

R & D Trends of Functional Ceramics in Japan

Noboru Ichinose

School of Science and Engineering, Waseda University

3-4-1 Ohkubo Shicjuku-ku, Tokyo 169, Japan

Research and development of electronic materials is becoming increasingly important, since it is the basis for the development of the electronic industries. The international situation of Japan recently has encouraged the development of innovative electronic materials and devices.

Ceramic materials for the electronic industries must be highly functional. Usually, functional ceramics are including many kinds of ceramics such as insulating, dielectric, piezoelectric and pyroelectric, semiconducting, magnetic and superconducting ceramics.

The R & D trends of functional ceramics in Japan are reviewed here. Furthermore, future trends of these ceramics are also forecasted.