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### **Interfacial Engineering for Optimized Properties III ...**

A graphene defect engineering strategy was proposed in this work to tailor the interface and mechanical properties of graphene/Cu composites. Plasma treatment was used to create surface defects (5–10 nm nanopores) on the basal-plane of starting graphene material but without considerably damaging the graphene structure.

### **Graphene defect engineering for optimizing the interface ...**

M: Interfacial Engineering for Optimized Properties II adhesion of Cu thin films with and without a 10 nm Ti adhesion-promoting underlayer as a function of Cu film thickness (Figure 2).

### **Mater. Res. Soc. Symp. Proc. Vol. 586, Symp. M ...**

Interface engineered BaTiO<sub>3</sub>/SrTiO<sub>3</sub> heterostructures were epitaxially grown on (001) MgO substrates by pulsed laser deposition. Microstructural characterizations by X-ray diffraction and transmission electron microscopy indicate that the as-grown heterostructures are c-axis oriented with sharp interfaces.

### **Interface Engineered BaTiO<sub>3</sub>/SrTiO<sub>3</sub> Heterostructures with ...**

We hope that new insights will emerge from this conference, providing additional design criteria for novel materials fulfilling optimized interfacial properties. As such, the conference is open to all confirmed and young researchers from a broad diversity of domains, ranging from design and

synthesis of novel materials, to theoretical and ...

**Interface Properties in Organic and Hybrid Electronics ...**

The results show that optimized interfacial properties were achieved when the size of the modified graphene was less than 1  $\mu\text{m}$ , the content of RGO was 20 ppm, and the pH value of the sizing agent was 10.5. The interfacial shear strength of the composites reached 92.3 MPa, which was 29.6% higher than that of the composites with unmodified CFs.

**Improving the interfacial properties of carbon fiber-epoxy ...**

The interfacial properties of CFs composites are closely related to the wettability of fibers with the resin matrix . As shown in Fig. 5, it is clearly seen that the Untreated-CF has a high contact angles (79.76° for water and 59.54° for diiodomethane) due to graphitic inert and smooth fibers surface. For CF-L1 ~ L7, the contact angles ...

**Enhancing interfacial properties of carbon fibers ...**

The work also describes the properties, processing, and behavior of fluid interfacial systems and treats solid surfaces and interfaces. In addition to being of direct industrial relevance, this book will provide engineering instructors with an excellent starting point for planning curriculum development in this important area.

**Fundamentals of Interfacial Engineering | Surface ...**

interfacial engineering via amine-functionalization Yuan ... interfacial properties within the PLLAmatrix due to grafting of chains via aminolysis. It is also a more effective nucleating agent, with 15% mCNF-G1 leading to a crystallinity of 32.5%, compared ... These results demonstrate the potential of optimized amine-functionalized

**Improved mechanical properties of polylactide ...**

BibTeX @MISC{Taheri\_symposiumon, author = {Mitra L. Taheri and Anthony D. Rollett and Hasso Weil}, title = {Symposium on Interfacial Engineering for Optimized Properties III, 2004 MRS Spring Meeting In-Situ Investigation of Grain Boundary Mobility and Character in Aluminum Alloys in the Presence of a Stored Energy Driving Force}, year = {}}

**CiteSeerX — Symposium on Interfacial Engineering for ...**

Morphology control is critical to achieve high efficiency  $\text{CH}_3\text{NH}_3\text{PbI}_3$  perovskite solar cells (PSC). The surface properties of the substrates on which crystalline perovskite thin films form are expected to affect greatly the crystallization and, thus, the resulting morphology. However, this topic is seldom examined in PSC. Here we developed a facile but efficient method of modifying the ZnO ...

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