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Electromechanical Properties in Composites Based on Ferroelectrics. https://doi.org/10.1007/978-1-84882-000-5 Electromechanical Properties in Composites Based on Ferroelectrics. / Topolov, Vitaly Yu ; Bowen, Chris.

Electromechanical Properties in Composites Based on ...
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Effective Electromechanical Properties in Piezo-composites, Electromechanical Properties in Composite Based on Ferroelectrics, 10.1007/978-1-84882-000-5, (11-41), (2009). Crossref Non-monotonic Volume-fraction Dependences of Effective Properties in α–β Ceramic / Polymer Piezo-composites, Electromechanical Properties in Composite Based on ...

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Topolov / Bowen, Electromechanical Properties in Composites Based on Ferroelectrics, 1st Edition. Softcover version of original

hardcover edition 2009, 2010, Buch, 978-1-84996-813-3. Bücher schnell und portofrei

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Using several fillers simultaneously (mostly mixtures) is the trend of recent years since it can significantly improve the properties of produced composite materials (CMs), such as electrical and thermal conductivity, elastic properties—strength, Young's modulus, glass transition temperature, and mechanical losses as compared with CM with a single filler.

The Electrical Properties of Hybrid Composites Based on ...

electromechanical properties of these composites are determined in a volume fraction range 0 <m 0 . 60 by means of the effective field method, the finite element method and using the dilute approach.

Features of electromechanical properties of 1--3 ...

(2020). Frequency dependence of electromechanical properties of digital materials based on mixed composites of the “piezoelectric ceramic-polymer” system. Ferroelectrics: Vol. 561, No. 1, pp. 23-26.

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Key mechanical structures and electronic components of modern airplanes and spacecrafts are made up of polymer composites 1, due to their high strength-to-weight ratio and durability 2. Some...

Recovery of electro-mechanical properties inside self ...

In this study, two interfacial microstructures were constructed by using different functionalized polyhedral oligomeric

silsesquioxane (POSS) and electrical properties of polypropylene (PP) based composites were evaluated. It is found that the electrical properties are closely related to interfacial compatibility and trap.

Tailoring interfacial compatibility and electrical ...

The composite BC/GE/PANI has an electrical conductivity of 1.7 ± 0.1 S/cm, which is higher than most of PANI-based composites. It is believed that the BC/GE/PANI nanocomposite possesses great potential for applications in electromagnetic shielding and flexible electrodes.

Graphene-based nano composites and their applications. A ...

when one phase possesses both electrical and mag-netic properties as well as ME effect, and multiphase (composite) which is consisted of phases with ferro-electric/ferroelastic

properties and phases with ferro-magnetism. Coupling of these properties in the com-posite material can induce magnetoelectric effect in

Study of barium titanate nickel-zinc ferrite based ...

The mechanical and thermal conductivity properties of two composite elastomers were studied. Styrene–butadiene rubber (SBR) filled with functionalized graphene oxide (GO) and silica nanofibers, and styrene–butadiene–styrene (SBS) block copolymers filled with graphene oxide. For the SBR composites, GO fillers with two different surface functionalities were synthesized (cysteamine and ...