

CONTENTS BY KEYWORD

Ceramics	Comment on “electrophoretic deposition-mechanisms, myths and materials” by Y. Fukuda, N. Nagarajan, W. Mekky, Y. Bao, H.-S. Kim and P. S. Nicholson (<i>J. Mater. Sci.</i> 39 (2004) 787) P. M. Biesheuvel <i>et al.</i> 7081
	Synthesis characterization and dielectric properties of a new cation-deficient perovskite $\text{Ba}_4\text{La}_2\text{Ti}_3\text{Nb}_2\text{O}_{18}$ L. Fang <i>et al.</i> 7093
	Effects of $\gamma\text{-Fe}_2\text{O}_3$ on the transport critical current density of $(\text{Bi}_{1.6}\text{Pb}_{0.4})\text{Sr}_2\text{Ca}_2\text{Cu}_3\text{O}_{10}$ superconductors S. Y. Yahya <i>et al.</i> 7125
Coatings	Indentation analysis of plasma-sprayed $\text{Cr}_3\text{C}_2\text{-NiCr}$ coatings J. F. Li <i>et al.</i> 7111
Composite materials	Deformation micromechanics of a thermoplastic-thermoset interphase of epoxy composites reinforced with polyethylene fiber P. I. Gonzalez-Chi <i>et al.</i> 7049
Corrosion and oxidation	Fatigue behavior of AISI 347 stainless steel in various environments C.-K. Lin <i>et al.</i> 6901
Crystal growth	Rapid thermal annealing effects on the optical properties in strained CdTe (100)/GaAs (100) heterostructures. H. S. Lee <i>et al.</i> 7115
Crystallization	Effect of cerium on microstructures and mechanical properties of AZ61 wrought magnesium alloy H. Zhou <i>et al.</i> 7061
Deformation and fracture	Effect of cerium on microstructures and mechanical properties of AZ61 wrought magnesium alloy H. Zhou <i>et al.</i> 7061
	Activation energies for the grain growth of an AZ31 Mg alloy after equal channel angular pressing H.-K. Kim 7107
	Indentation analysis of plasma-sprayed $\text{Cr}_3\text{C}_2\text{-NiCr}$ coatings J. F. Li <i>et al.</i> 7111
Electrical properties	Polyalkylphosphazenes as solid proton conducting electrolytes G. Dotelli <i>et al.</i> 6937
Electrochemistry	Polyalkylphosphazenes as solid proton conducting electrolytes G. Dotelli <i>et al.</i> 6937
	Relationship between electrode size and surface cracking in the EDM machining process H. T. Lee <i>et al.</i> 6981
	Comment on “electrophoretic deposition-mechanisms, myths and materials” by Y. Fukuda, N. Nagarajan, W. Mekky, Y. Bao, H.-S. Kim and P. S. Nicholson (<i>J. Mater. Sci.</i> 39 (2004) 787) P. M. Biesheuvel <i>et al.</i> 7081
Electronic materials	Synthesis characterization and dielectric properties of a new cation-deficient perovskite $\text{Ba}_4\text{La}_2\text{Ti}_3\text{Nb}_2\text{O}_{18}$ L. Fang <i>et al.</i> 7093
Electronic properties	Effects of $\gamma\text{-Fe}_2\text{O}_3$ on the transport critical current density of $(\text{Bi}_{1.6}\text{Pb}_{0.4})\text{Sr}_2\text{Ca}_2\text{Cu}_3\text{O}_{10}$ superconductors S. Y. Yahya <i>et al.</i> 7125
Fatigue	Fatigue behavior of AISI 347 stainless steel in various environments C.-K. Lin <i>et al.</i> 6901
	Evolution of residual stress under fretting fatigue H. Lee <i>et al.</i> 7089
Fracture	Relationship between electrode size and surface cracking in the EDM machining process H. T. Lee <i>et al.</i> 6981
Glasses	Preparation of flexible inorganic-organic hybrid proton-conducting membranes via sol-gel processing Y. Hamano <i>et al.</i> 7097
Heat treatment	Effects of the variation in α -phase volume fraction on the thermal stability of TiAl alloys with a lamellar microstructure S. W. Kim <i>et al.</i> 6929
High temperature superconductors	Effects of $\gamma\text{-Fe}_2\text{O}_3$ on the transport critical current density of $(\text{Bi}_{1.6}\text{Pb}_{0.4})\text{Sr}_2\text{Ca}_2\text{Cu}_3\text{O}_{10}$ superconductors S. Y. Yahya <i>et al.</i> 7125
Interfaces	Deformation micromechanics of a thermoplastic-thermoset interphase of epoxy composites reinforced with polyethylene fiber P. I. Gonzalez-Chi <i>et al.</i> 7049
Intermetallic alloys and compounds	Effects of the variation in α -phase volume fraction on the thermal stability of TiAl alloys with a lamellar microstructure S. W. Kim <i>et al.</i> 6929
Macro defects	Relationship between electrode size and surface cracking in the EDM machining process H. T. Lee <i>et al.</i> 6981
Mechanical properties	Effect of cerium on microstructures and mechanical properties of AZ61 wrought magnesium alloy H. Zhou <i>et al.</i> 7061
	Activation energies for the grain growth of an AZ31 Mg alloy after equal channel angular pressing H.-K. Kim 7107
	Indentation analysis of plasma-sprayed $\text{Cr}_3\text{C}_2\text{-NiCr}$ coatings J. F. Li <i>et al.</i> 7111

(Continued)

Metals and alloys	Evolution of residual stress under fretting fatigue	H. Lee <i>et al.</i>	7089
	Activation energies for the grain growth of an AZ31 Mg alloy after equal channel angular pressing	H.-K. Kim	7107
Microstructure	Activation energies for the grain growth of an AZ31 Mg alloy after equal channel angular pressing	H.-K. Kim	7107
	Analysis on the welding heat-affected zone microstructures of austempered ductile iron	D. Li <i>et al.</i>	7119
Nanocomposites	Preparation of flexible inorganic-organic hybrid proton-conducting membranes via sol-gel processing	Y. Hamano <i>et al.</i>	7097
Nanomaterials	Preparation of flexible inorganic-organic hybrid proton-conducting membranes via sol-gel processing	Y. Hamano <i>et al.</i>	7097
Optical materials and properties	Rapid thermal annealing effects on the optical properties in strained CdTe (100)/GaAs (100) heterostructures.	H. S. Lee <i>et al.</i>	7115
Phase transformations	Analysis on the welding heat-affected zone microstructures of austempered ductile iron	D. Li <i>et al.</i>	7119
Polymers	Polyalkylphosphazenes as solid proton conducting electrolytes	G. Dotelli <i>et al.</i>	6937
Semiconductores	Rapid thermal annealing effects on the optical properties in strained CdTe (100)/GaAs (100) heterostructures.	H. S. Lee <i>et al.</i>	7115
Sol-gel preparation	Preparation of flexible inorganic-organic hybrid proton-conducting membranes via sol-gel processing	Y. Hamano <i>et al.</i>	7097
Thermal properties	Effects of the variation in α -phase volume fraction on the thermal stability of TiAl alloys with a lamellar microstructure	S. W. Kim <i>et al.</i>	6929
Transport mechanism	Comment on “electrophoretic deposition-mechanisms, myths and materials” by Y. Fukuda, N. Nagarajan, W. Mekky, Y. Bao, H.-S. Kim and P. S. Nicholson (<i>J. Mater. Sci.</i> 39 (2004) 787)	P. M. Biesheuvel <i>et al.</i>	7081
X-ray techniques	Evolution of residual stress under fretting fatigue	H. Lee <i>et al.</i>	7089
	Synthesis characterization and dielectric properties of a new cation-deficient perovskite Ba ₄ La ₂ Ti ₃ Nb ₂ O ₁₈	L. Fang <i>et al.</i>	7093