

Special Issue

Corrosion Behaviour in Concrete

Message from the Guest Editor

This Special Issue will address the problem of the corrosion of steel reinforcement within concrete. The durability of built infrastructure comprised of reinforced concrete (RC) is of utmost importance, as RC is today's most common construction material with 25 gigatonnes/year consumed globally. This corrosion can lead to ageing infrastructure that can reduce the service life to lower than expected. Key research topics that relate to the Special Issue include cause and rate of steel-reinforced concrete corrosion and methods of investigation, quality and mechanisms of deterioration, type of concrete and reinforcement, environmental exposure, predictive models of ageing behavior, health monitoring of reinforced concrete, and performance of remedial and preventative maintenance.

Guest Editor

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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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