

Ceramics International primarily deals with the fundamental aspects of ceramic science and their application to the development of improved ceramic materials.

The journal particularly encourages papers that show how ceramic science can be used to improve the quality, reliability and performance of ceramics through the development of advanced materials and manufacturing techniques.

Fabrication Processes which *Ceramics International* concentrates on include all the advanced techniques employed to produce ceramic components of improved quality, reliability and performance.

Ceramics International is particularly concerned with powder and material processing. Subjects covered in these areas include:

Powder Processing

Solid state, chemical precipitation, hydrothermal, vapour phase, laser, plasma and SHS synthesis, polymer and gel processing.

Processing Methods

Pressing, extrusion, injection moulding, rolling, calendaring, electrophoretic deposition, casting, hot pressing (including isostatic), forging, plasma sintering, high pressure, ion-beam and laser processing.

Ceramics International covers process related topics including advanced coatings and sealants, surface finishing and conditioning and composite technology.

Materials

Materials covered by the journal include engineering, electrical, electro-optic, magnetic, nuclear and bioceramics, refractories, whiteware and heavy clay based products.

Ceramics International is particularly keen to attract papers which also deal with the science and design aspects of ceramics that are relevant to service performance and which cover the whole range of ceramic products.

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Cover photograph: SEM morphology of specimen reacted hydrothermally at 300°C for 24 h using CaO and P₂O₅ powders with deionized water and phosphoric acid as reaction media (upper layer at higher magnification). (Photograph courtesy of Yao-Shan Hsu, Dept of Material Engineering, National Cheng Kung University, Tainan, Taiwan.)

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