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DESCRIPTION

Modern engineered materials play a central role in enabling technological designs that underpin, advance and revolutionise engineering practice. *Materials & Design* seeks to publish reports of materials research that present applicable advances in the insight into structure and function, and provide useable and reproducible recipes for the synthesis, preparation, characterisation, modelling and exploitation of new metallic alloys, ceramics, polymers, coatings, composites and bio-materials systems.

Today's products and their constituent components and structures have to meet increasingly stringent requirements during operation. The economic and human costs of failure during service impose a great deal of responsibility on organisations and individuals who select and integrate materials in a final engineering design. A critical feature of successful product development is the judicious selection of the best materials based on informed awareness of the capabilities and opportunities afforded by all candidates, coupled with a design that takes full advantage of their properties. A further aim of *Materials & Design* is to promote a greater knowledge and understanding of the attributes and capabilities of all types of modern engineering materials in the context of **engineering design**.

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The emphasis is placed on developing both practice and theory relevant to the field of **materials engineering and science**, with appropriate links established to processing, characterisation and simulation. To reflect the multidisciplinary nature of design, submissions to *Materials & Design* should be understandable and offer information useful to professionals working in fields outside but related to the immediate subject of the article.

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