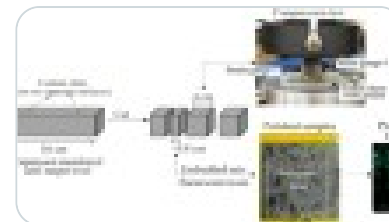


Quantitative evaluation of crack size effect on concrete deterioration induced by alkali-silica reaction: an experimental and numerical study

Xi JiHyo Eun JooYuya Takahashi

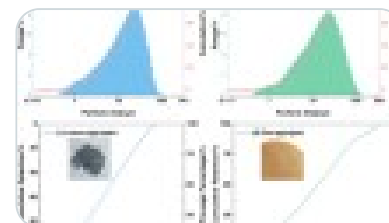
Original Article | Open access | 29 March 2025 | Article: 100



Research on the shear multiaxial performance and meso-mechanical mechanism of concrete

Lihong WangXinjian SunHuihui He

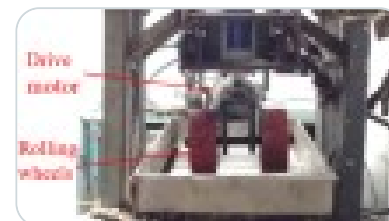
Original Article | 26 March 2025 | Article: 99



Investigation on performance of basalt fiber-reinforced concrete under fatigue load

Zhennan LiFeng YuXiushan Wang

Original Article | 25 March 2025 | Article: 98



Fibre-based composite materials for the seismic strengthening of masonry ring beams: cyclic tests on full-scale samples

Ingrid BoemNatalino GattescoMatija Gams

Original Article | Open access | 25 March 2025 | Article: 97



Evaluation of the degradation of gypsum subjected to natural aging

Sheila Daiane de Souza RodriguesJosé Getúlio Gomes de SousaNelson Cárdenas Olivier

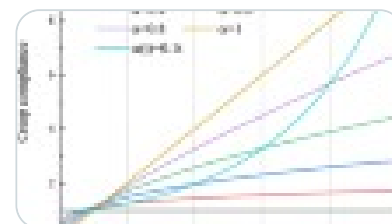
Original Article | 25 March 2025 | Article: 96



Study on variable order fractional creep model and creep damage of asphalt mixtures

Xu GuoMinmin XiaoJinchao Sha

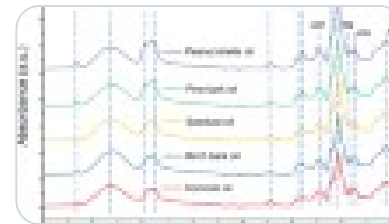
Original Article | 25 March 2025 | Article: 95



Utilization of biomass waste to produce phenol-rich bio-oil for enhancing the long-term aging resistance of rejuvenated bitumen

Shinan LiuHouzhi WangJun Yang

Original Article | 21 March 2025 | Article: 94



Service life model for alternative rendering mortar developed from granite cutting waste

Mag Raj GehlotSandeep Shrivastava

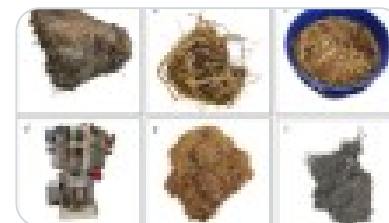
Original Article | 15 March 2025 | Article: 93



Rice straw ash as supplementary cementitious materials for concrete: optimizing water soaking duration of rice straw to remove alkalis

Ali ZareiSomayeh NassiriJohn T. Harvey

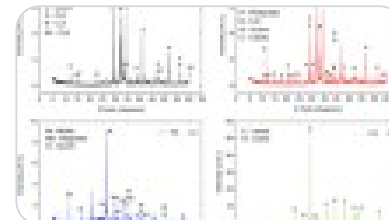
Original Article | Open access | 14 March 2025 | Article: 92



Systematic study on mix design optimization and on fresh properties of grouts containing crystalline admixtures

Suelen da Rocha Gomes Isabel Santacruz Mercedes Sánchez Moreno

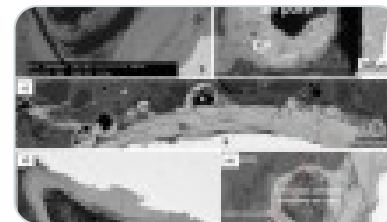
Original Article | Open access | 14 March 2025 | Article: 91



Precipitation of corrosion products in macroscopic voids at the steel–concrete interface: observations, mechanisms and research needs

Shishir MundraEmanuele RossiUeli M. Angst

Original Article | Open access | 13 March 2025 | Article: 90



Electrical resistivity prediction model for basalt fibre reinforced concrete: hybrid machine learning model and experimental validation

Zhen SunXin WangZhishen Wu

Original Article | 13 March 2025 | Article: 89



RILEM TC 275-HDB: results of interlaboratory testing for determining capillarity properties of hemp concrete

Vincent PicandetM'hamed Yassin Rajiv da GloriaSandrine Marceau

RILEM TC Report | 07 March 2025 | Article: 88



Part of 1 collection:

RILEM TC 275-HDB: Testing Methods for Determination of the Hygrothermal and Capillary of Vegetal Concrete

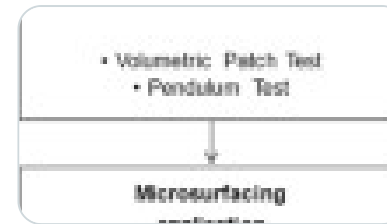
Recommendation of RILEM TC 280-CBE: test method to assess the bonding of microsurfacing mixtures using the shear bond testing (SBT) apparatus

C. Sangiorgi F. Balzano C. Raab

RILEM TC Recommendation | Open access | 07 March 2025 | Article: 87

Part of 1 collection:

RILEM TC 280-CBE: Multiphase Characterisation of Cold Bitumen Emulsion Materials



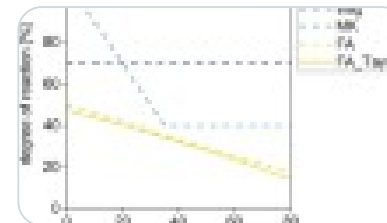
Report of RILEM TC 301-ASR: Modelling the impact of SCMs, alkali level and w/b ratio on alkali concentration in pore solution

Klaartje de Weerd Maxime Ranger Barbara Lothenbach

RILEM TC REPORT | Open access | 07 March 2025 | Article: 86

Part of 1 collection:

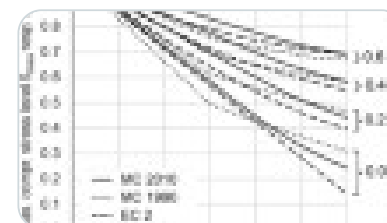
RILEM TC 301-ASR: Risk Assessment of Concrete Mixtures with ASR Aggregates



Fatigue resistance of concrete: influence of time-dependent scattering of compressive strength

Sören Voß Boso Schmidt Vincent Oettel

Original Article | Open access | 05 March 2025 | Article: 85



Mechanically tough and superior Joule heating graphene-papers used for deicing and snow-melting of asphalt pavement

Baoqiang Zhang Yantang Zhao Qiangqiang Zhang

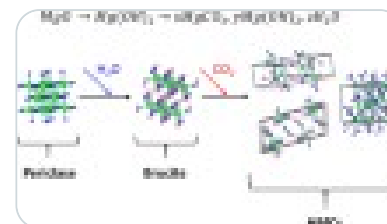
Original Article | 04 March 2025 | Article: 84



Biochar as a bio-renewable addition to enhance carbonation of reactive MgO cement based composites

Tolga Tamer Hossein Mazaheri Çağla Meral Akgül

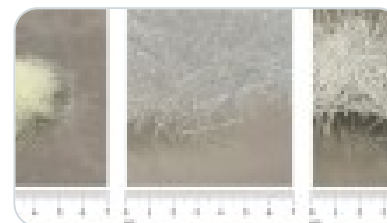
Original Article | Open access | 04 March 2025 | Article: 83



Experimental characterization of VHPC reinforced with short synthetic fibers

V. Romanazzi F. Micelli M. A. Aiello

Original Article | Open access | 03 March 2025 | Article: 82



Steel fiber distribution and orientation in full-scale walls cast from FRC with various consistencies and casting procedures: evaluation by the inductive method

Mohammad Abedi Guillem Rojas Guomin Ji

Original Article | Open access | 03 March 2025 | Article: 81



Discover content

Journals A-Z

Books A-Z

Publish with us