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Advanced Composites and Hybrid Materials

Editor-in-Chief: J.Z. Guo

The rapid advancement of materials science and engineering has pushed the integration of new discoveries from different disciplines into a central composites and hybrid materials hub, especially at the nanoscale. Research in advanced composites with novel materials and new structures as well as investigation of the structure-property-performance relations via both experiment and simulation is a rapidly growing area. New materials, advanced manufacturing platforms, and novel interface engineering technologies are the key driving forces that are bringing composites science into a new era. Novel nanotechnology including self-assembly, spinning, 3D printing, and other emerging techniques are driving exciting developments in the field.

Advanced Composites and Hybrid Materials provides a dedicated publishing platform for academic and industry researchers working on the full range of composite materials and fillers, offering the composites field a venue to publish their new and influential results and to exchange knowledge and insights. The journal covers the areas of nanotechnology, interfacial science and engineering, advanced manufacturing, catalysis, bioengineering, sensing and actuation, energy, and environmental applications. Special emphasis is placed on key areas such as atomic/molecular level engineering, self-assembly, biomimetic synthesis, stimuli-response mechanisms, sensors, structure-property relationships, multi-functionality, materials selection, health-monitoring, non-destructive evaluation, and applications in a variety of fields and industries. Modeling and simulation of composites for advancement of materials design in composition, structure, interface, and properties is also a special focus.

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