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Advertisement, Call for papers

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Call for papers on special issue "Performance-based Service Life Design of reinforced recycled aggregate concrete"

Guest Editor(s)

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Aim & Scope: Sustainability requires a judicious use of natural resources. Reducing the consumption of natural aggregates and ensuring adequate durability of reinforced concrete infrastructures are major steps towards sustainability. Performance-based Service Life Design and recycled aggregate concrete are intense research fields. Considering the research maturity of each subject on its own, it is time to couple them and deliver knowledge on performance-based Service Life Design for reinforced concrete structures incorporating recycled aggregates. This Special Issue of Materials International constitutes a way to disseminate results and findings from original studies, experimental programs, empirical, analytical and numerical modelling of initiation period (carbonation- and chloride ion-related), propagation period or both (service life). Probabilistic, semi-probabilistic and deterministic approaches are welcome.

Keywords: durability; corrosion; reinforced recycled aggregate concrete; Service Life Design; carbonation; chlorides; performance indicators

Subtopic

1 Initiation period – carbonation-induced corrosion
2 Initiation period – chloride-induced corrosion
3 Propagation period – carbonation-induced corrosion
4 Propagation period – chloride-induced corrosion
5 Service life models

Deadline for manuscript submissions: 31 May 2020

To submit your manuscript click here. To read author guidelines click here.