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Research of Construction and Building Materials in Peter the Great St. Petersburg Polytechnic University in Crystals

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Message from the Guest Editor

Dear Colleagues,

The Special Issue aimed to publish researchers from Peter the Great St. Petersburg Polytechnic University. The research topics of this Special Issue are the properties of concrete and the technology of its production with specified characteristics. These studies were carried out under contracts with construction industry enterprises and through grant funding. Concrete with high thermal crack resistance for massive structures of thermal and nuclear power plants, waterproof concrete for underground structures using the White Bath technology, high-strength self-compacting concretes, concrete mixtures with a given rheology for a 3D printer, and others, have been investigated and designed. The influence of active mineral additives (microsilica, metakaolin, fly ash, and granulated blast-furnace slag), additives of surfactants on concrete mix, and concrete properties are shown. The test methods and equipment used are described.



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Special Issue



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Message from the Editor-in-Chief

Welcome to *Crystals*, the journal dedicated to the fascinating world of crystallographic research! Crystals are more than mere decorative elements; they hold the key to understanding the fundamental structure of matter. Our mission is to explore the crucial significance of this research across various fields. From medicine to technology, chemistry to geology, crystals play a vital role. Their structure provides insights into new advanced materials, innovative drugs, and groundbreaking technologies. Through *Crystals*, we delve into the microscopic world to discover solutions that will shape the future. Join us on a journey through the *Crystals*, where science merges with beauty and innovation.

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