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Special Issue Reprint

Research on Indoor Air Environment and Energy Conservation

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Indoor air environment and energy conservation have become increasingly important issues due to the rapid development of modern society. With more people spending time indoors, the quality of indoor air has had a direct impact on people's health and well-being. Furthermore, the increasing energy consumption of buildings to satisfy the indoor thermal environment has led to a significant increase in carbon emissions, exacerbating the issue of climate change.

This Reprint focuses on the topic of "Indoor Air Environment and Energy Efficiency," aiming to establish an academic platform that brings together researchers, engineers, and policymakers worldwide. It systematically explores cutting-edge theories, key technologies, and practical applications in (a) advances and reviews of indoor air environment/building energy conversion; (b) passive and positive methods for the energy-efficient provision of clean air; (3) identification and control of indoor pollution sources; (4) novel energy materials for building applications; (5) a renewable/integrated energy system for energy-saving construction; (6) applications of passive cooling/heating technologies in buildings; and (7) modeling and simulation for indoor environment/building energy systems, offering comprehensive solutions to address current challenges in ensuring indoor air quality while advancing building energy conservation.



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