

MENSAGEM TELEFAX

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"Advanced ceramics: from electrical insulators to superconductors."

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ABSTRACT

R & D in advanced ceramics cover a wide range of applications: electrical, magnetic, structural, thermal, chemical and nuclear. All these ceramics have in common starting materials with high degree of purity and special powder processing and conformation procedures. Advanced ceramics with electrical functions take advantages of bulk and grain boundary processes. Moreover, the majority of them do not compete with metallic or composite materials. Their applications are unique and one can find high electrical insulators for I.C. substrates or spark plugs, semiconductors for surge arrestors, ionic conductors for gas sensors, and superconductors for SQUIDS. An overview of all these advanced ceramics will be presented.

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