

progress in micromechanical research pdf

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Journal of the American Chemical Society (ACS Publications)

RoboBee is a tiny robot capable of partially untethered flight, developed by a research robotics team at Harvard University. The culmination of twelve years of research, RoboBee solved two key technical challenges of micro-robotics. Engineers invented a process inspired by pop-up books that allowed them to build on a sub-millimeter scale precisely and efficiently.

RoboBee - Wikipedia

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Journal of the American Chemical Society (ACS Publications)

Functionalization and dispersion of graphene sheets are of crucial importance for their end applications. Chemical functionalization of graphene enables this material to be processed by solvent-assisted techniques, such as layer-by-layer assembly, spin-coating, and filtration.

Chemical functionalization of graphene and its

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Department of Electrical Engineering and Computer Science

A solid oxide fuel cell (or SOFC) is an electrochemical conversion device that produces electricity directly from oxidizing a fuel. Fuel cells are characterized by their electrolyte material; the SOFC has a solid oxide or ceramic electrolyte. Advantages of this class of fuel cells include high efficiency, long-term stability, fuel flexibility, low emissions, and relatively low cost.

Solid oxide fuel cell - Wikipedia

TWIP steels, which stands for twinning-induced plasticity steels, have received very high interest in recent years due to their excellent mechanical properties at room temperature combining high strength (ultimate tensile strength of up to 1 GPa) and ductility (elongation to fracture up to 100 %) based on a high work-hardening capacity.

TWIP, TRIP, AHSS, stainless steel, high Mn steel, manganese

Collaborative proposals with at least two applicants in the same research field, or with a main discipline supported by auxiliary disciplines, can be submitted as a project funding application. Collaborative projects typically involve groups that are complementary and create added value based on a common research approach.

Project funding - SNF

Part Three provides insights on robotics and automation with applications beyond the factory floor. We review Robotic Process Automation (RPA) capabilities, sometimes called smart automation or intelligent automation, advanced programmable technologies that perform a series of tasks that previously required human intervention.

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