

Mark Aindow

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

334
papers

6,199
citations

38
h-index

66
g-index

353
ext. papers

6,754
ext. citations

4.1
avg, IF

5.8
L-index

#	Paper	IF	Citations
334	Heterogeneous Distribution of Mechanical Properties of Single-Particle Cold Spray Impacts. <i>Journal of Thermal Spray Technology</i> , 2022 , 31, 498-507	2.5	0
333	A Promising Catalyst for the Dehydrogenation of Perhydro-Dibenzyltoluene: Pt/Al ₂ O ₃ Prepared by Supercritical CO ₂ Deposition. <i>Catalysts</i> , 2022 , 12, 489	4	0
332	Uniaxial compression of [001]-oriented CaFe ₂ As ₂ single crystals: the effects of microstructure and temperature on superelasticity Part I: Experimental observations. <i>Acta Materialia</i> , 2021 , 203, 116464	8.4	1
331	Uniaxial compression of [001]-oriented CaFe ₂ As ₂ single crystals: the effect of microstructure and temperature on superelasticity Part II: Modeling. <i>Acta Materialia</i> , 2021 , 203, 116462	8.4	
330	Precipitation phenomena in a powder-processed quasicrystal-reinforced Al-Cr-Mn-Co-Zr alloy. <i>Materials Characterization</i> , 2021 , 178, 111239	3.9	1
329	Three-dimensional particle size, shape, and internal porosity characterization: Application to five similar titanium alloy (Ti ₆ Al ₄ V) powders and comparison to two-dimensional measurements. <i>Additive Manufacturing</i> , 2021 , 44, 102060	6.1	
328	Pseudoelasticity of SrNiP Micropillar via Double Lattice Collapse and Expansion. <i>Nano Letters</i> , 2021 , 21, 7913-7920	11.5	
327	Thermal stability of quasicrystals in an icosahedral-phase-strengthened aluminum alloy. <i>Materials Characterization</i> , 2021 , 181, 111490	3.9	0
326	Effect of laser scan length on the microstructure of additively manufactured 17-4PH stainless steel thin-walled parts. <i>Additive Manufacturing</i> , 2020 , 35, 101302	6.1	7
325	Shock-induced deformation twinning and softening in magnesium single crystals. <i>Materials and Design</i> , 2020 , 194, 108884	8.1	8
324	New findings and current controversies in the reaction of ruthenium red and ammonium cerium(IV) nitrate: focus on the precipitated compound. <i>Catalysis Science and Technology</i> , 2020 , 10, 2491-2502	5.5	1
323	Thermally activated structural transformations in manganese oxide nanoparticles under air and argon atmospheres. <i>Journal of Materials Science</i> , 2020 , 55, 7247-7258	4.3	8
322	Highly Active Carbon Supported PtCu Electrocatalysts for PEMFCs by in situ Supercritical Deposition Coupled with Electrochemical Dealloying. <i>Fuel Cells</i> , 2020 , 20, 285-299	2.9	12
321	Controlling the Nature of Etched Si Nanostructures: High- versus Low-Load Metal-Assisted Catalytic Etching (MACE) of Si Powders. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 4787-4796	9.5	8
320	Corrosion phenomena in a powder-processed Al alloy containing icosahedral quasicrystalline dispersoids. <i>Corrosion Science</i> , 2020 , 177, 108970	6.8	6
319	Low-Load Metal-Assisted Catalytic Etching Produces Scalable Porosity in Si Powders. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 48969-48981	9.5	4
318	Multifunctional transition metal doped titanium dioxide reduced graphene oxide composites as highly efficient adsorbents and photocatalysts. <i>Microporous and Mesoporous Materials</i> , 2020 , 307, 110521	5.3	7

317	Microstructure/mechanical behavior relationships in upset-forged powder-processed Al alloys containing icosahedral quasicrystalline dispersoids. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 788, 139487	5.3	8
316	Surface states of gas-atomized Al 6061 powders [Effects of heat treatment. <i>Applied Surface Science</i> , 2020 , 534, 147643	6.7	2
315	Atomic layer adhesion of ferroelectric nanoparticles: a new approach to dielectric composites. <i>Journal of Materials Science</i> , 2020 , 55, 16063-16073	4.3	1
314	Mesoscale modeling of jet initiation behavior and microstructural evolution during cold spray single particle impact. <i>Acta Materialia</i> , 2020 , 182, 197-206	8.4	25
313	In Situ Heating to Investigate Phase Transformations in Individual Powder Particles of a Gas-Atomized Icosahedral-Phase-Strengthened Al Alloy. <i>Microscopy and Microanalysis</i> , 2019 , 25, 1432-1433	9.5	2
312	Effect of Part Placement Strategy on the Microstructure of Additively Manufactured 17-4PH Stainless Steel Thin-Wall Parts. <i>Microscopy and Microanalysis</i> , 2019 , 25, 2572-2573	0.5	
311	Supercritical Deposition Coupled with Ammonia Treatment: A New Route to Co-Promoted N-Doped Carbon Aerogels with High Oxygen Reduction Reaction Activity. <i>Energy Technology</i> , 2019 , 7, 1900450	3.5	7
310	Aerobic Self-Esterification of Alcohols Assisted by Mesoporous Manganese and Cobalt Oxide. <i>ChemCatChem</i> , 2019 , 11, 3413-3422	5.2	0
309	Surfactant selection as a strategy for tailoring the structure and properties of UCT manganese oxides. <i>Materials and Design</i> , 2019 , 180, 107902	8.1	3
308	Fabrication of a multi-phase porous high-temperature MoBiB alloy by in situ reaction synthesis. <i>Powder Metallurgy</i> , 2019 , 62, 258-266	1.9	3
307	Magnetic and tunable dielectric properties of DyCrO3 thin films. <i>Journal of Materials Science</i> , 2019 , 54, 8984-8994	4.3	7
306	Studies of thermally activated processes in gas-atomized Al alloy powders: in situ STEM heating experiments on FIB-cut cross sections. <i>Journal of Materials Science</i> , 2019 , 54, 9921-9932	4.3	7
305	In Situ Phase Transformation of Monodisperse Manganese Oxide Nanoparticles. <i>Microscopy and Microanalysis</i> , 2019 , 25, 1896-1897	0.5	
304	Localized Corrosion Phenomena in Powder-Processed Icosahedral-Phase-Strengthened Aluminum Alloys. <i>Microscopy and Microanalysis</i> , 2019 , 25, 752-753	0.5	
303	Development of quasicrystal morphology in gas-atomized icosahedral-phase-strengthened aluminum alloy powders. <i>Materials and Design</i> , 2019 , 182, 108094	8.1	12
302	Eutectic microstructures in dilute Al-Ce and Al-Co alloys. <i>Materials Characterization</i> , 2019 , 154, 269-276	3.9	11
301	Mechanical properties of supersonic-impacted Al6061 powder particles. <i>Scripta Materialia</i> , 2019 , 171, 52-56	5.6	6
300	Effect of Metal-Assisted Catalytic Etching (MACE) on Single-Crystal Si Wafers With Faceted Macropores. <i>Microscopy and Microanalysis</i> , 2019 , 25, 2124-2125	0.5	

299	Hierarchical Nanostructuring of Porous Silicon with Electrochemical and Regenerative Electroless Etching. <i>ACS Nano</i> , 2019 , 13, 13056-13064	16.7	7
298	Temperature calibration of TEM specimen heating holders by isothermal sublimation of silver nanocubes. <i>Ultramicroscopy</i> , 2019 , 196, 142-153	3.1	9
297	Crystallographically Determined Etching and Its Relevance to the Metal-Assisted Catalytic Etching (MACE) of Silicon Powders. <i>Frontiers in Chemistry</i> , 2018 , 6, 651	5	13
296	Comparison of virgin Ti-6Al-4V powders for additive manufacturing. <i>Additive Manufacturing</i> , 2018 , 21, 544-555	6.1	17
295	Constitutive modeling of high temperature flow behavior in a Ti-45Al-8Nb-2Cr-2Mn-0.2Y alloy. <i>Scientific Reports</i> , 2018 , 8, 5453	4.9	18
294	Corrosion, oxidation, erosion and performance of Ag/W-based circuit breaker contacts: A review. <i>Corrosion Science</i> , 2018 , 135, 12-34	6.8	29
293	Defect structures in solution-grown single crystals of the intermetallic compound Ag ₃ Sn. <i>Journal of Materials Science</i> , 2018 , 53, 5317-5328	4.3	2
292	Microstructure and preparation of an ultra-fine-grained W-Al ₂ O ₃ composite via hydrothermal synthesis and spark plasma sintering. <i>International Journal of Refractory Metals and Hard Materials</i> , 2018 , 72, 149-156	4.1	12
291	The effect of recycling on the oxygen distribution in Ti-6Al-4V powder for additive manufacturing. <i>Materials at High Temperatures</i> , 2018 , 35, 217-224	1.1	35
290	Mesoporous carbon aerogel supported PtCu bimetallic nanoparticles via supercritical deposition and their dealloying and electrocatalytic behaviour. <i>Catalysis Today</i> , 2018 , 310, 166-175	5.3	20
289	Effect of heat treatments on microstructural evolution of additively manufactured and wrought 17-4PH stainless steel. <i>Materials and Design</i> , 2018 , 156, 429-440	8.1	94
288	Unraveling the Mesoscale Evolution of Microstructure during Supersonic Impact of Aluminum Powder Particles. <i>Scientific Reports</i> , 2018 , 8, 10075	4.9	21
287	A Nanoindentation Study of the Plastic Deformation and Fracture Mechanisms in Single-Crystalline CaFe ₂ As ₂ . <i>Jom</i> , 2018 , 70, 1074-1080	2.1	2
286	Non-metallic inclusions in 17-4PH stainless steel parts produced by selective laser melting. <i>Materials and Design</i> , 2018 , 140, 153-162	8.1	47
285	FIB Milling strategies for TEM Sample Preparation of Spheroidal Powder Particles. <i>Microscopy and Microanalysis</i> , 2018 , 24, 826-827	0.5	2
284	Microstructure and Micromechanical Response in Gas-Atomized Al 6061 Alloy Powder and Cold-Sprayed Splats. <i>Journal of Thermal Spray Technology</i> , 2018 , 27, 1563-1578	2.5	20
283	Hierarchical Porous Silicon and Porous Silicon Nanowires Produced with Regenerative Electroless Etching (ReEtching) and Metal Assisted Catalytic Etching (MACE). <i>ECS Transactions</i> , 2018 , 86, 65-70	1	3
282	Effect of transition metal alloying elements on the deformation of Ti-44Al-8Nb-0.2B-0.2Y alloys. <i>Scientific Reports</i> , 2018 , 8, 14242	4.9	3

281	SEM Technique Based Automatic Analysis for Metal Powders and Defects in Additive Manufactured Components. <i>Microscopy and Microanalysis</i> , 2018 , 24, 652-653	0.5	
280	Effect of IrO ₂ /Pt, IrO ₂ , and Pt bottom electrodes on the structure and electrical properties of PZT based piezoelectric microelectromechanical system devices. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 11367-11377	2.1	4
279	Hydrogen annealing effects on local structures and oxidation states of atomic layer deposited SnO _x . <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2018 , 36, 031519	2.9	3
278	Insights into the plasticity of Ag ₃ Sn from density functional theory. <i>International Journal of Plasticity</i> , 2018 , 110, 57-73	7.6	3
277	Control of average particle size of carbon aerogel supported platinum nanoparticles by supercritical deposition. <i>Microporous and Mesoporous Materials</i> , 2017 , 245, 94-103	5.3	28
276	Focused ion beam sectioning studies of biomimetic hydroxyapatite coatings on Ti-6Al-4V substrates. <i>Surface and Coatings Technology</i> , 2017 , 313, 255-262	4.4	22
275	Ion-damage-free planarization or shallow angle sectioning of solar cells for mapping grain orientation and nanoscale photovoltaic properties. <i>Nanotechnology</i> , 2017 , 28, 185705	3.4	6
274	Strong, ductile, and thermally stable Cu-based metal-intermetallic nanostructured composites. <i>Scientific Reports</i> , 2017 , 7, 40409	4.9	4
273	Transformation of La _{0.65} Sr _{0.35} MnO ₃ in electrochemical water oxidation. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 8560-8568	6.7	14
272	Cold spray deposition of an icosahedral-phase-strengthened aluminum alloy coating. <i>Surface and Coatings Technology</i> , 2017 , 324, 57-63	4.4	29
271	Microstructural stability and phase transformations in electrodeposited cobalt-phosphorus coatings. <i>Journal of Alloys and Compounds</i> , 2017 , 719, 142-150	5.7	9
270	Salt fog corrosion behavior in a powder-processed icosahedral-phase-strengthened aluminum alloy. <i>Corrosion Science</i> , 2017 , 121, 133-138	6.8	12
269	Regenerative Electroless Etching of Silicon. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 624-627	6.4	25
268	Regenerative Electroless Etching of Silicon. <i>Angewandte Chemie</i> , 2017 , 129, 639-642	3.6	4
267	High-pressure torsion-induced phase transformations and grain refinement in Al/Ti composites. <i>Journal of Materials Science</i> , 2017 , 52, 12170-12184	4.3	18
266	Microstructural Study of the Heat-treated 17-4PH Stainless Steel Parts Prepared by Selective Laser Melting. <i>Microscopy and Microanalysis</i> , 2017 , 23, 2252-2253	0.5	1
265	Superelastic and micaceous deformation in the intermetallic compound CaFe ₂ As ₂ . <i>Scripta Materialia</i> , 2017 , 141, 10-14	5.6	7
264	Characterization of IrO _x sputtering for IrO ₂ and IrO ₂ /Pt bottom-electrode piezoelectric micro-electro-mechanical systems applications. <i>Thin Solid Films</i> , 2017 , 638, 127-137	2.2	6

263	Graphene Aerogel Supported Pt Electrocatalysts for Oxygen Reduction Reaction by Supercritical Deposition. <i>Electrochimica Acta</i> , 2017 , 250, 174-184	6.7	39
262	Focused Ion Beam Preparation of Specimens for Micro-Electro-Mechanical System-based Transmission Electron Microscopy Heating Experiments. <i>Microscopy and Microanalysis</i> , 2017 , 23, 708-716 ^{0.5}	0.5	16
261	Metalorganic solution deposition of lead zirconate titanate films onto an additively manufactured Ni-based superalloy. <i>Acta Materialia</i> , 2017 , 122, 352-358	8.4	5
260	Microstructural stability, defect structures and deformation mechanisms in a Ag ₃ Sn/Cu ₃ Sn alloy. <i>Journal of Materials Science</i> , 2017 , 52, 2944-2956	4.3	5
259	A Comparison of Ga FIB and Xe-Plasma FIB of Complex Al Alloys. <i>Microscopy and Microanalysis</i> , 2017 , 23, 288-289	0.5	10
258	Cross Sectional Analysis of Cation Doped Transition Metal Oxide Mesoporous Catalyst Materials. <i>Microscopy and Microanalysis</i> , 2017 , 23, 292-293	0.5	1
257	TEM Specimen Preparation for In Situ Heating Experiments Using FIB. <i>Microscopy and Microanalysis</i> , 2017 , 23, 294-295	0.5	1
256	Characterization of Dislocations in Single-Crystalline Ag ₃ Sn Intermetallic Alloys. <i>Microscopy and Microanalysis</i> , 2017 , 23, 760-761	0.5	
255	Studies of the Hierarchical Structure in UCT Manganese Oxides. <i>Microscopy and Microanalysis</i> , 2017 , 23, 1864-1865	0.5	2
254	Eutectic Solidification in Zn-Sn Binary Alloys: An Experiment for High Schools. <i>Microscopy and Microanalysis</i> , 2017 , 23, 2304-2305	0.5	
253	Synthesis of Ru/PDMS nano-composites via supercritical deposition. <i>Materials Chemistry and Physics</i> , 2016 , 180, 1-4	4.4	7
252	In Situ TEM Heating Experiments on PVP-Capped Silver Nano-Cubes. <i>Microscopy and Microanalysis</i> , 2016 , 22, 822-823	0.5	1
251	Solidification microstructures in Ag ₃ Sn/Cu ₃ Sn pseudo-binary alloys. <i>Journal of Materials Science</i> , 2016 , 51, 6474-6487	4.3	10
250	ALCHEMI studies of site occupancies in Cr-, Ni-, and Fe-substituted manganese cobaltite spinels. <i>Journal of Materials Science</i> , 2016 , 51, 158-170	4.3	3
249	Microstructural evolution in manganese cobaltite films grown on Crofer 22 APU substrates by pulsed laser deposition. <i>Surface and Coatings Technology</i> , 2016 , 286, 206-214	4.4	7
248	Modified Mesoporous Silica for Efficient Siloxane Capture. <i>Langmuir</i> , 2016 , 32, 2369-77	4	24
247	Electrostatically driven dielectric anomaly in mesoscopic ferroelectric/paraelectric bilayers. <i>Acta Materialia</i> , 2016 , 105, 68-74	8.4	19
246	Effects of Thermal Processing on Microstructure in P/M Superalloys. <i>Microscopy and Microanalysis</i> , 2016 , 22, 1958-1959	0.5	

245	Characterization of Gadolinium Doped Cerium (IV) Oxides Deposited by Reactive Spray Deposition Technology for Intermediate Temperature Fuel Cell Applications. <i>Microscopy and Microanalysis</i> , 2016 , 22, 1344-1345	0.5	1
244	TEM Sample Preparation of Ceramic Matrix Composites Using FIB. <i>Microscopy and Microanalysis</i> , 2016 , 22, 1836-1837	0.5	
243	Microstructural Transformations of La _{0.6} Sr _{0.4} MnO ₃ to nNano-layered Mn Oxide during Electrochemical Water Oxidation. <i>Microscopy and Microanalysis</i> , 2016 , 22, 1276-1277	0.5	
242	Electron Microscopy Analysis of 17-4 PH Powder for Additive Manufacturing. <i>Microscopy and Microanalysis</i> , 2016 , 22, 1768-1769	0.5	1
241	Switchable and tunable film bulk acoustic resonator fabricated using barium strontium titanate active layer and Ta ₂ O ₅ /SiO ₂ acoustic reflector. <i>Applied Physics Letters</i> , 2016 , 109, 052902	3.4	4
240	Extended Aging of Ag/W Circuit Breaker Contacts: Influence on Surface Structure, Electrical Properties, and UL Testing Performance. <i>Journal of Materials Engineering and Performance</i> , 2016 , 25, 91-101	1.6	2
239	Structure and mechanical properties in a powder-processed icosahedral-phase-strengthened aluminum alloy. <i>Scripta Materialia</i> , 2016 , 123, 51-54	5.6	19
238	Facet-dependent catalytic activity of MnO electrocatalysts for oxygen reduction and oxygen evolution reactions. <i>Chemical Communications</i> , 2015 , 51, 5951-4	5.8	77
237	Microstructure effects in braze joints formed between Ag/W electrical contacts and Sn-coated Cu using Cu ₆₀ Ag ₄₀ filler metal. <i>Journal of Materials Science</i> , 2015 , 50, 324-333	4.3	6
236	Microstructural effects of the reduction step in reactive consolidation of manganese cobaltite coatings on Crofer 22 APU. <i>Materials at High Temperatures</i> , 2015 , 32, 142-147	1.1	16
235	Influence of electric current on microstructure evolution in Ti/Al and Ti/TiAl ₃ during spark plasma sintering. <i>Journal of Alloys and Compounds</i> , 2015 , 648, 1097-1103	5.7	22
234	Electrochemical performance of fuel cell catalysts prepared by supercritical deposition: Effect of different precursor conversion routes. <i>Journal of Supercritical Fluids</i> , 2015 , 97, 154-164	4.2	18
233	Surface Degradation of Ag/W Circuit Breaker Contacts During Standardized UL Testing. <i>Journal of Materials Engineering and Performance</i> , 2015 , 24, 3251-3262	1.6	4
232	ALCHEMI Studies of Spinel Oxides for SOFC Interconnect Alloy Coatings. <i>Microscopy and Microanalysis</i> , 2015 , 21, 2277-2278	0.5	2
231	The stoichiometry of metal assisted etching (MAE) of Si in V ₂ O ₅ +HF and HOOH+HF solutions. <i>Electrochimica Acta</i> , 2015 , 158, 219-228	6.7	25
230	Phase stability in a powder-processed Al _{0.8} Mn _{0.2} Te alloy. <i>Journal of Materials Science</i> , 2014 , 49, 3742-3754	4.3	18
229	Substrate control of anisotropic resistivity in heteroepitaxial nanostructured arrays of cryptomelane manganese oxide on strontium titanate. <i>Small</i> , 2014 , 10, 66-72	11	3
228	Effect of heat-treatment on phase stability and grain coarsening in a powder-processed Al _{0.8} Ni _{0.2} Co _{0.2} Te alloy. <i>Journal of Materials Science</i> , 2014 , 49, 5866-5877	4.3	4

227	The effect of Mn _{1.5} Co _{1.5} O ₄ coatings on the development of near surface microstructure for Haynes 230 oxidized at 800°C in air. <i>Surface and Coatings Technology</i> , 2014 , 242, 109-117	4.4	14
226	EPMA Studies on Reactions Between Ti and Al during Spark Plasma Sintering. <i>Microscopy and Microanalysis</i> , 2014 , 20, 756-757	0.5	
225	Characterization of the Surface Layer of Ag/W Electrical Contacts. <i>Microscopy and Microanalysis</i> , 2014 , 20, 860-861	0.5	2
224	Analysis of Titanium Microalloying in As-Received and Oxidized Crofer [®] 22 APU. <i>Microscopy and Microanalysis</i> , 2014 , 20, 892-893	0.5	
223	Fractographic Analysis of Co-P-SiC Electrocomposite Coatings by Stereoscopic Reconstruction. <i>Microscopy and Microanalysis</i> , 2014 , 20, 1884-1885	0.5	
222	Effect of upset forging on microstructure and tensile properties in a devitrified Al ₈₀ Ni ₁₀ Co ₁₀ Alloy. <i>Journal of Materials Science</i> , 2013 , 48, 3841-3851	4.3	7
221	Selective hydrogenation of CO ₂ and CO to useful light olefins over octahedral molecular sieve manganese oxide supported iron catalysts. <i>Applied Catalysis B: Environmental</i> , 2013 , 132-133, 54-61	21.8	58
220	Formation of spinel reaction layers in manganese cobaltite coated Crofer22 APU for solid oxide fuel cell interconnects. <i>Journal of Power Sources</i> , 2013 , 227, 318-326	8.9	68
219	Effects of alloy heat treatment on oxidation kinetics and scale morphology for Crofer 22 APU. <i>Journal of Power Sources</i> , 2013 , 241, 756-767	8.9	36
218	A Sucrose-Mediated Sol-Gel Technique for the Synthesis of MgO _x /ZnO ₃ Nanocomposites. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 346-350	3.8	17
217	Thermodynamic Control of Metal Loading and Composition of Carbon Aerogel Supported Pt ₁₀ Cu Alloy Nanoparticles by Supercritical Deposition. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 6777-6787	3.8	36
216	High Resolution Fractography of Hydrogen-assisted Fracture in Iron-3 wt% Silicon 2013 , 623-632		
215	Carbon aerogel supported nickel nanoparticles and nanorods using supercritical deposition. <i>Journal of Supercritical Fluids</i> , 2012 , 66, 265-273	4.2	36
214	Microstructural Characteristics of Y ₂ O ₃ -MgO Composite Coatings Deposited by Suspension Plasma Spray. <i>Journal of Thermal Spray Technology</i> , 2012 , 21, 1309-1321	2.5	5
213	Discontinuous precipitation of ϵ Ru phase in Ni ₈₀ Ru alloys. <i>Journal of Materials Science</i> , 2012 , 47, 5701-5705	4.5	1
212	Aerogel-copper nanocomposites prepared using the adsorption of a polyfluorinated complex from supercritical CO ₂ . <i>Journal of Nanoparticle Research</i> , 2012 , 14, 1	2.3	24
211	Effects of microstructure on native oxide scale development and electrical characteristics of eutectic Cu ₆₀ La alloys. <i>Acta Materialia</i> , 2012 , 60, 851-859	8.4	4
210	Tomographic Reconstruction of Microstructures in Al-Ni-Y-Based Alloys. <i>Microscopy and Microanalysis</i> , 2011 , 17, 1856-1857	0.5	

209	Effects of Precursor Chemistry on the Structural Characteristics of Y ₂ O ₃ /MgO Nanocomposites Synthesized by a Combined Sol-Gel/Thermal Decomposition Route. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 372-381	3.8	23
208	A Foaming Esterification Sol-Gel Route for the Synthesis of Magnesia/Alumina Nanocomposites. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 367-371	3.8	27
207	Phase Homogeneity in Y ₂ O ₃ /MgO Nanocomposites Synthesized by Thermal Decomposition of Nitrate Precursors with Ammonium Acetate Additions. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 4207-4217	3.8	16
206	Electrical and tribological properties of a Ni-8%Ru alloy for contact applications. <i>Journal of Materials Science</i> , 2011 , 46, 6563-6570	4.3	7
205	Identification of Desirable Precursor Properties for Solution Precursor Plasma Spray. <i>Journal of Thermal Spray Technology</i> , 2011 , 20, 802-816	2.5	36
204	Characterization of the Fe-Doped Mixed-Valent Tunnel Structure Manganese Oxide KOMS-2. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 21610-21619	3.8	37
203	Adsorption of Pt(cod)me ₂ onto organic aerogels from supercritical solutions for the synthesis of supported platinum nanoparticles. <i>Journal of Supercritical Fluids</i> , 2011 , 56, 105-113	4.2	48
202	Phase Homogeneity in MgO/ZrO ₂ Nanocomposites Synthesized by a Combined Sol-Gel/Thermal Decomposition Route. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 3102-3109	3.8	15
201	Nanostructured arrays of semiconducting octahedral molecular sieves by pulsed-laser deposition. <i>Nature Materials</i> , 2010 , 9, 54-9	27	27
200	Base metal alloys with self-healing native conductive oxides for electrical contact materials. <i>Applied Physics Letters</i> , 2010 , 97, 152103	3.4	12
199	Effects of Precursor Chemistry on the Microstructural Characteristics of Sol-Gel/Combustion Synthesized Y ₂ O ₃ -MgO Nano-Composites. <i>Microscopy and Microanalysis</i> , 2010 , 16, 1692-1693	0.5	
198	Extraction replication studies of near-surface microstructures in laser-drilled samples of the powder metallurgy Ni-based superalloy IN100. <i>Materials Characterization</i> , 2010 , 61, 929-936	3.9	5
197	PtPd/BP2000 electrocatalysts prepared by sequential supercritical carbon dioxide deposition. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 11669-11680	6.7	40
196	Heteroepitaxial growth of nanoscale oxide shell/fiber superstructures by mild hydrothermal processes. <i>Small</i> , 2010 , 6, 988-92	11	16
195	Stability and work function of TiC _x N _{1-x} alloy surfaces: Density functional theory calculations. <i>Physical Review B</i> , 2009 , 80,	3.3	16
194	Synthesis of Novel Electrode Materials Using Supercritical Fluids. <i>ECS Transactions</i> , 2009 , 19, 9-21	1	9
193	Plasma Spray of Nano Composite Ceramics Using Solution Precursors and Combustion Synthesized Nano Powders. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1195, 277		
192	Polymorphism in the Laves-phase precipitates of a quinary Nb ₅₀ Mo ₂₀ Cr ₁₀ Al ₅ Bi alloy. <i>Scripta Materialia</i> , 2009 , 60, 72-75	5.6	10

191	Atomic site occupancies and mechanical response of the eutectic C14 and A15 phases in a quinary NbMoCrAlSi alloy. <i>Scripta Materialia</i> , 2009 , 60, 309-312	5.6	5
190	Nanoscale carbide precipitation in the recast layer of a percussion laser-drilled superalloy. <i>Scripta Materialia</i> , 2009 , 61, 943-946	5.6	12
189	Characterization of microstructural effects in a percussion laser-drilled powder metallurgy Ni-based superalloy. <i>Journal of Materials Science</i> , 2009 , 44, 680-684	4.3	8
188	Modification of carbon aerogel supports for PEMFC catalysts. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 8992-8997	6.7	30
187	Preparation of carbon black supported Pd, Pt and PdPt nanoparticles using supercritical CO ₂ deposition. <i>Journal of Supercritical Fluids</i> , 2009 , 50, 82-90	4.2	65
186	ZnO with Different Morphologies Synthesized by Solvothermal Methods for Enhanced Photocatalytic Activity. <i>Chemistry of Materials</i> , 2009 , 21, 2875-2885	9.6	391
185	Electron Microscopy Resources and Education at the Institute of Materials Science, University of Connecticut. <i>Microscopy and Microanalysis</i> , 2009 , 15, 1150-1151	0.5	
184	On the self-pinning character of synchro-Shockley dislocations in a Laves phase during strain rate cyclical compressions. <i>Scripta Materialia</i> , 2008 , 59, 788-791	5.6	9
183	Thickness dependence of electronic phase transitions in epitaxial V ₂ O ₃ films on (0001) LiTaO ₃ . <i>Applied Physics Letters</i> , 2008 , 93, 112109	3.4	31
182	Dielectric response and tunability of a dielectric-paraelectric composite. <i>Applied Physics Letters</i> , 2008 , 93, 102908	3.4	58
181	Cation ordering in epitaxial lead zirconate titanate films. <i>Applied Physics Letters</i> , 2008 , 93, 262903	3.4	8
180	VULCAN-SUPPORTED Pt ELECTROCATALYSTS FOR PEMFCs PREPARED USING SUPERCRITICAL CARBON DIOXIDE DEPOSITION. <i>Chemical Engineering Communications</i> , 2008 , 196, 194-203	2.2	16
179	Characterization of Metallurgical Effects in Laser-Drilling of Superalloys. <i>Microscopy and Microanalysis</i> , 2008 , 14, 558-559	0.5	5
178	Stress Relaxation by Cation Ordering in Epitaxial Lead Zirconate Titanate Films. <i>Microscopy and Microanalysis</i> , 2008 , 14, 450-451	0.5	
177	Microstructure and phase stability in a NbMoCrAlSi alloy. <i>Journal of Materials Science</i> , 2008 , 43, 7013-7025	4.5	3
176	Pt-based electrocatalysts for polymer electrolyte membrane fuel cells prepared by supercritical deposition technique. <i>Journal of Power Sources</i> , 2008 , 179, 532-540	8.9	61
175	Behavior of H ₂ chemisorption on Ru/TiO ₂ surface and its application in evaluation of Ru particle sizes compared with TEM and XRD analyses. <i>Applied Catalysis A: General</i> , 2008 , 335, 187-195	5.1	85
174	Microstructures and mechanical properties of NbTiTi alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 485, 359-366	5.3	33

173	Grain growth and particle pinning in a model Ni-based superalloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 479, 365-372	5.3	60
172	Shape Evolution of Single-Crystalline Mn ₂ O ₃ Using a Solvothermal Approach. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 14694-14697	3.8	49
171	The influence of pulse parameters on the laser drilling of hastelloy X 2007 ,		3
170	The mechanical properties and the deformation microstructures of the C15 Laves phase Cr ₂ Nb at high temperatures. <i>Acta Materialia</i> , 2007 , 55, 1873-1884	8.4	65
169	Decoration of multi-wall carbon nanotubes with platinum nanoparticles using supercritical deposition with thermodynamic control of metal loading. <i>Scripta Materialia</i> , 2007 , 56, 101-103	5.6	53
168	Grain Boundary Curvature in a Model Ni-Based Superalloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2007 , 38, 1-6	2.3	3
167	Accommodation of angular incompatibilities between interfacial facets during precipitate growth. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2006 , 37, 901-909	2.3	3
166	Accommodation of angular incompatibilities between interfacial facets during precipitate growth. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2006 , 37, 901-909	2.3	
165	Synthesis and Catalytic Activity of Cryptomelane-Type Manganese Dioxide Nanomaterials Produced by a Novel Solvent-Free Method.. <i>ChemInform</i> , 2006 , 37, no		1
164	Band-Edge Photoluminescence Recovery from Zinc-Blende CdSe Nanocrystals Synthesized at Room Temperature. <i>Advanced Functional Materials</i> , 2006 , 16, 345-350	15.6	17
163	Hydrothermal Growth of Manganese Dioxide into Three-Dimensional Hierarchical Nanoarchitectures. <i>Advanced Functional Materials</i> , 2006 , 16, 549-555	15.6	185
162	Hydrothermal Synthesis of Structure- and Shape-Controlled Manganese Oxide Octahedral Molecular Sieve Nanomaterials. <i>Advanced Functional Materials</i> , 2006 , 16, 1247-1253	15.6	195
161	Thermodynamic and electrostatic analysis of threading dislocations in epitaxial ferroelectric films. <i>Applied Physics Letters</i> , 2006 , 88, 102906	3.4	31
160	In situ synthesis of mixed-valent manganese oxide nanocrystals: an in situ synchrotron X-ray diffraction study. <i>Journal of the American Chemical Society</i> , 2006 , 128, 4570-1	16.4	77
159	The structure of ribbon borides in a Ti-44Al-4Nb-4Zr-1B alloy. <i>Intermetallics</i> , 2006 , 14, 759-769	3.5	35
158	Commensurate Intergrowths in Titanium Monoboride Precipitates. <i>Microscopy and Microanalysis</i> , 2006 , 12, 1068-1069	0.5	
157	Morphology and interfacial structure of gamma precipitates in the beta phase of a Ti-Al-Nb-Zr alloy. <i>Journal of Materials Science</i> , 2006 , 41, 611-619	4.3	11
156	Defect microstructures in epitaxial PbZr _{0.2} Ti _{0.8} O ₃ films grown on (001) SrTiO ₃ by pulsed laser deposition. <i>Journal of Materials Science</i> , 2006 , 41, 697-707	4.3	33

155	Accommodation of angular incompatibilities between interfacial facets during precipitate growth. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2006 , 37, 901-909	2.3	
154	Preparation and characterization of ruthenium/carbon aerogel nanocomposites via a supercritical fluid route. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 2617-24	3.4	77
153	Amine-assisted faceted etching of CdSe nanocrystals. <i>Journal of the American Chemical Society</i> , 2005 , 127, 2524-32	16.4	73
152	The structure of ternary compounds in a devitrified Al-rich Al ₈₀ Ni ₁₀ Cd alloy. <i>Intermetallics</i> , 2005 , 13, 741-748	3.5	8
151	The microstructural evolution of NbAlV ternary alloys. <i>Intermetallics</i> , 2005 , 13, 1157-1165	3.5	8
150	STRONG DEGRADATION OF PHYSICAL PROPERTIES AND FORMATION OF A DEAD LAYER IN FERROELECTRIC FILMS DUE TO INTERFACIAL DISLOCATIONS. <i>Integrated Ferroelectrics</i> , 2005 , 71, 67-80	0.8	18
149	Supported Platinum Nanoparticles by Supercritical Deposition. <i>Industrial & Engineering Chemistry Research</i> , 2005 , 44, 4161-4164	3.9	97
148	Synthesis and Catalytic Activity of Cryptomelane-Type Manganese Dioxide Nanomaterials Produced by a Novel Solvent-Free Method. <i>Chemistry of Materials</i> , 2005 , 17, 5382-5389	9.6	209
147	The Structure of Ribbon Borides in a Ti-44Al-4Nb-4Zr-1B Alloy. <i>Microscopy and Microanalysis</i> , 2005 , 11,	0.5	1
146	Investigation of the supercritical deposition of platinum nanoparticles into carbon aerogels. <i>Microporous and Mesoporous Materials</i> , 2005 , 80, 11-23	5.3	102
145	Phase formation during the devitrification of Al-rich melt-spun Al ₈₅ Ni ₈ Y ₅ B ₂ (Co,Fe) alloys. <i>Scripta Materialia</i> , 2005 , 52, 699-704	5.6	8
144	Control of Nanometer-Scale Tunnel Sizes of Porous Manganese Oxide Octahedral Molecular Sieve Nanomaterials. <i>Advanced Materials</i> , 2005 , 17, 805-809	24	140
143	Hydrodesulfurization of model diesel using Pt/Al ₂ O ₃ catalysts prepared by supercritical deposition. <i>Catalysis Today</i> , 2005 , 99, 365-373	5.3	24
142	Incorporation of fluorine ions into hydroxyapatite by a pH cycling method. <i>Journal of Materials Science: Materials in Medicine</i> , 2005 , 16, 447-53	4.5	24
141	Cd ₂ P ₂ Se ₆ nanolenses formed at a water/air interface. <i>Journal of Materials Science</i> , 2005 , 40, 4097-4100	4.3	1
140	Nucleation of stress-induced martensites in a Ti/Mo-based alloy. <i>Journal of Materials Science</i> , 2005 , 40, 2833-2836	4.3	46
139	A hybrid replication technique for the analysis of precipitate-boundary interactions in Ni-based superalloys. <i>Journal of Materials Science</i> , 2005 , 40, 3403-3407	4.3	8
138	Origin of pseudoelastic behavior in Ti/Mo-based alloys. <i>Applied Physics Letters</i> , 2005 , 87, 241909	3.4	38

137	Threading dislocation generation in epitaxial (Ba,Sr) TiO ₃ films grown on (001) LaAlO ₃ by pulsed laser deposition. <i>Applied Physics Letters</i> , 2004 , 84, 1742-1744	3.4	31
136	High-resolution transmission electron microscopy studies of planar defects in the magnetic superconductor RuSr ₂ EuCu ₂ O ₈ . <i>Applied Physics Letters</i> , 2004 , 85, 3217-3219	3.4	7
135	Pseudo-elastic deformation behavior in a Ti/Mo-based alloy. <i>Scripta Materialia</i> , 2004 , 50, 343-348	5.6	107
134	Effect of heat-treatment on the microstructure and hardness of a devitrified Al _{0.0Y} B _{0.0Gd} 0.0Ni _{0.0Fe} 0.0Co alloy. <i>Scripta Materialia</i> , 2004 , 51, 485-489	5.6	13
133	Interfacial Defects and Lamellar Decomposition in Titanium Aluminides. <i>Journal of Materials Science</i> , 2004 , 12, 293-302		3
132	Observation of tension/compression asymmetry in an Nb ₄₁ alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 387-389, 476-480	5.3	4
131	Nucleation of the lamellar decomposition in a Ti ₄₄ Al ₄ Nb ₄ Zr alloy. <i>Acta Materialia</i> , 2004 , 52, 191-197	8.4	29
130	Preparation of Platinum/Carbon Aerogel Nanocomposites Using a Supercritical Deposition Method. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 7716-7722	3.4	106
129	Extraction Replication of Carbides and Borides in the Ni-base Superalloy IN100. <i>Microscopy and Microanalysis</i> , 2004 , 10, 692-693	0.5	2
128	Synthesis, Characterization, and Catalytic Applications of Manganese Oxide Octahedral Molecular Sieve (OMS) Nanowires with a 2 D Tunnel Structure. <i>Chemistry of Materials</i> , 2004 , 16, 5327-5335	9.6	49
127	Size Control, Metal Substitution, and Catalytic Application of Cryptomelane Nanomaterials Prepared Using Cross-linking Reagents. <i>Chemistry of Materials</i> , 2004 , 16, 276-285	9.6	66
126	Phase stability and microstructure in devitrified Al-rich Al _{0.0Ni} alloys. <i>Intermetallics</i> , 2004 , 12, 349-362	3.5	37
125	HREM of Carbide and Silicide Precipitation in a TiAl-Based Alloy During Aging. <i>Microscopy and Microanalysis</i> , 2004 , 10, 702-703	0.5	2
124	HREM Studies on the Morphology of CdSe NCs Exposed to Amines. <i>Microscopy and Microanalysis</i> , 2004 , 10, 24-25	0.5	
123	Structural Transformation Induced by Ion-Milling in TiAl-Based Alloys. <i>Microscopy and Microanalysis</i> , 2004 , 10, 700-701	0.5	
122	HREM Study of Beta/Gamma Interfaces in a Water-Quenched Ti-44Al-4Nb-4Zr Alloy. <i>Microscopy and Microanalysis</i> , 2004 , 10, 288-289	0.5	
121	Zn diffusion induced precipitation along grain boundaries in Zn-coated NdFeB magnets. <i>Journal of Magnetism and Magnetic Materials</i> , 2003 , 261, 13-20	2.8	8
120	Measurement of epitaxial misorientations and related effects in thin films of YBa ₂ Cu ₃ O _{7-δ} grown on nominally (001)MgO substrates by pulsed laser deposition. <i>Thin Solid Films</i> , 2003 , 423, 33-40	2.2	2

119	Techniques for microstructural characterization of powder-processed nickel-based superalloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003 , 360, 390-395	5.3	33
118	Effect of self-accommodation on grain boundary populations in pure titanium. <i>Acta Materialia</i> , 2003 , 51, 2485-2503	8.4	192
117	Effects of Zn coating on the microstructure and magnetic properties of NdFeB magnets. <i>Journal of Alloys and Compounds</i> , 2003 , 351, 299-303	5.7	17
116	Effects of Alkali Metal and Ammonium Cation Templates on Nanofibrous Cryptomelane-type Manganese Oxide Octahedral Molecular Sieves (OMS-2). <i>Journal of Physical Chemistry B</i> , 2003 , 107, 9185-9194	3.4	99
115	Formation of self-assembled Cu-Al ₂ O ₃ nanocomposite. <i>Philosophical Magazine Letters</i> , 2003 , 83, 135-142	1	1
114	Precipitate orientation relationships and interfacial structures in duplex stainless steel Zeron-100. <i>Philosophical Magazine</i> , 2003 , 83, 1867-1887	1.6	30
113	Assembly of CdSe nanocrystals into well-ordered monolayers with a strong crystallographic texture. <i>Philosophical Magazine Letters</i> , 2003 , 83, 569-574	1	1
112	TEM Studies Of Devitrification Products in Al-Gd-Ni-(Fe) Alloys.. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 806, 256		4
111	Devitrification Mechanisms in Al-Y-Ni Glasses. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 806, 108		2
110	High-Resolution TEM Characterization of Carbon Aerogels as Catalyst Supports. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 800, 348		
109	□Precipitation Kinetics in P/M IN100. <i>Materials Science Forum</i> , 2003 , 426-432, 767-772	0.4	4
108	A Transmission Electron Microscopy Study of Dislocation Substructures in PLD-grown Epitaxial Films of (Ba,Sr)TiO ₃ on (001) LaAlO ₃ . <i>Materials Research Society Symposia Proceedings</i> , 2003 , 784, 271		
107	Characterization of the microstructure and phase equilibria calculations for the powder metallurgy superalloy IN100. <i>Journal of Materials Research</i> , 2003 , 18, 2653-2663	2.5	30
106	Microstructure And Ternary Phases In Al-rich Al-Y-Ni Alloys.. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 806, 208		1
105	Oxygen-stabilised partial amorphisation in a Zr ₅₀ Cu ₅₀ alloy. <i>Journal of Materials Science</i> , 2002 , 37, 745-751	1	8
104	Adoption of near-coincident-site lattice orientations by contacting monolayer rafts of metallic nanoparticles with different superlattice periodicities. <i>Philosophical Magazine Letters</i> , 2002 , 82, 21-26	1	3
103	Synthesis of Metal-doped Cryptomelane Nanomaterials using Cross-linking Reagents. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 755, 1		
102	Phase Formation in Ti (Ta)-Ni and Co-Ti Films Deposited on (001)Si in N ₂ Atmospheres.. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 745, 4101		

101	Crystallization of Glassy Powder from Aluminum-Rare Earth- Transition Metal Alloys. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 754, 1		2
100	Nucleation of the C40-to-C11 b transformation in magnetron-sputtered MoSi ₂ thin films. <i>Philosophical Magazine Letters</i> , 2002 , 82, 687-694	1	1
99	Magnesium Manganese Oxide Nanoribbons: Synthesis, Characterization, and Catalytic Application. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 9761-9768	3.4	46
98	Microstructure and mechanical behaviour of Nb ₅₀ Al ₅₀ alloys with 10-25 at.% Al and 20-40 at.% V: microstructural observations. <i>Intermetallics</i> , 2002 , 10, 1-12	3.5	12
97	Microstructure and mechanical behaviour of Nb ₅₀ Al ₅₀ alloys with 10-25 at.% Al and 20-40 at.% V: mechanical behaviour and deformation mechanisms. <i>Intermetallics</i> , 2002 , 10, 13-21	3.5	11
96	A transmission electron microscope study of microstructural development in magnetron-sputtered MoSi ₂ thin films. <i>Intermetallics</i> , 2002 , 10, 829-839	3.5	14
95	The Influence of Oxide Layers on the Initiation of Carbon Deposition on Stainless Steel. <i>Oxidation of Metals</i> , 2001 , 56, 231-250	1.6	19
94	Microstructural characteristics of the eutectoid mixture Zr ₂ Cu and Zr ₇ Cu ₁₀ . <i>Journal of Materials Science Letters</i> , 2001 , 20, 543-545		8
93	Phase Transformations in Equiatomic ZrCu Alloy. <i>Journal of Metastable and Nanocrystalline Materials</i> , 2001 , 10, 223-228	0.2	3
92	Microstructure of laser-ablated superconducting La ₂ CuO _{4-x} thin films on SrTiO ₃ . <i>Journal of Materials Research</i> , 2001 , 16, 3309-3316	2.5	7
91	Phase Transformations in Equiatomic ZrCu Alloy. <i>Materials Science Forum</i> , 2001 , 360-362, 223-228	0.4	3
90	The interaction between extended dislocations and antiphase domain boundaries I: superpartial separation and the yield stress. <i>Intermetallics</i> , 2001 , 9, 499-506	3.5	9
89	The interaction between extended dislocations and antiphase domain boundaries II: uncoupled superpartial dislocations and planar slip. <i>Intermetallics</i> , 2001 , 9, 507-514	3.5	4
88	Defect formation in Nd ₂ Fe ₁₄ B grains caused by Zn diffusion. <i>Philosophical Magazine Letters</i> , 2001 , 81, 233-241	1	2
87	Crystallographic Description for Nanoparticle Assemblies: Application to Cadmium Selenide Clusters. <i>Materials Research Society Symposia Proceedings</i> , 2001 , 635, C4.37.1		
86	Identifying the character of intrinsic stacking faults in the A15 compound Nb ₃ Al. <i>Philosophical Magazine Letters</i> , 2000 , 80, 519-524	1	4
85	The Effect of Extended Superdislocation / Domain Boundary Interactions in Ordered Intermetallic Compounds. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 652, 1		
84	The Effect of Etchant Composition on Film Structure during Laser-Assisted Porous Si Growth. <i>Physica Status Solidi A</i> , 2000 , 182, 87-91		7

83	Interfacial dislocation mechanism for diffusional phase transformations exhibiting martensitic crystallography: formation of TiAl + Ti ₃ Al lamellae. <i>Acta Materialia</i> , 2000 , 48, 1047-1053	8.4	62
82	Analysis of a 69.3° Vicinal HAGB in Pure Titanium. <i>Journal of Materials Science</i> , 2000 , 8, 17-25		1
81	On the role of the pore filling medium in photoluminescence from photochemically etched porous silicon. <i>Journal of Applied Physics</i> , 2000 , 88, 2472-2479	2.5	44
80	Orientalional and translational ordering of sub-monolayer films of passivated multiply-twinned gold clusters. <i>Journal Physics D: Applied Physics</i> , 2000 , 33, L23-L26	3	3
79	High-resolution electron microscopy of steps on misfitting lamellar β interfaces in a Ti-44at.% Al-8at.% Nb alloy. <i>Philosophical Magazine Letters</i> , 2000 , 80, 1-10	1	9
78	On the orientation relationships between A15 precipitates and the Nb-rich matrix in Nb-Al(-X) alloys. <i>Philosophical Magazine Letters</i> , 1999 , 79, 93-98	1	3
77	Self-assembly of size-selected colloidal metal clusters: Crystalline descriptions of non-close-packed arrangements. <i>Philosophical Magazine Letters</i> , 1999 , 79, 569-574	1	7
76	On the Effect of Antiphase Domain Boundaries on ALCHEMI. <i>Physica Status Solidi (B): Basic Research</i> , 1999 , 214, 237-243	1.3	5
75	A high-resolution electron microscopy study of steps on lamellar β interfaces in a low-misfit TiAl-based alloy. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1999 , 79, 2553-2575		27
74	The Mechanism of Mixed-Mode Phase Transformations. <i>Materials Research Society Symposia Proceedings</i> , 1999 , 586, 21		1
73	Dislocation processes during the plastic deformation of β -TiAl. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1999 , 79, 1045-1071		35
72	The effect of substrate-off-cut on the properties of epitaxial thin films of YBa ₂ Cu ₃ O ₇ grown by pulsed laser deposition. <i>Applied Surface Science</i> , 1998 , 127-129, 525-530	6.7	10
71	Analysis of a 69.3° Near-Twist Boundary in Titanium; A Comparison of Two- and Three- Dimensional Models for the Reference Structure. <i>Materials Science Forum</i> , 1998 , 294-296, 309-312	0.4	1
70	The Character of Steps on Gamma/Alpha-2 Interfaces in Lamellar TiAl-Based Alloys. <i>Materials Science Forum</i> , 1998 , 294-296, 239-242	0.4	3
69	The Character of Steps on Gamma/Alpha-2 Interfaces in a Low Misfit Lamellar TiAl-Based Alloy. <i>Materials Research Society Symposia Proceedings</i> , 1998 , 552, 1		
68	High-Temperature Creep of Nb-Al-V Alloys. <i>Materials Research Society Symposia Proceedings</i> , 1998 , 552, 1		
67	Magnetic noise in YBCO thin films and its relationship to growth morphology. <i>IEEE Transactions on Applied Superconductivity</i> , 1997 , 7, 1624-1627	1.8	
66	Analysis of the reference structure adopted by a mixed tilt-twist vicinal high-angle grain boundary in titanium. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1997 , 76, 871-888		4

65	Transmission Electron Microscopy Study of YBa ₂ Cu ₃ O _{7-x} Thin Film Multilayer Devices. <i>Materials Research Society Symposia Proceedings</i> , 1997 , 474, 107		
64	Reassessment of the constrained coincident-site-lattice model for reference structures in vicinal high-angle grain boundaries. <i>Philosophical Magazine Letters</i> , 1997 , 76, 25-32	1	5
63	The effect of selected process parameters on laser ablated YBCO thin films on SrTiO ₃ substrates. <i>Journal of Alloys and Compounds</i> , 1997 , 251, 123-128	5.7	1
62	Mapping the variations in properties of PLD films of YBCO deposited over large areas. <i>Journal of Alloys and Compounds</i> , 1997 , 251, 172-175	5.7	
61	The effects of Al substitution on the microstructure and properties of laser-ablated epitaxial YBa ₂ Cu ₃ O ₇ films on (001) MgO. <i>Physica C: Superconductivity and Its Applications</i> , 1997 , 274, 117-124	1.3	3
60	Microstructures and deformation behaviour in Nb/10at.% Al/20at.% V alloys. <i>Acta Materialia</i> , 1997 , 45, 4923-4938	8.4	12
59	The effect of finely dispersed particles on primary recrystallisation textures in AlMnSi alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1997 , 225, 9-21	5.3	20
58	Deformation behaviour of the C15 Laves phase Cr ₂ Nb. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1997 , 233, 44-49	5.3	22
57	Topographical development and misfit relief in laser-ablated heteroepitaxial YBa ₂ Cu ₃ O ₇ thin films. <i>Journal of Crystal Growth</i> , 1997 , 172, 145-155	1.6	33
56	Structure of a 12.29° near-tilt grain boundary in titanium. <i>Philosophical Magazine Letters</i> , 1996 , 73, 217-224		2
55	The application of pettifer structure maps to ternary additions in Nb ₃ Al-based alloys. <i>Scripta Materialia</i> , 1996 , 34, 227-234	5.6	6
54	The Mechanical Behavior and Deformation Mechanisms of Nb-Al-V Alloys. <i>Materials Research Society Symposia Proceedings</i> , 1996 , 460, 671		
53	Structural imaging of mechanically alloyed remanence-enhanced Sm ₂ Fe ₁₇ N ₃ /Fe. <i>Journal of Magnetism and Magnetic Materials</i> , 1996 , 157-158, 79-80	2.8	6
52	Instrumental effects on in situ electrochemical STM studies: an investigation of a current surge induced Pd deposit on HOPG. <i>Microscopy Research and Technique</i> , 1996 , 34, 87-95	2.8	
51	Hydrogen-assisted stable crack growth in iron-3 wt% silicon steel. <i>Acta Materialia</i> , 1996 , 44, 3125-3140	8.4	31
50	Precipitation and migration of point defects in MOCVD Cd Hg _{1-x} Te. <i>Journal of Crystal Growth</i> , 1996 , 159, 1096-1099	1.6	3
49	Identification of the Reference Structure for a High Angle Grain Boundary in Titanium. <i>Materials Science Forum</i> , 1996 , 207-209, 289-292	0.4	1
48	In situ electrochemical scanning probe microscopy corrosion studies on duplex stainless steel in aqueous NaCl solutions. <i>Corrosion Engineering Science and Technology</i> , 1996 , 31, 139-146		8

47	Misfit dislocations in laser-ablated heteroepitaxial YBa ₂ Cu ₃ O _{7-δ} on MgO(001). <i>Philosophical Magazine Letters</i> , 1996 , 74, 267-272	1	5
46	Stacking-fault energy in the C15 Laves phase Cr ₂ Nb. <i>Philosophical Magazine Letters</i> , 1996 , 74, 129-136	1	13
45	Effects of low-power plasma treatment on polyethylene surfaces. <i>Surface and Interface Analysis</i> , 1995 , 23, 319-327	1.5	72
44	A study of surface cross-hatch and misfit dislocation structure in In _{0.15} Ga _{0.85} As/GaAs grown by chemical beam epitaxy. <i>Journal of Crystal Growth</i> , 1995 , 149, 1-11	1.6	48
43	The role of the initial nucleation stage in microstructural development for CdTe grown on heat-cleaned 2 \times off (001)GaAs by metalorganic chemical vapour deposition. <i>Journal of Crystal Growth</i> , 1995 , 154, 251-261	1.6	6
42	A study of the Pd/highly oriented pyrolytic graphite electrodeposition system by in situ electrochemical scanning tunnelling microscopy. <i>Journal of Electroanalytical Chemistry</i> , 1995 , 395, 117-126	4.1	19
41	Formation and microstructural development of TiSi ₂ in (111)Si by Ti ion implantation and annealing at 950 $^{\circ}$ C. <i>Journal of Materials Research</i> , 1995 , 10, 891-899	2.5	14
40	Annealing twins in dilute Al[sbnd]Mn[sbnd]Si alloys. <i>Philosophical Magazine Letters</i> , 1995 , 72, 193-198	1	9
39	. <i>IEEE Transactions on Applied Superconductivity</i> , 1995 , 5, 1214-1217	1.8	4
38	The origins of growth spirals on laser-ablated YBa ₂ Cu ₃ O _{7-δ} thin films. <i>Philosophical Magazine Letters</i> , 1994 , 70, 47-53	1	24
37	Development of anisotropic microtwin distributions in GaAs grown on 4 \times off (001) Si by molecular beam epitaxy. <i>Applied Physics Letters</i> , 1994 , 65, 1903-1905	3.4	10
36	The influence of substrate surface preparation on the microstructure of CdTe grown on (001) GaAs by metalorganic chemical vapour deposition. <i>Journal of Crystal Growth</i> , 1994 , 135, 409-422	1.6	16
35	Influence of Substrate Preparation on the Two-Stage MOCVD of CdTe on (001)GaAs. <i>Materials Research Society Symposia Proceedings</i> , 1994 , 340, 581		1
34	On the origins of forbidden 100-type spots in electron diffraction patterns from the A15 compounds Nb ₃ Al, Cr ₃ Si and V ₃ Si. <i>Philosophical Magazine Letters</i> , 1994 , 69, 23-30	1	2
33	Langmuir-Blodgett Films of Calcium Stearate. <i>Materials Research Society Symposia Proceedings</i> , 1994 , 351, 97		1
32	Dislocation Motion in α TiAl Studied by in situ Straining Experiments in the Hvem. <i>Materials Research Society Symposia Proceedings</i> , 1994 , 364, 47		14
31	An HREM study of the ionic conductor strontium lithium β alumina. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1994 , 69, 643-654		1
30	Analysis of the dislocation network at a low-angle near-twist boundary in zinc. <i>Scripta Metallurgica Et Materialia</i> , 1993 , 29, 811-816		4

29	Observation of a metastable B2 phase in rapidly solidified ribbons of Nb ₃ Al alloys. <i>Scripta Metallurgica Et Materialia</i> , 1993 , 29, 1271-1274		19
28	A Modified Approach to the Modelling of Grain Boundary Structure in Materials with an Hexagonal Crystal Structure. <i>Materials Research Society Symposia Proceedings</i> , 1993 , 319, 251		3
27	Microstructures, Defects and Deformation Mechanisms in Vanadium Modified Nb ₃ Al. <i>Materials Research Society Symposia Proceedings</i> , 1993 , 322, 453		3
26	Microscopic studies of YBCO single crystals. <i>Journal of Crystal Growth</i> , 1993 , 128, 762-766	1.6	2
25	Geometry and interface structure of island nuclei for GaSb buffer layers grown on (001) GaAs by metalorganic vapour phase epitaxy. <i>Journal of Crystal Growth</i> , 1993 , 133, 168-174	1.6	24
24	Deformation mechanisms in intermetallic compounds based on Nb ₃ Al. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1993 , 170, 1-10	5.3	26
23	The Use of Electrochemical Scanning Tunneling Microscopy to Study the Initial Stages of Electrodeposition in situ; Overpotential Deposition of Pb and Pt on HOPG. <i>Transactions of the Institute of Metal Finishing</i> , 1992 , 70, 171-176	1.3	3
22	Atomic Force Microscopy of Growth Features on Epitaxial CdHgTe Films. <i>Materials Research Society Symposia Proceedings</i> , 1992 , 280, 153		
21	Defect Anisotropy in Mvope CdTe/GaAs. <i>Materials Research Society Symposia Proceedings</i> , 1992 , 280, 425		
20	The Stability of B2 Compounds in Ti-Modified Nb-Al Alloys. <i>Materials Research Society Symposia Proceedings</i> , 1992 , 288, 243		12
19	Planar Growth Faults in Nb ₃ Al. <i>Materials Research Society Symposia Proceedings</i> , 1992 , 288, 263		2
18	Dislocations and Slip Systems in V ₃ Si. <i>Materials Research Society Symposia Proceedings</i> , 1992 , 288, 477		4
17	Deformation Mechanisms and Mechanical Properties of B2 Compounds in Ti-Modified Nb-Al Alloys. <i>Materials Research Society Symposia Proceedings</i> , 1992 , 288, 573		5
16	Use of ferrofluids to obtain magnetic domain images in AFM. <i>Microscopy Research and Technique</i> , 1992 , 23, 98-9	2.8	2
15	Concerning the dissociation of grown-in dislocations in melt spun ribbons of the intermetallic compound Nb ₃ Al. <i>Philosophical Magazine Letters</i> , 1991 , 64, 59-65	1	19
14	On epitaxial misorientations. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1991 , 63, 667-694		23
13	Threading dislocations in chemical-vapour-deposited β -SiC on (001)Si. <i>Philosophical Magazine Letters</i> , 1990 , 62, 239-246	1	4
12	Compatibility of Potential Reinforcing Ceramics with Ni and Fe Aluminides. <i>Materials Research Society Symposia Proceedings</i> , 1990 , 194, 379		3

11	A Comparative Study of the Nanocrystalline Material Produced by Sliding Wear and Inert Gas Condensation. <i>Materials Research Society Symposia Proceedings</i> , 1990 , 206, 593		13
10	Metastable Phases and Defect Microstructures in Melt-Spun Ribbons of Nb ₃ Al. <i>Materials Research Society Symposia Proceedings</i> , 1990 , 209, 89		2
9	Interfacial Structure in Heteroepitaxial Silicon on Sapphire. <i>Journal of the American Ceramic Society</i> , 1990 , 73, 1136-1143	3.8	10
8	On the shape of edge-dislocation loops in NiAl. <i>Philosophical Magazine Letters</i> , 1990 , 62, 317-322	1	6
7	On the extension of substrate dislocations into heteroepitaxial deposits. <i>Philosophical Magazine Letters</i> , 1990 , 62, 139-141	1	3
6	On the influence of stoichiometry and purity on the deformation mechanisms in the intermetallic compound TiAl. <i>Scripta Metallurgica Et Materialia</i> , 1990 , 24, 1105-1108		16
5	The Formation of Helical Dislocations in Silicon Substrates During Epitaxial Deposition of β -SiC. <i>Materials Research Society Symposia Proceedings</i> , 1989 , 162, 445		
4	An Electron Microscopy Study of the Microstructure and Microarchitecture of the Strombus Gigas Shell. <i>Materials Research Society Symposia Proceedings</i> , 1989 , 174, 117		6
3	Defects in Large-Misfit Heteroepitaxy. <i>Materials Research Society Symposia Proceedings</i> , 1988 , 116, 267		8
2	The Effect of Rapid Thermal Annealing on the Dislocation Structure of Silicon on Sapphire. <i>Materials Research Society Symposia Proceedings</i> , 1988 , 138, 373		10
1	Hexagonal crystallography and interphase boundary dislocations. <i>Scripta Metallurgica</i> , 1987 , 21, 971-974		12