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Catalysts, advanced materials and structures. From the development of self-healing concrete to discovering the potential of gold to neutralise poisonous gases, Cardiff's research is enhancing and manipulating materials to achieve real impact. We work across a range of disciplines including aerospace, automotive, civil, manufacturing and medical engineering to ensure the materials being used have the strength, stability and functionality required.

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Advanced materials and Structures have an increasing role in engineering, in various industrial applications [1-3]. These structures operate in severe environments, withstand complex multi-axial loading conditions. Fracture of advanced materials is also a major problem that may occur inside the structures consisting of different materials and at the

COMPUTATIONAL ANALYSIS OF ADVANCED MATERIALS AND STRUCTURES

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The topics of Advanced Structured Materials include but are not limited to: classical fibre-reinforced composites (e.g. glass, carbon or Aramid reinforced plastics) metal matrix composites (MMCs) micro porous composites; micro channel materials; multilayered materials; cellular materials (e.g., metallic or polymer foams, sponges, hollow sphere structures)

Advanced Structured Materials

Novel concepts in advanced materials and structures. The group will conduct research in the directions of, Advanced structural concepts and their applicability in real structures (e.g. structural integrity of integral structure) Application of surface treatments for fatigue and corrosion behaviour improvement.

Advanced Materials and Structures | ISI

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Mechanics of Advanced Materials and Structures

On December 18, 2003, the first day of the second century of flight, the Federal Aviation Administration announced the initiation of a Center of Excellence in Advanced Materials also to be known as JAMS (the FAA Joint Advanced Materials and Structures Center of Excellence). The center is a joint award to two separate consortiums: the Center of Excellence for Advanced Materials in Transport Aircraft Structures (AMTAS) led by the University of Washington and the Center of Excellence for ...

Joint Advanced Materials & Structures

Special Issue: Advanced cement-based materials - Research and teaching (Guest Editor: Ole Mejlhede Jensen) April 2007, issue 3. Special Issue: Advances in concrete through science and engineering (Guest Editor: W. J. Weiss) March 2007, issue 2; January 2007, issue 1

Materials and Structures | Volumes and issues

Mechanics of Advanced Materials and Structures is a peer-reviewed scientific journal. The scope of Mechanics of Advanced Materials and Structures covers Civil and Structural Engineering (Q1), Mechanical Engineering (Q1), Materials Science (miscellaneous) (Q2), Mathematics (miscellaneous) (Q2), Mechanics of Materials (Q2).

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Department of Nanoengineering, University of California San Diego, La Jolla, CA, 92093 USA. School of Materials Science and Engineering, National Engineering Research Center for Advanced Polymer Processing Technology, School of Physics and Engineering, Zhengzhou University, Zhengzhou, Henan, 450001 P. R. China

Materials and Structures toward Soft Electronics - Wang ...

Advanced materials refers to newly developed material with better performance than traditional materials. Things like "power-generating and breathing" membrane structure, "self-cleaning" carbon fiber structure and "energy-saving" photovoltaic panel have been gradually introduced into architectural design. .

Architectural Material & Detail Structure: Advanced Materials

In this review, we aim to comprehensively summarize the state-of-the-art strategies for the realization of high-performance thermoelectric materials and devices by establishing the links between synthesis, structural characteristics, properties, underlying chemistry and physics, including structural design (point defects, dislocations, interfaces, inclusions, and pores), multidimensional design (quantum dots/wires, nanoparticles, nanowires, nano- or microbels, few-layered nanosheets, nano ...

Advanced Thermoelectric Design: From Materials and ...

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This CDE themed competition seeks proposals that will lead to the development of new tools and routes for the creation and management of joints between advanced materials and structures.