

CONTENTS BY KEYWORD

Adsorption	Stability of polyester- and vinyl ester-based composites in seawater A. P. Mouritz <i>et al.</i>	6073
Anisotropy	Morphology of graphite in hot-compressed nodular iron X. Zhao <i>et al.</i>	6093
Bonding	Welding characteristics of S45C medium carbon steel in laser welding process using a high power CW Nd:YAG laser Y.-T. Yoo <i>et al.</i>	6117
Ceramics	Oxidation-based materials selection for 2000°C + hypersonic aerosurfaces: Theoretical considerations and historical experience M. M. Opeka <i>et al.</i>	5887
	Microhardness and high-velocity impact resistance of HfB ₂ /SiC and ZrB ₂ /SiC composites J. Marschall <i>et al.</i>	5959
	Carbothermal reduction synthesis of nanocrystalline zirconium carbide and hafnium carbide powders using solution-derived precursors M. D. Sacks <i>et al.</i>	6057
	Sintering condition and PTCR characteristics of porous <i>n</i> -BaTiO ₃ ceramics by adding poly(ethylene glycol) J.-G. Kim	6129
Coatings	Synthesis and morphological characterization on PVP/ZnO nano hybrid films T. Du <i>et al.</i>	6105
Composite materials	Stability of polyester- and vinyl ester-based composites in seawater A. P. Mouritz <i>et al.</i>	6073
	Effect of exposure of piezoelectric paint to water and salt solution P. N. Raptis <i>et al.</i>	6079
Crystal growth	Growth and characterization of MnO doped near stoichiometric LiNbO ₃ crystals Z. J. Sun <i>et al.</i>	6145
Defects	Welding characteristics of S45C medium carbon steel in laser welding process using a high power CW Nd:YAG laser Y.-T. Yoo <i>et al.</i>	6117
Deformation and fracture	Microhardness and high-velocity impact resistance of HfB ₂ /SiC and ZrB ₂ /SiC composites J. Marschall <i>et al.</i>	5959
Diffusion	Stability of polyester- and vinyl ester-based composites in seawater A. P. Mouritz <i>et al.</i>	6073
	Degradation of the Au ₄ Al compound in gold ballbonds during isothermal aging in air at 175 °C C. D. Breach <i>et al.</i>	6125
Electrical properties	Sintering condition and PTCR characteristics of porous <i>n</i> -BaTiO ₃ ceramics by adding poly(ethylene glycol) J.-G. Kim	6129
	Chemical synthesis of polypyrrole nano/microstructures using track etch membranes . . S. Kumar <i>et al.</i>	6137
Electronic properties	Novel soluble low band gap polymers Q. Zhang <i>et al.</i>	6089
Filter	Chemical synthesis of polypyrrole nano/microstructures using track etch membranes . . S. Kumar <i>et al.</i>	6137
Hardness	Microhardness and high-velocity impact resistance of HfB ₂ /SiC and ZrB ₂ /SiC composites J. Marschall <i>et al.</i>	5959
Hydrolysis	Stability of polyester- and vinyl ester-based composites in seawater A. P. Mouritz <i>et al.</i>	6073
Infrared spectroscopy	Growth and characterization of MnO doped near stoichiometric LiNbO ₃ crystals Z. J. Sun <i>et al.</i>	6145
Intermetallic alloys and compounds	Degradation of the Au ₄ Al compound in gold ballbonds during isothermal aging in air at 175 °C C. D. Breach <i>et al.</i>	6125
Kinetics	Oxidation-based materials selection for 2000°C + hypersonic aerosurfaces: Theoretical considerations and historical experience M. M. Opeka <i>et al.</i>	5887
Laser processing	Welding characteristics of S45C medium carbon steel in laser welding process using a high power CW Nd:YAG laser Y.-T. Yoo <i>et al.</i>	6117
	Pulsed laser deposition of nanocomposite α -Fe/Nd ₂ Fe ₁₄ B magnets M. Sorescu <i>et al.</i>	6121
Magnetic materials	Pulsed laser deposition of nanocomposite α -Fe/Nd ₂ Fe ₁₄ B magnets M. Sorescu <i>et al.</i>	6121
Mechanical properties	The effect of aluminum addition on the damping capacity of cast iron X. Liu <i>et al.</i>	6097
	PVA/PTFE nanocomposites: Thermal, mechanical, and barrier properties M. Avella <i>et al.</i>	6133
Metals and alloys	Morphology of graphite in hot-compressed nodular iron X. Zhao <i>et al.</i>	6093
	Welding characteristics of S45C medium carbon steel in laser welding process using a high power CW Nd:YAG laser Y.-T. Yoo <i>et al.</i>	6117
	Degradation of the Au ₄ Al compound in gold ballbonds during isothermal aging in air at 175 °C C. D. Breach <i>et al.</i>	6125
Microstructure	Morphology of graphite in hot-compressed nodular iron X. Zhao <i>et al.</i>	6093
	The effect of aluminum addition on the damping capacity of cast iron X. Liu <i>et al.</i>	6097
	Chemical synthesis of polypyrrole nano/microstructures using track etch membranes S. Kumar <i>et al.</i>	6137
Nanocomposites	Synthesis and morphological characterization on PVP/ZnO nano hybrid films T. Du <i>et al.</i>	6105
	PVA/PTFE nanocomposites: Thermal, mechanical, and barrier properties M. Avella <i>et al.</i>	6133

(Continued)

Nanomaterials	Carbothermal reduction synthesis of nanocrystalline zirconium carbide and hafnium carbide powders using solution-derived precursors	M. D. Sacks <i>et al.</i>	6057
Optical materials and properties	Growth and characterization of MnO doped near stoichiometric LiNbO ₃ crystals	Z. J. Sun <i>et al.</i>	6145
Piezoelectric materials	Effect of exposure of piezoelectric paint to water and salt solution	P. N. Raptis <i>et al.</i>	6079
Polymers	Novel soluble low band gap polymers	Q. Zhang <i>et al.</i>	6089
	Chemical synthesis of polypyrrole nano/microstructures using track etch membranes	S. Kumar <i>et al.</i>	6137
Porosity	Sintering condition and PTCR characteristics of porous <i>n</i> -BaTiO ₃ ceramics by adding poly(ethylene glycol)	J.-G. Kim	6129
Smart materials	Electroresponsive characteristics of highly substituted phosphate starch	D. P. Park <i>et al.</i>	6083
Sol-gel preparation	Carbothermal reduction synthesis of nanocrystalline zirconium carbide and hafnium carbide powders using solution-derived precursors	M. D. Sacks <i>et al.</i>	6057
	Synthesis and morphological characterization on PVP/ZnO nano hybrid films	T. Du <i>et al.</i>	6105
Solidification	The effect of aluminum addition on the damping capacity of cast iron	X. Liu <i>et al.</i>	6097
Thermal properties	Oxidation-based materials selection for 2000°C + hypersonic aerosurfaces: Theoretical considerations and historical experience	M. M. Opeka <i>et al.</i>	5887
	PVA/PTFE nanocomposites: Thermal, mechanical, and barrier properties	M. Avella <i>et al.</i>	6133
Thin and thick film coatings	Effect of exposure of piezoelectric paint to water and salt solution	P. N. Raptis <i>et al.</i>	6079
Viscoelasticity	Electroresponsive characteristics of highly substituted phosphate starch	D. P. Park <i>et al.</i>	6083
X-ray techniques	Pulsed laser deposition of nanocomposite α -Fe/Nd ₂ Fe ₁₄ B magnets	M. Sorescu <i>et al.</i>	6121