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Microwave Dielectric Property - an overview ...
Microwave interactions with dielectric materials Microwave heating is a result of interactions among dielectric materials and the electromagnetic waves. Dielectric properties govern the efficiency and quality of the heating process (Curet, Rouaud, & Boillereaux, 2014).

Microwave heating and the dielectric properties of foods ...
The dielectric properties of foods are important for the interpretation of the influence of the

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electromagnetic wave nature of the microwave on the temperature distribution in the food material. Available data and prediction models for dielectric properties is reviewed and the major dielectric measuring methods commented on.

Dielectric Properties and Microwave Processing | SpringerLink

The microwave dielectric properties such as dielectric constant, Q value and temperature coefficient of resonant frequency (TCF) are found to correlate with the R ions. When R=Ce, the dielectric...

Microwave dielectric properties of $(\text{Bi}_{1-x}\text{R}_x)\text{NbO}_4$...

The dielectric properties of the powders synthesized at different temperature are investigated in the frequency range from 8.2 to 12.4 GHz (X-band), which suggests the remnant TiC has obvious influence on complex permittivity and the pure Ti_3SiC_2 powders have the highest dielectric loss. The dielectric and microwave absorption properties of ...

Dielectric and microwave absorption properties of Ti_3SiC_2 ...

Crucial parameters in microwave heating are the dielectric properties of matter; they express the energy coupling of a material with electromagnetic microwave field and, thus, the heating feasibility (Metaxas & Meredith, 1983; Schubert & Regier 1995; Tang et al., 2002). On the basis of dielectric properties, microwave devices (applicators) can be adopted in heating operations and optimized working protocols can be used.

Relevance of Dielectric Properties in Microwave Assisted ...

The dielectric and microwave absorption properties of the Ti_3SiC_2 /cordierite ceramics have been investigated in our previous work . The results demonstrate the composite ceramic is an excellent absorber in X-band at room temperature. However, whether the microwave absorption material can be applied at high temperature has not been addressed ...

Dielectric and microwave absorption properties of Ti_3SiC_2 ...

Relevance of Dielectric Properties in Microwave Assisted Processes 93 factor accounts for the loss energy dissipative mechanisms in the material². Therefore, a material with a high loss factor is easily heated by microwave. On the other hand, if a material has a very low " " is transparent to microwave effect. Power dissipation (Q_g) is

Relevance of Dielectric Properties in Microwave Assisted ...

Cao MS, Song WL, Hou ZL, Wen B, Yuan J (2010) The effects of temperature and frequency on the dielectric properties, electromagnetic interference shielding and microwave-absorption of short carbon fiber/silica composites.

High-temperature dielectric and microwave absorption ...

The high temperature microwave absorption properties of the composite are significantly enhanced due to choosing Al_2O_3 and SiO_2 as the hybrid matrices. Particularly, the minimum reflection loss (RL) value of the $\text{SiC}_f/\text{Al}_2\text{O}_3\text{-SiO}_2$ composite reaches -37 dB in the temperature of 200 °C at 8.6 GHz, and the effective absorption bandwidth (RL > -5 dB) is 4.2 GHz (8.2–12.4 GHz ...

Enhanced high temperature dielectric and microwave ...

The microwave dielectric properties of these samples were measured through a Hakki-Coleman dielectric resonator cavity method. The changes in the resonant frequencies were obtained with a temperature of 25 and 85 °C. The f_r (ppm/ °C) values were

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calculated based on the following formula: $(1) \quad f = f(85^\circ \text{C}) - f(25^\circ \text{C}) 60 \times f(25^\circ \text{C}) \times 10^{-6}$.

Improved microwave dielectric properties of CaMgSi₂O₆ ...

The tunability of the dielectric properties of Fe₃O₄ NRs depends on the long axis rather than on the specific surface area, internal stress, and grain size. Elliptical Fe₃O₄ NRs exhibit the excellent microwave absorbing properties due to the unique ring-like configuration, which significantly enhances permittivity, multiple scattering, oscillation resonance absorption, microantenna radiation, and interference.

Tunable dielectric properties and excellent microwave ...

Dielectric properties are the main parameters that are used to provide data on how materials are affected and interact with electromagnetic energy such as in a microwave. This research was based on measuring the dielectric constant and dielectric loss factors of test solutions. They were measured at different frequencies to see the response.

Measuring and Modelling Dielectric Properties of Food ...

C.Gabriel: Compilation of the dielectric properties of body tissues at RF and microwave frequencies, Report N.AL/OE-TR- 1996-0037, Occupational and environmental health directorate, Radiofrequency Radiation Division, Brooks Air Force Base, Texas (USA), June 1996.

Dielectric Properties of Body Tissues: Home page

1 C. Gabriel. Compilation of the Dielectric Properties of Body Tissues at RF and Microwave Frequencies, Report N.AL/OE-TR- 1996-0037, Occupational and environmental health directorate, Radiofrequency Radiation Division, Brooks Air Force Base, Texas (USA), 1996.

Dielectric Properties » IT'IS Foundation

The three key properties of ceramic dielectrics that determine their functionality at microwave and millimetrewave frequencies include relative permittivity (ϵ_r), unloaded quality factor Q_u - the inverse of the dielectric loss ($\tan \delta$) and temperature coefficient of resonant frequency (Δf).

Dielectric properties of ceramics for microwave and ...

When using ZrO₂ susceptor, the microstructure analysis of the sintered alumina samples reveals a volumetric heating, which is a signature of the microwave dielectric loss mechanism. This could be explained by the lower ZrO₂ electrical conductivity compared to the SiC one.

Effects of the Susceptor Dielectric Properties on the ...

Enhancement of the dielectric properties of SiC is achieved by growing the NiO nanorings on the surface of SiC. The SiC assembled with NiO nanorings exhibits highly enhanced dielectric properties and strong microwave absorption due to the hopping charge induced by the NiO nanorings. Volume 2, Issue 3 March 2014

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