for alkali-activated materials made from industrial residues
PF0114	Belitic calcium sulphoaluminate (BCSA) cements and the current durability standards: What are we testing?
PF0115	Early-Age Hydration Characteristics of Ye'elimite in the Presence of Calcium Sulfate and Alkalis
PF0116	'A Tale of Two Cations': the influence of interlayer chemistry on the behaviour of montmorillonite clay alkali-activated cements
PF0117	Phase formation and CO ₂ absorption of reactive magnesium oxide (MgO) cement (RMC) with additive under various curing regimes
PF0118	Rheological properties of self-compacting geopolymer concrete based on response surface methodology (RSM)
PF0119	Synthesis and Characterization of Red Mud Based Low-Carbon Cementitious Materials
PF0121	Composition-Reactivity Relationship of Indian Biomass Ash
PF0122	Understanding Reaction Mechanisms, Kinetics, and Structural Evolution in Alkali-Activated Slag Cement
PF0124	Effect of forming process on mechanical properties of carbonated steel slag artificial aggregates
PF0127	Evaluation of the properties of completely recyclable mortar
PF0130	Synthesis, characterization and solubility of sodium aluminosilicate hydrate (N-A-S-H) gel

Paper ID	Paper Title
PF0136	Investigation of the effects of supplementary cementitious materials in mitigating alkali-silica reaction using thermodynamic modelling
PF0138	Utilization of dolomitic limestone waste for manufacturing of Limestone Calcined Clay Cemen
PG0001	Utilisation of Polycarboxylate Superplasticiser in Seawater Blended Cementitious Materials: Effect of Superplasticiser Molecular Structure and Salinity
PG0003	Study to improve vibration flowability of fresh concrete by controlling flocculation state of cement particles
PG0004	How does the alternating current field affect the yield stress of fresh cement paste?
PG0005	Functionalized transition metal doped silicate hydrate/PCE nanocomposites an innovative hardening accelerator
PG0007	Inhibition and recovery of cement hydration
PG0012	Interpretation of rheological property of steel slag powder blended cement paste: from interparticle force to physico-chemical parameters
PG0013	A migrating and reactive admixture with coupled functions of water reducer and new/old concrete interfacial agent
PG0014	Influence And Strategies of Plug Flow on The Measured Rheological Properties of Cement-Based Materials
PG0015	Investigation on the sensitive setting performance of cement paste in the presence of triethanolamine: Effect of mixing speed
PG0016	Effect of the microstructure of polycarboxylate ether (PCE) superplasticizers on the hydration kinetics of OPC
PG0019	Synthesis of polycarboxylate ether (PCE) polymer superplasticizers and the study of their interaction with cement's crystalline phases
PG0022	Early-age workability loss in LC3 systems
PG0024	A New Class of Admixtures for Low Carbon Concrete
PG0027	Impact of C-S-H Seeds on Cementitious Hydration Kinetics, Pore Structure, and Strength
PG0028	Influences of Accelerators on Compressive Strength of Clinker-Efficient Composite Cements with Slag and Limestone
PG0029	Chemical Admixtures Used in 3D Printing
PG0030	Novel PCE Superplasticizers for Low Carbon and Zero Clinker Binders
PG0031	On the CO ₂ Footprint of Polycarboxylate Superplasticizers (PCEs) and its Impact on the Eco Balance of Concrete
PG0032	Investigation into A Novel Starch-based Superplasticizer for Alkali-activated Slag
PG0034	Methodology to evaluate sticky cement paste from a rheological perspective
PG0035	A novel formulation concept for fast OPC based tile adhesives
PG0038	Rheology of superplasticized limestone calcined clay cements

Paper ID	Paper Title
PG0041	The Purer the Better: How Monomer Purity Affects the Effectiveness of Phosphate Type Superplasticizers in Cement Paste
PG0043	Rheological properties of belite-calcium sulfoaluminate cement
PG0044	Early-age elasticity in structuration of highly cohesive concrete with added pozzolanic diatomaceous earth
PG0046	Influence of key synthetic factors on the molecular characteristics of polycarboxylate superplasticizers
PG0047	Hydration Accelerating Effect and Strength Characteristics of blended Cement by C-S-H Accelerating Agent
PG0049	Influence of retarders on the hydration and rheology of calcium sulfo aluminate cement
PG0052	Synergy effect of TEA as cement additive and PCE on rheological and hydration kinetics of limestone cementitious materials
PG0055	Microscopic tracking of superplasticizer adsorption in alkali activated materials
PG0056	The Effect of Crystalline Morphology on the Rheology of Ettringite Suspensions in Presence of Admixtures
PG0058	Influence of Kaolinite Content on the Fresh Properties of LC3 Systems
PG0059	Non-adsorbing polymers and depletion forces in cement pastes
PG0061	Agglomeration Kinetics of The C-S-H During Rehydration
PG0062	A study on early strength development of fly ash-GGBS geopolymer concrete admixed with inhibiting admixtures
PG0063	Rheology of ultra-high geopolymer concrete: Influences of activator types and silica fume
PH0002	A novel power ultrasound assisted mixing technology to prepare cement paste: Effect on hydration process and compressive strength
PH0005	Effect of hydrophobically modified hollow glass microspheres on the flow behavior of lightweight high-performance concrete
PH0006	Mechanical strength and toughness of rapid hardening ultra-high performance concrete (RH-UHPC)
PH0009	Ohmic heating curing for cement-based materials: A promising new technology with enhanced fabrication efficiency
PH0012	Multifunctional Concrete with Integrated Self-sensing and Self-Healing Capacities Using Carbon Black and Slaked Lime
PH0013	Preliminary Study of Cementitious Composite As a Self-Healing Material In Some Concrete Structures
PH0020	Concrete Mix Design for Rigid Pavements Maintenance: Evaluating Compressive Strength Development and Curing Temperature Effect
PH0022	Concrete performance with alkali-activated cement based on industrial side streams from Brazil
PH0024	Inorganic Capsule Based on MgO Expansive Agent for Self-healing Concrete

Paper ID	Paper Title
PH0027	The performance of 3D printing PCM concrete with novel hollow ceramsite composite
PH0028	Thermal stability of UHPC based on alkali-activated slag and metakaolin
PH0029	Drying shrinkage and cracks in fresh cement-based materials for 3D printing: an X-Ray Tomograph investigation
PH0030	Effect of self-healing on surface morphology in cracked reactive powder concrete
PH0034	Sustainable Geopolymer Concrete for Thermoelectric Energy Harvesting
PH0041	Preparing energy conservation self-levelling mortar via fly ash cenospheres/paraffin using in floor radiant heating
PI0002	Various fundamental factors affecting the ion penetration in concrete
PI0003	Experimental study on ion penetration in concrete under the condition of competitive adsorption
PI0005	Anti-corrosion mechanism of LDHs-VB3- for rebar: insights from experiments and DFT simulations
PI0007	Chloride adsorption does not retard chloride ingress in concrete
PI0008	Roles of slag on corrosion electrochemical measurement in carbonated mortar
PI0012	Assessment of influence of cation type of sulphate ions on early age strength, and microstructure of geopolymer concrete
PI0013	Study on the ion corrosion resistance of Portland cement clinker with the high Fe/Al ratio of ferrite phase
PI0016	Improvement of mechanical strength and waterproof performance by hydrophobic silica fume for concrete service life
PI0017	Cold Water Extraction as a method to determine the free alkali content of cementitious binders
PI0020	Understanding the behavior of magnesium potassium phosphate cements under leaching
PI0021	Investigation on Water-vapor Permeability Compared to Nitrogen-gas under Isothermal Steady-state Flow within Cementitious Materials
PI0022	Durability of concrete with low temperature belite binder (LTBB)
PI0023	Effect of Al on the structure and swelling behavior of synthetic ASR gels
PI0025	Geochemical interactions between cementitious materials and water in the context of drinking water supply.
PI0026	Restraint effect of steel bar on cement-based materials at early age : A full cross section study
PI0029	Effect of Sulfate Attack on the Cement Mortars and Pastes with Different Replacement Levels of Limestone at a Low Temperature
PI0031	Alkali-silica reaction resistance of alkali-activated calcined clays using accelerated mortar bar test
PI0033	Development of a framework to provide cementing mixtures to mitigate ASR-induced deterioration

Paper ID	Paper Title
PI0034	Research on the leaching mechanism of C-S-H : experiments and molecular dynamics simulations study
PI0036	Changes in the cement paste due to pyrrhotite reaction during accelerated mortar bar testing
PI0037	Multiphysics discrete modeling for expansion and deterioration of concrete due to alkali-silica reaction
PI0038	Assessing the Behaviour of Eco-Efficient Concrete Proportioned through Particle Packing Models (PPMs) against Carbonation
PI0040	Preparation of (super)hydrophobic cement-based matrix with organosiloxanes and micromodification of the surface
PI0042	Insight on Chloride Ions Solidification Mechanism in Layered Double Hydroxides Designed with Different Cations both from First Principles Calculation and Experimental Work
PI0043	Effect of Mg-bearing water on the chemical and mechanical properties of a low C/S industrial cement paste
PI0044	Corrosion kinetics of steel in artificial carbonated pore solutions under the effect of stirring and bicarbonate ions
PI0045	Sulphate Attack of Concrete in Sewer System
PI0048	A new unidirectional testing approach for sulfate resistance on cement mortars
PI0049	A Comparative Assessment of Different Additives to Reduce Carbonation Degradations of Alkali-Activated Slag Using In-Situ Ftir Technique
PI0050	Appraisal of the microstructural properties of ASR affected concrete at different moisture conditions using the DRI
PI0052	Chemical change and structural evolution of calcium sodium aluminosilicate hydrate (C-N-A-S-H) gels subjected to water immersion
PI0053	Effects and mechanisms of water-absorption of SAP in colloidal silica sol on properties of the cement-based materials with low water cement ratio
PI0055	Effects of Mixed salt in Saline Soil on the Microstructural Evolution of Cement Paste
PI0059	Improvement of the resistance to calcium-leaching of concrete by optimizing gradations of binders and coarse aggregates
PI0060	Resistance against chloride and carbonation of binary and ternary binder with GGBS or/and limestone
PI0061	The fate of ferrous ions in corroding steel reinforced concretes
PI0062	Influence of carbonation on chloride resistance of low clinker cements
PI0063	Alternatives for pore solution extraction (PSE) method to determine available alkalis of cement pastes
PI0065	Effect of waterproofing chemicals on carbonation in Low clinker cement with pore structure analysis
PI0066	The square root law with an offset applied to chloride diffusion in slowly reacting blended cement pastes

Paper ID	Paper Title
PI0067	Phase Evolution and Property Development of Alkali-Silica Reaction Gel in Carbonation
PI0068	L-Ascorbic Acid used as green corrosion inhibitor in chloride-bearing steel reinforced cement mortars
PI0069	Carbonation of Na ₂ SO ₄ -activated slag cement: new insights into reaction mechanism, phase evolution and pore structure
PI0070	Carbonation of Concrete with SCMs: a data analysis by RILEM TC 281-CCC
PI0073	Towards the Development of Prescriptive-Based Specifications for Non-Traditional SCMs to Prevent Alkali-Silica Reaction
PI0076	Chloride transport mechanism for Metakaolin-Quartz-Limestone blended cementitious materials
PI0077	Influence of elevated environmental temperatures on passivation and corrosion risk of steel reinforcement
PI0078	Cementitious materials for oil-well abandonment and numerical simulations of cement durability at oil well conditions
PI0079	Chloride-related electrochemical behavior of steel rebar in seawater sea sand concrete with low water-to-binder ratio
PI0080	Controlling Alkali-Silica Reaction (ASR) in mortars and concretes using calcined illitic clay
PI0081	Alkali-silica reaction in calcium aluminate cement mortars
PI0082	Development of Seawater Sea-sand Engineered Geopolymer Composites (SS-EGC)
PI0084	AAM – oil composite: a new highly durable material with a negative carbon footprint
PI0086	Coefficient of thermal expansion of alkali-activated slag concrete
PI0087	Investigation of the Carbonation Behavior of Natural Hydraulic Lime Paste with Addition of GGBFS
PI0088	Durability of Marine Exposed Concrete - Data from Field Stations
PI0090	Study on the Deterioration Mechanism of Cementitious Waterproofing Membrane (Part I: Macroscopic Performance)
PI0091	Impact of an evolving microstructure on the square-root law for chloride ingress
PI0092	Formation Factor as a Non-Destructive Measure of Chloride Diffusion Coefficient
PJ0002	Physical and mechanical characterization of Alkali-Activated slag cement in presence of ion-exchange resins
PJ0005	Evaluation of environmental technologies for cement production considering multiple environmental categories
PJ0010	Ultra-green concrete: a technological breakthrough to save 800 Mt of CO ₂ per year

Paper ID	Paper Title
PJ0012	Cement-Based Radiative Coolers for Photovoltaics: Towards a Practical Design
PJ0013	Statistical modelling and optimization of strength in hybrid binders based on volcanic pumice, environmental and cost analysis.
PJ0014	CDW waste as retardants of ions harmful to cement
PJ0016	Production of a hydraulic material from post treated steelmaking slags
PJ0020	Influence of sisal fiber on mechanical, shrinkage and high temperature performance of UHPC
PJ0022	Preparation and characterization of cementitious materials containing phase change microcapsules
PJ0023	Acid activation of phosphate by-products in geopolymerization technology
PJ0024	Influence of Waste Glass Powder and Silica Flour on Compressive Strength and Permeability of Cement Pastes at HTHP
PJ0027	Sulfate Resistance of Mortar Containing Low-Grade Calcined Clay
PJ0028	Effects of pre-hydration time on the mechanical properties of carbonated steel slag-cement products
PJ0030	Effect of carbon dioxide on cement paste during mixing
PJ0031	Carbonation and hydration kinetics of CO ₂ injected ready-mix concrete
PJ0034	Pretreatments processes of alkaline recycled concrete aggregates to maximize CO ₂ capture in accelerated carbonation processes
PJ0035	Valorization of Calcium Sulfate Residues by Adding Accelerating Admixture in Portland cement
PJ0038	Effect of calcination temperature on paper mill lime sludge as an activator for GGBFS based cementless UHPC
PJ0039	Utilizing paper mill lime mud as fine aggregate for sustainable high-strength mortar
PJ0040	Process compatible desulfurization of NSP cement production: A novel strategy for efficient capture of trace SO ₂ and the industrial trial
PJ0041	Effect of Manganese Sulfate Replacing Gypsum on Properties and Reducing Cr(VI) of Cement Paste
PJ0043	Effects of post-fire water curing on strength recovery of thermally damaged concrete from 800 °C
PJ0044	Potential Use of Recycled Fine Aggregate in Cement Composite
PJ0046	Investigation on the combined mechanical-carbonated activation of recycled concrete powder
PJ0048	Study on MSWI fly ash solidifiers based on product composition design
PJ0049	Construction and demolition wastes as supplementary cementing materials in eco-friendly concrete
PJ0051	Enhanced adhesion between polymer coatings and cement mortar with early-age CO ₂ treatment
PJ0052	Effect of copper tailing powder on the hydration and mechanical properties of concrete under low atmospheric pressures

Paper ID	Paper Title
PJ0053	Investigating the effect of superfine recycled rubber powders on the mechanical properties and impact resistance of rubberized mortar
PJ0054	Strength performance of recycled aggregate concretes with different qualities of recycled aggregates
PJ0055	Influence of sulfuric acid on the early hydration kinetics and phase assemblage in a stabilization/solidification context
PJ0056	Mineralogical Characterization of Waste to Energy (WTE) Ashes - Insights from Raman Imaging
PJ0057	Recycling of phosphate waste rocks to produce alkali-activated mortars
PJ0059	Effect of strontium salts on the kinetics and mechanisms of geopolymer cement formation
PJ0061	Study on the Deterioration Mechanism of Cementitious Waterproofing Membrane (Part II: Microstructural Evolution)
PJ0062	Developing Pickering emulsion routes towards oil immobilisation in geopolymers
PJ0065	Application of Recycled Cementitious Material from Concrete Waste for UK Nuclear Waste Encapsulation
PJ0067	Investigation on the effect of recycled powders from demolished concrete on the rheological properties of cement paste
PJ0068	Evaluating the potential of Steel slags as alternative raw materials for Portland cement clinker production
PJ0070	Influence of Hardened Cement Paste (HCP) Particle Size on Their Reuse in Fresh Cement Paste
PJ0074	Development of a CO ₂ mineralization technology for concrete wash water upcycling
PJ0076	Investigation of Properties of Recycled Fine Aggregate Carbonated by Different Methods in Air or Water
PJ0077	Effect of sewage sludge ash on volume deformation of cement-based materials
PJ0078	Influence of Rice Husk on the Thermal Activation and Pozzolanic Activity of Tropical Soils
PJ0079	Develop new concepts of Two Stage Concretes (TSC) achieving carbon neutral society
PJ0081	Use of concrete slurry waste as an accelerator - Effect on early-age strength development and hydration of steam-cured specimen
PJ0082	A Study on Mortar Properties Focusing on Water Absorption Ratio of Carbonated Recycled Fine Aggregate
PJ0084	Aqueous Carbonation of Recycled Concrete Fines: Towards Higher Efficiency
PJ0085	Study on the Use of Recycled Aggregates for the Production of Cementless Pervious Concrete
PJ0089	Towards Increased Use of Recycled Sands and Aggregates in Concrete



Paper ID	Paper Title
PJ0090	Influence of low carbon cement and recycled aggregates on mortar fresh state and early hydration
PJ0091	Rehydration of ettringite: microstructure and mechanical properties
PJ0092	Physical Properties of Biochar Enhance the Rheological Behavior of Cement-Based Materials
PJ0093	The reactivity of hydrothermally activated basic oxygen furnace slag
PJ0094	Geopolymer Concrete for High-Temperature Thermal Energy Storage: A Sustainable and Circular Approach
PJ0097	Research On Multi-Solid Waste Co-Excitation of Lead Smelting Slag to Prepare Green Filling Materials for Mines and Its Performance
PJ0098	Modification and mechanism of steel slag on geopolymer UHPC
PJ0099	The Cement Sector and Life Cycle Assessment: Insights from a Systematic Literature Review
PJ0103	Using kaolin mining waste to produce sustainable building materials
PJ0104	Recommendations of the French National project FastCarb about accelerated carbonation of recycled concrete
PJ0105	Effects of phosphate salts on the interfacial bonding between magnesium phosphate cement and steel fiber
PK0001	Study for New Japanese Industrial Standards; “Volcanic Glass Powder for Use in Concrete”
PK0004	Effect of water content on fluorescence intensities of cement-based materials



Type 3: only poster presentation outside the room (no oral presentation in the room)

Paper ID	Paper Title
PB0001	Prediction of Total Bond Order Density of Cement Crystals using Fermionic Hubbard Model and Bloch and Fermi Surface
PC0070	Accelerating mechanism of calcium additives on alkali activated cementitious material
PD0002	The Effects of Supplementary Cementitious Materials on the hydration kinetics of Dyckerhoff G-Oil Cement
PD0017	Effects of Rice Husk Ash and Metakaolin on the Mechanical Properties, Volume Stability and Pore Structure of Mortar
PD0018	Industrial Deployment of Calcined Clays Cements
PD0021	Simulation of sulfate attack on carbonated Portland cement-blast furnace slag binary cement
PD0023	Mineralogical analysis of BOF slag with different grinding efficiency
PD0025	Improving the interfacial transition zone of high-volume fly ash concrete using response surface methodology
PD0049	Use of machine learning for predicting phase assemblages of supplementary cementitious materials-blended cements
PD0052	Restraining strength retrogression of silica-cement at high temperature above 200 °C using flint clay and graphite
PD0063	A Particle Packing Approach for Eco-efficient Ultra High-Performance Concrete (E-UHPC)
PD0068	Effect of chloride salts on cement hydration: influence of the cation - part II
PD0079	Impact of curing time on carbonation of low-clinker binders
PE0036	Comparison of superabsorbent polymer characterization by filtration test in water and cementitious filtrate
PE0052	Atomic Scale Insight of Hydration Temperature Rise Inhibitors (TRI) Affecting Calcium activity via AIMD
PE0057	Multi-scale model for characterizing thermal conductivity of cement-based materials with nano inclusions
PF0040	Improved tensile performance of strain-hardening geopolymer composites using treated CBA and polyethylene fiber
PF0095	Effect of Low Temperature Calcination on Pozzolanic Activity of Volcanic Power
PF0099	Comparative Study of Mechanical Properties of Limestone Calcined Clay Cement, Ordinary Portland Cement, and Pozzolana Portland Cement
PF0100	Synergistic effect of carbonates and metakaolin on the hydration and strength properties of Portland cement
PF0133	Case Studies on the Large-Scale use of Low-Carbon Belitic Calcium Sulfoaluminate (BCSA) concrete.
PF0139	High-efficient Solidification and Stabilization by Low Carbon Supersulfated Cement



Paper ID	Paper Title
PG0002	Effect of alkanolamines in kaolinitic calcined clays pozzolanic reactivity
PG0008	The challenges of combining alkali activation and workability in low carbon binders: a molecular approach
PG0011	Influence of raw and mechanically activated shale on rheological properties of cement based binder
PG0025	Changes in Rheology and Tensile Properties of UHPC with Silica Fume Content
PG0037	Rheology of Cement Paste with Mineral Additions
PG0039	Understanding the Effect of Slag Particle Size, Shape, and Morphology on the Flow Characteristics of Portland Cement - Blast Furnace Slag Blends Formulated with a Polycarboxylate Ether Superplasticiser
PG0050	Sacrificial agents for clayey aggregates. An understanding of mortar and concrete scale
PG0051	Effect of the use of different dispersing molecules on the rheological properties and kinetic hydration of Portland cement pastes
PG0053	Pore structure of polymer-modified dry mix tile adhesive mortars
PG0054	Extending Slump Retention in LC3 with Chemical Admixture Formulations
PG0057	Aluminum sulfate-based accelerators: rheological implications for 3D-printed concretes
PG0065	Effects of different types of shrinkage reducing agents on shrinkage properties of mortars incorporating slag or silica fume
PG0067	On the impact of sulphate source on admixtures in limestone calcined clay cements
PH0007	Review of the use of water magnetization in sodium silicate concrete sealer
PH0019	New trend line of compressive strength and unit volume weight of cement composites: Lightweight and high-strength at the same time
PH0023	Strength Development Prediction and Mixture Optimization of Concrete Used in the Three Gorges Dam
PH0025	Design of Ultra-High Performance Concrete (UHPC) using calcined clay as supplementary cementitious materials
PH0031	Basic study on estimating porosity of pervious concrete using AI
PH0033	Preparation and research of FA-GGBFS based lightweight high strength foamed geopolymer thermal insulation material
PH0037	Sprayable Glass Bubble Insulation for Sustainable and Energy Efficient Building Insulation
PI0001	Carbonation and chloride ingress of ultra-high performance concrete (UHPC) after long-term exposure to different conditions
PI0011	Structural incorporation pathways of FeIII into zeolite frameworks in cement-relevant environments
PI0027	Influence of negative temperature hardening on hydration and pore structure evolution of Portland cement paste



Paper ID	Paper Title
PI0028	Sodium β -glycerophosphate influence on the carbon steel inhibited behavior in different cations concrete simulated pore solutions
PI0072	Resistance of portland-dolomite cement to thaumasite sulfate attack
PI0083	Identification of the mass transfer of hydraulic binder panels submitted to a standard fire. Effect of chemical conversion kinetics
PJ0006	Characteristics of Cement Mortar containing Pozzolans along the Sichuan-Tibet Region
PJ0017	Increasing circularity and material efficiency using ore sand in concrete - A Brazilian case study
PJ0080	Effect of Mix Proportion on CO ₂ Adsorption in Cement Pastes with Different Cement Types
PJ0102	Mechanism of solidification at early age of poured earth by addition of hemihydrate and lime
PK0002	Cement types and seawater exposure in Europe - implications for infrastructure and its integration into marine habitats
PK0005	A micromechanical modelling approach to study the effect of shape of hydrates on creep properties of cement pastes