

# Room temperature degradation of YBa<sub>2</sub>Cu<sub>307x</sub> superconductors in varying relative humidity environments

Langley Research Center - Electrical, Photocatalytic, and Humidity Sensing Applications of Mixed Metal Oxide Nanocomposites



## Description: -

### Humidity

#### High temperature superconductors

#### Decomposition Room temperature degradation of YBa<sub>2</sub>Cu<sub>307x</sub> superconductors in varying relative humidity environments

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## Electrical, Photocatalytic, and Humidity Sensing Applications of Mixed Metal Oxide Nanocomposites

All experiments were performed on a specially equipped thermomechanical testing apparatus. This pressure-induced formability decrease was accompanied by a change in fracture path and its mechanism is currently being investigated. Exchangeable cylinders of pressure vessels in stirred and non-stirred autoclaves with different volumes.

### Enhanced Room

Investigation of rotational motion of solid body 5. The oxide layer introduces stress in the structure increasing the overall stiffness, while mechanical shocks crack the layer.

### Environmental considerations for application of high Tc superconductors in space

Polarization and dielectric constant were also enhanced due to the additional thermal energy released to the bound charges. Army Research Laboratory, AMSRL-WM-ME, APG, MD 21005-5069; A. A series of irradiations have been conducted at the Saturne, France, accelerator in which specimens of steel, copper, NbTi, aluminum, and niobium were exposed to protons with energies from 400 to 2000 MeV.

## Electrical, Photocatalytic, and Humidity Sensing Applications of Mixed Metal Oxide Nanocomposites

This paper considers the use of multiplexed optical fiber Bragg grating based sensors for use in this application.

## Related Books

- [Interscop, Pologne 1990](#)
- [Berlin](#)
- [Future of natural fibres - papers presented at a Shirley Institute Conference on 29-30 November 1977](#)
- [Reactions of heterocyclic azlactones.](#)
- [Todesproblem in der Philosophie des Wiener Kreises](#)