

International Journal of

Computational Materials Science and Surface Engineering

Editor-in-Chief:
Prof. Qingyou Han

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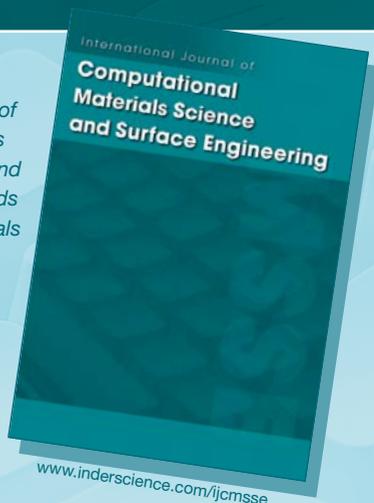
Scope of the Journal

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IJCMSSE provides a blend of theoretical and applied study of computational materials science and surface engineering. Its scope includes original contributions on materials science and engineering, surface engineering, and computational methods of modelling, simulation and prediction for designing materials and structures at all length scales. The journal aims to address solutions to current engineering problems in which computational materials science and surface engineering methods must be applied, and to publish state-of-the-art reviews of current problems that will stimulate research.

Topics covered include:

- Statistical/artificial intelligence methods, numerical techniques
- Expert systems, genetic algorithms, neural networks
- Process system design, engineering/materials/technological design
- Mould flow analysis, modelling behaviour of materials
- Materials/engineering databases
- Computer-aided materials selection/design/manufacturing
- Computer-integrated material processing
- Computer-aided learning/teaching
- Casting, powder metallurgy, welding, sintering, plastic deformation
- Heat, thermo-mechanical/chemical treatment
- Thin/thick coatings and other surface treatment methods
- Advanced manufacturing technology, machining, laser/electron beam treatment
- Nanomaterials synthesis, nano/micromanufacturing/technology
- Electronic packaging technology, quality assessment, green manufacturing
- Societal and educational implications



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