
Microwave Enhanced Anisotropic Grain Growth in Lanthanum Hexa Aluminate-Alumina Composites

Oxyfuel Combustion Using Perovskite Membranes

Synthesis of SiC Nanofibers with Graphite Powders

Influence of Additional Elements on Densification Behavior of Zirconia Base Amorphous Powders

The Intergranular Microstructure of Silicon Nitride Based Ceramics

Ultrathin Powders Doped With Aluminium in SiCN System

Modulus and Hardness of Nanocrystalline Silicon Carbide as Functions of Grain Size

Stoichiometric Constraint for Dislocation Loop Growth in Silicon Carbide

Effects of Si:SiC Ratio and SiC Grain Size on Properties of RBSC

Electrical Properties of AlN-SiC Solid Solutions with Additions of Al and C

Effects of Frequency on Fatigue Behavior of an Oxide-Oxide Ceramic Composite at 1200[degrees]C

Post Creep/Dwell Fatigue Testing of MI SiC/SiC Composites

Time-Dependent Response of MI SiC/SiC Composites Part 1: Standard Samples

Time-Dependent Response of MI SiC/SiC Composites Part 2: Samples with Holes

Effects of Environment on Creep Behavior of an Oxide-Oxide Ceramic Composite with [plus or minus]45[degrees] Fiber Orientation at 1200[degrees]C

Assessments of Life Limiting Behavior in Interlaminar Shear for HI-Nic SiC/SiC Ceramic Matrix Composite at Elevated Temperature

Architectural Design of Preforms and Their Effects on Mechanical Property of High Temperature Composites

Design Factor Using a SiC/SiC Composites for Core Component of Gas Cooled Fast Reactor 2: Thermal Stress

Development of Novel Fabrication Process for Highly-Dense & Porous SiC/SiC Composites with Excellent Mechanical Properties

Effects of Interface Layer and Matrix Microstructure on the Tensile Properties of Unidirectional SiC/SiC Composites

Tensile Properties of Advanced SiC/SiC Composites for Nuclear Control Rod Applications

Influence of the Architecture on the Mechanical Performances of Alumina-Mullite and Alumina-Mullite-Zirconia Ceramic Laminates

Fabrication of Novel Alumina Composites Reinforced by SiC Nano-Particles and Multi-Walled Carbon Nanotubes


Electro-Conductive ZrO[subscript 2]-NbC-TiN Composites Using NbC Nanopowder Made By Carbo-Thermal Reaction

High Temperature Strength Retention of Aluminum Boron Carbide (AlBC) Composites

Corrosion Resistance of Ceramics in Sulfuric Acid Environments at High Temperature

Analyzing Irradiation-Induced Creep of Silicon Carbide
Physico-Chemical Reactivity of Ceramic Composite Materials at High Temperature: Vaporization and Reactivity with Carbon of Borosilicate Glass
Irradiation Effects on the Microstructure and Mechanical Properties of Silicon Carbide
Oxidation of ZrB$_2$-SiC: Comparison of Furnace Heated Coupons and Self-Heated Ribbon Specimens
The Role of Fluorine in Glass Formation in the Ca-Si-Al-O-N System
Wetting and Reaction Characteristics of Al$_2$O$_3$/SiC Composite Refractories by Molten Aluminum and Aluminum Alloy
Nondestructive Evaluation of Silicon-Nitride Ceramic Valves from Engine Duration Test
Model of Constrained Sintering
Study of Factors Affecting the Lengths of Surface Cracks in Silicon Nitride Introduced by Vickers Indentation
Strength Recovery Behavior of Machined Alumina by Crack Healing
Modeling Crack Bifurcation in Laminar Ceramics
Delayed Failure of Silicon Carbide Fibers in Static Fatigue at Intermediate Temperatures (500-800[degrees]C) in Air
Fracture-Toughness Test of Silicon Nitrides with Different Microstructures Using Vickers Indentation
Self-Crack-Healing Ability of Alumina/ SiC Nanocomposite Fabricated by Self-Propagating High-Temperature Synthesis
Through-Life Reliability Management of Structural Ceramic Components Using Crack-Healing and Proof Test
Joining Methods for Ceramic, Compact, Microchannel Heat Exchangers
Glass-To-Metal (GTM) Seal Development Using Finite Element Analysis: Assessment of Material Models and Design Changes
Integrative Design with Ceramics: Optimization Strategies for Ceramic/Metal Joints
Diffusion Bonding of Silicon Carbide for MEMS-LDI Applications
Effect of Residual Stress on Fracture Behavior in Mechanical Test for Evaluating Shear Strength of Ceramic Composite Joint

Table of Contents provided by Blackwell's Book Services and R.R. Bowker. Used with permission.