

CONTENTS BY KEYWORD

Amorphous materials	Characteristics of amorphous VO ₂ thin films prepared by pulsed laser deposition	R. T. R. Kumar <i>et al.</i> 2869
Annealing	Effect of an alternating magnetic field on the phase formation in Al-Cu couple	X. Liu <i>et al.</i> 2935
Blends	Performance characteristics of compatibilized ternary Nylon 6/ABS/LCP <i>in-situ</i> composites	S. C. Tjong <i>et al.</i> 2737
	Influence of lithium ions on structural and conductivity studies of composite electrolyte consisting of PVC and PMMA	T. Uma <i>et al.</i> 2897
	Characterization of PVC-ZrO ₂ composite polymer electrolytes	T. Uma <i>et al.</i> 2901
Ceramics	Ferroelectric phase transition in Pb ₃ R ₃ Ti ₅ Nb ₅ O ₃₀ (<i>R</i> = Eu and Gd) ceramics	A. K. Singh <i>et al.</i> 2873
	PLZT ceramics from mechanically alloyed powder and their anomalous photovoltaic effect	J.-F. Li <i>et al.</i> 2879
Characterization methods	Surface reconstruction of α -(0001) sapphire: An AFM, XPS, AES and EELS investigation	K. G. Saw 2911
Coatings	Plating of Ni/c-BN composite film in two steps	S. Teruyama <i>et al.</i> 2941
	Spectroscopic and topographic characterization of the effect of monomer feed ratio in electrocopolymerization of N-vinylcarbazole-co-3-methylthiophene on carbon fiber	A. S. Sarac <i>et al.</i> 2945
Composite materials	Electrical applications of carbon materials	D. D. L. Chung 2645
	Effect of CO ₂ partial pressure on oxidation of low-oxygen SiC fibers (Hi-Nicalon) in Ar-CO ₂ gas mixtures	T. Shimoo <i>et al.</i> 2699
	Performance characteristics of compatibilized ternary Nylon 6/ABS/LCP <i>in-situ</i> composites	S. C. Tjong <i>et al.</i> 2737
	Interfacial fracture toughness of polyester-based fiber-metal laminates with primary contact and secondary adhesive bonding	M. J. Burns <i>et al.</i> 2855
	Influence of lithium ions on structural and conductivity studies of composite electrolyte consisting of PVC and PMMA	T. Uma <i>et al.</i> 2897
	Characterization of PVC-ZrO ₂ composite polymer electrolytes	T. Uma <i>et al.</i> 2901
	Critical length measurements in carbon fibers during single fiber fragmentation tests using acoustic emission	C. Santulli 2905
	Micro-X-ray diffraction study of thermal residual stresses in some model aluminum matrix composites	L. Cheng <i>et al.</i> 2923
	Plating of Ni/c-BN composite film in two steps	S. Teruyama <i>et al.</i> 2941
Corrosion and oxidation	Effect of CO ₂ partial pressure on oxidation of low-oxygen SiC fibers (Hi-Nicalon) in Ar-CO ₂ gas mixtures	T. Shimoo <i>et al.</i> 2699
Crystallization	Hydrothermal synthesis of mono-dispersed quartz powders	K. Yanagisawa <i>et al.</i> 2931
Deformation and fracture	Cyclic deformation behaviour of a nickel base alloy at elevated temperature	G. Chai <i>et al.</i> 2689
	Critical length measurements in carbon fibers during single fiber fragmentation tests using acoustic emission	C. Santulli 2905
	Cyclic stress response behavior of a carbide-strengthened Co-base alloy under low cycle fatigue at 900 °C	F. M. Yang <i>et al.</i> 2927
Deposition techniques	Room temperature chemical deposition of amorphous TiO ₂ thin films from Ti(III) chloride solution	C. D. Lokhande <i>et al.</i> 2915
	Morphological and magnetic characterization of electrodeposited cobalt nanowires	S. Kumar <i>et al.</i> 2951
	Size control of silver nanoparticles deposited on silica dielectric spheres by electroless plating technique	G. Ling <i>et al.</i> 2955
	Properties studies on the P-doping NASICON powders	S. Zhang <i>et al.</i> 2965
Diffusion	Effect of an alternating magnetic field on the phase formation in Al-Cu couple	X. Liu <i>et al.</i> 2935
Elastic properties	Elastic moduli determination through IR spectroscopy for zinc substituted copper ferri chromates	K. B. Modi 2887
Electrical properties	Electrical applications of carbon materials	D. D. L. Chung 2645
	Characteristics of amorphous VO ₂ thin films prepared by pulsed laser deposition	R. T. R. Kumar <i>et al.</i> 2869
	Ferroelectric phase transition in Pb ₃ R ₃ Ti ₅ Nb ₅ O ₃₀ (<i>R</i> = Eu and Gd) ceramics	A. K. Singh <i>et al.</i> 2873
Fatigue	Cyclic deformation behaviour of a nickel base alloy at elevated temperature	G. Chai <i>et al.</i> 2689
	Cyclic stress response behavior of a carbide-strengthened Co-base alloy under low cycle fatigue at 900 °C	F. M. Yang <i>et al.</i> 2927

(Continued)

Ferroelectrics	Ferroelectric phase transition in $Pb_3R_3Ti_5Nb_5O_{30}$ ($R = Eu$ and Gd) ceramics A. K. Singh <i>et al.</i>	2873
	PLZT ceramics from mechanically alloyed powder and their anomalous photovoltaic effect J.-F. Li <i>et al.</i>	2879
	Temperature induced growth away from the $(00l)$ orientation in $SrBi_2Ta_2O_9$ films deposited by PLD Ma. de la Paz Cruz-Jáuregui <i>et al.</i>	2937
Fiber technologies	Electrical applications of carbon materials D. D. L. Chung	2645
	Effect of CO_2 partial pressure on oxidation of low-oxygen SiC fibers (Hi-Nicalon) in $Ar-CO_2$ gas mixtures T. Shimoo <i>et al.</i>	2699
	A model for fibre contact in planar random fibre networks W. W. Sampson	2775
Fracture	Annealing twin boundary cracking in the low-temperature brittle fracture of a high-nitrogen bearing austenitic steel S. Liu <i>et al.</i>	2841
	Interfacial fracture toughness of polyester-based fiber-metal laminates with primary contact and secondary adhesive bonding M. J. Burns <i>et al.</i>	2855
	Size distribution of creep cracks in materials showing a mixed mode fracture simulated by one-dimensional crack growth model M. Tanaka <i>et al.</i>	2919
Grain boundaries	Annealing twin boundary cracking in the low-temperature brittle fracture of a high-nitrogen bearing austenitic steel S. Liu <i>et al.</i>	2841
Heat treatment	Surface reconstruction of α -(0001) sapphire: An AFM, XPS, AES and EELS investigation K. G. Saw	2911
	Effect of moisture on stabilization of polyacrylonitrile fibers G. Wu <i>et al.</i>	2959
Imaging	Spectroscopic and topographic characterization of the effect of monomer feed ratio in electrocopolymerization of N-vinylcarbazole-co-3-methylthiophene on carbon fiber A. S. Sarac <i>et al.</i>	2945
Infrared spectroscopy	Elastic moduli determination through IR spectroscopy for zinc substituted copper ferri chromates K. B. Modi	2887
Laser processing	Characteristics of amorphous VO_2 thin films prepared by pulsed laser deposition R. T. R. Kumar <i>et al.</i>	2869
Magnetic materials	Morphological and magnetic characterization of electrodeposited cobalt nanowires S. Kumar <i>et al.</i>	2951
Mechanical properties	Cyclic deformation behaviour of a nickel base alloy at elevated temperature G. Chai <i>et al.</i>	2689
	Performance characteristics of compatibilized ternary Nylon 6/ABS/LCP <i>in-situ</i> composites S. C. Tjong <i>et al.</i>	2737
	Theoretical study of complete contact indentations of viscoelastic materials G. Fu	2877
	Critical length measurements in carbon fibers during single fiber fragmentation tests using acoustic emission C. Santulli	2905
Metals and alloys	Interfacial fracture toughness of polyester-based fiber-metal laminates with primary contact and secondary adhesive bonding M. J. Burns <i>et al.</i>	2855
Microanalysis	Micro-X-ray diffraction study of thermal residual stresses in some model aluminum matrix composites L. Cheng <i>et al.</i>	2923
Microstructure	Annealing twin boundary cracking in the low-temperature brittle fracture of a high-nitrogen bearing austenitic steel S. Liu <i>et al.</i>	2841
	Nanostructural formation of fine grained aluminum alloy by severe plastic deformation at cryogenic temperature J. Yin <i>et al.</i>	2851
Mineral	Hydrothermal synthesis of mono-dispersed quartz powders K. Yanagisawa <i>et al.</i>	2931
Modelling	A model for fibre contact in planar random fibre networks W. W. Sampson	2775
	Electromechanical interaction of linear piezoelectric materials with a surface electrode F. Yang	2811
	Theoretical study of complete contact indentations of viscoelastic materials G. Fu	2877
	Size distribution of creep cracks in materials showing a mixed mode fracture simulated by one-dimensional crack growth model M. Tanaka <i>et al.</i>	2919
Multilayer structure	A model for fibre contact in planar random fibre networks W. W. Sampson	2775
Nanomaterials	Nanostructural formation of fine grained aluminum alloy by severe plastic deformation at cryogenic temperature J. Yin <i>et al.</i>	2851
	Room temperature chemical deposition of amorphous TiO_2 thin films from Ti(III) chloride solution C. D. Lokhande <i>et al.</i>	2915
	Spectroscopic and topographic characterization of the effect of monomer feed ratio in electrocopolymerization of N-vinylcarbazole-co-3-methylthiophene on carbon fiber A. S. Sarac <i>et al.</i>	2945
	Morphological and magnetic characterization of electrodeposited cobalt nanowires S. Kumar <i>et al.</i>	2951
	Size control of silver nanoparticles deposited on silica dielectric spheres by electroless plating technique G. Ling <i>et al.</i>	2955
	Properties studies on the P-doping NASICON powders S. Zhang <i>et al.</i>	2965

(Continued)

Optical materials and properties	Optical properties of SiO ₂ -TiO ₂ sol-gel thin films	P. Chrysicopoulou <i>et al.</i>	2835
Phase transformations	Effect of an alternating magnetic field on the phase formation in Al-Cu couple	X. Liu <i>et al.</i>	2935
Photoreactive materials	PLZT ceramics from mechanically alloyed powder and their anomalous photovoltaic effect	J.-F. Li <i>et al.</i>	2879
	Room temperature chemical deposition of amorphous TiO ₂ thin films from Ti(III) chloride solution	C. D. Lokhande <i>et al.</i>	2915
Piezoelectric materials	Electromechanical interaction of linear piezoelectric materials with a surface electrode	F. Yang	2811
Plasma deposition	Temperature induced growth away from the (00l) orientation in SrBi ₂ Ta ₂ O ₉ films deposited by PLD	Ma. de la Paz Cruz-Jáuregui <i>et al.</i>	2937
Polymers	Influence of lithium ions on structural and conductivity studies of composite electrolyte consisting of PVC and PMMA	T. Uma <i>et al.</i>	2897
	Characterization of PVC-ZrO ₂ composite polymer electrolytes	T. Uma <i>et al.</i>	2901
	Spectroscopic and topographic characterization of the effect of monomer feed ratio in electrocopolymerization of N-vinylcarbazole-co-3-methylthiophene on carbon fiber	A. S. Sarac <i>et al.</i>	2945
	Effect of moisture on stabilization of polyacrylonitrile fibers	G. Wu <i>et al.</i>	2959
Powder technology	Hydrothermal synthesis of mono-dispersed quartz powders	K. Yanagisawa <i>et al.</i>	2931
Semiconductors	Room temperature chemical deposition of amorphous TiO ₂ thin films from Ti(III) chloride solution	C. D. Lokhande <i>et al.</i>	2915
Simulations	Size distribution of creep cracks in materials showing a mixed mode fracture simulated by one-dimensional crack growth model	M. Tanaka <i>et al.</i>	2919
Smart materials	Electromechanical interaction of linear piezoelectric materials with a surface electrode	F. Yang	2811
Sol-gel preparation	Optical properties of SiO ₂ -TiO ₂ sol-gel thin films	P. Chrysicopoulou <i>et al.</i>	2835
	Properties studies on the P-doping NASICON powders	S. Zhang <i>et al.</i>	2965
Surfaces	Surface reconstruction of α -(0001) sapphire: An AFM, XPS, AES and EELS investigation	K. G. Saw	2911
	Size control of silver nanoparticles deposited on silica dielectric spheres by electroless plating technique	G. Ling <i>et al.</i>	2955
Thin and thick film coatings	Optical properties of SiO ₂ -TiO ₂ sol-gel thin films	P. Chrysicopoulou <i>et al.</i>	2835
	Characteristics of amorphous VO ₂ thin films prepared by pulsed laser deposition	R. T. R. Kumar <i>et al.</i>	2869
	Room temperature chemical deposition of amorphous TiO ₂ thin films from Ti(III) chloride solution	C. D. Lokhande <i>et al.</i>	2915
	Temperature induced growth away from the (00l) orientation in SrBi ₂ Ta ₂ O ₉ films deposited by PLD	Ma. de la Paz Cruz-Jáuregui <i>et al.</i>	2937
Viscoelasticity	Theoretical study of complete contact indentations of viscoelastic materials	G. Fu	2877
X-ray techniques	Elastic moduli determination through IR spectroscopy for zinc substituted copper ferri chromates	K. B. Modi	2887