Special Issue

Building Materials and Acoustics

Message from the Guest Editor

Building materials and acoustics proposes to provide acoustic solutions that enrich the listening experience of human subjects in the room. Outdoor and building noise have a major impact on our sleep. In a room, a peaceful environment is needed to get a good sleep without being distracted by sound from within the building and outside world. In a theatre/concert hall and cinema the audiences require to hear the stage performance at sufficient level and of the best quality without being distracted by external noise. Careful design of buildings with improved acoustic features is essential in managing the quality of the perceived sound in the room. Scope:
Room acoustics, including cinemas, theatres, schools, holy spaces etc.
Acoustics for schools (classroom acoustics).
Diffusers for closed spaces.
Sound-absorbing materials.
Metamaterials for buildings.
Building vibration and control.
Noise from household appliances, including heat pump noise.
Low-frequency noise from houses.
Sound insulation.
Speech intelligibility and speech privacy in buildings.
Auditorium design.
Room physical acoustics.
Smart acoustic windows.

Guest Editor

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closed (31 October 2023)

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Message from the Editor-in-Chief

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