

[Full text access](#)

Editorial Board

Article 107125

 [Download PDF](#)

RESEARCH ARTICLES

Research article ☐ Abstract only

Effect of aluminum on the structure of synthetic alkali-silica gels

Miriam E. Krüger, Anne Heisig, Harald Hilbig, Henrik Eickhoff, ... Alisa Machner

Article 107088

Article preview 

Research article ☐ Abstract only

Direct observation of C₃S particle dissolution using fast nano X-ray computed tomography

Xiaodan Li, Qinang Hu, Bret Robertson, M. Tyler Ley, ... Ghazal Sokhansefat

Article 107097

Article preview 

Research article ☐ Abstract only

Controlling ettringite precipitation and rheological behavior in ordinary Portland cement paste by hydration control agent, temperature and mixing

Cordula Jakob, Daniel Jansen, Joachim Dengler, Jürgen Neubauer

Article 107095

Article preview 

Research article ☐ [Open access](#)

Enhancing the thermal stability of alkali-activated Fe-rich fayalite slag-based mortars by incorporating ladle and blast furnace slags: Physical, mechanical and structural changes

Adeolu Adediran, Juho Yliniemi, Samira Moukannaa, D.D. Ramteke, ... Mirja Illikainen

Article 107098

 [Download PDF](#) Article preview 

Research article ☐ Abstract only

Thermal energy storage in concrete: Review, testing, and simulation of thermal properties at relevant ranges of elevated temperature

Shuoyu Wang, Ahmed Abdulridha, Julio Bravo, Clay Naito, ... Alparslan Oztekin

Article 107096

Article preview 

Research article ☐ Abstract only

A numerical study on chloride transport in alkali-activated fly ash/slag concretes

Qing-feng Liu, Yuxin Cai, Hui Peng, Zhaozheng Meng, ... Arnaud Castel

Article 107094

Article preview 

Research article ☐ Abstract only

Pore crystallization and expansion of cement pastes in sulfate solutions with and without chlorides

Bo Ran, Othman Omikrine-Metalssi, Teddy Fen-Chong, Patrick Dangla, Kefei Li

Article 107099

Article preview 

Research article ☐ Abstract only

Investigation of microscopic creep and shrinkage deformations of cement paste assisted by digital image correlation technique

Justin Kinda, Alexandra Bourdot, Laurent Charpin, Remi Legroux, ... Farid Benboudjema

Article 107101

Article preview 

Research article ☐ *Open access*

The changes in the reaction kinetics and phase assemblage of sodium silicate-activated CaO-MgO-Al₂O₃-SiO₂ glasses induced by the Al replacement by Mg

Abdelrahman Hamdan, Ailar Hajimohammadi, Bosiljka Njegic, Taehwan Kim

Article 107103

 [Download PDF](#) Article preview 

Research article ☐ Abstract only

Effect of NaOH content on the fluidizing effect of PCEs with different structures in NaOH-activated slag

Tong Su, Qiang Wang, Jiameng Lu

Article 107112

Article preview 

Research article *Open access*

The time-dependent grout buoyancy behavior based on cement hydration mechanism

Yanbin Fu, Chao Mei, Xiangsheng Chen, Weiwen Li, ... Shun Wang

Article 107100

 [Download PDF](#) Article preview 

Research article ☐ Abstract only

Low-field ^1H NMR study on geopolymers: The effect of paramagnetic Fe(III)

Ziyou Yu, Rodrigo de Oliveira-Silva, Yiannis Pontikes, Dimitrios Sakellariou

Article 107116

Article preview 

Research article *Open access*

Alkali-activated fly ash cured with pulsed microwave and thermal oven: A comparison of reaction products, microstructure and compressive strength

Shi Shi, Hui Li, Qizhi Zhou, Hongzhou Zhang, ... Yun Bai

Article 107104

 [Download PDF](#) Article preview 

Research article ☐ Abstract only

Discrete-element modeling of shear-induced particle migration during concrete pipe flow: Effect of size distribution and concentration of aggregate on formation of lubrication layer

Tooran Tavangar, Masoud Hosseinpour, Jeffrey S. Marshall, Ammar Yahia, Kamal H. Khayat

Article 107113

Article preview 

Research article ☐ Abstract only

Quantified analysis of 2D dispersion of carbon nanotubes in hardened cement composite using confocal Raman microspectroscopy

Jiseul Park, Myungjun Jung, Yang-woo Lee, Hee-Young Hwang, ... Juhyuk Moon

Article 107102

Article preview 

DISCUSSION

Discussion ☐ No access

Corrigendum to “Solubility and speciation of iron in cementitious systems”

Fabio E. Furcas, Barbara Lothenbach, O. Burkan Isgor, Shishir Mundra, ... Ueli M. Angst
Article 107091

Discussion ☐ Abstract only

Comment on the paper “Numerical flow simulation of fresh concrete with viscous granular material model and smoothed particle hydrodynamics, Guodong Cao, Zhuguo Li, Cement and Concrete Research 100(2017) 263-274”

Asterios Pantokratoras
Article 107114

Article preview 

Discussion ☐ Abstract only

A response to the discussion paper on “Numerical flow simulation of fresh concrete with viscous granular material model and smoothed particle hydrodynamics”

Zhuguo Li
Article 107115

Article preview