Disinfection, Control, and Respiratory Protection against Microbial Aerosols

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Disinfection, control, and respiratory protections against microbial aerosols have gained significant attention in recent years due to increasing flu pandemics, nosocomial infections in hospitals, and potential bioterrorism threats. In addition to conventional techniques, such as ultraviolet germicidal irradiation, HEPA filtration, and photocatalytic oxidation, new approaches are being developed and explored, including applications of cold plasma and plasmacluster ions, microwave irradiation, ion emission, thermal treatment, applications of nanoparticles and nanotubes in filtration media, and application of natural products in filtration media. New designs of filtering facepiece respirators and other masks are being developed for healthcare workers and other persons who are at increased risks of influenza or other microbial aerosol-related respiratory diseases in their work places. This Special Issue will address recent findings from laboratory and field studies addressing all these research areas.

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