

||||| 小特集：微小重力下の熱工学 その2：燃焼研究 |||||
(解説)

日本および米国における微小重力燃焼研究の現状と展望

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Present and Future of Microgravity Combustion Research in Japan and USA

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Abstract

Present status and future prospect of microgravity combustion research in Japan and USA are introduced. Since combustion phenomenon is strongly affected by gravitational force, microgravity has been played important roles in all research areas of combustion, gaseous combustion, liquid combustion and solid combustion. In the next decade contribution to energy and environmental problem and material science through microgravity combustion research will be important as well as fundamental research for fire safety for long-term manned space missions.