



## Keywords index

Abrasive wear resistance	142	Industrial application of cleaner production methods	188
Acoustic properties	127	Infiltration	26
Aging treatment	94	Kinetic crystallization	50
Al-Si-Cu	58	Laser micro-machining	111
Aluminum alloy	120	Laser treatment	142
Amorphous materials	42, 66	Magnesium alloys	94
Analysis and modelling	134	Manufacturing and processing	142
Biomaterials	134	Materials	9-94, 134
Bulk metallic glasses	66, 73, 81	Materials	9, 73, 156, 172
Carbide powder	142	Mechanical properties	9, 50, 58, 94
Ceramic performs	26	Metallic alloys	73, 81
Chaotic system modification	127	Metallic glasses	94, 156
Chemical Vapor Deposition	180	Microstructure	33
Cleaner production and biotechnology	188	Multicomponent coatings	156
Composite materials	120	Nanostructure coatings	88
Composites	26, 134	Non-destructive evaluation	127
Computational materials science	134, 196	Non-destructive testing	58
Computer aided teaching	196	Phases morphology	111
Corrosion resistance	120	Photovoltaics	180
Crack resistance	103	Polyazomethine thin film	180
Crystallization	42	Polymer photovoltaics	88
Die casting	73	Polymeric materials	164
DTA	50	Powder Injection Moulding	164
Duplex coatings	172	Powder metallurgy	103-127
Ecodesign algorithm	188	PVD coatings	33, 148, 172
Education and research trends	196	Recycling	188
Electrical properties	9, 111	Selective laser sintering	111
Electron microscopy	94	Soft magnetic properties	42
Engineering design	188	Solar cells	111
Engineering polymers	134	Structural relaxation	42
Fatigue assessment	88	Surface treatment	148
Fatigue destruction	127	Thermal properties	81
Fe-based alloys	81	Thermal stability	66
Feedstock	164	Thermo analysis	58
Finite Element Method	134	Thermographic method	88
Glass forming ability	66, 73, 81	Thin and thick coatings	148, 156, 172
High Power Diode Laser	142	Tool materials	33, 148, 164
High-strength steel	103	Training simulations	196
Hydrogen degradation	103		

Transmission line model	111		
Tribological properties	26	Welded joints	103
Vacuum evaporation 180			
Electronic structure	180	Zn-Al	50
Virtual laboratory	196		