

## Keywords for *Journal of the European Ceramic Society*

Authors should select a maximum of five keywords. Each keyword should be accompanied by the capital letter denoting the category from which the keyword has been selected. If authors wish they may nominate one keyword which is not included in the list below. The list of up to five keywords should appear on the title page of each paper submitted for consideration following the abstract.

### A. Processing

Calcination  
Drying  
Extrusion  
Films  
Finishing  
Firing  
Grain growth  
Hot isostatic pressing  
Hot pressing  
Implantation  
Injection moulding  
Joining  
Microwave processing  
Milling  
Mixing  
Powders: solid state reaction  
Powders: gas phase reaction  
Powders: chemical preparation  
Precursors: organic  
Pressing  
Shaping  
Sintering  
Slip casting  
Sol-gel processes  
Suspensions  
Tape casting

### B. Structure and Microstructure

Composites  
Defects  
Electron microscopy  
Failure analysis  
Fibres  
Grain size  
Grain boundaries  
Impurities  
Inclusions  
Interfaces  
Microstructure-final  
Microstructure-prefiring  
Nanocomposites  
Non-destructive evaluation  
Optical microscopy  
Platelets  
Porosity  
Spectroscopy  
Surfaces  
Whiskers  
X-ray methods

### C. Properties

Chemical properties  
Colour  
Corrosion  
Creep  
Dielectric properties  
Diffusion  
Electrical properties  
Electrical conductivity  
Fatigue  
Ferroelectric properties  
Fracture  
Hardness  
Impedance  
Ionic conductivity  
Lifetime  
Magnetic properties  
Mechanical properties  
Optical properties  
Piezoelectric properties  
Plasticity  
Strength  
Superconductivity  
Thermal conductivity  
Thermal expansion  
Thermal properties  
Thermal shock resistance  
Toughness and toughening  
Wear resistance

### D. Compositions

Al<sub>2</sub>O<sub>3</sub>  
Al<sub>2</sub>TiO<sub>5</sub>  
Alkali oxides  
Alkaline earth oxides  
Apatite  
 $\beta$ -Al<sub>2</sub>O<sub>3</sub>  
BaTiO<sub>3</sub> and titanates  
BeO  
Borides  
Carbides  
Carbon  
CeO<sub>2</sub>  
Clays  
Dimox  
Ferrites  
Glass  
Glass ceramics  
Halides

MgO  
Mullite  
Niobates  
Nitrides  
Oxide superconductors  
Perovskites  
PLZT  
PZT  
Porcelain  
RBAO  
Si<sub>3</sub>N<sub>4</sub>  
Sialon  
SiC  
Silicate  
Silicides  
SiO<sub>2</sub>  
Spinel  
Tantalates  
TiO<sub>2</sub>  
Traditional ceramics  
Transition metal oxides  
UO<sub>2</sub>  
Y<sub>2</sub>O<sub>3</sub>  
ZnO  
ZrO<sub>2</sub>

### E. Applications

Actuators  
Armour  
Batteries  
Biomedical applications  
Capacitors  
Cutting tools  
Engine components  
Fuel cells  
Functional applications  
Hard magnets  
Insulators  
Lamp envelopes  
Membranes  
Nuclear applications  
PTC devices  
Refractories  
Sensors  
Soft magnets  
Structural applications  
Substrates  
Thermistors  
Varistors  
Wear parts