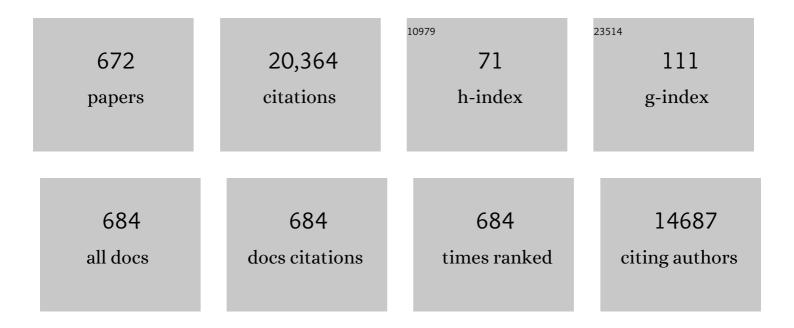
Jeff De Hosson

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/3634591/publications.pdf Version: 2024-02-01



IFFF DF HOSSON

#	Article	IF	CITATIONS
1	Plasticity in small-sized metallic systems: Intrinsic versus extrinsic size effect. Progress in Materials Science, 2011, 56, 654-724.	16.0	1,508
2	Analysis of coaxial laser cladding processing conditions. Surface and Coatings Technology, 2005, 197, 127-136.	2.2	363
3	Secondary phases in AlxCoCrFeNi high-entropy alloys: An in-situ TEM heating study and thermodynamic appraisal. Acta Materialia, 2017, 131, 206-220.	3.8	292
4	Nanostructure and properties of TiC/a-C:H composite coatings. Acta Materialia, 2005, 53, 4505-4521.	3.8	264
5	Effects of size on the mechanical response of metallic glasses investigated through in situ TEM bending and compression experiments. Acta Materialia, 2010, 58, 189-200.	3.8	246
6	Electron diffraction and high-resolution transmission electron microscopy of the high temperature crystal structures of GexSb2Te3+x (x=1,2,3) phase change material. Journal of Applied Physics, 2002, 92, 3584-3590.	1.1	229
7	Functionally graded materials produced by laser cladding. Acta Materialia, 2000, 48, 2617-2624.	3.8	214
8	Oxidation-induced crack healing in Ti3AlC2 ceramics. Scripta Materialia, 2008, 58, 13-16.	2.6	198
9	In situtransmission electron microscopy study of the crystallization of Ge2Sb2Te5. Journal of Applied Physics, 2004, 95, 924-932.	1.1	187
10	Incipient plasticity during nanoindentation at grain boundaries in body-centered cubic metals. Acta Materialia, 2005, 53, 4665-4676.	3.8	181
11	Thick Co-based coating on cast iron by side laser cladding: Analysis of processing conditions and coating properties. Surface and Coatings Technology, 2007, 201, 5875-5883.	2.2	170
12	Ti3SiC2: A damage tolerant ceramic studied with nano-indentations and transmission electron microscopy. Acta Materialia, 2003, 51, 2859-2872.	3.8	165
13	Reactive wetting of liquid metals on ceramic substrates. Acta Materialia, 1996, 44, 421-426.	3.8	163
14	Grinding of WC–Co hardmetals. Wear, 2001, 248, 187-196.	1.5	157
15	Effect of surface roughness on magnetic domain wall thickness, domain size, and coercivity. Journal of Applied Physics, 2001, 89, 1325-1330.	1.1	152
16	The evolution of microstructure in a laser clad TiB–Ti composite coating. Acta Materialia, 2003, 51, 831-845.	3.8	149
17	Intrinsic and extrinsic size effects in the deformation of metallic glass nanopillars. Acta Materialia, 2012, 60, 889-898.	3.8	144
18	Effects of solute Mg on grain boundary and dislocation dynamics during nanoindentation of Al–Mg thin films. Acta Materialia, 2004, 52, 5783-5790.	3.8	141

#	Article	IF	CITATIONS
19	Dilution effects in laser cladding of Ni–Cr–B–Si–C hardfacing alloys. Materials Letters, 2012, 84, 69-72.	1.3	140
20	Optical properties of gold films and the Casimir force. Physical Review B, 2008, 77, .	1.1	136
21	Microstructural control of TiC/a-C nanocomposite coatings with pulsed magnetron sputtering. Acta Materialia, 2008, 56, 696-709.	3.8	135
22	Interfaces within strain gradient plasticity: Theory and experiments. Acta Materialia, 2006, 54, 5077-5085.	3.8	133
23	SiCp/Ti6Al4V functionally graded materials produced by laser melt injection. Acta Materialia, 2002, 50, 2035-2051.	3.8	132
24	Strengthening mechanisms in high entropy alloys: Fundamental issues. Scripta Materialia, 2020, 187, 148-156.	2.6	131
25	Sliding wear resistance of metal matrix composite layers prepared by high power laser. Surface and Coatings Technology, 2005, 197, 303-315.	2.2	124
26	Laser-induced periodic surface structures: Fingerprints of light localization. Physical Review B, 2012, 85, .	1.1	122
27	Additive Manufacturing of High-Entropy Alloys by Laser Processing. Jom, 2016, 68, 1810-1818.	0.9	122
28	High entropy alloys: Key issues under passionate debate. Scripta Materialia, 2020, 188, 54-58.	2.6	122
29	Stress analysis and microstructure of PVD monolayer TiN and multilayer TiN/(Ti,Al)N coatings. Thin Solid Films, 2003, 429, 179-189.	0.8	116
30	Nanostructured TiC/a-C coatings for low friction and wear resistant applications. Surface and Coatings Technology, 2005, 198, 44-50.	2.2	114
31	BCC-FCC interfacial effects on plasticity and strengthening mechanisms in high entropy alloys. Acta Materialia, 2018, 157, 83-95.	3.8	113
32	State of residual stress in laser-deposited ceramic composite coatings on aluminum alloys. Acta Materialia, 2007, 55, 1203-1214.	3.8	110
33	Wetting on rough surfaces. Acta Materialia, 2001, 49, 3533-3538.	3.8	109
34	Enhanced Strain in Functional Nanoporous Gold with a Dual Microscopic Length Scale Structure. ACS Nano, 2012, 6, 3734-3744.	7.3	109
35	Mechanical properties of attapulgite clay reinforced polyurethane shape-memory nanocomposites. European Polymer Journal, 2009, 45, 1904-1911.	2.6	108
36	Relation between microstructure and adhesion of hot dip galvanized zinc coatings on dual phase steel. Acta Materialia, 2012, 60, 2973-2981.	3.8	106

#	Article	IF	CITATIONS
37	Investigation on the formation of tungsten carbide in tungsten-containing diamond like carbon coatings. Surface and Coatings Technology, 2003, 162, 288-293.	2.2	105
38	On the specific surface area of nanoporous materials. Acta Materialia, 2011, 59, 7488-7497.	3.8	104
39	Laser melt injection in aluminum alloys: on the role of the oxide skin. Acta Materialia, 2000, 48, 4225-4233.	3.8	103
40	On the evolution of surface roughness during deformation of polycrystalline aluminum alloys. Acta Materialia, 2005, 53, 4043-4050.	3.8	103
41	An electron microscopy appraisal of tensile fracture in metallic glasses. Acta Materialia, 2008, 56, 1762-1773.	3.8	103
42	In situ TEM nanoindentation and dislocation-grain boundary interactions: a tribute to David Brandon. Journal of Materials Science, 2006, 41, 7704-7719.	1.7	101
43	Microstructure and wear studies of laser clad Al-Si/SiC(p) composite coatings. Surface and Coatings Technology, 2007, 201, 9497-9505.	2.2	101
44	Metallic Muscles at Work: High Rate Actuation in Nanoporous Gold/Polyaniline Composites. ACS Nano, 2013, 7, 4299-4306.	7.3	100
45	Influence of random roughness on the Casimir force at small separations. Physical Review B, 2008, 77, .	1.1	99
46	Supramolecular Route to Well-Ordered Metal Nanofoams. ACS Nano, 2011, 5, 6339-6348.	7.3	94
47	Reaction layers around SiC particles in Ti: an electron microscopy study. Acta Materialia, 1999, 47, 3105-3116.	3.8	92
48	Deformation and failure mechanism of nano-composite coatings under nano-indentation. Surface and Coatings Technology, 2006, 200, 6718-6726.	2.2	91
49	The mechanical properties and the deformation microstructures of the C15 Laves phase Cr2Nb at high temperatures. Acta Materialia, 2007, 55, 1873-1884.	3.8	88
50	Microstructural characterization of AISI 431 martensitic stainless steel laser-deposited coatings. Journal of Materials Science, 2011, 46, 3405-3414.	1.7	87
51	Carbon Nanotubes Encapsulating Superconducting Single-Crystalline Tin Nanowires. Nano Letters, 2006, 6, 1131-1135.	4.5	86
52	Thermo-mechanical properties of polystyrene-based shape memory nanocomposites. Journal of Materials Chemistry, 2010, 20, 3442.	6.7	86
53	Nanoporous silver as electrochemical actuator. Scripta Materialia, 2013, 69, 195-198.	2.6	86
54	High temperature healing of Ti2AlC: On the origin of inhomogeneous oxide scale. Scripta Materialia, 2011. 65, 135-138.	2.6	85

#	Article	IF	CITATIONS
55	Detection of grain-boundary resistance to slip transfer using nanoindentation. Materials Letters, 2005, 59, 3192-3195.	1.3	84
56	Residual stress analysis in Co-based laser clad layers by laboratory X-rays and synchrotron diffraction techniques. Surface and Coatings Technology, 2006, 201, 533-542.	2.2	84
57	Nanosized metal clusters: Challenges and opportunities. Jom, 2004, 56, 40-45.	0.9	83
58	Intrinsic size effects in the mechanical response of taper-free nanopillars of metallic glass. Physical Review B, 2011, 83, .	1.1	83
59	Microstructure and properties of laser clad coatings studied by orientation imaging microscopy. Acta Materialia, 2010, 58, 6763-6772.	3.8	82
60	On the crystallization of thin films composed of Sb3.6Te with Ge for rewritable data storage. Journal of Applied Physics, 2004, 95, 4714-4721.	1.1	81
61	Effects of crystal structure and grain orientation on the roughness of deformed polycrystalline metals. Acta Materialia, 2006, 54, 2813-2821.	3.8	81
62	Smallest 90° domains in epitaxial ferroelectric films. Applied Physics Letters, 2007, 91, .	1.5	81
63	Local Stress States and Microstructural Damage Response Associated with Deformation Twins in Hexagonal Close Packed Metals. Crystals, 2018, 8, 1.	1.0	81
64	Influence of roughness on capillary forces between hydrophilic surfaces. Physical Review E, 2008, 78, 031606.	0.8	80
65	Atomic structure of stoichiometric and non-stoichiometric grain boundaries in A3B compounds with L12 structure. Acta Metallurgica, 1988, 36, 2729-2741.	2.1	79
66	Influence of surface roughness on the wetting angle. Journal of Materials Research, 1995, 10, 1984-1992.	1.2	79
67	Interaction between lattice dislocations and grain boundaries in f.c.c. and ordered compounds: A computer simulation. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1991, 64, 951-969.	0.7	75
68	Hybrid Polyamide/Silica Nanocomposites: Synthesis and Mechanical Testing. Macromolecular Materials and Engineering, 2002, 287, 106-110.	1.7	75
69	Gas-phase synthesis of magnesium nanoparticles: A high-resolution transmission electron microscopy study. Applied Physics Letters, 2006, 89, 161914.	1.5	75
70	Properties and characterization of multilayers of carbides and diamond-like carbon. Surface and Coatings Technology, 2001, 142-144, 707-713.	2.2	74
71	Tribological and mechanical properties of high power laser surface-treated metallic glasses. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 471, 155-164.	2.6	73
72	Microstructural characterization of laser nitrided titanium. Scripta Metallurgica Et Materialia, 1995, 33, 567-573.	1.0	72

#	Article	IF	CITATIONS
73	Epitaxial TbMnO ₃ thin films on SrTiO ₃ substrates: a structural study. Journal of Physics Condensed Matter, 2009, 21, 182001.	0.7	71
74	Five-fold branched Si particles in laser clad AlSi functionally graded materials. Acta Materialia, 2001, 49, 561-571.	3.8	69
75	Size dependent plasticity and damage response in multiphase body centered cubic high entropy alloys. Acta Materialia, 2018, 150, 104-116.	3.8	69
76	Influence of atomic force microscope tip–sample interaction on the study of scaling behavior. Applied Physics Letters, 1997, 71, 1347-1349.	1.5	68
77	Failure mechanisms of closed-cell aluminum foam under monotonic and cyclic loading. Acta Materialia, 2006, 54, 4465-4472.	3.8	68
78	The effect of cladding speed on phase constitution and properties of AISI 431 stainless steel laser deposited coatings. Surface and Coatings Technology, 2011, 205, 5235-5239.	2.2	68
79	Influence of deposition parameters on the structure and mechanical properties of nanocomposite coatings. Surface and Coatings Technology, 2006, 201, 590-598.	2.2	67
80	Tribological behavior of W-DLC coated rubber seals. Surface and Coatings Technology, 2008, 202, 1869-1875.	2.2	67
81	Wear and friction performance of PTFE filled epoxy composites with a high concentration of SiO2 particles. Wear, 2015, 322-323, 171-180.	1.5	67
82	Grain boundary segregation and precipitation in aluminium alloys. Scripta Materialia, 2001, 44, 281-286.	2.6	66
83	Advanced TiC/a-C:H nanocomposite coatings deposited by magnetron sputtering. Journal of the European Ceramic Society, 2006, 26, 565-570.	2.8	66
84	On the geometry of coating layers formed by overlap. Surface and Coatings Technology, 2014, 242, 54-61.	2.2	65
85	Three-dimensional micron-porous graphene foams for lightweight current collectors of lithium-sulfur batteries. Carbon, 2019, 144, 713-723.	5.4	65
86	Ni-toughened nc-TiN/a-SiNx nanocomposite thin films. Surface and Coatings Technology, 2005, 200, 1530-1534.	2.2	64
87	Ultra-high temperature ablation behavior of Ti2AlC ceramics under an oxyacetylene flame. Journal of the European Ceramic Society, 2011, 31, 855-862.	2.8	64
88	Effects of the Alloy Composition on Phase Constitution and Properties of Laser Deposited Ni-Cr-B-Si Coatings. Physics Procedia, 2013, 41, 302-311.	1.2	64
89	Oxide-scale growth on Cr2AlC ceramic and its consequence for self-healing. Scripta Materialia, 2013, 69, 203-206.	2.6	64
90	Deformation mechanisms in TiN/(Ti,Al)N multilayers under depth-sensing indentation. Acta Materialia, 2006, 54, 1857-1862.	3.8	62

#	Article	IF	CITATIONS
91	TEM characterization of a Cr/Ti/TiC graded interlayer for magnetron-sputtered TiC/a-C:H nanocomposite coatings. Acta Materialia, 2005, 53, 3925-3934.	3.8	61
92	Very high-cycle fatigue failure in micron-scale polycrystalline silicon films: Effects of environment and surface oxide thickness. Journal of Applied Physics, 2007, 101, 013515.	1.1	60
93	Nanosized iron clusters investigated with in situ transmission electron microscopy. Applied Physics Letters, 2003, 82, 197-199.	1.5	59
94	In-situ microscopy investigation of failure mechanisms in Al/SiCp metal matrix composite produced by laser embedding. Scripta Materialia, 2000, 42, 589-595.	2.6	58
95	Microstructure, mechanical properties and cutting performance of superhard (Ti,Si,Al)N nanocomposite films grown by d.c. reactive magnetron sputtering. Surface and Coatings Technology, 2004, 177-178, 459-468.	2.2	58
96	Electron Microscopy Characterization of Ni-Cr-B-Si-C Laser Deposited Coatings. Microscopy and Microanalysis, 2013, 19, 120-131.	0.2	58
97	Early stages of oxidation of Ti3AlC2 ceramics. Materials Chemistry and Physics, 2008, 112, 762-768.	2.0	57
98	The Prediction of Coating Geometry from Main Processing Parameters in Laser Cladding. Physics Procedia, 2014, 56, 220-227.	1.2	57
99	Superlattice intrinsic stacking faults in γ′ precipitates. Scripta Metallurgica, 1985, 19, 1123-1128.	1.2	56
100	Deformation and reconstruction mechanisms in coarse-grained superplastic Al–Mg alloys. Acta Materialia, 2006, 54, 3827-3833.	3.8	56
101	Microstructure and Phase Formation in a Rapidly Solidified Laser-Deposited Ni-Cr-B-Si-C Hardfacing Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 878-892.	1.1	56
102	Vortex pinning by natural defects in thin films of YBa2Cu3O7â^îr. Superconductor Science and Technology, 2002, 15, 395-404.	1.8	55
103	Magnetic and structural properties of Co nanocluster thin films. Physical Review B, 2005, 71, .	1.1	55
104	Molecule-by-Molecule Writing Using a Focused Electron Beam. ACS Nano, 2012, 6, 10076-10081.	7.3	55
105	On the deposition and properties of DLC protective coatings on elastomers: A critical review. Surface and Coatings Technology, 2014, 258, 677-690.	2.2	54
106	In-situ strain observation in high power laser cladding. Surface and Coatings Technology, 2009, 203, 3189-3196.	2.2	53
107	Reversible strain by physisorption in nanoporous gold. Applied Physics Letters, 2011, 99, .	1.5	53
108	Fine-tuning the feature size of nanoporous silver. CrystEngComm, 2012, 14, 5402.	1.3	53

#	Article	lF	CITATIONS
109	Pt/ZrO ₂ Prepared by Atomic Trapping: An Efficient Catalyst for the Conversion of Glycerol to Lactic Acid with Concomitant Transfer Hydrogenation of Cyclohexene. ACS Catalysis, 2019, 9, 9953-9963.	5.5	53
110	A comparison between different theories predicting the stacking fault energy from extended nodes. Scripta Metallurgica, 1980, 14, 285-288.	1.2	52
111	The influence of strain-induced damage on the mechanical response of open-cell aluminum foam. Acta Materialia, 2008, 56, 609-618.	3.8	52
112	TEM study of the initial oxide scales of Ti2AlC. Acta Materialia, 2011, 59, 5216-5223.	3.8	52
113	The fcc-bcc crystallographic orientation relationship in AlxCoCrFeNi high-entropy alloys. Materials Letters, 2016, 176, 29-32.	1.3	52
114	Determination of the crystal structure of icosahedral Al-Cu-Li. Physical Review B, 1988, 38, 1681-1685.	1.1	51
115	Coalescence aspects of cobalt nanoparticles duringin situhigh-temperature annealing. Journal of Applied Physics, 2006, 99, 024307.	1.1	51
116	Adhesion improvement of hydrogenated diamond-like carbon thin films by pre-deposition plasma treatment of rubber substrate. Surface and Coatings Technology, 2009, 203, 1964-1970.	2.2	51
117	On the optimum resolution of transmission-electron backscattered diffraction (t-EBSD). Ultramicroscopy, 2016, 160, 256-264.	0.8	51
118	Fracture of open- and closed-cell metal foams. Journal of Materials Science, 2005, 40, 5821-5828.	1.7	49
119	Interface fracture behavior of zinc coatings on steel: Experiments and finite element calculations. Surface and Coatings Technology, 2006, 201, 4311-4316.	2.2	49
120	Influence of capping layers on the crystallization of doped SbxTe fast-growth phase-change films. Journal of Applied Physics, 2006, 100, 123511.	1.1	49
121	Magnetron reactively sputtered Ti-DLC coatings on HNBR rubber: The influence of substrate bias. Surface and Coatings Technology, 2008, 202, 4939-4944.	2.2	49
122	Modification of Cu surface with picosecond laser pulses. Applied Surface Science, 2014, 303, 118-124.	3.1	49
123	Pressure and temperature induced electrical resistance change in nano-carbon/epoxy composites. Composites Science and Technology, 2015, 115, 1-8.	3.8	49
124	Influence of hardness and roughness on the tribological performance of TiC/a-C nanocomposite coatings. Surface and Coatings Technology, 2010, 205, 2624-2632.	2.2	48
125	Multiscale modeling of charge-induced deformation of nanoporous gold structures. Journal of the Mechanics and Physics of Solids, 2014, 66, 1-15.	2.3	48
126	Fracture and microstructure of open cell aluminum foam. Journal of Materials Science, 2005, 40, 5813-5819.	1.7	47

#	Article	IF	CITATIONS
127	Pull-in characteristics of electromechanical switches in the presence of Casimir forces: Influence of self-affine surface roughness. Physical Review B, 2005, 72, .	1.1	47
128	Nanoscale domain evolution in thin films of multiferroic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>TbMnO</mml:mtext></mml:mrow><mml Physical Review B, 2009, 80, .</mml </mml:msub></mml:mrow></mml:math 	:mn>3 <td>ıml:mn></td>	ıml:mn>
129	Magnetic versus structural properties of Co nanocluster thin films: A magnetic force microscopy study. Applied Physics Letters, 2004, 84, 556-558.	1.5	46
130	Elimination of Start/Stop defects in laser cladding. Surface and Coatings Technology, 2012, 206, 2403-2409.	2.2	46
131	Influence of surface roughness on the adhesion of elastic films. Physical Review E, 2003, 67, 021604.	0.8	45
132	Incipient plasticity in metallic thin films. Applied Physics Letters, 2007, 90, 181924.	1.5	45
133	Actuating and Sensing Properties of Nanoporous Gold. Journal of Nanoscience and Nanotechnology, 2012, 12, 4951-4955.	0.9	45
134	HRTEM study of Co7W6 and its typical defect structure. Acta Materialia, 2000, 48, 2703-2712.	3.8	44
135	Metal/ceramic interfaces: a microscopic analysis. Surface and Interface Analysis, 2001, 31, 637-658.	0.8	44
136	Toughening mechanism for Ni–Cr–B–Si–C laser deposited coatings. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 582, 305-315.	2.6	44
137	On the microstructure of tungsten disulfide films alloyed with carbon and nitrogen. Thin Solid Films, 2005, 484, 389-395.	0.8	43
138	On the localized surface plasmon resonance modes in nanoporous gold films. Journal of Applied Physics, 2014, 115, .	1.1	43
139	Microstructural design of hardfacing Ni–Cr–B–Si–C alloys. Acta Materialia, 2013, 61, 6061-6070.	3.8	42
140	Breakdown of the Coulomb friction law in TiCâ^•a-C:H nanocomposite coatings. Journal of Applied Physics, 2006, 100, 114309.	1.1	41
141	Transition from Casimir to van der Waals force between macroscopic bodies. Applied Physics Letters, 2008, 93, .	1.5	41
142	Laser engineered surfaces from glass forming alloy powder precursors: Microstructure and wear. Surface and Coatings Technology, 2009, 203, 1833-1843.	2.2	41
143	Mechanical strength of highly porous ceramics. Physical Review B, 1991, 43, 3794-3796.	1.1	40
	Monodomain strained ferroelectric <mml:math <="" td="" xmlns:mml="http://www.w3.org/1998/Math/MathML"><td></td><td></td></mml:math>		

144 display="inline"><mml:mrow><mml:mrow><mml:mrow><mml:mtext>PbTiO</mml:mtext></mml:mrow><mml:mn>Bx/mml:math /mml:n
145 films: Phase transition and critical thickness study. Physical Review B, 2008, 78, .

#	Article	IF	CITATIONS
145	Effect of process parameters on mechanical and tribological performance of pulsed-DC sputtered TiC/a-C:H nanocomposite films. Surface and Coatings Technology, 2010, 205, 2633-2642.	2.2	40
146	Microstructural characterization of Co-based coating deposited by low power pulse laser cladding. Journal of Materials Science, 2013, 48, 2714-2723.	1.7	40
147	Thermodynamic calculations for liquid alloys with an application to sodium-caesium. Journal of Physics F: Metal Physics, 1980, 10, 1681-1692.	1.6	39
148	X-ray measurement of residual stresses in laser surface melted Ti-6Al-4V alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1996, 208, 143-147.	2.6	39
149	Binding of helium to metallic impurities in tungsten; experiments and computer simulations. Journal of Nuclear Materials, 1985, 127, 56-66.	1.3	38
150	In situnuclear magnetic resonance investigation of deformation-generated vacancies in aluminum. Physical Review B, 1995, 52, 125-133.	1.1	38
151	Influence of random roughness on the adhesion between metal surfaces due to capillary condensation. Applied Physics Letters, 2007, 91, .	1.5	38
152	Metal–ceramic interfaces studied with high-resolution transmission electron microscopy. Acta Materialia, 1999, 47, 4077-4092.	3.8	37
153	Temperature rise due to fast-moving dislocations. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 2001, 81, 1099-1120.	0.7	37
154	Measurement of dispersive forces between evaporated metal surfaces in the range below 100nm. Applied Physics Letters, 2008, 92, 054101.	1.5	37
155	On the surface topography of ultrashort laser pulse treated steel surfaces. Applied Surface Science, 2011, 258, 1555-1560.	3.1	37
156	Size effects on plasticity in high-entropy alloys. Journal of Materials Research, 2018, 33, 3055-3076.	1.2	37
157	Polarity-dependent reversible resistance switching in Ge–Sb–Te phase-change thin films. Applied Physics Letters, 2007, 91, .	1.5	36
158	Atomic force microscopy imaging of transition metal layered compounds: A twoâ€dimensional stick–slip system. Applied Physics Letters, 1995, 67, 347-349.	1.5	35
159	Microstructure of reaction zone in WCp/duplex stainless steels matrix composites processing by laser melt injection. Surface and Coatings Technology, 2008, 202, 2113-2120.	2.2	35
160	Roughness of Microspheres for Force Measurements. Langmuir, 2008, 24, 7528-7531.	1.6	35
161	Advances in transmission electron microscopy: In situ straining and in situ compression experiments on metallic glasses. Microscopy Research and Technique, 2009, 72, 250-260.	1.2	35
162	Structural changes in polytetrafluoroethylene molecular chains upon sliding against steel. Journal of Materials Science, 2014, 49, 1484-1493.	1.7	35

#	Article	IF	CITATIONS
163	The interaction of He with a edge dislocation in W and Mo. Solid State Communications, 1976, 18, 479-482.	0.9	34
164	The coherent phase diagram of Cu-Ni-Zn. Acta Metallurgica, 1980, 28, 1339-1347.	2.1	34
165	Metal-ceramic interfaces in laser coated aluminium alloys. Acta Metallurgica Et Materialia, 1994, 42, 1155-1162.	1.9	34
166	Healing performance of Ti2AlC ceramic studied with in situ microcantilever bending. Journal of the European Ceramic Society, 2013, 33, 383-391.	2.8	34
167	Influence of energetic ion bombardment on W-C:H coatings deposited with W and WC targets. Surface and Coatings Technology, 2005, 200, 1142-1146.	2.2	33
168	Metallic muscles and beyond: nanofoams at work. Journal of Materials Science, 2016, 51, 615-634.	1.7	33
169	Influence of spring stiffness and anisotropy on stickâ€slip atomic force microscopy imaging. Journal of Applied Physics, 1996, 80, 623-632.	1.1	32
170	Roughness effects on magnetic properties of thin films. Physica B: Condensed Matter, 2000, 283, 199-202.	1.3	32
171	Stacking faults in the Co7W6 isomorph of the \hat{l} phase. Scripta Materialia, 2001, 45, 333-340.	2.6	32
172	Some aspects of nanocrystalline nickel and zinc ferrites processed using microemulsion technique. Materials Science and Technology, 2003, 19, 1617-1621.	0.8	32
173	Wear resistance of WCp/Duplex Stainless Steel metal matrix composite layers prepared by laser melt injection. Surface and Coatings Technology, 2008, 202, 4758-4765.	2.2	32
174	Influence of powder particle injection velocity on the microstructure of Al–12Si/SiCp coatings produced by laser cladding. Surface and Coatings Technology, 2009, 204, 285-290.	2.2	32
175	Influence of Surface Roughness on the Transfer Film Formation and Frictional Behavior of TiC/a-C Nanocomposite Coatings. Tribology Letters, 2011, 41, 97-101.	1.2	32
176	Magnesium surface segregation and oxidation in Al–Mg alloys studied with local probe scanning Auger-scanning electron microscopy. Applied Surface Science, 1999, 152, 250-258.	3.1	31
177	High-resolution transmission electron microscopy imaging of misfit-dislocation networks at Cu-MgO and Cu-MnO interfaces. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1999, 79, 2083-2101.	0.7	31
178	High-speed dislocations in high strain-rate deformations. Computational Materials Science, 2001, 20, 19-27.	1.4	31
179	Aspects of mathematical morphology. Advances in Imaging and Electron Physics, 2003, , 119-194.	0.1	31
180	Protrusion formation and surface porosity development on thermally annealed helium implanted copper. Nuclear Instruments & Methods in Physics Research B, 2004, 217, 262-275	0.6	31

#	Article	IF	CITATIONS
181	Growth of nanocomposite films: From dynamic roughening to dynamic smoothening. Acta Materialia, 2009, 57, 5156-5164.	3.8	31
182	Effect of Ta on the microstructure and hardness of Stellite 6 coating deposited by low power pulse laser treatments. Surface and Coatings Technology, 2012, 213, 278-284.	2.2	31
183	Effect of pulse scheme on the microstructural evolution, residual stress state and mechanical performance of resistance spot welded DP1000-GI steel. Science and Technology of Welding and Joining, 2018, 23, 649-658.	1.5	31
184	Optical absorption in TiNxOy ompounds. Journal of Applied Physics, 1987, 61, 4606-4611.	1.1	30
185	Title is missing!. Journal of Materials Science, 2002, 37, 5065-5073.	1.7	30
186	Fracture of Metal Foams: In-situ Testing and Numerical Modeling. Advanced Engineering Materials, 2004, 6, 429-431.	1.6	30
187	Microstresses and microstructure in thick cobalt-based laser deposited coatings. Surface and Coatings Technology, 2007, 201, 6363-6371.	2.2	30
188	Influence of dielectric properties on van der Waals/Casimir forces in solid-liquid systems. Physical Review B, 2009, 79, .	1.1	30
189	Tunable self-organization of nanocomposite multilayers. Applied Physics Letters, 2010, 96, .	1.5	30
190	Flexible diamond-like carbon films on rubber: On the origin of self-acting segmentation and film flexibility. Acta Materialia, 2012, 60, 5526-5535.	3.8	30
191	Electrochromic artificial muscles based on nanoporous metal-polymer composites. Applied Physics Letters, 2013, 103, 193101.	1.5	30
192	Effect of carbon concentration and argon flow rate on the microstructure and triboperformance of magnetron sputtered WS2/a-C coatings. Surface and Coatings Technology, 2017, 332, 142-152.	2.2	30
193	Investigations on the structure of liquid Na-Cs alloys. Physica B: Physics of Condensed Matter & C: Atomic, Molecular and Plasma Physics, Optics, 1979, 97, 338-364.	0.9	29
194	Wear induced hardening of laser processed chromium-carbon steel. Scripta Metallurgica, 1987, 21, 627-632.	1.2	29
195	Atomic structure of (111) twist grain boundaries in f.c.c metals. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1990, 61, 305-327.	0.7	29
196	Interactions between lattice dislocations and grain boundaries in Ni3Al investigated by means of in situ TEM and computer modelling experiments. Acta Metallurgica Et Materialia, 1992, 40, 2511-2521.	1.9	29
197	Structural properties of Au and Ag nanoclusters embedded in MgO. Nuclear Instruments & Methods in Physics Research B, 2002, 191, 442-446.	0.6	29
198	Microstructure and Properties of TiB/Ti-6Al-4V Coatings Produced With Laser Treatments. Journal of Materials Engineering and Performance, 2004, 13, 406-412.	1.2	29

#	Article	IF	CITATIONS
199	Determination of the sp3 C content of a-C films through EELS analysis in the TEM. Surface and Coatings Technology, 2005, 200, 739-743.	2.2	29
200	Nanoscale deformation mechanism of TiC/a-C nanocomposite thin films. Journal of Applied Physics, 2009, 105, .	1.1	29
201	A versatile model for the prediction of complex geometry in 3D direct laser deposition. Surface and Coatings Technology, 2016, 307, 292-300.	2.2	29
202	Recent advances in nanoporous materials for renewable energy resources conversion into fuels. Surface and Coatings Technology, 2018, 347, 320-336.	2.2	29
203	Nucleation of helium precipitates in nickel observed by HDS. Journal of Nuclear Materials, 1984, 122, 560-564.	1.3	28
204	The Influence of Cell Shape Anisotropy on the Tensile Behavior of Open Cell Aluminum Foam. Advanced Engineering Materials, 2008, 10, 877-881.	1.6	28
205	Flexible protective diamond-like carbon film on rubber. Scripta Materialia, 2010, 63, 649-652.	2.6	28
206	Focused helium and neon ion beam induced etching for advanced extreme ultraviolet lithography mask repair. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2014, 32, .	0.6	28
207	Diamond and pore structure observed in wood charcoal. Journal of Wood Science, 2001, 47, 414-416.	0.9	27
208	On the fcc→D019 transformation in Co–W alloys. Acta Materialia, 2002, 50, 4511-4526.	3.8	27
209	Influence of electron beam exposure on crystallization of phase-change materials. Journal of Applied Physics, 2007, 101, 053529.	1.1	27
210	A methodology to determine anisotropy effects in non-cubic coatings. Surface and Coatings Technology, 2007, 201, 6911-6916.	2.2	27
211	On the determination of local residual stress gradients by the slit milling method. Journal of Materials Science, 2015, 50, 3646-3655.	1.7	27
212	Interaction of vacancies with implanted metal atoms in tungsten observed by means of thermal helium desorption spectometry and perturbed angular correlation measurements. Radiation Effects, 1984, 84, 131-158.	0.4	26
213	Solution hardening in Alî—,Zn alloys mean jump distance and activation length of moving dislocations. Acta Metallurgica, 1986, 34, 1571-1581.	2.1	26
214	Wetting kinetics of liquid aluminium on an Al2O3 surface. Journal of Materials Science, 1995, 30, 3571-3575.	1.7	26
215	Growth front roughening of room-temperature deposited copper nanocluster films. Applied Physics Letters, 2002, 81, 1089-1091.	1.5	26
216	A modified blister test to study the adhesion of thin coatings based on local helium ion implantation. Thin Solid Films, 2005, 471, 170-176.	0.8	26

#	Article	IF	CITATIONS
217	Nanometer-scale lithography on microscopically clean graphene. Nanotechnology, 2011, 22, 505303.	1.3	26
218	Electro-Responsive Polystyrene Shape Memory Polymer Nanocomposites. Nanoscience and Nanotechnology Letters, 2012, 4, 814-820.	0.4	26
219	Redistribution of implanted noble gas atoms by self-interstitials in molybdenum and nickel. Nuclear Instruments & Methods in Physics Research, 1983, 209-210, 1055-1061.	0.9	25
220	Tempering of steel during laser treatment. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1990, 21, 987-995.	1.4	25
221	Oxidation effects during laser cladding of aluminium with SiC/Al powders. Journal of Materials Science, 1990, 25, 2335-2338.	1.7	25
222	Microstructure and mechanical properties of a laser treated Al alloy. Acta Metallurgica Et Materialia, 1993, 41, 1989-1998.	1.9	25
223	Formation, growth and dissociation of He bubbles in Al2O3. Nuclear Instruments & Methods in Physics Research B, 2004, 216, 149-155.	0.6	25
224	Strength of submicrometer diameter pillars of metallic glasses investigated within situtransmission electron microscopy. Philosophical Magazine Letters, 2009, 89, 633-640.	0.5	25
225	<i>In situ</i> compression study of taper-free metallic glass nanopillars. Applied Physics Letters, 2011, 98, .	1.5	25
226	Direct synthesis of metal nanoparticles with tunable porosity. Journal of Materials Chemistry, 2012, 22, 4588.	6.7	25
227	Gold Complexes for Focused-Electron-Beam-Induced Deposition. Langmuir, 2014, 30, 12097-12105.	1.6	25
228	EBSP study of reaction zone in SiC/Al metal matrix composite prepared by laser melt injection. Journal of Materials Science, 2001, 36, 4845-4849.	1.7	24
229	Polarization retention loss in PbTiO3 ferroelectric films due to leakage currents. Journal of Applied Physics, 2007, 102, 084103.	1.1	24
230	Fixation of osteochondral fragments in the human knee using Meniscus Arrows®. Knee Surgery, Sports Traumatology, Arthroscopy, 2011, 19, 183-188.	2.3	24
231	Flexible diamond-like carbon films on rubber: Friction and the effect of viscoelastic deformation of rubber substrates. Acta Materialia, 2012, 60, 7216-7225.	3.8	24
232	Apparently homogeneous but intrinsically intermittent flow of taper-free metallic glass nanopillars. Scripta Materialia, 2012, 67, 947-950.	2.6	24
233	Template-Free Synthesis of Nanoporous Nickel and Alloys as Binder-Free Current Collectors of Li Ion Batteries. ACS Applied Nano Materials, 2018, 1, 2206-2218.	2.4	24
234	Electron microscopic study on pyrolysis of CCA (chromium, copper and arsenic oxide)-treated wood. Journal of Analytical and Applied Pyrolysis, 2003, 68-69, 635-643.	2.6	23

#	Article	IF	CITATIONS
235	Structure and property evaluation of a vacuum plasma sprayed nanostructured tungsten–hafnium carbide bulk composite. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 477, 350-357.	2.6	23
236	Magnetic and dielectric properties of <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>YbMnO</mml:mtext></mml:mrow><mml thin films. Physical Review B, 2008, 78, .</mml </mml:msub></mml:mrow></mml:math>	:mnl≱B <td>nml213n≻</td>	nml 213 n≻
237	Microstructure and chemical bonding of DLC films deposited on ACM rubber by PACVD. Surface and Coatings Technology, 2011, 205, S75-S78.	2.2	23
238	The role of electron-stimulated desorption in focused electron beam induced deposition. Beilstein Journal of Nanotechnology, 2013, 4, 474-480.	1.5	23
239	A reaction coating on aluminium alloys by laser processing. Scripta Metallurgica Et Materialia, 1993, 28, 219-224.	1.0	22
240	Formation and stability of rocksalt ZnO nanocrystals in MgO. Applied Physics Letters, 2007, 91, 201906.	1.5	22
241	Surface roughening of metal–polymer systems during plastic deformation. Acta Materialia, 2007, 55, 2757-2764.	3.8	22
242	Tribological performance of DLC films deposited on ACM rubber by PACVD. Surface and Coatings Technology, 2011, 205, 4838-4843.	2.2	22
243	Microstructure and tribological performance of diamond-like carbon films deposited on hydrogenated rubber. Thin Solid Films, 2012, 524, 218-223.	0.8	22
244	Deposition of SiO2 nanoparticles in heat exchanger during combustion of biogas. Applied Energy, 2014, 113, 1141-1148.	5.1	22
245	Interaction between lattice dislocations and grain boundaries in F.C.C. materials. Scripta Metallurgica, 1989, 23, 1431-1435.	1.2	21
246	Various regimes of charge-density waves in layered compounds. Physical Review B, 1992, 46, 2001-2007.	1.1	21
247	Residual stresses in the surface layer of laser-treated steels. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1993, 161, 83-89.	2.6	21
248	TiNi shape memory alloy coated with tungsten: a novel approach for biomedical applications. Journal of Materials Science: Materials in Medicine, 2014, 25, 1249-1255.	1.7	21
249	A New Methodology to Analyze Instabilities in SEM Imaging. Microscopy and Microanalysis, 2014, 20, 1625-1637.	0.2	21
250	Orientation Relationships in Al _{0.7} CoCrFeNi High-Entropy Alloy. Microscopy and Microanalysis, 2017, 23, 905-915.	0.2	21
251	Clustering of helium atoms at a edge dislocation in α-iron. Solid State Communications, 1977, 24, 193-196.	0.9	20
252	Enhanced wear resistance by compressive strengthening: A novel combination of laser and ion implantation technology. Applied Physics Letters, 1988, 53, 663-665.	1.5	20

#	Article	IF	CITATIONS
253	Microstructure of laser treated Al alloys. Acta Metallurgica Et Materialia, 1990, 38, 2471-2477.	1.9	20
254	Growth front roughening of room-temperature deposited oligomer films. Applied Physics Letters, 2001, 79, 1801-1803.	1.5	20
255	Mechanism of the structural phase transformations in epitaxial YHx switchable mirrors. Journal of Applied Physics, 2002, 91, 1901-1909.	1.1	20
256	Tribological behavior and thermal stability of TiCâ^•a-C:H nanocomposite coatings. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2006, 24, 1448-1453.	0.9	20
257	Adhesion at Al-hydroxide-polymer interfaces: Influence of chemistry and evidence for microscopic self-pinning. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 5637-5647.	2.6	20
258	Microstructural and frictional control of diamond-like carbon films deposited on acrylic rubber by plasma assisted chemical vapor deposition. Thin Solid Films, 2011, 519, 2213-2217.	0.8	20
259	On the nature of the coefficient of friction of diamond-like carbon films deposited on rubber. Journal of Applied Physics, 2012, 111, .	1.1	20
260	Deformation mechanism of aluminum–magnesium alloys at elevated temperatures. Journal of Materials Science, 2013, 48, 7399-7408.	1.7	20
261	Capturing the stochastic mechanical behavior of micro and nanopillars. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 597, 89-94.	2.6	20
262	On the S/W stoichiometry and triboperformance of WSxC(H) coatings deposited by magnetron sputtering. Surface and Coatings Technology, 2019, 365, 41-51.	2.2	20
263	An atomic model for the interaction between a ã€^111〉{110} edge dislocation and carbon in α-Fe. Solid Stat Communications, 1975, 17, 747-750.	e _{0.9}	19
264	The trapping of helium at a low angle tilt boundary in molybdenum. Journal of Nuclear Materials, 1984, 125, 298-303.	1.3	19
265	The influence of convection on the homogeneity of laser-applied coatings. Journal of Materials Science, 1991, 26, 711-714.	1.7	19
266	AlSiC interface structure studied by HREM. Acta Metallurgica Et Materialia, 1992, 40, S281-S287.	1.9	19
267	Substrate influence on the shape of domains in epitaxial PbTiO3 thin films. Journal of Applied Physics, 2007, 102, 104105.	1.1	19
268	Microstructure and tribological behavior of tungsten-containing diamondlike carbon coated rubbers. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2008, 26, 1085-1092.	0.9	19
269	Fundamental and applied aspects of laser surface engineering. International Journal of Materials Research, 2009, 100, 1343-1360.	0.1	19
270	On the evolution of film roughness during magnetron sputtering deposition. Journal of Applied Physics, 2010, 108, 094330.	1.1	19

#	Article	IF	CITATIONS
271	A Versatile Route for the Synthesis of Single Crystalline Oxide Nanorods: Growth Behavior and Field Emission Characteristics. Crystal Growth and Design, 2010, 10, 2585-2590.	1.4	19
272	Measurement of spatial stress gradients near grain boundaries. Scripta Materialia, 2017, 136, 11-14.	2.6	19
273	Hollow-cathode activated PECVD for the high-rate deposition of permeation barrier films. Surface and Coatings Technology, 2017, 314, 155-159.	2.2	19
274	Interatomic potentials for alkali metals. A comparative study. Physica Status Solidi (B): Basic Research, 1978, 90, 225-232.	0.7	18
275	Dislocation dynamics in aluminium and in aluminium-copper alloys: A nuclear magnetic resonance and transmission electron microscopic study. Acta Metallurgica, 1982, 30, 1523-1536.	2.1	18
276	Dynamical in situ nuclearâ€magneticâ€resonance tensile apparatus. Review of Scientific Instruments, 1983, 54, 341-345.	0.6	18
277	Development of residual stress and surface cracks in laser treated low carbon steel. Scripta Metallurgica Et Materialia, 1991, 25, 779-784.	1.0	18
278	Shock wave equation of state of powder material. Journal of Applied Physics, 1994, 75, 809-813.	1.1	18
279	Electron beam induced oxidation of Al–Mg alloy surfaces. Applied Surface Science, 2002, 191, 266-272.	3.1	18
280	Microstructure of nanocrystalline FeZr(N)-films and their soft magnetic properties. Journal of Magnetism and Magnetic Materials, 2002, 242-245, 180-182.	1.0	18
281	Niobium nanoclusters studied with in situ transmission electron microscopy. Applied Physics Letters, 2003, 83, 3909-3911.	1.5	18
282	Scratch test induced shear banding in high power laser remelted metallic glass layers. Journal of Materials Research, 2007, 22, 460-470.	1.2	18
283	Roughness corrections to the Casimir force: The importance of local surface slope. Applied Physics Letters, 2007, 91, .	1.5	18
284	Adhesion along metal–polymer interfaces during plastic deformation. Journal of Materials Science, 2007, 42, 3529-3536.	1.7	18
285	Fracture behavior of low-density replicated aluminum alloy foams. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 496, 376-382.	2.6	18
286	Deposition and characterization of hydrogenated diamond-like carbon thin films on rubber seals. Thin Solid Films, 2010, 518, S42-S45.	0.8	18
287	On the evolution of nanocluster size distribution in a nanocluster aggregation source. Journal of Applied Physics, 2012, 111, .	1.1	18
288	Microstructural Characterization of Long-Period Stacking Ordered Phases in Mg ₉₇ Zn ₁ Y ₂ (at.%) Alloy. Microscopy and Microanalysis, 2013, 19, 1575-1580.	0.2	18

#	Article	IF	CITATIONS
289	Deformation of nanoporous nanopillars by ion beam-induced bending. Journal of Materials Science, 2014, 49, 5598-5605.	1.7	18
290	On the control of deposition process for enhanced mechanical properties of nc-TiC/a-C:H coatings with DC magnetron sputtering at low or high ion flux. Surface and Coatings Technology, 2014, 255, 8-14.	2.2	18
291	Role of NH ₃ in the Electron-Induced Reactions of Adsorbed and Solid Cisplatin. Journal of Physical Chemistry C, 2016, 120, 4112-4120.	1.5	18
292	Surface modification by means of laser melting combined with shot peening: A novel approach. Acta Metallurgica Et Materialia, 1992, 40, 3317-3324.	1.9	17
293	A two-dimensional computational methodology for high-speed dislocations in high strain-rate deformation. Computational Materials Science, 2001, 20, 1-18.	1.4	17
294	Roughening aspects of room temperature vapor deposited oligomer thin films onto Si substrates. Surface Science, 2002, 507-510, 357-361.	0.8	17
295	Crack Resistance of PVD Coatings: Influence of Surface Treatment Prior to Deposition. Surface Engineering, 2002, 18, 283-288.	1.1	17
296	Interfacial adhesion of laser clad functionally graded materials. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2003, 342, 192-200.	2.6	17
297	Lead induced intergranular fracture in aluminum alloy AA6262. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2003, 361, 331-337.	2.6	17
298	Effect of roughness on the conductivity of semiconducting thin films/quantum wells with double rough boundaries. Journal of Applied Physics, 2003, 93, 320-324.	1.1	17
299	On the self-pinning character of synchro-Shockley dislocations in a Laves phase during strain rate cyclical compressions. Scripta Materialia, 2008, 59, 788-791.	2.6	17
300	Phase formation and properties of vanadium-modified Ni–Cr–B-Si–C laser-deposited coatings. Journal of Materials Science, 2013, 48, 3315-3326.	1.7	17
301	Focused electron beam induced processing and the effect of substrate thickness revisited. Nanotechnology, 2013, 24, 345301.	1.3	17
302	Temperature-Adaptive Ultralubricity of a WS ₂ /a-C Nanocomposite Coating: Performance from Room Temperature up to 500 °C. ACS Applied Materials & Interfaces, 2021, 13, 28843-28854.	4.0	17
303	Superlattice dislocations in the L12ordered structure of Cu2NiZn. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1983, 47, 193-207.	0.7	16
304	Different types of dislocations inYBa2Cu3O7â~δ. Physical Review B, 1994, 50, 3271-3279.	1.1	16
305	Formation and dissociation of Zn nanoclusters in MgO. Nuclear Instruments & Methods in Physics Research B, 2004, 216, 390-395.	0.6	16
306	Variation of structure and magnetic properties with thickness of thin Co59Fe26Ni15 films. Journal of Magnetism and Magnetic Materials, 2005, 290-291, 1539-1542.	1.0	16

#	Article	IF	CITATIONS
307	The influence of the surface topography on the magnetization dynamics in soft magnetic thin films. Journal of Applied Physics, 2005, 97, 013904.	1.1	16
308	On the dynamic roughening transition in nanocomposite film growth. Applied Physics Letters, 2009, 95, 223102.	1.5	16
309	Wear mechanisms and friction parameters for sliding wear of micron-scale polysilicon sidewalls. Sensors and Actuators A: Physical, 2010, 163, 373-382.	2.0	16
310	Flexible diamond-like carbon film coated on rubber. Progress in Organic Coatings, 2013, 76, 1773-1778.	1.9	16
311	On the mechanism of ion-induced bending of nanostructures. Applied Surface Science, 2018, 446, 151-159.	3.1	16
312	High Entropy Alloys: Ready to Set Sail?. Metals, 2020, 10, 194.	1.0	16
313	On the formation of argon-vacancy clusters in copper irradiated with 4 to 6 kV argon ions. Physica Status Solidi A, 1977, 40, 293-301.	1.7	15
314	Enhanced mechanical properties of laser treated Al-Cu alloys: A microstructural analysis. Acta Metallurgica Et Materialia, 1995, 43, 2649-2656.	1.9	15
315	Influence of misfit and interfacial binding energy on the shape of the oxide precipitates in metals. Acta Materialia, 2000, 48, 3687-3699.	3.8	15
316	Nanocavity formation processes in MgO() by light ion (D, He, Li) and heavy ion (Kr, Cu, Au) implantation. Nuclear Instruments & Methods in Physics Research B, 2002, 191, 610-615.	0.6	15
317	Ab initiotransmission electron microscopy image simulations of coherentAgâ^'MgOinterfaces. Physical Review B, 2004, 70, .	1.1	15
318	Magnetic force microscopy on cobalt nanocluster films. Applied Surface Science, 2004, 226, 185-190.	3.1	15
319	Superplastic behavior of coarse-grained aluminum alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 410-411, 120-123.	2.6	15
320	Adhesion of polymer coatings studied by laser-induced delamination. Journal of Applied Physics, 2005, 97, 123510.	1.1	15
321	Work of adhesion in laser-induced delamination along polymer-metal interfaces. Journal of Applied Physics, 2007, 101, 043520.	1.1	15
322	Degradation and recovery of adhesion properties of deformed metal–polymer interfaces studied by laser induced delamination. Progress in Organic Coatings, 2007, 58, 180-186.	1.9	15
323	Advances in Laser Surface Engineering: Tackling the Cracking Problem in Laser-Deposited Ni-Cr-B-Si-C Alloys. Jom, 2013, 65, 741-748.	0.9	15
324	Effect of magnesium aluminum silicate glass on the thermal shock resistance of <scp>BN</scp> matrix composite ceramics. Journal of the American Ceramic Society, 2017, 100, 2669-2678.	1.9	15

#	Article	IF	CITATIONS
325	The order-disorder transition in the quasi-binary cross section Cu50Ni50â^'xZnx. Scripta Metallurgica, 1981, 15, 1359-1361.	1.2	14
326	Atomistic studies of helium trapping in metals. Radiation Effects, 1983, 78, 25-36.	0.4	14
327	Spinel/metal interfaces in laser coated steels: A transmission electron microscopy study. Acta Metallurgica Et Materialia, 1991, 39, 2267-2273.	1.9	14
328	Determination of grain boundary geometry using TEM. Journal of Materials Research, 1992, 7, 1707-1717.	1.2	14
329	The effect of mound roughness on the electrical capacitance of a thin insulating film. Solid State Communications, 2001, 118, 203-206.	0.9	14
330	Orientation imaging microscopic observations of in situ deformed ultra low carbon steel. Scripta Materialia, 2001, 44, 461-466.	2.6	14
331	Characterization of mechanical properties of tungsten carbide/carbon multilayers: Cross-sectional electron microscopy and nanoindentation observations. Journal of Materials Research, 2001, 16, 2213-2222.	1.2	14
332	Surface/interface roughness effects on magneto-electrical properties of thin films. Surface Science, 2002, 507-510, 541-545.	0.8	14
333	Controlling the induced anisotropy in soft magnetic films for high-frequency applications. IEEE Transactions on Magnetics, 2002, 38, 3144-3146.	1.2	14
334	Precipitate formation in low-temperature nitrided cold-rolled Fe94Ni4Ti2 and Fe93Ni4Cr3 films. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2002, 33, 3075-3087.	1.1	14
335	Laser penetration spike welding: A microlaser welding technique enabling novel product designs and constructions. Journal of Laser Applications, 2003, 15, 11-18.	0.8	14
336	Ion bombardment effects on nucleation of sputtered Mo nano-crystals in Mo/B4C/Si multilayers. Surface and Coatings Technology, 2006, 201, 143-147.	2.2	14
337	Influence of stresses and magnetostriction on the soft magnetic behavior of metallic films. Journal of Magnetism and Magnetic Materials, 2006, 299, 219-224.	1.0	14
338	Reactive magnetron sputtering deposition and columnar growth of ncâ€TiCâ^•a :H nanocomposite coatings. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2006, 24, 1441-1447.	0.9	14
339	Surface roughness evolution of nanocomposite thin films. Journal of Applied Physics, 2009, 105, .	1.1	14
340	Fibrous hydroxyapatite–carbon nanotube composites by chemical vapor deposition: In situ fabrication, structural and morphological characterization. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2013, 178, 457-464.	1.7	14
341	Superlattice dislocations in Cu2NiZn. Physica Status Solidi A, 1979, 52, 635-645.	1.7	13
342	Clustering phenomena of implants in tungsten observed with THDS. Nuclear Instruments & Methods in Physics Research B, 1985, 6, 517-524.	0.6	13

#	Article	IF	CITATIONS
343	Effects of fluorine implantation on the kinetics of dry oxidation of silicon. Journal of Applied Physics, 1986, 60, 985-990.	1.1	13
344	Scanning tunneling microscopy imaging of transitionâ€metal dichalcogenides. Applied Physics Letters, 1990, 56, 2402-2404.	1.5	13
345	Solidification structures during laser treatment. Scripta Metallurgica Et Materialia, 1990, 24, 593-598.	1.0	13
346	In situgeneration and atomic scale imaging of slip traces with atomic force microscopy. Review of Scientific Instruments, 1997, 68, 4492-4497.	0.6	13
347	TEM Study of Ti-N and Cr-N Precipitate Formation in Iron Alloys. Physica Status Solidi A, 2000, 177, 117-125.	1.7	13
348	Effects of precipitates in Cu upon impact fracture: an ultra-high-vacuum study with local probe Scanning Auger/Electron Microscopy. Acta Materialia, 2000, 48, 1995-2004.	3.8	13
349	Structural dynamics of gas-phase molybdenum nanoclusters: A transmission electron microscopy study. Applied Physics Letters, 2005, 86, 113113.	1.5	13
350	Selective Functionalization of Tailored Nanostructures. ACS Nano, 2012, 6, 9214-9220.	7.3	13
351	Influence of Plasma Treatments on the Frictional Performance of Rubbers. Tribology Letters, 2012, 47, 303-311.	1.2	13
352	Formation of metal F bonds during frictional sliding: Influence of water and applied load. Applied Surface Science, 2016, 368, 427-434.	3.1	13
353	Instant WS2 platelets reorientation of self-adaptive WS2/a-C tribocoating. Materials Letters, 2018, 229, 64-67.	1.3	13
354	Atomic configuration of a ½ ã€^111〉 screw dislocation in pure Mo and in Mo containing He interstitials. Physica Status Solidi (B): Basic Research, 1979, 92, 199-209.	0.7	12
355	Ne implantation induced transformation in stainless steel. Acta Metallurgica Et Materialia, 1990, 38, 2067-2072.	1.9	12
356	Glancing angle xâ€ray diffraction: A different approach. Applied Physics Letters, 1994, 64, 1585-1587.	1.5	12
357	Mechanical performance of metal-ceramic interfaces produced by laser processing. Journal of Materials Science, 1995, 3, 107-118.	1.2	12
358	Roughness effect on the measurement of interface stress. Acta Materialia, 2000, 48, 3641-3645.	3.8	12
359	In situ Transmission Electron Microscopy Studies on Structural Dynamics of Transition Metal Nanoclusters. Journal of Materials Research, 2005, 20, 1785-1791.	1.2	12
360	Effects of self-affine surface roughness on the adhesion of metal-polymer interfaces. Journal of Materials Science, 2005, 40, 3503-3508.	1.7	12

#	Article	IF	CITATIONS
361	In situ Transmission Electron Microscopy Study of the Crystallization of Fast-growth Doped SbxTe Alloy Films. Journal of Materials Research, 2005, 20, 1825-1835.	1.2	12
362	Tribological properties of nc-TiC/a-C:H coatings prepared by magnetron sputtering at low and high ion bombardment of the growing film. Surface and Coatings Technology, 2014, 241, 64-73.	2.2	12
363	Nanopillar Fabrication with Focused Ion Beam Cutting. Microscopy and Microanalysis, 2014, 20, 1581-1584.	0.2	12
364	Texture development in direct powder deposition. Journal of Laser Applications, 2017, 29, .	0.8	12
365	The orientation dependence of dislocation slip in NaCl single crystals. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1982, 46, 451-468.	0.7	11
366	Formation of small vacancy clusters in tungsten around silver and indium impurities studied by PAC and THDS. Hyperfine Interactions, 1983, 15, 421-424.	0.2	11
367	Superlattice dislocations on {111} and {001} in superalloys. Scripta Metallurgica, 1985, 19, 105-110.	1.2	11
368	Solution hardening in aluminium-magnesium alloys: A nuclear magnetic resonance and transmission electron microscopic study. Acta Metallurgica, 1988, 36, 865-870.	2.1	11
369	Thermodynamic model of the compaction of powder materials by shock waves. Journal of Applied Physics, 1994, 75, 203-209.	1.1	11
370	Copper implantation defects in MgO observed by positron beam analysis, RBS and X-TEM. Nuclear Instruments & Methods in Physics Research B, 2000, 166-167, 225-231.	0.6	11
371	Formation of \hat{I}^3 -Al2O3 in reaction coatings produced with lasers. Scripta Materialia, 2001, 44, 643-649.	2.6	11
372	Determination of near coincident site lattice orientations in MgO/Cu composite. Journal of Materials Science, 2002, 37, 2511-2518.	1.7	11
373	Thermal stability of ultrasoft Fe–Zr–N films. Journal of Physics Condensed Matter, 2003, 15, 7663-7674.	0.7	11
374	Synthesis of ultra-smooth and ultra-low friction DLC based nanocomposite films on rough substrates. Thin Solid Films, 2010, 519, 1618-1622.	0.8	11
375	Performance of diamond-like carbon-protected rubber under cyclic friction. II. Influence of substrate viscoelasticity on the friction evolution. Journal of Applied Physics, 2011, 110, .	1.1	11
376	Performance of diamond-like carbon-protected rubber under cyclic friction. I. Influence of substrate viscoelasticity on the depth evolution. Journal of Applied Physics, 2011, 110, .	1.1	11
377	Effect of relative humidity on crack propagation in barrier films for flexible electronics. Journal of Applied Physics, 2012, 112, 083520.	1.1	11
378	On the role of the residual stress state in product manufacturing. Materials and Design, 2016, 105, 375-380.	3.3	11

#	Article	IF	CITATIONS
379	Influence of loading rate on the mechanical performance of metallic glass. Journal of Non-Crystalline Solids, 2017, 470, 160-167.	1.5	11
380	The effect of surface texture on the oxidation behaviour of polycrystalline Fe-Cr. Applied Surface Science, 2018, 459, 459-467.	3.1	11
381	Size-dependent ion-induced densification of nanoporous gold. Scripta Materialia, 2019, 164, 17-20.	2.6	11
382	Concentrated Multi-nozzle Electrospinning. Fibers and Polymers, 2019, 20, 1180-1186.	1.1	11
383	Using X-Ray Scattering to Elucidate the Microstructural Instability of 3D Bicontinuous Nanoporous Metal Scaffolds for Use in an Aperiodic 3D Tricontinuous Conductor–Insulator–Conductor Nanocapacitor. ACS Applied Materials & Interfaces, 2021, 13, 11721-11731.	4.0	11
384	Evolution of microstructure and properties in laser cladding of a Ni-Cr-B-Si hardfacing alloy. , 2011, , .		11
385	The influence of interatomic potentials on the interaction of He with a documentclass{article}pagestyle{empty}egin{document}\$ rac{1}{2}leftlangle {111} ightangle \$end{document} {110} edge dislocation in molybdenum. Physica Status Solidi (B): Basic Research, 1978, 90. 643-648.	0.7	10
386	The quasi-binary cross section in the ternary system CuNiZn. Scripta Metallurgica, 1981, 15, 1362-1364.	1.2	10
387	Computed structure of grain boundaries compared with TEM observations. Surface Science, 1984, 144, 1-13.	0.8	10
388	The relationship between hardness and laser treatment of hypo-eutectoid steels. Scripta Metallurgica, 1987, 21, 1737-1742.	1.2	10
389	Enhanced wear properties of steel: A combination of ion implantation metallurgy and laser metallurgy. Acta Metallurgica, 1988, 36, 3123-3130.	2.1	10
390	Field-ion-microscopy contradiction of the quasicrystal model based on twinning of a cubic crystal. Physical Review B, 1988, 37, 4261-4264.	1.1	10
391	Martensitic transformations in laser processed coatings. Acta Metallurgica Et Materialia, 1993, 41, 2557-2564.	1.9	10
392	High-resolution transmission electron microscopy study of discontinuously precipitated Ni3Sn. Acta Materialia, 2000, 48, 4203-4215.	3.8	10
393	Subnanometer three-dimensional atom-probe investigation of segregation at MgO/Cu ceramic/metal heterophase interfaces. Ultramicroscopy, 2001, 89, 203-213.	0.8	10
394	Identification of planar defects in D019phases using high-resolution transmission electron microscopy. Philosophical Magazine Letters, 2001, 81, 697-707.	0.5	10
395	Effects of network morphology on the failure stress of highly porous media. Physical Review B, 2002, 66, .	1.1	10
396	Self-affine roughness effects on the contact area between elastic bodies. Journal of Applied Physics, 2003, 93, 898-902.	1.1	10

#	Article	IF	CITATIONS
397	Influence of roughness on the detachment force of elastic films from self-affine rough surfaces. Journal of Applied Physics, 2003, 94, 3041-3044.	1.1	10
398	Direct measurement of intrinsic critical strain and internal strain in barrier films. Journal of Applied Physics, 2011, 110, 044907.	1.1	10
399	Comments on "microstructural evolution during high-temperature oxidation of Ti2AlC ceramics― Scripta Materialia, 2011, 65, 930-932.	2.6	10
400	Microscopic characterisation of suspended graphene grown by chemical vapour deposition. Nanoscale, 2013, 5, 9057.	2.8	10
401	Local residual stress measurements on nitride layers. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 636, 476-483.	2.6	10
402	Laser surface treatment for enhanced titanium to carbon fiber-reinforced polymer adhesion. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2017, 39, 2917-2924.	0.8	10
403	Copper-mediated homogeneous living radical polymerization of acrylamide with waxy potato starch-based macroinitiator. Carbohydrate Polymers, 2018, 192, 61-68.	5.1	10
404	Enhanced efficiency of self-healing of Cr2AlC. Materials Letters, 2018, 227, 51-54.	1.3	10
405	<i>In Situ</i> High-Temperature EBSD and 3D Phase Field Studies of the Austenite–Ferrite Transformation in a Medium Mn Steel. Microscopy and Microanalysis, 2019, 25, 639-655.	0.2	10
406	Micromechanical evaluation of DP1000-GI dual-phase high-strength steel resistance spot weld. Journal of Materials Science, 2019, 54, 1703-1715.	1.7	10
407	Defect ferromagnetism induced by lower valence cation doping: Li-doped SnO ₂ nanoparticles. RSC Advances, 2020, 10, 26342-26348.	1.7	10
408	Atomic Configuration of 1/2 <111> {110} Edge Dislocations in Pure V, W, Mo, and Fe and in Fe Containing C Interstitials. Physica Status Solidi (B): Basic Research, 1975, 71, 595-607.	0.7	9
409	The i.r. spectra of several rare-earth formates. Spectrochimica Acta Part A: Molecular Spectroscopy, 1976, 32, 1155-1157.	0.1	9
410	In situnuclear-magnetic-resonance study of deformation-induced atomic diffusion in NaCl. Physical Review B, 1991, 44, 1988-1991.	1.1	9
411	Metal-Ceramic Interfaces Produced by Laser Melt Injection Processing. Materials and Manufacturing Processes, 1995, 10, 1285-1294.	2.7	9
412	A quantitative analysis of surface deformation by stick/slip atomic force microscopy. Journal of Applied Physics, 1997, 82, 3763-3770.	1.1	9
413	Residual stress fields in sol-gel-derived thin TiO ₂ layers. Journal of Materials Research, 1999, 14, 1896-1903.	1.2	9
414	Ultrasoft Magnetic Films Investigated with Lorentz Tranmission Electron Microscopy and Electron Holography. Microscopy and Microanalysis, 2002, 8, 274-287.	0.2	9

#	Article	IF	CITATIONS
415	Evolution of normal stress and surface roughness in buckled thin films. Journal of Applied Physics, 2003, 93, 893-897.	1.1	9
416	Nanoscale deformation in TiCâ^•a-C multilayered nanocomposite coatings. Applied Physics Letters, 2008, 92, 241913.	1.5	9
417	Growth Rate Determination through Automated TEM Image Analysis: Crystallization Studies of Doped SbTe Phase-Change Thin Films. Microscopy and Microanalysis, 2010, 16, 291-299.	0.2	9
418	Influence of strain on the electronic structure of the TbMnO3/SrTiO3 epitaxial interface. Applied Physics Letters, 2011, 99, .	1.5	9
419	Tribological Behavior of TiC/a-C:H-Coated and Uncoated Steels Sliding Against Phenol–Formaldehyde Composite Reinforced with PTFE and Class Fibers. Tribology Letters, 2013, 52, 123-135.	1.2	9
420	High throughput deposition of hydrogenated amorphous carbon coatings on rubber with expanding thermal plasma. Surface and Coatings Technology, 2014, 245, 74-83.	2.2	9
421	Interphase boundary motion elucidated through in-situ high temperature electron back-scatter diffraction. Materials and Design, 2017, 132, 138-147.	3.3	9
422	Smectite clay pillared with copper complexed polyhedral oligosilsesquioxane for adsorption of chloridazon and its metabolites. Environmental Science: Nano, 2020, 7, 424-436.	2.2	9
423	Microstructure and Mechanical Properties of Laser Additive Manufactured H13 Tool Steel. Metals, 2022, 12, 243.	1.0	9
424	Thermodynamic calculations for the liquid systems Naî—,K, Kî—,Cs and Liî—,Pb. Physica B: Physics of Condensed Matter & C: Atomic, Molecular and Plasma Physics, Optics, 1982, 114, 59-66.	0.9	8
425	A study of shallow and deep damage in Cu and Al after self-implantation. Radiation Effects, 1983, 71, 289-314.	0.4	8
426	Laser treatment of aluminium copper alloys: A mechanical enhancement. Scripta Metallurgica Et Materialia, 1994, 30, 493-498.	1.0	8
427	Analyses of small facets imaged with scanning-probe microscopy. Journal of Applied Physics, 1999, 86, 3661-3669.	1.1	8
428	Electron beam induced oxidation of surfaces of Ni3Al-base alloys. Surface Science, 2001, 476, L267-L272.	0.8	8
429	Mound surface roughness effects on the thermal capacitance of thin films. Journal of Applied Physics, 2001, 89, 6130-6134.	1.1	8
430	In situ observations of crack propagation mechanisms along interfaces between confined polymer layers and glass. Applied Physics Letters, 2006, 88, 061912.	1.5	8
431	TEM Characterization of W-O-N Coatings. Microscopy and Microanalysis, 2008, 14, 27-30.	0.2	8
432	Selective functionalization of patterned glass surfaces. Journal of Materials Chemistry B, 2014, 2, 2606-2615.	2.9	8

#	Article	IF	CITATIONS
433	Effect of surface reactions on steel, Al2O3 and Si3N4 counterparts on their tribological performance with polytetrafluoroethylene filled composites. Applied Surface Science, 2015, 331, 482-489.	3.1	8
434	On the fabrication of micro- and nano-sized objects: the role of interstitial clusters. Journal of Materials Science, 2018, 53, 7822-7833.	1.7	8
435	Low-temperature solid-state growth of three-dimensional bicontinuous nanoporous graphene with tunable porosity for lithium–sulfur batteries. Journal of Materials Chemistry A, 2018, 6, 11405-11415.	5.2	8
436	Effect of Quench Polish Quench Nitriding Temperature on the Microstructure and Wear Resistance of SAF2906 Duplex Stainless Steel. Metals, 2019, 9, 848.	1.0	8
437	Self-healing of a pre-notched WS ₂ /a-C coating. Materials Research Letters, 2019, 7, 103-109.	4.1	8
438	Diffusion drift paths in the core region of an edge dislocation. Physica Status Solidi (B): Basic Research, 1975, 69, 417-428.	0.7	7
439	The infrared spectra of several rare-earth formates. Journal of Inorganic and Nuclear Chemistry, 1975, 37, 2350-2351.	0.5	7
440	Mechanical properties of the ordering alloy Cu2NiZn. Acta Metallurgica, 1982, 30, 1537-1547.	2.1	7
441	Scratch hardness and wear performance of laser-melted steels: Effects of anisotropy. Wear, 1989, 132, 59-75.	1.5	7
442	Local structural variations near twins inYBa2Cu3O7â^îſ. Physical Review B, 1990, 41, 9502-9505.	1.1	7
443	Metal-ceramic interfaces in laser coated steels: A transmission electron microscopy study of a mixture of iron and spinel grains. Acta Metallurgica Et Materialia, 1992, 40, S139-S142.	1.9	7
444	Interactions between lattice dislocations and grain boundaries in L12 ordered compounds investigated by in situ transmission electron microscopy and computer modelling experiments. Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing, 1993, 164, 415-420.	2.6	7
445	Microstructure and properties of giant magnetoresistive granular Au80Co20 alloys. Journal of Applied Physics, 2001, 89, 3381-3387.	1.1	7
446	A Subnanoscale Investigation of Sb Segregation at MnO/Ag Ceramic/Metal Interfaces. Journal of Materials Science, 2001, 9, 199-211.	1.2	7
447	Electron microscopic study on catalytic carbonization of biomass carbon: I. carbonization of wood charcoal at high temperature by al-triisopropoxide. Molecular Crystals and Liquid Crystals, 2002, 386, 33-38.	0.4	7
448	Structural effects due to the incorporation of Ar atoms in the lattice of ZrO2 thin films prepared by ion beam assisted deposition. Nuclear Instruments & Methods in Physics Research B, 2002, 194, 333-345.	0.6	7
449	Analysis of Gibbsian segregation at heterophase interfaces using analytical transmission electron microscopy: a novel approach. Acta Materialia, 2002, 50, 223-235.	3.8	7
450	Effects of tensile and compressive in-plane stress fields on adhesion in laser induced delamination experiments. Journal of Applied Physics, 2008, 103, 103523.	1.1	7

#	Article	IF	CITATIONS
451	Dynamic smoothing of nanocomposite films. Applied Physics Letters, 2010, 96, 151910.	1.5	7
452	Charging effects during focused electron beam induced deposition of silicon oxide. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2011, 29, 06FD01.	0.6	7
453	In situ bending of layered compounds: The role of anisotropy in Ti2AlC microcantilevers. Scripta Materialia, 2014, 89, 21-24.	2.6	7
454	Product shape change by internal stresses. Materials and Design, 2018, 157, 492-500.	3.3	7
455	Defect ferromagnetism in SnO ₂ :Zn ²⁺ hierarchical nanostructures: correlation between structural, electronic and magnetic properties. RSC Advances, 2019, 9, 4082-4091.	1.7	7
456	Diffusion drift paths around a ã€^100〉 edge dislocation in γ-Fe. Solid State Communications, 1975, 16, 1231-1234.	0.9	6
457	Characterization of superlattice dislocations in Cu2NiZn by transmission electron microscopy. Scripta Metallurgica, 1979, 13, 303-306.	1.2	6
458	The mean free path of mobile dislocations in doped NaCl single crystals measured by N.M.R. between room temperature and 300°C. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1982, 46, 469-481.	0.7	6
459	Dependence of surface residual stress on laser power and laser scan velocity. Scripta Metallurgica Et Materialia, 1991, 25, 2007-2010.	1.0	6
460	interface in laser coated aluminium alloys. Scripta Metallurgica Et Materialia, 1995, 33, 1345-1351.	1.0	6
461	Surface sensitivity effects with local probe scanning Auger–scanning electron microscopy. Applied Physics Letters, 1999, 75, 1080-1082.	1.5	6
462	Study of polymer/metal coating under stress using positron annihilation spectroscopy. Acta Materialia, 2000, 48, 4743-4747.	3.8	6
463	Ultra high vacuum scanning Auger/electron microscopy studies of oxidation and B surface segregation of in situ fractured B-doped Ni3Al alloys. Surface Science, 2001, 482-485, 254-259.	0.8	6
464	In-situ TEM analysis of the reduction of nanometre-sized Mn3O4 precipitates in a metal matrix. Acta Materialia, 2001, 49, 765-774.	3.8	6
465	Linear growth of thin films under the influence of stress. Applied Physics Letters, 2001, 78, 3044-3046.	1.5	6
466	Tailoring of misfit along interfaces between ZnxMn3â^'xO4 and Ag. Acta Materialia, 2004, 52, 5845-5851.	3.8	6
467	Adhesion behaviour of CrNx coatings on pre-treated metal substrates studied in situ by PBA and ESEM after annealing. Surface and Coatings Technology, 2005, 199, 57-65.	2.2	6
468	Nano-Sized Cobalt Cluster Films: Structure and Functionality. Advanced Engineering Materials, 2005, 7, 21-25.	1.6	6

#	Article	IF	CITATIONS
469	FCC/BCC competition and enhancement of saturation magnetization in nanocrystalline Co-Ni-Fe films. JETP Letters, 2007, 85, 212-215.	0.4	6
470	Piezoresponse force microscopy of ferroelectric thin films: Frequency dependence of phase imaging. Journal of Applied Physics, 2008, 103, 114109.	1.1	6
471	On the composition analysis of nc-TiC/a-C : H nanocomposite coatings. Journal Physics D: Applied Physics, 2008, 41, 085402.	1.3	6
472	Nonlinearities in composition dependence of structure parameters and magnetic properties of nanocrystalline fcc/bcc-mixed Co–Ni–Fe thin films. Journal of Applied Physics, 2008, 103, 07E738.	1.1	6
473	Piezoelectric properties of PbTiO3 thin films characterized with piezoresponse force and high resolution transmission electron microscopy. Journal of Applied Physics, 2009, 105, 064106.	1.1	6
474	On the quantification of unbound hydrogen in diamond-like carbon-based thin films. Scripta Materialia, 2009, 61, 320-323.	2.6	6
475	Magnetic microstructure of YFe11Ti aggregates. Journal of Alloys and Compounds, 2009, 487, 11-17.	2.8	6
476	Pulsed DC sputtered DLC based nanocomposite films: controlling growth dynamics, microstructure and frictional properties. Materials Technology, 2011, 26, 15-19.	1.5	6
477	Growth of fractal structures in flames with silicon admixture. Europhysics Letters, 2012, 98, 66005.	0.7	6
478	Atomistic modelling of charge-induced deformation of gold nanowires. Modelling and Simulation in Materials Science and Engineering, 2013, 21, 055024.	0.8	6
479	Local delamination on heavily deformed polymer–metal interfaces: evidence from microscopy. Journal of Materials Science, 2014, 49, 691-700.	1.7	6
480	Formation of Nanoporous Gold Studied by Transmission Electron Backscatter Diffraction. Microscopy and Microanalysis, 2015, 21, 1387-1397.	0.2	6
481	Influence of load on the dry frictional performance of alkyl acrylate copolymer elastomers coated with diamond-like carbon films. Journal of Applied Physics, 2015, 118, .	1.1	6
482	Wear and Failure Mechanism of PTFE/SiO2/Epoxy Composites. Journal of Tribology, 2016, 138, .	1.0	6
483	Anomalous precipitation hardening in Al-(1†wt%)Cu thin films. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 722, 37-46.	2.6	6
484	On the Selfâ€Repair of WS ₂ /a Tribocoating. Advanced Materials Interfaces, 2020, 7, 1900938.	1.9	6
485	Self-healing WS2 tribofilms: An in-situ appraisal of mechanisms. Scripta Materialia, 2021, 204, 114124.	2.6	6
486	Protective films on complex substrates of thermoplastic and cellular elastomers: Prospective applications to rubber, nylon and cork. Surface and Coatings Technology, 2022, 442, 128405.	2.2	6

#	Article	IF	CITATIONS
487	On the Vibrational Entropy of a ½ ã€^111〉 {110} Edge Dislocation in B.C.C. Iron. Physica Status Solidi (B): Basic Research, 1978, 87, 151-161.	0.7	5
488	Defect profiling of neon-implanted and laser-melted steel by positron annihilation. Surface and Coatings Technology, 1994, 66, 393-397.	2.2	5
489	Kr incorporation in sputtered amorphous Si layers. Journal of Applied Physics, 1995, 77, 3467-3478.	1.1	5
490	Secondary interface dislocations in internally oxidized MgO/Cu composite. Journal of Materials Science Letters, 2001, 20, 389-392.	0.5	5
491	Antimony segregation at copper/manganese-oxide interfaces studied with analytical transmission electron microscopy. Scripta Materialia, 2001, 45, 169-175.	2.6	5
492	Correlated roughness effects on electrical conductivity of quantum wires. Journal of Applied Physics, 2001, 89, 8002-8005.	1.1	5
493	On the formation of ultra-fine grained Fe-base alloys via phase transformations. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 367, 176-184.	2.6	5
494	Fracture Behavior of Metal Foam Made of Recycled MMC by the Melt Route. Materials Transactions, 2006, 47, 2219-2222.	0.4	5
495	Laser-induced periodic surface structures, modeling, experiments, and applications. , 2014, , .		5
496	Influence of the applied power on the barrier performance of silicon ontaining plasma polymer coatings using a hollow cathodeâ€activated PECVD process. Plasma Processes and Polymers, 2017, 14, 1700016.	1.6	5
497	On the bulk degradation of yttria-stabilized nanocrystalline zirconia dental implant abutments: an electron backscatter diffraction study. Journal of Materials Science: Materials in Medicine, 2017, 28, 121.	1.7	5
498	In Situ Digital Image Correlation Observations of Laser Forming. Metals, 2020, 10, 17.	1.0	5
499	Metallic laser clad coatings: on the processing-microstructure-property relationships. , 2009, , .		5
500	On the X-ray Scattering Factor of Metallic Lithium in the Long-Wavelength Limit: The "Solid State Effect". Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 1980, 35, 373-377.	0.7	4
501	Electronic states near dislocations in transition metals: An application of quantum chemistry in technology. International Journal of Quantum Chemistry, 1980, 18, 575-582.	1.0	4
502	On the determination of dislocation densities in NaCl single crystals from quadrupolar linewidth measurements. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1982, 46, 327-344.	0.7	4
503	Order-strengthening in the ternary alloy Cu2NiZn. Acta Metallurgica, 1982, 30, 581-588.	2.1	4
504	Interaction of self-interstitials with metallic impurities in tungsten observed with THDS. Radiation Effects, 1984, 85, 103-110.	0.4	4

#	Article	IF	CITATIONS
505	Computed structure of near-coherent twin boundaries compared with tem observations. Acta Metallurgica, 1986, 34, 1051-1057.	2.1	4
506	Dislocation dynamics in Al–Mg–Zn alloys: A nuclear magnetic resonance and transmission electron microscopic study. Journal of Materials Research, 1988, 3, 645-650.	1.2	4
507	Microstructure of Cr2O3 coatings on steel and the effect of silicon. Journal of Materials Research, 1994, 9, 142-150.	1.2	4
508	Shock wave velocity and shock pressure for low density powders: A novel approach. Applied Physics Letters, 1994, 64, 933-935.	1.5	4
509	Reply to comment on "reaction layers around SiC particles in Ti: an electron microscopy study― Scripta Materialia, 2000, 43, 287-289.	2.6	4
510	Competitive segregation of gallium and indium at heterophase Cu-MnO interfaces studied with transmission electron microscopy. Philosophical Magazine, 2003, 83, 727-743.	0.7	4
511	Effects of topography on the local variation in the magnetization of ultrasoft magnetic films: A Lorentz microscopy study. Philosophical Magazine, 2003, 83, 2899-2913.	0.7	4
512	Direct Observations of Grain Boundary Phenomena during Indentation of Al and Al-Mg Thin Films. Materials Research Society Symposia Proceedings, 2003, 795, 541.	0.1	4
513	Electron microscopy and positron annihilation study of CdSe nanoclusters embedded in MgO. Nuclear Instruments & Methods in Physics Research B, 2004, 218, 410-415.	0.6	4
514	Microscopic aspects of crack propagation along PET–glass and PET–Al interfaces. International Journal of Solids and Structures, 2006, 43, 7371-7377.	1.3	4
515	Tantalum-modified Stellite 6 thick coatings: microstructure and mechanical performance. Journal of Materials Science, 2013, 48, 140-149.	1.7	4
516	Structure phases of fe nanoparticles in vertically aligned multi-walled carbon nanotubes. Journal of Surface Investigation, 2015, 9, 1044-1055.	0.1	4
517	Compositional modification of Ni-base alloys for laser-deposition technologies. , 2015, , 137-162.		4
518	Gaining sight after being blind: A tribute to Jing Zhu. Ultramicroscopy, 2018, 192, 37-49.	0.8	4
519	Response of Ti microstructure in mechanical and laser forming processes. Journal of Materials Science, 2018, 53, 14713-14728.	1.7	4
520	Bending of nanoporous thin films under ion radiation. Thin Solid Films, 2019, 688, 137419.	0.8	4
521	Galileo Comes to the Surface!. Nanostructure Science and Technology, 2006, , 1-26.	0.1	4
522	EXPERIMENTAL DETERMINATION AND THEORETICAL ANALYSIS OF LOCAL RESIDUAL STRESS AT GRAIN SCALE. , 2017, , .		4

#	Article	IF	CITATIONS
523	Normal coordinate analysis of crystals. Computer Physics Communications, 1975, 10, 104-116.	3.0	3
524	The electronic states in molybdenum. Physica Status Solidi (B): Basic Research, 1976, 78, 791-801.	0.7	3
525	A study of shallow and deep damage in Cu after implantation of 100 keV Cu and Ag ions. Nuclear Instruments & Methods in Physics Research, 1983, 209-210, 963-967.	0.9	3
526	Interatomic Forces and Structure of Grain Boundaries. Materials Research Society Symposia Proceedings, 1985, 63, 137.	0.1	3
527	Anelastic relaxation in amorphous Pd39.5Ni39.5P21. Materials Science and Engineering, 1988, 97, 541-543.	0.1	3
528	Dislocation dynamics in vanadium: A nuclear magnetic resonance and transmission electron microscopic study. Acta Metallurgica Et Materialia, 1990, 38, 2479-2484.	1.9	3
529	The influence of noble gas bubbles on mechanical properties of steel. Scripta Metallurgica Et Materialia, 1991, 25, 539-542.	1.0	3
530	Reduction of the tensile stress state in laser treated materials. Scripta Metallurgica Et Materialia, 1991, 25, 1719-1724.	1.0	3
531	X-ray stress analysis of neon implantation in laser-treated 304 stainless steel. Surface and Coatings Technology, 1991, 45, 43-51.	2.2	3
532	On the role of dislocations in heavily strained YBa2Cu3O7â~δ. Ultramicroscopy, 1994, 56, 135-143.	0.8	3
533	Asymmetrical strain distribution in sputtered TiN layers. Thin Solid Films, 2000, 371, 10-16.	0.8	3
534	Fractality aspects during agglomeration of solid-phase-epitaxy Co–silicide thin films. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2000, 18, 2472.	1.6	3
535	Nanostructure and Giant Magnetoresistive Properties of Granular Systems. Journal of Nanoscience and Nanotechnology, 2001, 1, 65-73.	0.9	3
536	Effects of self-affine surface roughness on the friction coefficient of rubbers in the presence of a liquid interlayer. Journal of Applied Physics, 2004, 95, 389-392.	1.1	3
537	Formation of CdSe nanoclusters in MgO by ion beam synthesis. Nuclear Instruments & Methods in Physics Research B, 2004, 216, 121-126.	0.6	3
538	Quantitative characterization of the growth and morphological evolution of bicrystalline aluminum thin films. Journal of Materials Science, 2005, 40, 5033-5036.	1.7	3
539	Practical Work of Adhesion of Polymer Coatings Studied by Laser Induced Delamination. Materials Research Society Symposia Proceedings, 2005, 875, 1.	0.1	3
540	In-situ birefringence microscopy of uniaxially stretched metal–polymer laminate. Surface and Coatings Technology, 2007, 201, 4633-4639.	2.2	3

#	Article	IF	CITATIONS
541	Opportunities from the nanoworld: Gas phase nanoparticles. Journal of Alloys and Compounds, 2008, 449, 237-241.	2.8	3
542	Laser melt injection of ceramic particles in metals: processing, microstructure and properties. International Journal of Microstructure and Materials Properties, 2010, 5, 116.	0.1	3
543	Calibration-free quantitative surface topography reconstruction in scanning electron microscopy. Ultramicroscopy, 2015, 148, 31-41.	0.8	3
544	Thick tool steel coatings with laser cladding. WIT Transactions on Engineering Sciences, 2007, , .	0.0	3
545	The influence of processing speed on the properties of laser surface deposits. WIT Transactions on Engineering Sciences, 2015, , .	0.0	3
546	Atomic configuration of a ã€^111〉 {110} edge dislocation in α-Fe. Solid State Communications, 1975, 17, 245-248.	0.9	2
547	Scattered wave functions of dislocated lattices. Physics Letters, Section A: General, Atomic and Solid State Physics, 1977, 63, 174-176.	0.9	2
548	The use of Fourier analysis in the representation of computed grain boundary structures. Scripta Metallurgica, 1983, 17, 1161-1165.	1.2	2
549	Effects of Cl+and F+implantation of oxidationâ€induced stacking faults in silicon. Journal of Applied Physics, 1984, 55, 3485-3489.	1.1	2
550	Cascade annealing of tungsten implanted with 5 keV noble gas atoms: A computer simulation. Nuclear Instruments & Methods in Physics Research B, 1984, 2, 710-714.	0.6	2
551	Effects of vacancies near substitutional implants on trapping and desorption of helium — a simulation. Nuclear Instruments & Methods in Physics Research B, 1985, 6, 525-532.	0.6	2
552	Quasi-crystals studied with convergent beam electron diffraction. Materials Science and Engineering, 1988, 99, 335-337.	0.1	2
553	Observations of precipitation in a particle-reinforced Allî—,Culî—,Mg alloy with 20% silicon. Scripta Metallurgica Et Materialia, 1995, 33, 427-432.	1.0	2
554	Determination of x-ray elastic constants using an <i>in situ</i> pressing device. Journal of Materials Research, 1998, 13, 1757-1760.	1.2	2
555	Analyses of laser and furnace treated sol–gel coatings. Surface Engineering, 1998, 14, 395-399.	1.1	2
556	Title is missing!. Journal of Materials Science, 1999, 34, 4737-4749.	1.7	2
557	Influence of proximity effects in superconductor/normal–metal junctions from mound roughness and film growth mechanisms. Physica C: Superconductivity and Its Applications, 2000, 330, 99-104.	0.6	2
558	Nano Indentations Studies of WC/C and TiN/(Ti,Al)N Multilayer PVD Coatings Combined with Cross-sectional Electron Microscopy Observations. Materials Research Society Symposia Proceedings, 2001, 697, 151.	0.1	2

#	Article	IF	CITATIONS
559	Influence of electron flux on the oxidation of Ni3Al surfaces. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2001, 19, 2581-2585.	0.9	2
560	Ion-beam analysis of the structure and composition of nanocomposite nc-TiC/a-C:H coatings. Journal of Surface Investigation, 2007, 1, 674-678.	0.1	2
561	Recovery and recrystallization in the superplastic deformation of AA5182. Materialwissenschaft Und Werkstofftechnik, 2008, 39, 279-284.	0.5	2
562	Gas permeation and temperature effects in laser-induced delamination. Progress in Organic Coatings, 2009, 64, 210-215.	1.9	2
563	A statistical physics consideration about the strength of small size metallic glass pillars. Journal of Physics: Conference Series, 2010, 240, 012156.	0.3	2
564	Structure Properties of the \${m YFe}_{11}{m Mo}\$ Intermetallic Compound. IEEE Transactions on Magnetics, 2013, 49, 1149-1152.	1.2	2
565	Correlated Roughness Effects in the Giant Magnetoresistance of Magnetic Multilayers. Acta Physica Polonica A, 2000, 97, 495-498.	0.2	2
566	Statistical analysis of SEM image noise. WIT Transactions on Engineering Sciences, 2013, , .	0.0	2
567	Symmetry and bandstructure. Computer Physics Communications, 1975, 10, 67-69.	3.0	1
568	Remark on "Algorithm 475: Visible Surface Plotting Program [J6]― ACM Transactions on Mathematical Software, 1979, 5, 521-523.	1.6	1
569	Enhanced electronâ€beamâ€induced current contrast of grain boundaries in siliconâ€onâ€insulator films. Journal of Applied Physics, 1987, 61, 5475-5477.	1.1	1
570	Crack initiation in a Ni-base superalloy. Scripta Metallurgica, 1987, 21, 1481-1486.	1.2	1
571	Enhanced Wear Resistance by Compressive Strengthening a Novel Combination of Laser and Ion Implantation Technology. Materials Research Society Symposia Proceedings, 1988, 128, 403.	0.1	1
572	Interaction between Lattice Dislocations and Grain Boundaries in Ordered Compounds: Theory and Experiment. Materials Research Society Symposia Proceedings, 1990, 186, 253.	0.1	1
573	Interaction Between Lattice Dislocations and Grain Boundaries In Ordered Compounds. Materials Research Society Symposia Proceedings, 1990, 213, 429.	0.1	1
574	In-situ study of deformation-enhanced atomic diffusion in NaCl by nuclear magnetic resonance. Radiation Effects and Defects in Solids, 1991, 119-121, 771-776.	0.4	1
575	Scanning Tunneling Microscopy on Charge Density Waves in Layered Compounds. Materials Research Society Symposia Proceedings, 1992, 295, 15.	0.1	1
576	Structure-Property Relationship of Metal-Ceramic Interfaces Produced by Laser Processing. Materials Research Society Symposia Proceedings, 1993, 319, 21.	0.1	1

#	Article	IF	CITATIONS
577	Highly pressurized Kr agglomerates in sputtered Si films. Thin Solid Films, 1994, 241, 12-15.	0.8	1
578	Structure and Giant Magneto-Resistive Properties of Co and CoFe nano-particles in a Au matrix. Materials Research Society Symposia Proceedings, 2001, 676, 821.	0.1	1
579	Determination of the Σ21 [211] orientational relationship in a MgO/Cu composite. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 316, 87-92.	2.6	1
580	Electron beam induced oxidation of Ni3Al surfaces: electron flux effects. Surface Science, 2002, 507-510, 486-491.	0.8	1
581	Nano-porosity in silica reinforced methyltrimethoxysilane coatings studied by positron beam analysis. Composites Science and Technology, 2003, 63, 1133-1139.	3.8	1
582	In-situ TEM Observation of Gold Nanocluster Nucleation, Coarsening and Refining in Au Implanted MgO(100) Foils. AIP Conference Proceedings, 2003, , .	0.3	1
583	Influence of self-affine roughness on the detachment stress at an elastic-inelastic interface. Physical Review B, 2004, 69, .	1.1	1
584	Nanocomposite TiC/a-C coatings: structure and properties. Materials Research Society Symposia Proceedings, 2004, 843, 161.	0.1	1
585	In-situ NMR study of dislocation motion in Ca++-doped NaCl crystals. Solid State Communications, 2004, 129, 727-731.	0.9	1
586	Thermally induced delamination of amorphous hydrogenated carbon coatings monitored by positron beam analysis. Surface and Coatings Technology, 2004, 180-181, 207-212.	2.2	1
587	Influence of metal–oxide interfaces on L12 ordering in Cu3Pd. Acta Materialia, 2004, 52, 4651-4658.	3.8	1
588	Influence of surface roughness on capillary and Casimir forces. , 2007, , .		1
589	Jerky-type phenomena at nanocomposite surfaces: The breakdown of the Coulomb friction law. Jom, 2007, 59, 45-49.	0.9	1
590	Reversible Electrical Resistance Switching in GeSbTe Thin Films: An Electrolytic Approach without Amorphous-Crystalline Phase-Change. Materials Research Society Symposia Proceedings, 2008, 1071, 1.	0.1	1
591	Localized electronic states near dislocations in transition metals. International Journal of Quantum Chemistry, 2009, 14, 469-482.	1.0	1
592	Microstructural characterization of surface damage through ultra-short laser pulses. , 2014, , .		1
593	Evolution of grain structure in deformed metal-polymer laminates. Journal of Materials Science, 2014, 49, 8335-8342.	1.7	1
594	Gyroid Nickel Nanostructures from Diblock Copolymer Supramolecules. Journal of Visualized Experiments, 2014, , .	0.2	1

#	Article	IF	CITATIONS
595	FIB-Etching of Polymer/Metal Laminates and its Effect on Mechanical Performance. Microscopy and Microanalysis, 2014, 20, 1826-1834.	0.2	1
596	Vapour confinement as a strategy to fabricate metal and bimetallic nanostructures. Nanoscale Advances, 2020, 2, 4251-4260.	2.2	1
597	Depth Profile Analysis of Thin Oxide Layers on Polycrystalline Fe–Cr. Microscopy and Microanalysis, 2020, 26, 112-119.	0.2	1
598	Advances in transmission electron microscopy: in situ nanoindentation and in situ straining experiments. , 2008, , 463-464.		1
599	On the GHz Frequency Response in Nanocrystalline FeXN Ultra-Soft Magnetic Films. Materials Research Society Symposia Proceedings, 2002, 720, 3141.	0.1	1
600	THE GROWTH OF A PASSIVE FILM ON STEEL STUDIED WITH IN-SITU AFM. WIT Transactions on Engineering Sciences, 2017, , .	0.0	1
601	SURFACE DEGRADATION OF NANOCRYSTALLINE ZIRCONIA DENTAL IMPLANTS. , 2017, , .		1
602	Surface melting of copper by ultrashort laser pulses. , 2011, , .		1
603	DYNAMICS OF TEMPERING PROCESSES IN STAINLESS STEEL. , 2017, , .		1
604	Computer simulation study of the entropy of a edge dislocation in B.C.C. iron. Scripta Metallurgica, 1978, 12, 413-416.	1.2	0
605	Dislocation Motion in Metals Investigated by Means of Pulsed Nuclear Magnetic Resonance. Materials Research Society Symposia Proceedings, 1980, 3, 421.	0.1	0
606	Nuclear Spin Relaxation Investigations on the Influence of Impurities and Temperature on the Mean Free Path of Mobile Dislocations in Nacl. Materials Research Society Symposia Proceedings, 1980, 3, 481.	0.1	0
607	Dislocation dynamics in doped NaCl single crystals determined by pulsed NMR between RT and 300°C. Radiation Effects, 1983, 74, 323-328.	0.4	0
608	Order-Disorder Transitions in Ternary Alloys A Study on the Microstructure of L10 and L12 Alloys. Materials Research Society Symposia Proceedings, 1983, 21, 277.	0.1	0
609	Solution strengthening in Alî—,Zn A nuclear magnetic resonance study. Scripta Metallurgica, 1985, 19, 499-504.	1.2	0
610	Dislocation Dynamics Investigated by Means of Nuclear Magnetic Resonance a Complementarynew Technique. Materials Research Society Symposia Proceedings, 1986, 82, 303.	0.1	0
611	Density of oxidationâ€induced stacking faults in damaged silicon. Journal of Applied Physics, 1986, 60, 1530-1532.	1.1	0
612	Differences Between the Atomic Structures of Grain Boundaries in Pure F. C. C. Metals and L12 Ordered Compounds. Materials Research Society Symposia Proceedings, 1988, 122, 139.	0.1	0

#	Article	IF	CITATIONS
613	Computer Generated Structures of Grain Boundaries in L12-Type Ordered Alloys. Materials Research Society Symposia Proceedings, 1988, 122, 145.	0.1	Ο
614	A Nuclear Magnetic Resonance and Transmission Electron Microscopic Studyof Moving Dislocations in Ternary Al-Base Alloys. Materials Research Society Symposia Proceedings, 1988, 138, 111.	0.1	0
615	Field ion Microscopy of Quasicrystals. Materials Research Society Symposia Proceedings, 1988, 138, 341.	0.1	Ο
616	Enhanced Wear Resistance by Compressive Strengthening a Novel Combination of Laser and Ion Implantation Technology. Materials Research Society Symposia Proceedings, 1988, 140, 147.	0.1	0
617	Field Ion Microscopy of Quasicrystals. Materials Research Society Symposia Proceedings, 1989, 139, 51.	0.1	Ο
618	Atomic Structure Calculations of the Interaction between Lattice Dislocations and Grain Boundaries. Materials Research Society Symposia Proceedings, 1990, 193, 205.	0.1	0
619	Dislocation Dynamics In B.C.C. Metals: A Nuclear Magnetic Resonance and Transmission Electron Microscopic Study. Materials Research Society Symposia Proceedings, 1990, 209, 311.	0.1	0
620	Scanning Tunneling Microscopy Imaging of Defects in Layered Compounds. Materials Research Society Symposia Proceedings, 1990, 209, 605.	0.1	0
621	Imaging the Al-SiC interface region by HREM techniques. Micron and Microscopica Acta, 1990, 21, 281-282.	0.2	0
622	On the Interactions Between Lattice Dislocations and Grain Boundaries in Ordered Compounds. Materials Research Society Symposia Proceedings, 1992, 288, 299.	0.1	0
623	Hrem Investigation of Ai-MgO Interface. Materials Research Society Symposia Proceedings, 1993, 319, 15.	0.1	0
624	Depth profile and stress measurements on implanted layers. Radiation Effects and Defects in Solids, 1994, 132, 193-201.	0.4	0
625	Morphologies and Growth Modes of Fesi and β-Fesi2 Layers Prepared by Rapid Thermal Annealing. Materials Research Society Symposia Proceedings, 1995, 402, 373.	0.1	0
626	Growth Front Roughening of Room Temperature Deposited Oligomer Thin Films. Materials Research Society Symposia Proceedings, 2000, 648, 1.	0.1	0
627	Influence of Oxidation On Boron Sgregation to Grain Boundaries of In-Situ Fractured Ni3Al Alloys. Materials Research Society Symposia Proceedings, 2000, 654, 3121.	0.1	0
628	Surface fatigue resistance of tool steel coated with thin brittle PVD layers. Tribology Series, 2000, 38, 139-144.	0.1	0
629	Stress Development and Adhesion Behavior in Thin Ceramic Coatings Monitored by Positron Annihilation During Bending. Materials Research Society Symposia Proceedings, 2001, 695, 1.	0.1	0
630	Influence of interfacial binding energy and misfit on the shape of the oxide precipitates in metals. Radiation Effects and Defects in Solids, 2001, 156, 19-26.	0.4	0

#	Article	IF	CITATIONS
631	Influence of quasi-layer-by-layer roughness on proximity effects in thin film superconducting/normal-metal junctions. Physica C: Superconductivity and Its Applications, 2001, 355, 211-216.	0.6	0
632	Microstructure and properties of giant magneto-resistant Au 80 Co 20 , Au 80 Co 10 Fe 10 , Cu 70 Ni 25 Fe 4 Mn and Cu 53 Ni 31 Fe 15 Mn. Scripta Materialia, 2001, 44, 1461-1464.	2.6	0
633	Laser penetration spike welding: a welding tool enabling novel process and design opportunities. , 2002, 4637, 555.		0
634	Quantitative Characterization Of Morphological Evolution In Q = 2 Potts Model Aluminum Thin Films. Materials Research Society Symposia Proceedings, 2002, 749, 1.	0.1	0
635	Time-of-flight atom probe measurements on Ni3Al and Co3W. Ultramicroscopy, 2003, 95, 207-213.	0.8	0
636	Structural Stability of Nano-Sized Clusters. Materials Research Society Symposia Proceedings, 2003, 791, 1.	0.1	0
637	In situ transmission electron microscopy of nano-sized metal clusters. Materials Research Society Symposia Proceedings, 2004, 839, 161.	0.1	Ο
638	Bonding at Metal-Ceramic Interfaces Studied with High Resolution Transmission Electron Microscopy. , 2005, , 207-220.		0
639	Local Probe Scanning Auger-Electron Microscopy Studies of Segregation Effects upon In-Situ Fracture. , 2005, , 87-92.		Ο
640	In-situ Tensile Testing of SiCp -Al Metal Matrix Composite Produced by Laser Embedding. , 2006, , 223-228.		0
641	Ti-6Al-4V with Laser Embedded SiC Particles: An Electron Microscopy Study. , 2006, , 36-41.		Ο
642	WidmanstÃæen Co3 W: HRTEM study of DO19 precipitation in an fcc matrix. , 2006, , 368-372.		0
643	Electron Microscopy Characterization of Nanostructured Coatings. Nanostructure Science and Technology, 2006, , 143-215.	0.1	Ο
644	Laser cladding of Al-Si/SiC composite coatings: Microstructure and abrasive wear behavior. , 2007, , .		0
645	Determining the mass density of a hydrocarbon matrix in thin-film nanocomposites by ion-beam techniques. Technical Physics Letters, 2007, 33, 919-922.	0.2	Ο
646	Domain formation in lead titanate ferroelectric thin films. , 2008, , .		0
647	Crystal Growth Rates in Doped SbxTe Fast-Growth Phase-Change Films Studied with Transmission Electron Microscopy. Materials Research Society Symposia Proceedings, 2008, 1072, 1.	0.1	0
648	In-situ TEM investigation of deformation behavior of metallic glass pillars. Materials Research Society Symposia Proceedings, 2009, 1185, 106.	0.1	0

#	Article	IF	CITATIONS
649	Piezoresponse Force Microscopy Characterization of PTO Thin Films. Materials Research Society Symposia Proceedings, 2009, 1186, 19.	0.1	0
650	Electron microscopy characterization of W-O multilayers. Microscopy and Microanalysis, 2009, 15, 59-60.	0.2	0
651	Tribological behavior of micron-scale polycrystalline silicon structural films in ambient air. Proceedings of SPIE, 2009, , .	0.8	0
652	Selected Peer-Reviewed Papers from 2nd International Conference on Surfaces, Coatings and Nanostructured Materials (NANOSMAT 2007). Journal of Nanoscience and Nanotechnology, 2009, 9, 3353-3354.	0.9	0
653	<i>A Special Section on</i> The International Conference on Surfaces, Coatings and Nanostructured Materials (NANOSMAT 2008). Journal of Nanoscience and Nanotechnology, 2010, 10, 1030-1031.	0.9	0
654	Selected Peer-Reviewed Articles from NANOSMAT 2009. Journal of Nanoscience and Nanotechnology, 2011, 11, 8639-8641.	0.9	0
655	"A Breakthrough Is Something You Don't See Coming― Progress in Materials Science, 2011, 56, 573-576	6.16.0	0
656	Formation of chain aggregates in external electric field. Chemical Physics Letters, 2013, 570, 104-108.	1.2	0
657	On the YFe11Mo intermetallic characterization. Microscopy and Microanalysis, 2013, 19, 135-136.	0.2	0
658	Preface special issue NANOSMAT 2014, Dublin, Ireland. Surface and Coatings Technology, 2015, 271, 1.	2.2	0
659	Modelling of Temperature Effects in Plastic Deformation. , 0, , 78-84.		0
660	Microstructural evolution of TiC/a-C nanocomposite coatings with pulsed magnetron sputtering. WIT Transactions on Engineering Sciences, 2007, , .	0.0	0
661	Microstructural and tribological observations in metallic glass forming alloy layers produced by high-power lasers. WIT Transactions on Engineering Sciences, 2007, , .	0.0	0
662	Dynamic smoothening and tribological properties of pulsed-DC sputtered DLC based nanocomposite films. , 2009, , .		0
663	Modification of rubber surface with DLC thin films for low friction and self lubrication. WIT Transactions on Engineering Sciences, 2009, , .	0.0	0
664	Experimental approach to eliminate Start/Stop defects in laser cladding. , 2011, , .		0
665	Evaluation of residual stresses in laser clad coating at the micrometer scale. , 2011, , .		0
666	Flexible protective DLC films on rubber: fundamental concepts and applications. WIT Transactions on Engineering Sciences, 2011, , .	0.0	0

#	Article	IF	CITATIONS
667	Flexible DLC film coated rubber: friction and the effect of viscoelastic deformation of rubber substrate. WIT Transactions on Engineering Sciences, 2013, , .	0.0	0
668	Thickness and waviness of surface coatings formed by overlap: modelling and experiment. WIT Transactions on Engineering Sciences, 2013, , .	0.0	0
669	Prediction of coating geometry: theory and experiment. , 2015, , .		0
670	MICROSTRUCTURE TRANSFORMATION OF ALPHA-TITANIUM AFTER MECHANICAL AND LASER FORMING. , 2017,		0
671	Galileo Comes to the Surface!. , 0, , 1-26.		0
672	B4C Coated Carbon Fibre Reinforced Si,N4. , 0, , 194-202.		0