

# Jerzy Morgiel

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8046165/publications.pdf>

Version: 2024-02-01

175  
papers

2,779  
citations

218677

26  
h-index

254184

43  
g-index

175  
all docs

175  
docs citations

175  
times ranked

2932  
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of Actuators for Repairing Cracks by Coating W Wires with Reactive Multilayers. <i>Materials</i> , 2022, 15, 869.	2.9	0
2	TEM Observations of the Microstructural Changes in the Interfacial Zone of Explosively Welded Titanium/Steel Before and After <i>Ex Situ</i> and <i>In Situ</i> Heat Treatment. <i>Microscopy and Microanalysis</i> , 2022, , 1-8.	0.4	0
3	Microstructure, Thermal and Mechanical Properties of Refractory Linings Modified with Polymer Fibers. <i>Ceramics</i> , 2022, 5, 173-181.	2.6	1
4	Nano-columnar, self-organised NiCrC/a-C:H thin films deposited by magnetron sputtering. <i>Applied Surface Science</i> , 2022, 591, 153134.	6.1	2
5	The effect of Re addition on the thermal stability and structure of Ni-P electroless coatings. <i>Materials Characterization</i> , 2021, 171, 110811.	4.4	12
6	Wetting and interfacial reactivity of Ni-Al alloys with Al <sub>2</sub> O <sub>3</sub> and ZrO <sub>2</sub> ceramics. <i>Journal of Materials Science</i> , 2021, 56, 7849-7861.	3.7	6
7	Formation of Nitrogen Doped Titanium Dioxide Surface Layer on NiTi Shape Memory Alloy. <i>Materials</i> , 2021, 14, 1575.	2.9	3
8	The Microstructure and Properties of Laser Shock Peened CMSX4 Superalloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2021, 52, 2845-2858.	2.2	8
9	(Ti,Al)O <sub>2</sub> Whiskers Grown during Glow Discharge Nitriding of Ti-6Al-7Nb Alloy. <i>Materials</i> , 2021, 14, 2658.	2.9	4
10	Microstructural Characterization of Nb/Inconel 601 Interface Obtained in the Explosive Welding Process. <i>Microscopy and Microanalysis</i> , 2021, , 1-8.	0.4	1
11	Hardness anisotropy and active slip systems in a (Hf-Ta-Zr-Nb)C high-entropy carbide during nanoindentation. <i>International Journal of Refractory Metals and Hard Materials</i> , 2021, 100, 105646.	3.8	13
12	The Influence of Pd and Zr Co-Doping on the Microstructure and Oxidation Resistance of Aluminide Coatings on the CMSX-4 Nickel Superalloy. <i>Materials</i> , 2021, 14, 7579.	2.9	2
13	Thermal stability of plasma-sprayed NiAl/CrB <sub>2</sub> composite coatings investigated through in-situ TEM heating experiment. <i>Materials Characterization</i> , 2020, 159, 110068.	4.4	10
14	TEM investigations of active screen plasma nitrided Ti6Al4V and Ti6Al7Nb alloys. <i>Surface and Coatings Technology</i> , 2020, 383, 125268.	4.8	13
15	Effect of Deposition Parameters on the Reactivity of Al/Ni Multilayer Thin Films. <i>Coatings</i> , 2020, 10, 721.	2.6	3
16	Enhancement of fracture toughness of hot-pressed NiAl-Re material by aluminum oxide addition. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 790, 139670.	5.6	10
17	Improvement of Corrosion Resistance of 13CrMo4-5 Steel by Ni-Based Laser Cladding Coatings. <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 3702-3713.	2.5	5
18	TEM analysis of surface layer of Ti-6Al-4V ELI alloy after slide burnishing and low-temperature gas nitriding. <i>Applied Surface Science</i> , 2020, 515, 145942.	6.1	34

#	ARTICLE	IF	CITATIONS
19	Micro-analytical studies of discontinuous precipitation in Fe-13.5 at.% Zn alloy. Archives of Civil and Mechanical Engineering, 2020, 20, 1.	3.8	4
20	Effect of nitriding conditions of Ti6Al7Nb on microstructure of TiN surface layer. Journal of Alloys and Compounds, 2020, 845, 156320.	5.5	20
21	Interface Studies in HgTe/HgCdTe Quantum Wells. Physica Status Solidi (B): Basic Research, 2020, 257, 1900598.	1.5	4
22	Microstructure and Wear of (CrN/CrAlN)/(CrAlN/VN) and (CrN/TiAlN)/(TiAlN/VN) Coatings for Molds Used in High Pressure Casting of Aluminum. Coatings, 2020, 10, 261.	2.6	7
23	Influence of regulated modification of nitride layer by oxygen on the electrochemical behavior of Ti-6Al-4V alloy in the Ringer's solution. Materials and Corrosion - Werkstoffe Und Korrosion, 2019, 70, 2320-2325.	1.5	7
24	Microstructure of Coatings on Nickel and Steel Platelets Obtained by Co-Milling with NiAl and CrB2 Powders. Materials, 2019, 12, 2593.	2.9	2
25	Quasi-amorphous, nanostructural CoCrMoC/a-C:H coatings deposited by reactive magnetron sputtering. Surface and Coatings Technology, 2019, 378, 124910.	4.8	7
26	Perforated alumina templates as a tool for engineering of CoPd film magnetic properties. Journal of Magnetism and Magnetic Materials, 2019, 477, 182-189.	2.3	7
27	On the morphological investigation of Pt dispersion and structure of alumina-platinum composites obtained by thermal oxidation of Al-Pt nano thin layers. Nano Structures Nano Objects, 2019, 17, 229-238.	3.5	3
28	Microstructure and properties of laser interference crystallized amorphous FeSiB ribbon. International Journal of Materials Research, 2019, 110, 11-17.	0.3	3
29	Microstructure and wear of thermal sprayed composite NiAl-based coatings. Archives of Civil and Mechanical Engineering, 2019, 19, 1095-1103.	3.8	15
30	SHS reaction of Ti/Al multilayers and resistive heating used for joining of Ti-6Al-4V alloy. Materials Characterization, 2019, 154, 31-39.	4.4	3
31	Effect of Powder Preparation on the Microstructure and Wear of Plasma-Sprayed NiAl/CrB2 Composite Coatings. Journal of Thermal Spray Technology, 2019, 28, 1039-1048.	3.1	8
32	Arsenic-ion implantation-induced defects in HgCdTe films studied with Hall-effect measurements and mobility spectrum analysis. Infrared Physics and Technology, 2019, 98, 230-235.	2.9	14
33	The effect of post-process annealing on optical and electrical properties of mixed HfO2-TiO2 thin film coatings. Journal of Materials Science: Materials in Electronics, 2019, 30, 6358-6369.	2.2	6
34	In-situ investigation of phase transformations during heating of AlCoCrCuNi high entropy melt-spun ribbons. Materials Characterization, 2019, 148, 134-141.	4.4	7
35	TEM studies of low temperature cathode-plasma nitrided Ti6Al7Nb alloy. Surface and Coatings Technology, 2019, 359, 183-189.	4.8	11
36	Effect of temperature on gas oxynitriding of Ti-6Al-4V alloy. Surface and Coatings Technology, 2019, 360, 103-109.	4.8	15

#	ARTICLE	IF	CITATIONS
37	Microstructure of Ti/Al multilayer foils ignited with electric current. International Journal of Materials Research, 2019, 110, 60-65.	0.3	1
38	Microstructure and hardness of Ti6Al4V/NiAl/Ti6Al4V joints obtained through resistive heating. Journal of Materials Processing Technology, 2018, 255, 689-695.	6.3	7
39	Effect of Mo addition on corrosion of Zn coatings electrodeposited on steel. Corrosion Science, 2018, 135, 107-119.	6.6	26
40	Influence of pulsed current during high pressure sintering on crystallite size and phase composition of diamond with Ti B bonding phase. International Journal of Refractory Metals and Hard Materials, 2018, 70, 101-106.	3.8	8
41	Effect of high-pressure torsion on grain refinement, strength enhancement and uniform ductility of EZ magnesium alloy. Materials Letters, 2018, 212, 323-326.	2.6	65
42	Ni-Cr-Ta-Al-C complex phase alloy " Design, microstructure and properties. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 711, 99-108.	5.6	2
43	Comparison of the Physicochemical Properties of TiO <sub>2</sub> Thin Films Obtained by Magnetron Sputtering with Continuous and Pulsed Gas Flow. Coatings, 2018, 8, 412.	2.6	52
44	Development of pore-free Ti-Al-C MAX/Al-Si MMC composite materials manufactured by squeeze casting infiltration. Materials Characterization, 2018, 146, 182-188.	4.4	12
45	Effect of Pd and Hf co-doping of aluminide coatings on pure nickel and CMSX-4 nickel superalloy. Archives of Civil and Mechanical Engineering, 2018, 18, 1421-1429.	3.8	9
46	Shear Strength of Reactive Resistance Welded Ti6Al4V Parts with the Use of Ni(V)/Al Multilayers. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 5423-5427.	2.2	3
47	Influence of low temperature plasma oxynitriding on the mechanical behavior of NiTi shape memory alloys. Vacuum, 2018, 156, 135-139.	3.5	9
48	SEM/TEM Investigation of Aluminide Coating Co-Doped with Pt and Hf Deposited on Inconel 625. Materials, 2018, 11, 898.	2.9	4
49	Multi-scale characterization and biological evaluation of composite surface layers produced under glow discharge conditions on NiTi shape memory alloy for potential cardiological application. Micron, 2018, 114, 14-22.	2.2	14
50	Influence of rhenium addition on microstructure, mechanical properties and oxidation resistance of NiAl obtained by powder metallurgy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 735, 121-130.	5.6	26
51	Microstructure and positron lifetimes of zirconium modified aluminide coatings. Archives of Civil and Mechanical Engineering, 2018, 18, 1150-1155.	3.8	10
52	Modification of various properties of HfO <sub>2</sub> thin films obtained by changing magnetron sputtering conditions. Surface and Coatings Technology, 2017, 320, 426-431.	4.8	19
53	In-situ transmission electron microscopy observations of nucleation and growth of intermetallic phases during reaction of Ni(V)/Al multilayers. Thin Solid Films, 2017, 621, 165-170.	1.8	14
54	Effect of low and high heating rates on reaction path of Ni(V)/Al multilayer. Materials Chemistry and Physics, 2017, 193, 244-252.	4.0	16

#	ARTICLE	IF	CITATIONS
55	Thermal characteristics and amorphization in plasma spray deposition of Ni-Si-B-Ag alloy. Journal of Alloys and Compounds, 2017, 710, 685-691.	5.5	4
56	Amorphous FeCrNi/a-C:H coatings with self-organized nanotubular structure. Scripta Materialia, 2017, 136, 24-28.	5.2	15
57	Reactive resistance welding of Ti6Al4V alloy with the use of Ni(V)/Al multilayers. Physica Status Solidi - Rapid Research Letters, 2017, 11, 1600405.	2.4	4
58	TEM investigations of wear mechanism of Al <sub>2</sub> O <sub>3</sub> and Si <sub>3</sub> N <sub>4</sub> compacts with GLPs additions. Ceramics International, 2017, 43, 8334-8342.	4.8	4
59	Enhanced thermal stability of a quasicrystalline phase in rapidly solidified Al-Mn-Fe-X alloys. Journal of Alloys and Compounds, 2017, 702, 216-228.	5.5	16
60	Ultrasound-assisted electrodeposition of Ni and Ni-Mo coatings from a citrate-ammonia electrolyte solution. Journal of Alloys and Compounds, 2017, 726, 410-416.	5.5	37
61	In situ TEM observation of reaction of Ti/Al multilayers. Archives of Civil and Mechanical Engineering, 2017, 17, 188-198.	3.8	6
62	TEM observations of reactive bonded Ti6Al4V alloy. Materials Letters, 2017, 189, 38-41.	2.6	3
63	Coating of Tungsten Wire with Ni/Al Multilayers for Self-Healing Applications. Metals, 2017, 7, 574.	2.3	5
64	Microstructure and oxidation behaviour investigation of rhodium modified aluminate coating deposited on CMSX 4 superalloy. Journal of Microscopy, 2016, 261, 320-325.	1.8	12
65	Thermally Induced Crystallization of TiB <sub>x</sub> Thin Film after Deposition by Dual Beam IBAD Method. Materials Today: Proceedings, 2016, 3, 2646-2651.	1.8	4
66	Structural and mechanical aspects of multilayer graphene addition in alumina matrix composites – validation of computer simulation model. Journal of the European Ceramic Society, 2016, 36, 4171-4179.	5.7	30
67	Mechanisms of the formation of low spatial frequency LIPSS on Ni/Ti reactive multilayers. Journal Physics D: Applied Physics, 2016, 49, 365103.	2.8	26
68	Wetting Behavior and Reactivity Between AlTi <sub>6</sub> Alloy and Carbon Nanotubes. Journal of Materials Engineering and Performance, 2016, 25, 3317-3329.	2.5	2
69	Effect of heat treatment on magnetostructural transformations and exchange bias in Heusler Ni <sub>48</sub> Mn <sub>39.5</sub> Sn <sub>9.5</sub> Al <sub>3</sub> ribbons. Acta Materialia, 2016, 103, 30-45.	7.9	26
70	Microstructure and mechanical properties of the new Nb <sub>25</sub> Sc <sub>25</sub> Ti <sub>25</sub> Zr <sub>25</sub> eutectic high entropy alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 651, 590-597.	5.6	96
71	Microstructure Development in Multilayer TiB <sub>x</sub> /TiSi <sub>y</sub> C <sub>z</sub> Coatings during Post-Deposition Heat Treatment. Acta Physica Polonica A, 2016, 130, 1124-1126.	0.5	2
72	Microstructure and interfacial reactions in the bonding zone of explosively welded Zr700 and carbon steel plates. International Journal of Materials Research, 2015, 106, 782-792.	0.3	27

#	ARTICLE	IF	CITATIONS
73	Novel multilayer nano-composite protective coatings for metallic medical tools. International Journal of Materials Research, 2015, 106, 804-809.	0.3	1
74	Phase transformations in Ni/Ti multilayers investigated by synchrotron radiation-based x-ray diffraction. Journal of Alloys and Compounds, 2015, 646, 1165-1171.	5.5	17
75	In-situ TEM heating of Ni/Al multilayers. International Journal of Materials Research, 2015, 106, 703-710.	0.3	8
76	Nanoparticles in hafnium-doped aluminide coatings. Materials Letters, 2015, 145, 162-166.	2.6	9
77	Oxidation and diffusion processes during annealing of TiSi(V)N films. Surface and Coatings Technology, 2015, 275, 120-126.	4.8	24
78	Influence of the structural and surface properties on photocatalytic activity of TiO <sub>2</sub> :Nd thin films. Polish Journal of Chemical Technology, 2015, 17, 103-111.	0.5	5
79	First stage of reaction of molten Al with MgO substrate. Materials Characterization, 2015, 103, 133-139.	4.4	9
80	Properties of Alumina Matrix Composites Reinforced with Nickel-coated Graphene. Materials Today: Proceedings, 2015, 2, 376-382.	1.8	11
81	TEM analysis of the hafnium-doped aluminide coating deposited on Inconel 100 superalloy. Vacuum, 2015, 116, 115-120.	3.5	8
82	Effect of the nanocrystalline structure type on the optical properties of TiO <sub>2</sub> :Nd (1at.%) thin films. Optical Materials, 2015, 42, 423-429.	3.6	10
83	Effect of Nd doping on structure and improvement of the properties of TiO <sub>2</sub> thin films. Surface and Coatings Technology, 2015, 270, 57-65.	4.8	21
84	On the wear of TiB <sub>x</sub> /TiSi <sub>y</sub> C <sub>z</sub> coatings deposited on 316L steel. International Journal of Materials Research, 2015, 106, 758-763.	0.3	4
85	Influence of Nd dopant amount on microstructure and photoluminescence of TiO <sub>2</sub> :Nd thin films. Optical Materials, 2015, 48, 172-178.	3.6	14
86	Nanoparticles in zirconium-doped aluminide coatings. Materials Letters, 2015, 139, 50-54.	2.6	14
87	Effect of silver on cellulose fibre colour. Coloration Technology, 2014, 130, 424-431.	1.5	10
88	New estimate of phase sequence in diffusive layer formed on plasma nitrided Ti-6Al-4V alloy. Surface and Coatings Technology, 2014, 259, 473-482.	4.8	33
89	Effect of reinforcement particle size on microstructure and mechanical properties of AlZnMgCu/AlN nano-composites produced using mechanical alloying. Journal of Alloys and Compounds, 2014, 586, S423-S427.	5.5	17
90	Structure and properties of diffusive titanium nitride layers produced by hybrid method on AZ91D magnesium alloy. Transactions of Nonferrous Metals Society of China, 2014, 24, 2767-2775.	4.2	13

#	ARTICLE	IF	CITATIONS
91	Microstructure and Strength of Al <sub>2</sub> O <sub>3</sub> and Carbon Fiber Reinforced 2024 Aluminum Alloy Composites. Journal of Materials Engineering and Performance, 2014, 23, 2801-2808.	2.5	23
92	Atomic scale structure investigations of epitaxial Fe/Cr multilayers. Applied Surface Science, 2014, 305, 154-159.	6.1	5
93	Thermal stability of nanoscale metallic multilayers. Thin Solid Films, 2014, 571, 268-274.	1.8	21
94	D-gun Sprayed Fe-Al Single Particle Solidification. Archives of Metallurgy and Materials, 2014, 59, 211-220.	0.6	12
95	Characterization of Alumina Scale Formed on FeCrAl Steel. Archives of Metallurgy and Materials, 2014, 59, 77-81.	0.6	8
96	Indentation fatigue of WC-Co cemented carbides. International Journal of Refractory Metals and Hard Materials, 2013, 41, 229-235.	3.8	26
97	Structural properties of transparent Ti-V oxide semiconductor thin films. Open Physics, 2013, 11, .	1.7	3
98	Relation between microstructure and hardness of nano-composite CrN/Si <sub>3</sub> N <sub>4</sub> coatings obtained using CrSi single target magnetron system. Vacuum, 2013, 90, 170-175.	3.5	8
99	Nanoindentation of WC-Co hardmetals. Journal of the European Ceramic Society, 2013, 33, 2227-2232.	5.7	66
100	Tem Investigation of Phases Formed During Aluminium Wetting of MgO at [100], [110] and [111] Orientations. Archives of Metallurgy and Materials, 2013, 58, 497-500.	0.6	5
101	Characterization of Carbon Nanofibers/ ZrO <sub>2</sub> Ceramic Matrix Composite. Archives of Metallurgy and Materials, 2013, 58, 459-463.	0.6	5
102	Effect of Silicon Additions in CrSi (10, 20, 30, 40 at. % Si) Magnetron Targets on Microstructure of Reactively Deposited (Cr,Si)N Coatings. Solid State Phenomena, 2012, 186, 182-187.	0.3	2
103	Microstructure of LaNi <sub>5</sub> Base Nanopowders Produced by High Energy Ball Milling. Solid State Phenomena, 2012, 186, 124-129.	0.3	0
104	TEM Investigation of Metal/Ceramic Interfaces in AA7475/AlN or Al <sub>2</sub> O <sub>3</sub> Nano-Composites. Solid State Phenomena, 2012, 186, 202-205.	0.3	2
105	Microstructure and Deposition Relations in Alumina Particle Strengthened Ni-W Matrix Composites. Solid State Phenomena, 2012, 186, 234-238.	0.3	4
106	Electron Diffraction Based Analysis of Phase Fractions and Texture in Nanocrystalline Thin Films, Part III: Application Examples. Microscopy and Microanalysis, 2012, 18, 406-420.	0.4	64
107	Screen-printed (La,Sr)CrO <sub>3</sub> coatings on ferritic stainless steel interconnects for solid oxide fuel cells using nanopowders prepared by means of ultrasonic spray pyrolysis. Journal of Power Sources, 2012, 208, 86-95.	7.8	35
108	A comparative study of the effect of mechanical and ultrasound agitation on the properties of electrodeposited Ni/Al <sub>2</sub> O <sub>3</sub> nanocomposite coatings. Surface and Coatings Technology, 2012, 206, 2998-3005.	4.8	100



#	ARTICLE	IF	CITATIONS
109	Microstructure and fracture toughness of Si <sub>3</sub> N <sub>4</sub> +graphene platelet composites. Journal of the European Ceramic Society, 2012, 32, 3389-3397.	5.7	151
110	Microstructure and Biocompatibility of Titanium Oxides Produced on Nitrided Surface Layer Under Glow Discharge Conditions. Journal of Nanoscience and Nanotechnology, 2011, 11, 8917-8923.	0.9	19
111	Detonation Deposited Fe-Al Coatings Part II: Transmission Electron Microscopy of Interlayers and Fe-Al Intermetallic Coating Detonation Sprayed onto the O45 Steel Substrate. Archives of Metallurgy and Materials, 2011, 56, 71-79.	0.6	12
112	Microstructure and Wear Behavior of Conventional and Nanostructured Plasma-Sprayed WC-Co Coatings. Journal of Thermal Spray Technology, 2010, 19, 964-974.	3.1	42
113	Silver nanocluster-silica composite coatings with antibacterial properties. Materials Chemistry and Physics, 2010, 120, 123-126.	4.0	50
114	Wear resistance of hot-pressed Si <sub>3</sub> N <sub>4</sub> /SiC micro/nanocomposites sintered with rare-earth oxide additives. Wear, 2010, 269, 867-874.	3.1	46
115	Interactions between molten aluminum and Y <sub>2</sub> O <sub>3</sub> studied with TEM techniques. Journal of Microscopy, 2010, 237, 253-257.	1.8	14
116	TEM investigation of reaction zone products formed between molten Al and CoO monocrystalline substrate. Journal of Microscopy, 2010, 237, 299-303.	1.8	1
117	HREM characterization of nano-composite Au/SiO <sub>2</sub> layers. Journal of Microscopy, 2010, 237, 333-336.	1.8	1
118	Microstructure of electrodeposited NiFe/Cu multilayers. Journal of Microscopy, 2010, 237, 456-460.	1.8	12
119	TEM investigation of ductile iron alloyed with vanadium. Journal of Microscopy, 2010, 237, 461-464.	1.8	5
120	Nano-TiC obtained through a reaction of MWCNTs with Zr(Y,Ti)O <sub>2</sub> . Journal of Microscopy, 2010, 237, 487-496.	1.8	9
121	AFM, XRD and HRTEM Studies of Annealed FePd Thin Films. Acta Physica Polonica A, 2010, 117, 423-426.	0.5	11
122	Characterization of interfaces in ZrO <sub>2</sub> -carbon nanofiber composite. Scripta Materialia, 2009, 61, 253-256.	5.2	7
123	Hot pressed and spark plasma sintered zirconia/carbon nanofiber composites. Journal of the European Ceramic Society, 2009, 29, 3177-3184.	5.7	92
124	Microstructure and properties of cold consolidated amorphous ribbons from (NiCu)ZrTiAlSi alloys. Journal of Alloys and Compounds, 2009, 483, 74-77.	5.5	11
125	Production of intermetallic compounds from Ti/Al and Ni/Al multilayer thin films-A comparative study. Journal of Alloys and Compounds, 2009, 484, 335-340.	5.5	67
126	Reaction and diffusion phenomena upon oxidation of a (Ti <sub>3</sub> Al <sub>2</sub> ) TiAlNb alloy in air. Materials at High Temperatures, 2009, 26, 99-103.	1.0	10



#	ARTICLE	IF	CITATIONS
127	Deposition of Al <sub>2</sub> O <sub>3</sub> -TiO <sub>2</sub> Nanostructured Powders by Atmospheric Plasma Spraying. Journal of Thermal Spray Technology, 2008, 17, 329-337.	3.1	57
128	Microstructure Design and Tribological Properties of Cr/CrN and TiN/CrN Multilayer Films. Advanced Engineering Materials, 2008, 10, 617-621.	3.5	15
129	Effect of bilayer period on properties of Cr/CrN multilayer coatings produced by laser ablation. Surface and Coatings Technology, 2008, 202, 3501-3506.	4.8	69
130	Zirconia/carbon nanofiber composite. Scripta Materialia, 2008, 58, 520-523.	5.2	66
131	Scanning electron microscopy and transmission electron microscopy in situ studies of grain boundary migration in cold-deformed aluminium bicrystals. Journal of Microscopy, 2006, 223, 264-267.	1.8	4
132	Advances and problems with TEM characterization of Cr/CrN multilayer coatings. Journal of Microscopy, 2006, 223, 237-239.	1.8	2
133	Structure studies of ball-milled ZrCuAl, NiTiZrCu and melt-spun ZrNiTiCuAl alloys. Journal of Microscopy, 2006, 223, 268-271.	1.8	1
134	Defects formed within hardness indenter interaction zone in Al <sub>2</sub> O <sub>3</sub> /ZrO <sub>2</sub> composite. Journal of Microscopy, 2006, 223, 279-281.	1.8	0
135	Structure and properties of an alumina/amorphous-alumina/platinum catalytic system deposited on FeCrAl steel. Journal of Microscopy, 2006, 224, 46-48.	1.8	3
136	Growth structure and growth defects in pulsed laser deposited Cr <sub>1-x</sub> Cr <sub>x</sub> N <sub>1-x</sub> multilayer coatings. Surface and Coatings Technology, 2006, 200, 3644-3649.	4.8	13
137	Elastic TiN coating deposited on polyurethane by pulsed laser. Surface and Coatings Technology, 2006, 200, 6340-6345.	4.8	8
138	Crystallographic aspects related to advanced tribological multilayers of Cr/CrN and Ti/TiN types produced by pulsed laser deposition (PLD). Surface and Coatings Technology, 2006, 200, 6190-6195.	4.8	35
139	Scanning and transmission electron microscopy studies of the interface between the Ti-1223 phase and yttria doped zirconia substrates. Superconductor Science and Technology, 2006, 19, 493-496.	3.5	1
140	Ordering of the $\beta$ phase in TiNiCu and TiNiCuMn melt spun ribbons studied with the ALCHEMI technique. Materials Chemistry and Physics, 2003, 81, 230-232.	4.0	3
141	TEM examination of the effect of titanium on the Al/C interface structure. Materials Chemistry and Physics, 2003, 81, 319-322.	4.0	16
142	TEM characterization of the reaction products in aluminium-fly ash couples. Materials Chemistry and Physics, 2003, 81, 296-300.	4.0	16
143	Electron microscopy investigations of the cBN-Ti compound composites. Materials Chemistry and Physics, 2003, 81, 336-340.	4.0	20
144	SEM and HRTEM study of zirconium-based glass forming alloys cast at various cooling rates. Materials Chemistry and Physics, 2003, 81, 376-379.	4.0	5

#	ARTICLE	IF	CITATIONS
145	Analytical and HREM study of the early stages of SiO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> -(Mg, Zn)O glass crystallisation. <i>Materials Chemistry and Physics</i> , 2003, 81, 411-413.	4.0	4
146	Microstructure of Fe-25Cr/(La, Ca)CrO <sub>3</sub> composite interconnector in solid oxide fuel cell operating conditions. <i>Materials Chemistry and Physics</i> , 2003, 81, 434-437.	4.0	40
147	The effect of Mn partitioning in Fe-Mn-Si alloy investigated with STEM-EDS techniques. <i>Materials Chemistry and Physics</i> , 2003, 81, 466-468.	4.0	23
148	Study of Garnets by ALCHEMI. <i>Microscopy and Microanalysis</i> , 2001, 7, 358-359.	0.4	0
149	Growth of PLD Hg <sub>1-x</sub> Cd <sub>x</sub> Te films on Si-patterned substrates. , 2001, 4413, 55.		0
150	Effect of deposition temperature on the morphology, structure, surface chemistry and mechanical properties of magnetron sputtered Ti <sub>70</sub> -Al <sub>30</sub> thin films on steel substrate. <i>Surface and Coatings Technology</i> , 2001, 141, 252-261.	4.8	10
151	XPS study of the cBN-TiC system. <i>Ceramics International</i> , 2001, 27, 637-643.	4.8	57
152	Ti <sub>3</sub> SiC <sub>2</sub> as a bonding phase in diamond composites. <i>Journal of Materials Science Letters</i> , 2001, 20, 1783-1786.	0.5	28
153	Reactions and stresses in polycrystalline diamond-metal and diamond-carbide compacts. <i>High Pressure Research</i> , 2000, 18, 271-277.	1.2	2
154	A scanning photoemission microscope (SPEM) to study the interface chemistry of AlTi/C system. <i>Journal of Materials Science Letters</i> , 2000, 19, 123-126.	0.5	7
155	Sites are Separable in Garnets with ALCHEMI. <i>Mikrochimica Acta</i> , 2000, 132, 489-492.	5.0	1
156	Postdeposition relaxation of internal stress in sputter-grown thin films caused by ion bombardment. <i>Journal of Applied Physics</i> , 1999, 85, 841-852.	2.5	14
157	Thin films of HgCdTe on silicon surfaces. <i>Thin Solid Films</i> , 1998, 318, 33-37.	1.8	13
158	Silicon based multilayer structures prepared by reactive pulsed laser deposition. <i>Thin Solid Films</i> , 1998, 318, 154-157.	1.8	3
159	Microstructure and Hardness of cBN-Zr Composite. <i>Journal of the European Ceramic Society</i> , 1998, 18, 389-393.	5.7	5
160	Amorphization of the silicon substrate and stress-relaxation in HfN films bombarded with Au ions. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1998, 253, 328-336.	5.6	3
161	A New Method for the Measurement of Thickness in Single Crystals. <i>Micron</i> , 1998, 29, 425-430.	2.2	2
162	BN sintered with Al: Microstructure and hardness. <i>Ceramics International</i> , 1997, 23, 89-91.	4.8	21

#	ARTICLE	IF	CITATIONS
163	Microstructure of Ti <sub>3</sub> SiC <sub>2</sub> -based ceramics. Materials Letters, 1996, 27, 85-89.	2.6	41
164	Microstructure of boron nitride sintered with titanium. Materials Letters, 1995, 25, 49-52.	2.6	12
165	On the TEM/EDS verification of Tu-Turnbull model of discontinuous dissolution. Scripta Metallurgica Et Materialia, 1994, 30, 1177-1181.	1.0	8
166	Direct observation of crystallization in silicon by in situ high-resolution electron microscopy. Ultramicroscopy, 1993, 51, 41-45.	1.9	44
167	Long-range ordering kinetics and ordering energy in Ni <sub>3</sub> Al-based $\hat{3}\hat{a}\hat{e}^2$ alloys. Intermetallics, 1993, 1, 139-150.	3.9	23
168	TEM Analysis of Wear of Ti/TiN Multi-Layer Coating in Ball-on-Disc Test. Key Engineering Materials, 0, 409, 123-127.	0.4	4
169	Application of SEM/TEM to Tests on Pt Distribution in Al <sub>2</sub> O <sub>3</sub> Films Obtained by Oxidising FeCrAl Steel Foil Coated with Pt-Al Nanofilms. Advances in Science and Technology, 0, , .	0.2	0
170	Microstructure Characteristics of the Reaction Product Region Formed due to the High Temperature Contact of Molten Aluminium and ZnO Single Crystal. Solid State Phenomena, 0, 172-174, 1267-1272.	0.3	3
171	Structural Characterization of Reaction Product Region in Al/MgO and Al <sub>2</sub> O <sub>4</sub> Systems. Solid State Phenomena, 0, 172-174, 1273-1278.	0.3	11
172	TEM Investigation of Interfaces Formed between Saffil <sup>TM</sup> Fibers and AA6061 and En Ac 44200 Aluminium Alloys. Solid State Phenomena, 0, 186, 327-330.	0.3	1
173	SEM and TEM Microstructure Characterization of a Commercial Purity Aluminum after Laser Treatment. Solid State Phenomena, 0, 186, 323-326.	0.3	1
174	Local Strengthening of EN AC-44200 Al Alloy with Ceramic Fibers. Key Engineering Materials, 0, 662, 237-240.	0.4	1
175	Effect of Heating on the Microstructure of NiAl + Cr <sub>2</sub> B Coatings Deposited by Mechanical Embedding in a Ball Mill. Microscopy and Microanalysis, 0, , 1-5.	0.4	0