DESCRIPTION

Powder Technology is an International Journal on the Science and Technology of Wet and Dry Particulate Systems. Powder Technology publishes papers on all aspects of the formation of particles and their characterisation and on the study of systems containing particulate solids. No limitation is imposed on the size of the particles, which may range from nanometre scale, as in pigments or aerosols, to that of mined or quarried materials. The following list of topics is not intended to be comprehensive, but rather to indicate typical subjects which fall within the scope of the journal's interests:

Formation and synthesis of particles by precipitation and other methods. Modification of particles by agglomeration, coating, comminution and attrition. Characterisation of the size, shape, surface area, pore structure and strength of particles and agglomerates (including the origins and effects of inter particle forces). Packing, failure, flow and permeability of assemblies of particles. Particle-particle interactions and suspension rheology. Handling and processing operations such as slurry flow, fluidization, pneumatic conveying. Interactions between particles and their environment, including delivery of particulate products to the body. Applications of particle technology in production of pharmaceuticals, chemicals, foods, pigments, structural, and functional materials and in environmental and energy related matters. For materials-oriented contributions we are looking for articles revealing the effect of particle/powder characteristics (size, morphology and composition, in that order) on material performance or functionality and, ideally, comparison to any industrial standard.

Submissions will usually be overseen according to the following breakdown of specialties:

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Fluidization, particulates and multiphase flows, particulates reaction engineering, modeling, measurements, and industrial processes and applications

A. Teleki (Uppsala University, Sweden)
Aerosols, nanoparticles, agglomeration, and functional material synthesis and applications

C.Y. Wu (University of Surrey, UK)
Particle characterization, particle mechanics, powder processing and handling, modeling and simulation

A.B. Yu (Monash University, Australia)
Granular dynamics and particle-fluid flow, particulate/granular systems and bulk solids handling, particle packing and structural analysis, comminution and attrition, material synthesis, process engineering and industrial applications

AUDIENCE

Chemical engineers, food technologists, physicists, powder metallurgists, materials scientists, pharmaceutical scientists

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Contact Details for Submission

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