

CONTENTS BY KEYWORD

Biomaterials	Drug release from a N-vinylpyrrolidinone/acrylic acid lubricious hydrophilic coating	D. M. Devine <i>et al.</i> 3429
Brazing	Infrared brazing Inconel 601 and 422 stainless steel using the 70Au-22Ni-8Pd braze alloy	Y. K. Yu <i>et al.</i> 3445
Casting	Fabrication of high purity dense Ti ₂ AlC—Ti ₃ AlC ₂ composite by spark plasma sintering method	W. Zhou <i>et al.</i> 3559
Ceramics	Preparation and properties of silicon oxycarbide fibers	L. F. Chen <i>et al.</i> 3497
Characterization methods	A hybrid replication technique for the analysis of precipitate-boundary interactions in Ni-based superalloys	K. Song <i>et al.</i> 3403
	Drug release from a N-vinylpyrrolidinone/acrylic acid lubricious hydrophilic coating	D. M. Devine <i>et al.</i> 3429
Chemical vapour deposition	Novel nanocomposite of carbon nanotube–nanoclay by direct growth of nanotubes on nanoclay surface	M. Lu <i>et al.</i> 3545
Coatings	Drug release from a N-vinylpyrrolidinone/acrylic acid lubricious hydrophilic coating	D. M. Devine <i>et al.</i> 3429
	Preparation and properties of organic–inorganic hybrid flexible hardcoat films	K. Kuraoka <i>et al.</i> 3577
	Nanostructured superhydrophobic surfaces	H. M. Shang <i>et al.</i> 3587
Composite materials	Effect of surface treatment of carbon fibers with gamma-ray radiation on mechanical performance of their composites	Y. Z. Wan <i>et al.</i> 3355
	Preparation and properties of organic–inorganic hybrid flexible hardcoat films	K. Kuraoka <i>et al.</i> 3577
Corrosion and oxidation	Excimer laser surface treatment of magnesium alloy WE43 for corrosion resistance improvement	L. F. Guo <i>et al.</i> 3531
Crystal growth	Characterization of low angle grain boundaries in yttrium orthovanadate	J. B. Lebret <i>et al.</i> 3347
Defects	Characterization of low angle grain boundaries in yttrium orthovanadate	J. B. Lebret <i>et al.</i> 3347
	Comment on “Vacancy formation energy of small particles”	D. Xie <i>et al.</i> 3565
Deposition techniques	Electrochemical synthesis of conical Ag ₂ S nanostructures and their optical properties	R. Kumar <i>et al.</i> 3523
Electrochemistry	Excimer laser surface treatment of magnesium alloy WE43 for corrosion resistance improvement	L. F. Guo <i>et al.</i> 3531
Fiber technologies	Preparation and properties of silicon oxycarbide fibers	L. F. Chen <i>et al.</i> 3497
Fracture	Effect of multi-walled carbon nanotube reinforcement on the fracture behavior of a tetrafunctional epoxy	S. Ganguli <i>et al.</i> 3593
Grain boundaries	Characterization of low angle grain boundaries in yttrium orthovanadate	J. B. Lebret <i>et al.</i> 3347
Hardness	Power law indentation creep of Sn-5% Sb solder alloy	A. R. Geranmayeh <i>et al.</i> 3361
	Preparation and properties of organic–inorganic hybrid flexible hardcoat films	K. Kuraoka <i>et al.</i> 3577
Intercalation	Effect of O ₂ partial pressure and thickness on the gasochromic properties of sputtered V ₂ O ₅ films	H. Shanak <i>et al.</i> 3467
Interfaces	Effect of surface treatment of carbon fibers with gamma-ray radiation on mechanical performance of their composites	Y. Z. Wan <i>et al.</i> 3355
Laser processing	Excimer laser surface treatment of magnesium alloy WE43 for corrosion resistance improvement	L. F. Guo <i>et al.</i> 3531
Mechanical properties	Effect of surface treatment of carbon fibers with gamma-ray radiation on mechanical performance of their composites	Y. Z. Wan <i>et al.</i> 3355
	Power law indentation creep of Sn-5% Sb solder alloy	A. R. Geranmayeh <i>et al.</i> 3361
	A hybrid replication technique for the analysis of precipitate-boundary interactions in Ni-based superalloys	K. Song <i>et al.</i> 3403
	Microstructures and mechanical properties of injection molded 17-4PH stainless steel powder with nickel boride additions	H. Ö. Gülsøy <i>et al.</i> 3415
	Effect of multi-walled carbon nanotube reinforcement on the fracture behavior of a tetrafunctional epoxy	S. Ganguli <i>et al.</i> 3593
Metals and alloys	Power law indentation creep of Sn-5% Sb solder alloy	A. R. Geranmayeh <i>et al.</i> 3361
	A hybrid replication technique for the analysis of precipitate-boundary interactions in Ni-based superalloys	K. Song <i>et al.</i> 3403
	Microstructures and mechanical properties of injection molded 17-4PH stainless steel powder with nickel boride additions	H. Ö. Gülsøy <i>et al.</i> 3415
	Fabrication of high purity dense Ti ₂ AlC—Ti ₃ AlC ₂ composite by spark plasma sintering method	W. Zhou <i>et al.</i> 3559

(Continued)

Microstructure	A hybrid replication technique for the analysis of precipitate-boundary interactions in Ni-based superalloys	K. Song <i>et al.</i>	3403
	Microstructures and mechanical properties of injection molded 17-4PH stainless steel powder with nickel boride additions.....	H. Ö. Gülsøy <i>et al.</i>	3415
	Influence of argon plasma pretreatment on properties of liquid crystal polymer.....	B. Wang <i>et al.</i>	3535
	Fabrication of high purity dense Ti ₂ AlC—Ti ₃ AlC ₂ composite by spark plasma sintering method	W. Zhou <i>et al.</i>	3559
Modelling	New class of molecules predicted to exhibit non-linear optical properties	T. M. Cardozo <i>et al.</i>	3549
Moulding	Microstructures and mechanical properties of injection molded 17-4PH stainless steel powder with nickel boride additions.....	H. Ö. Gülsøy <i>et al.</i>	3415
Nanocomposites	Novel nanocomposite of carbon nanotube–nanoclay by direct growth of nanotubes on nanoclay surface.....	M. Lu <i>et al.</i>	3545
	Effect of multi-walled carbon nanotube reinforcement on the fracture behavior of a tetrafunctional epoxy	S. Ganguli <i>et al.</i>	3593
Nanomaterials	Electrochemical synthesis of conical Ag ₂ S nanostructures and their optical properties	R. Kumar <i>et al.</i>	3523
	Comment on “Vacancy formation energy of small particles”	D. Xie <i>et al.</i>	3565
	Comment on “Size effect on the cohesive energy of nanoparticle”—Extending the model available for embedded nanoparticle	D. Xie <i>et al.</i>	3567
Nonlinear properties	New class of molecules predicted to exhibit non-linear optical properties	T. M. Cardozo <i>et al.</i>	3549
Optical materials and properties	Effect of O ₂ partial pressure and thickness on the gasochromic properties of sputtered V ₂ O ₅ films	H. Shanak <i>et al.</i>	3467
	Electrochemical synthesis of conical Ag ₂ S nanostructures and their optical properties	R. Kumar <i>et al.</i>	3523
	New class of molecules predicted to exhibit non-linear optical properties	T. M. Cardozo <i>et al.</i>	3549
	A novel green light-emitting material containing both hole and electron transporting units	Y. Zou <i>et al.</i>	3561
	Synthesis, photo- and electroluminescence properties of a PPV derivative with di(ethylene oxide) segment in the backbone	Y. Zou <i>et al.</i>	3569
Phase diagrams	Infrared brazing Inconel 601 and 422 stainless steel using the 70Au-22Ni-8Pd braze alloy	Y. K. Yu <i>et al.</i>	3445
Polymers	A novel green light-emitting material containing both hole and electron transporting units	Y. Zou <i>et al.</i>	3561
	Synthesis, photo- and electroluminescence properties of a PPV derivative with di(ethylene oxide) segment in the backbone	Y. Zou <i>et al.</i>	3569
Sintering	Microstructures and mechanical properties of injection molded 17-4PH stainless steel powder with nickel boride additions.....	H. Ö. Gülsøy <i>et al.</i>	3415
Sol-gel preparation	Preparation and properties of silicon oxycarbide fibers	L. F. Chen <i>et al.</i>	3497
	Preparation and properties of organic–inorganic hybrid flexible hardcoat films	K. Kuraoka <i>et al.</i>	3577
	Nanostructured superhydrophobic surfaces	H. M. Shang <i>et al.</i>	3587
Surfaces	Comment on “Size effect on the cohesive energy of nanoparticle”—Extending the model available for embedded nanoparticle	D. Xie <i>et al.</i>	3567
	Nanostructured superhydrophobic surfaces	H. M. Shang <i>et al.</i>	3587
Thermal properties	Comment on “Size effect on the cohesive energy of nanoparticle”—Extending the model available for embedded nanoparticle	D. Xie <i>et al.</i>	3567
Thin and thick film coatings	Effect of O ₂ partial pressure and thickness on the gasochromic properties of sputtered V ₂ O ₅ films	H. Shanak <i>et al.</i>	3467
X-ray techniques	Influence of argon plasma pretreatment on properties of liquid crystal polymer	B. Wang <i>et al.</i>	3535
	Novel nanocomposite of carbon nanotube–nanoclay by direct growth of nanotubes on nanoclay surface.....	M. Lu <i>et al.</i>	3545