*Journal of the European Ceramic Society* **18** (1998) I


# 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

$Al_2O_3$
$Al_2TiO_5$
Alkali oxides
Alkaline earth oxides
Apatite
$\beta$-$Al_2O_3$
$BaTiO_3$ and titanates
BeO
Borides
Carbides
Carbon
$CeO_2$
Clays
Dimox
Ferrites
Glass
Glass ceramics
Halides
MgO
Mullite
Niobates
Nitrides
Oxide superconductors
Perovskites
PLZT
PZT
Porcelain
RBAO
$Si_3N_4$
Sialon
SiC
Silicate
Silicides
$SiO_2$
Spinels
Tantalates
$TiO_2$
Traditional ceramics
Transition metal oxides
$UO_2$
$Y_2O_3$
ZnO
$ZrO_2$

## 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