

Relaxation behavior of densified sodium aluminoborate glass

Effect of heat-treatment on the upconversion of  $\text{NaYF}_4:\text{Yb}^{3+}, \text{Er}^{3+}$  nanocrystals containing silver phosphate glass

Precipitate formation in aluminium alloys  
Multi-scale modelling approach

Identification and compensation of error sources in the microbond test utilising a reliable high-throughput device

Structure and in vitro dissolution of Mg and Sr containing borosilicate bioactive glasses for bone tissue engineering

Transparent  $\text{Yb}^{3+}$  doped phosphate glass-ceramics

Examining interfacial interactions in a range of polymers using poly(ethylene oxide) functionalized carbon fibers

Mining tailings as a raw material for glass-bonded thermally sprayed ceramic coatings  
Microstructure and properties

Novel borosilicate bioactive scaffolds with persistent luminescence

Modelling thermodynamics in a high erature superconducting dipole magnet  
An inverse problem based approach

Highly efficient charge separation in model Z-scheme  $\text{TiO}_2/\text{TiSi}_2/\text{Si}$  photoanode by micropatterned titanium silicide interlayer

Simulation of Delamination Growth at CFRP-Tungsten Aerospace Laminates Using VCCT and CZM Modelling Techniques

Vibration-based delamination detection in curved composite plates

Transverse deformation of a lamellar TiAl alloy at high temperature by in situ microcompression

Mining tailings as raw materials for reaction-sintered aluminosilicate ceramics  
Effect of mineralogical composition on microstructure and properties

DLC-treated aramid-fibre composites  
Tailoring nanoscale-coating for macroscale performance

Deformation of lamellar  $\gamma$ -TiAl below the general yield stress

Design, processing, and characterization of an optical core-bioactive clad phosphate fiber for biomedical applications

Flip-chip Wafer-fused OP-VECSELs emitting 3.65 W at the 1.55- $\mu\text{m}$  waveband

How well can we predict cluster fragmentation inside a mass spectrometer?

In-vitro dissolution characteristics and human adipose stem cell response to novel borophosphate glasses

Mechanical characterization of pore-graded bioactive glass scaffolds produced by robocasting

Nano-structured optical fibers made of glass-ceramics, and phase separated and metallic particle-containing glasses

An efficient highly flexible strain sensor

Enhanced electrical conductivity, piezoresistivity and flexibility of a strongly piezoresistive composite based on conductive carbon black and an ionic liquid

High surface quality welding of aluminum using adjustable ring-mode fiber laser

The effect of carbon and nickel additions on the precursor synthesis of  $\text{Cr}_3\text{C}_2$ -Ni nanopowder

Influence of the phosphate glass melt on the corrosion of functional particles occurring during the preparation of glass-ceramics

The effects of laser patterning 10CeTZP- $\text{Al}_2\text{O}_3$  nanocomposite disc surfaces  
Osseous differentiation and cellular arrangement in vitro

Powering of an HTS dipole insert-magnet operated standalone in helium gas between 5 and 85 K

Membrane bound COMT isoform is an interfacial enzyme  
General mechanism and new drug design paradigm

Better understanding of the role of  $\text{SiO}_2$ ,  $\text{P}_2\text{O}_5$  and  $\text{Al}_2\text{O}_3$  on the spectroscopic properties of  $\text{Yb}^{3+}$  doped silica sol-gel glasses

Characterization of elastic constants of anisotropic composites in compression using digital image correlation

Effect of paint baking treatment on the properties of press hardened boron steels

Efficient photon upconversion at remarkably low annihilator concentrations in a liquid polymer matrix: when less is more

Evaluating the toughness of APS and HVOF-sprayed  $\text{Al}_2\text{O}_3$ - $\text{ZrO}_2$ -coatings by in-situ- and macroscopic bending

Persistent luminescent particles containing bioactive glasses  
Prospect toward tracking in-vivo implant mineralization using biophotonic ceramics

Noncovalent functionalization of reduced graphene oxide with pluronic F127 and its nanocomposites with gum arabic

The effect of multi-wall carbon nanotube morphology on electrical and mechanical properties of polyurethane nanocomposites

The effect of matrix type on ageing of thick vinyl ester glass-fibre-reinforced laminates

Quench absorption coils  
A quench protection concept for high-field superconducting accelerator magnets

Effect of the addition of  $\text{Al}_2\text{O}_3$ ,  $\text{TiO}_2$  and  $\text{ZnO}$  on the thermal, structural and luminescence properties of  $\text{Er}^{3+}$ -doped phosphate glasses

Reaction heat utilization in aluminosilicate-based ceramics synthesis and sintering

Electromagnetic nonlinearities in a Roebel-cable-based accelerator magnet prototype  
Variational approach

The 5th international workshop on numerical modelling of high temperature superconductors

Two cations, two mechanisms  
Interactions of sodium and calcium with zwitterionic lipid membranes

Novel oxyfluorophosphate glasses and glass-ceramics

Honeycomb porous films as permeable scaffold materials for human embryonic stem cell-derived retinal pigment epithelium

Thermal, structural and optical properties of  $\text{Er}^{3+}$  doped phosphate glasses containing silver nanoparticles

Chemical synthesis of WC-Co from water-soluble precursors  
The effect of carbon and cobalt additions to WC synthesis

Compatibilization of natural rubber/nitrile rubber blends by sol-gel nano-silica generated by in situ method

Dissolution behavior of the bioactive glass S53P4 when sodium is replaced by potassium, and calcium with magnesium or strontium

Thermal flow permeametry - A rapid method for finding local changes in flow channels

Processing and characterization of phosphate glasses containing  $\text{CaAl}_2\text{O}_4:\text{Eu}^{2+},\text{Nd}^{3+}$  and  $\text{SrAl}_2\text{O}_4:\text{Eu}^{2+},\text{Dy}^{3+}$  microparticles

Evaluation of crushing strength of spray-dried  $\text{MgAl}_2\text{O}_4$  granule beds

Dynamic piezoelectric stimulation enhances osteogenic differentiation of human adipose stem cells

Biomimetic collagen I and IV double layer Langmuir-Schaefer films as microenvironment for human pluripotent stem cell derived retinal pigment epithelial cells

Enhancement of adhesion and promotion of osteogenic differentiation of human adipose stem cells by poled electroactive poly(vinylidene fluoride)

'Expanded organoclay' assisted dispersion and simultaneous structural alterations of multiwall carbon nanotube (MWCNT) clusters in natural rubber

Are coarse-grained models apt to detect protein thermal stability? the case of OPEP force field

Debonding and impact damage in stainless steel fibre metal laminates prior to metal fracture

Julkaisun otsikon käännös: : Debonding and impact damage in stainless steel fibre metal laminates prior to metal fracture

Mechanical performance and CO<sub>2</sub> uptake of ion-exchanged zeolite A structured by freeze-casting

Stimuli-responsive photonic polymer coatings

A 3D Alzheimer's disease culture model and the induction of P21-activated kinase mediated sensing in iPSC derived neurons

Dispersion and distribution of carbon nanotubes in ternary rubber blends

Residual stress development in cold sprayed Al, Cu and Ti coatings

Influence of "expanded clay" on the microstructure and fatigue crack growth behavior of carbon black filled NR composites

Improved oxidation resistance of conducting polychloroprene composites

Rubber composites based on graphene nanoplatelets, expanded graphite, carbon nanotubes and their combination  
A comparative study

Effect of sol-gel derived in situ silica on the morphology and mechanical behavior of natural rubber and acrylonitrile butadiene rubber blends

Crystallization mechanism of the bioactive glasses, 45S5 and S53P4

Towards universal enrichment nanocoating for IR-ATR waveguides

Development of conducting polychloroprene rubber using imidazolium based ionic liquid modified multi-walled carbon nanotubes

Comparison of the optical, thermal and structural properties of Ge-Sb-S thin films deposited using thermal evaporation and pulsed laser deposition techniques

Osteoconductive properties of poly(96L/4D-lactide)/beta-tricalcium phosphate in long term animal model

Reinforcement and migration of nanoclay in polychloroprene/ethylene-propylene-diene-monomer rubber blends

Gas atomized thermal spray powders of various metals and alloys

Germanium-on-glass solar cells

Noise characterization of Ge/Si photodetectors

Shear buckling and resistance of thin-walled steel plate at non-uniform elevated temperatures

