

Leszek A Dobrzanski

List of Publications by Year in Descending Order

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Version: 2024-04-28

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

226
papers

2,691
citations

24
h-index

34
g-index

246
ext. papers

2,970
ext. citations

3.4
avg, IF

5.43
L-index

#	Paper	IF	Citations
226	Nitinol Type Alloys General Characteristics and Applications in Endodontics. <i>Processes</i> , 2022 , 10, 101	2.9	1
225	Development Strategy of Endodontic Filling Materials Based on Engineering and Medical Approaches. <i>Processes</i> , 2021 , 9, 2014	2.9	1
224	What Are the Chances of Resilon to Dominate the Market Filling Materials for Endodontics?. <i>Metals</i> , 2021 , 11, 1744	2.3	3
223	Effect of Biomedical Materials in the Implementation of a Long and Healthy Life Policy. <i>Processes</i> , 2021 , 9, 865	2.9	9
222	Virtual Approach to the Comparative Analysis of Biomaterials Used in Endodontic Treatment. <i>Processes</i> , 2021 , 9, 926	2.9	6
221	Is Gutta-Percha Still the Gold Standard Among Filling Materials in Endodontic Treatment?. <i>Processes</i> , 2021 , 9, 1467	2.9	3
220	The Concept of Sustainable Development of Modern Dentistry. <i>Processes</i> , 2020 , 8, 1605	2.9	8
219	Application Solid Laser-Sintered or Machined Ti6Al4V Alloy in Manufacturing of Dental Implants and Dental Prosthetic Restorations According to Dentistry 4.0 Concept. <i>Processes</i> , 2020 , 8, 664	2.9	13
218	Approach to the Design and Manufacturing of Prosthetic Dental Restorations According to the Rules of Industry 4.0. <i>Materials Performance and Characterization</i> , 2020 , 9, 20200020	0.5	10
217	Comparison of the Structure and Properties of the Solid Co-Cr-W-Mo-Si Alloys Used for Dental Restorations CNC Machined or Selective Laser-Sintered. <i>Materials Performance and Characterization</i> , 2020 , 9, 20200023	0.5	5
216	Dentistry 4.0 Concept in the Design and Manufacturing of Prosthetic Dental Restorations. <i>Processes</i> , 2020 , 8, 525	2.9	23
215	Non-Antagonistic Contradictoriness of the Progress of Advanced Digitized Production with SARS-CoV-2 Virus Transmission in the Area of Dental Engineering. <i>Processes</i> , 2020 , 8, 1097	2.9	8
214	The Importance of Magnesium and Its Alloys in Modern Technology and Methods of Shaping Their Structure and Properties 2019 , 1-28		4
213	Effect of Heat and Surface Treatment on the Structure and Properties of the Mg-Al-Zn-Mn Casting Alloys 2019 , 91-202		0
212	Laser Application in Photovoltaics for Surface Texturization of Silicon and Front Electrode Deposition. <i>Materials Performance and Characterization</i> , 2019 , 8, 20190061	0.5	2
211	Why Are Carbon-Based Materials Important in Civilization Progress and Especially in the Industry 4.0 Stage of the Industrial Revolution. <i>Materials Performance and Characterization</i> , 2019 , 8, 20190145	0.5	14
210	Applications of Laser Processing of Materials in Surface Engineering in the Industry 4.0 Stage of the Industrial Revolution. <i>Materials Performance and Characterization</i> , 2019 , 8, 20190203	0.5	11

209	Introductory Chapter: Multi-Aspect Bibliographic Analysis of the Synergy of Technical, Biological and Medical Sciences Concerning Materials and Technologies Used for Medical and Dental Implantable Devices 2018 ,		3
208	Advanced Nanoengineering Materials. <i>Journal of Nanomaterials</i> , 2018 , 2018, 1-1	3.2	1
207	Variation of magneto-mechanical properties in giant magnetostrictive composite materials. <i>Polymer Composites</i> , 2017 , 38, 797-802	3	3
206	Graphene-based layers deposited onto flexible substrates: Used in dye-sensitized solar cells as counter electrodes. <i>Applied Surface Science</i> , 2017 , 424, 157-163	6.7	16
205	Carbon Nanomaterials Application as a Counter Electrode for Dye-Sensitized Solar Cells. <i>Archives of Metallurgy and Materials</i> , 2017 , 62, 27-32		8
204	The structure and conductivity of polyelectrolyte based on MEH-PPV and potassium iodide (KI) for dye-sensitized solar cells. <i>Open Physics</i> , 2017 , 15, 1022-1027	1.3	5
203	Composite Materials Infiltrated by Aluminium Alloys Based on Porous Skeletons from Alumina, Mullite and Titanium Produced by Powder Metallurgy Techniques 2017 ,		7
202	Porous Selective Laser Melted Ti and Ti6Al4V Materials for Medical Applications 2017 ,		10
201	Investigations on Wear Mechanisms of PVD Coatings on Carbides and Sialons. <i>Archives of Metallurgy and Materials</i> , 2017 , 62, 2095-2100		1
200	Fabrication Technologies of the Sintered Materials Including Materials for Medical and Dental Application 2017 ,		10
199	A carbon-nanotubes counter electrode for flexible dye-sensitized solar cells. <i>Materiali in Tehnologije</i> , 2017 , 51, 623-629	1.6	6
198	Comparison of surface morphology and structure of Al ₂ O ₃ thin films deposited by sol-gel and ALD methods. <i>Journal of Achievements in Materials and Manufacturing Engineering</i> , 2017 , 2, 49-57	0.5	2
197	Virtual laboratory methodology in scientific researches and education. <i>Journal of Achievements in Materials and Manufacturing Engineering</i> , 2017 , 2, 76-84	0.5	3
196	The Effect of Laser Surface Treatment on Structure and Mechanical Properties Aluminium Alloy ENAC-ALMg9. <i>Archives of Metallurgy and Materials</i> , 2016 , 61, 1343-1350		8
195	Influence of high strain rates on the structure and mechanical properties of high-manganese austenitic TWIP-type steel. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2016 , 47, 428-435	0.9	10
194	Transmission electron microscopy observations on phase transformations during aluminium/mullite composites formation by gas pressure infiltration. <i>Materials Characterization</i> , 2016 , 114, 9-17	3.9	5
193	Influence of laser texturization surface and atomic layer deposition on optical properties of polycrystalline silicon. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 7563-7567	6.7	6
192	Effect of Laser Feeding on Heat Treated Aluminium Alloy Surface Properties. <i>Archives of Metallurgy and Materials</i> , 2016 , 61, 741-746		5

191	Characteristics of dye-sensitized solar cells with carbon nanomaterials. <i>Materiali in Tehnologije</i> , 2016 , 50, 649-654	1.6	5
190	. <i>Archives of Materials Science and Engineering</i> , 2016 , 77, 12-30	0.6	4
189	The examples of the research of the nanostructured engineering materials and the concept of the new generation of highly innovative advanced pioneering nanostructured composite materials. <i>Archives of Materials Science and Engineering</i> , 2016 , 82, 5-37	0.6	5
188	PVD surface treatment of heat-treated cast aluminium alloys. <i>Archives of Materials Science and Engineering</i> , 2016 , 79, 79-88	0.6	4
187	The structure and properties of aluminium alloys matrix composite materials with reinforcement made of titanium skeletons. <i>Archives of Materials Science and Engineering</i> , 2016 , 80, 16-30	0.6	5
186	The concept of biologically active microporous engineering materials and composite biological-engineering materials for regenerative medicine and dentistry. <i>Archives of Materials Science and Engineering</i> , 2016 , 80, 64-85	0.6	11
185	Manufacturing of Porous Ceramic Preforms Based on Halloysite Nanotubes (Hnts). <i>Archives of Metallurgy and Materials</i> , 2016 , 61, 917-922		2
184	Synthesis of Pt nanowires with the participation of physical vapour deposition. <i>Open Physics</i> , 2016 , 14, 159-165	1.3	1
183	Characterisation of graphene-based layers for dye-sensitised solar cells application. <i>Surface Engineering</i> , 2016 , 32, 816-822	2.6	6
182	Mechanical Properties of High-Mn Austenitic Steel Tested under Static and Dynamic Conditions. <i>Archives of Metallurgy and Materials</i> , 2016 , 61, 725-730		5
181	Carbon Nanotubes Counter Electrode for Dye-Sensitized Solar Cells Application. <i>Archives of Metallurgy and Materials</i> , 2016 , 61, 803-806		10
180	The Influence of the Dispersion Method on the Microstructure and Properties of MWCNTs/AA6061 Composites. <i>Archives of Metallurgy and Materials</i> , 2016 , 61, 1229-1234		5
179	Nanocrystalline TiO ₂ Powder Prepared by Sol-Gel Method for Dye-Sensitized Solar Cells. <i>Archives of Metallurgy and Materials</i> , 2016 , 61, 833-836		7
178	Laser Surface Treatment in Manufacturing 2015 , 2677-2717		3
177	Structures, properties and development trends of laser-surface-treated hot-work steels, light metal alloys and polycrystalline silicon 2015 , 3-32		11
176	Influence of hot-working conditions on a structure of X11MnSiAl17-1-3 steel for automotive industry. <i>International Journal of Materials and Product Technology</i> , 2015 , 51, 264	1	15
175	Effect Of Milling Time On Microstructure Of AA6061 Composites Fabricated Via Mechanical Alloying. <i>Archives of Metallurgy and Materials</i> , 2015 , 60, 789-793		3
174	Effect of Milling Time on Microstructure and Properties of AA6061/MWCNTS Composite Powders / Wpływ Czasu Mielenia Na Strukturę Właściwości Proszek i Kompozytów z AA6061/MWCNTS. <i>Archives of Metallurgy and Materials</i> , 2015 , 60, 3029-3034		2

173	Fabrication Of Scaffolds From Ti6Al4V Powders Using The Computer Aided Laser Method. <i>Archives of Metallurgy and Materials</i> , 2015 , 60, 1065-1070		12
172	Selective Laser Sintering And Melting Of Pristine Titanium And Titanium Ti6Al4V Alloy Powders And Selection Of Chemical Environment For Etching Of Such Materials. <i>Archives of Metallurgy and Materials</i> , 2015 , 60, 2039-2046		15
171	Effect of Milling Conditions on Microstructure and Properties of AA6061/halloysite Composites. <i>Procedia Manufacturing</i> , 2015 , 2, 402-407	1.5	7
170	Aluminium AlSi12 alloy matrix composites reinforced by mullite porous preforms. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2015 , 46, 368-376	0.9	12
169	Magnetomechanical Properties Of Composite Materials With Giant Magnetostriction. <i>Archives of Metallurgy and Materials</i> , 2015 , 60, 1819-1824		3
168	Shaping of Surface Layer Structure and Mechanical Properties After Laser Treatment of Aluminium Alloys. <i>Advanced Structured Materials</i> , 2015 , 85-96	0.6	2
167	Foresight of the Surface Technology in Manufacturing 2015 , 2587-2637		7
166	Physical Vapor Deposition in Manufacturing 2015 , 2719-2754		3
165	Chemical Vapor Deposition in Manufacturing 2015 , 2755-2803		4
164	The use of laser technology to shape properties of the contacts of silicon solar cells and their structure. <i>Open Physics</i> , 2014 , 12,	1.3	2
163	Influence of Hot-Working Conditions on a Structure of X11MnSiAl17-1-3 Steel. <i>Advanced Materials Research</i> , 2014 , 1036, 122-127	0.5	4
162	Silicon solar cells with Al ₂ O ₃ antireflection coating. <i>Open Physics</i> , 2014 , 12,	1.3	9
161	The Effect of PVD and CVD Coating Structures on the Durability of Sintered Cutting Edges. <i>Archives of Metallurgy and Materials</i> , 2014 , 59, 269-274		4
160	Application Examples for the Different Measurement Modes of Electrical Properties of the Solar Cells. <i>Archives of Metallurgy and Materials</i> , 2014 , 59, 247-252		11
159	Aluminium AlMg1SiCu Matrix Composite Materials Reinforced with Halloysite Particles. <i>Archives of Metallurgy and Materials</i> , 2014 , 59, 335-338		10
158	Structure and Properties of the Aluminium Alloy AlSi12CuNiMg after Laser Surface Treatment. <i>Advanced Materials Research</i> , 2014 , 1036, 40-45	0.5	2
157	Results of Technology Foresight in the Surface Engineering Area. <i>Applied Mechanics and Materials</i> , 2014 , 657, 916-920	0.3	5
156	Role of Halloysite Nanoparticles and Milling Time on the Synthesis of AA 6061 Aluminium Matrix Composites. <i>Advanced Materials Research</i> , 2014 , 939, 84-89	0.5	3

155	One versus two implant-retained dentures: comparing biomechanics under oblique mastication forces. <i>Journal of Biomechanical Engineering</i> , 2013 , 135, 54503	2.1	8
154	Final Manufacturing Process of Front Side Metallisation on Silicon Solar Cells Using Conventional and Unconventional Techniques. <i>Strojnicki Vestnik/Journal of Mechanical Engineering</i> , 2013 , 59, 175-182	1.3	12
153	Effect of laser surface alloying on structure of a commercial tool steel. <i>International Journal of Microstructure and Materials Properties</i> , 2013 , 8, 27	0.4	3
152	Physical Vapor Deposition in Manufacturing 2013 , 1-31		1
151	Characterization and properties of PVD coatings applied to extrusion dies. <i>Vacuum</i> , 2012 , 86, 2082-2088	3.7	15
150	Thermo-mechanical treatment of FeMn(C, Al, Si) TRIP/TWIP steels. <i>Archives of Civil and Mechanical Engineering</i> , 2012 , 12, 299-304	3.4	30
149	Influence of Laser Processing on Polycrystalline Silicon Surface. <i>Materials Science Forum</i> , 2012 , 706-709, 829-834	0.4	9
148	Hot-Rolling of Advanced High-Manganese C-Mn-Si-Al Steels. <i>Materials Science Forum</i> , 2012 , 706-709, 2053-2058	0.4	17
147	The influence of laser re-melting and alloying on the structure and properties of the X40CrMov5-l steel surface layer. <i>Welding International</i> , 2012 , 26, 411-415	0.1	2
146	Effect of Laser Surface Melting on Structure and Properties of a High Speed Tool Steel. <i>Advanced Materials Research</i> , 2011 , 291-294, 1365-1368	0.5	4
145	Structure and Properties Investigation of a Magnesium Alloy Processed by Heat Treatment and Laser Surface Treatment. <i>Materials Science Forum</i> , 2011 , 674, 11-18	0.4	5
144	Stainless Steels Sintered Form the Mixture of Prealloyed Stainless Steel and Alloying Element Powders. <i>Materials Science Forum</i> , 2011 , 672, 165-170	0.4	7
143	Surface Layer Properties of Sintered Ferritic Stainless Steel Remelted and Alloyed with FeNi and Ni by HPDL Laser. <i>Advanced Materials Research</i> , 2011 , 291-294, 1425-1428	0.5	5
142	Phases and Structure Characteristics of the Near Eutectic Al-Si-Cu Alloy Using Derivative Thermo Analysis. <i>Materials Science Forum</i> , 2010 , 638-642, 475-480	0.4	22
141	Characterization Performance of Laser Melted Commercial Tool Steels. <i>Materials Science Forum</i> , 2010 , 654-656, 1848-1851	0.4	5
140	Hot-Working Behaviour of Advanced High-Manganese C-Mn-Si-Al Steels. <i>Materials Science Forum</i> , 2010 , 654-656, 266-269	0.4	14
139	Optimization of Heat Treatment Conditions of Magnesium Cast Alloys. <i>Materials Science Forum</i> , 2010 , 638-642, 1488-1493	0.4	13
138	The Laser Surface Remelting of Austenitic Stainless Steel. <i>Materials Science Forum</i> , 2010 , 654-656, 2511-2514	0.4	5

137	Microstructure Evolution of C-Mn-Si-Al-Nb High-Manganese Steel during the Thermomechanical Processing. <i>Materials Science Forum</i> , 2010 , 638-642, 3224-3229	0.4	19
136	Comparison of Structure and Properties of Hard Coatings on Commercial Tool Materials Manufactured with the Pressureless Forming Method or Laser Treatment. <i>Materials Science Forum</i> , 2010 , 638-642, 1830-1835	0.4	2
135	Magnetostrictive Properties of Epoxy-Bonded Tb _{0,3} Dy _{0,7} Fe _{1,9} Composites. <i>Advanced Materials Research</i> , 2010 , 89-91, 633-638	0.5	2
134	Synthesis and Characterization of Carbon Nanotubes Decorated with Gold Nanoparticles. <i>Acta Physica Polonica A</i> , 2010 , 118, 483-486	0.6	10
133	Influence of Aluminium Content on Behaviour of Magnesium Cast Alloys in Bentonite Sand Mould. <i>Solid State Phenomena</i> , 2009 , 147-149, 764-769	0.4	16
132	Hard magnetic composite materials Nd-Fe-B with additions of iron and X2CrNiMo-17-12-2 steel. <i>Journal of Alloys and Compounds</i> , 2008 , 449, 88-92	5.7	10
131	PVD coatings deposited onto plasma nitrided X37CrMoV5-1 type steel. <i>International Journal of Materials and Product Technology</i> , 2008 , 33, 226	1	1
130	Influence of cobalt portion on structure and properties of FGHM. <i>International Journal of Materials and Product Technology</i> , 2008 , 33, 280	1	1
129	Magnetic nanocomposite materials: structure and mechanical properties. <i>International Journal of Materials and Product Technology</i> , 2008 , 33, 240	1	
128	Structure and mechanical properties of gradient coatings deposited by PVD technology onto the X40CrMoV5-1 steel substrate. <i>Journal of Materials Science</i> , 2008 , 43, 3400-3407	4.3	20
127	Laser surface treatment of multicrystalline silicon for enhancing optical properties. <i>Journal of Materials Processing Technology</i> , 2008 , 201, 291-296	5.3	85
126	Structure and mechanical properties of gradient PVD coatings. <i>Journal of Materials Processing Technology</i> , 2008 , 201, 310-314	5.3	24
125	Microstructure and selected properties of hot-work tool steel with PVD coatings after laser surface treatment. <i>Applied Surface Science</i> , 2008 , 254, 4552-4556	6.7	12
124	Laser processing of multicrystalline silicon for texturization of solar cells. <i>Journal of Materials Processing Technology</i> , 2007 , 191, 228-231	5.3	45
123	Corrosion behavior of vacuum sintered duplex stainless steels. <i>Journal of Materials Processing Technology</i> , 2007 , 191, 161-164	5.3	15
122	New possibilities of composite materials application Materials of specific magnetic properties. <i>Journal of Materials Processing Technology</i> , 2007 , 191, 352-355	5.3	24
121	Comparison of the surface alloying of the 32CrMoV12-28 tool steel using TiC and WC powder. <i>Journal of Materials Processing Technology</i> , 2007 , 191, 321-325	5.3	21
120	Effect of cooling rate on the solidification behavior of AC AlSi7Cu2 alloy. <i>Journal of Materials Processing Technology</i> , 2007 , 191, 317-320	5.3	37

119	Computer simulation of hard magnetic composite materials NdFeB properties. <i>Journal of Materials Processing Technology</i> , 2007 , 192-193, 595-601	5-3	1
118	Applications of the artificial intelligence methods for modeling of the ACAlSi7Cu alloy crystallization process. <i>Journal of Materials Processing Technology</i> , 2007 , 192-193, 582-587	5-3	14
117	Structure and properties of magnesium cast alloys. <i>Journal of Materials Processing Technology</i> , 2007 , 192-193, 567-574	5-3	54
116	Corrosion resistance of sintered duplex stainless steels in the salt fog spray test. <i>Journal of Materials Processing Technology</i> , 2007 , 192-193, 443-448	5-3	17
115	Modelling of CCT diagrams for engineering and constructional steels. <i>Journal of Materials Processing Technology</i> , 2007 , 192-193, 504-510	5-3	56
114	Surface modification of hot work tool steel by high-power diode laser. <i>International Journal of Machine Tools and Manufacture</i> , 2007 , 47, 773-778	9-4	5
113	Investigation of the structure and properties of coatings deposited on ceramic tool materials. <i>International Journal of Surface Science and Engineering</i> , 2007 , 1, 111	1	9
112	The computer simulation of critical compressive stresses on the PVD coatings. <i>International Journal of Computational Materials Science and Surface Engineering</i> , 2007 , 1, 28	0-4	1
111	The use of neural networks for the classification of casting defect. <i>International Journal of Computational Materials Science and Surface Engineering</i> , 2007 , 1, 18	0-4	4
110	Applications of artificial intelligence methods for modelling of solidus temperature for hypoeutectic Al-Si-Cu alloys. <i>International Journal of Computational Materials Science and Surface Engineering</i> , 2007 , 1, 214	0-4	
109	Application of neural networks for selection of steel grade with required hardenability. <i>International Journal of Computational Materials Science and Surface Engineering</i> , 2007 , 1, 366	0-4	2
108	Computer aided materials design of PM duplex stainless steels. <i>International Journal of Computational Materials Science and Surface Engineering</i> , 2007 , 1, 465	0-4	
107	Modelling of properties of the alloy tool steels after laser surface treatment. <i>International Journal of Computational Materials Science and Surface Engineering</i> , 2007 , 1, 526	0-4	1
106	Employment of the artificial neural networks for prediction of magnetic properties of the metallic amorphous alloys. <i>International Journal of Computational Materials Science and Surface Engineering</i> , 2007 , 1, 650	0-4	1
105	Permanent magnets Nd-Fe-B. <i>International Journal of Microstructure and Materials Properties</i> , 2007 , 2, 133	0-4	3
104	Properties and corrosion resistance of PM composite materials based on EN AW-Al Cu4Mg1(A) aluminium alloy reinforced with Ti(C,N) particles. <i>International Journal of Microstructure and Materials Properties</i> , 2007 , 2, 150	0-4	4
103	Deformation behaviour and microstructure development of a high-carbon steel during its hot and cold processing. <i>International Journal of Microstructure and Materials Properties</i> , 2007 , 2, 224	0-4	0
102	Structure and Properties of the Wear Resistant Coatings Obtained in the PVD and CVD Processes on Tool Ceramics. <i>Materials Science Forum</i> , 2006 , 513, 119-134	0-4	11

101	Properties of Vacuum Sintered Duplex Stainless Steels. <i>Advanced Materials Research</i> , 2006 , 15-17, 828-835		
100	Laser Alloying with WC Ceramic Powder in Hot Work Tool Steel Using a High Power Diode Laser (HPDL). <i>Advanced Materials Research</i> , 2006 , 15-17, 193-198	0.5	8
99	Influence of Cooling Rate on the Size of the Precipitates and Thermal Characteristic of Al-Si Cast Alloys. <i>Advanced Materials Research</i> , 2006 , 15-17, 59-64	0.5	1
98	Influence of Heat Treatment on Structure and Properties of the Cast Magnesium Alloys. <i>Advanced Materials Research</i> , 2006 , 15-17, 491-496	0.5	16
97	Significance of materials science for the future development of societies. <i>Journal of Materials Processing Technology</i> , 2006 , 175, 133-148	5.3	33
96	Structure of the nanocrystalline coatings obtained on the CAE process on the sintered tool materials. <i>Journal of Materials Processing Technology</i> , 2006 , 175, 157-162	5.3	5
95	Structure and properties of laser alloyed surface layers on the hot-work tool steel. <i>Journal of Materials Processing Technology</i> , 2006 , 175, 45-54	5.3	23
94	The structure and properties of PM composite materials based on EN AW-2124 aluminum alloy reinforced with the BN or Al ₂ O ₃ ceramic particles. <i>Journal of Materials Processing Technology</i> , 2006 , 175, 186-191	5.3	46
93	Tribological properties of the PVD and CVD coatings deposited onto the nitride tool ceramics. <i>Journal of Materials Processing Technology</i> , 2006 , 175, 179-185	5.3	52
92	Metal injection moulding of HS12-1-5-5 high-speed steel using a PW-HDPE based binder. <i>Journal of Materials Processing Technology</i> , 2006 , 175, 173-178	5.3	19
91	Prototype of an expert system for selection of coatings for metals. <i>Journal of Materials Processing Technology</i> , 2006 , 175, 163-172	5.3	14
90	Properties of composite materials with polymer matrix reinforced with NdBeB hard magnetic particles. <i>Journal of Materials Processing Technology</i> , 2006 , 175, 149-156	5.3	18
89	Structure and properties of the Fe _{73.5} Cu ₁ Nb ₃ Si _{13.5} B ₉ alloy powders bound with polyethylene. <i>Journal of Materials Processing Technology</i> , 2006 , 175, 457-462	5.3	6
88	The study of the technology of laser and plasma surfacing of engine valves face made of X40CrSiMo10-2 steel using cobalt-based powders. <i>Journal of Materials Processing Technology</i> , 2006 , 175, 251-256	5.3	21
87	Mechanical properties of metallic ribbons investigated by depth sensing indentation technique. <i>Journal of Magnetism and Magnetic Materials</i> , 2006 , 304, e645-e647	2.8	
86	Alloying the X40CrMoV5-1 steel surface layer with tungsten carbide by the use of a high power diode laser. <i>Applied Surface Science</i> , 2005 , 247, 328-332	6.7	18
85	Application of genetic methods in materials design. <i>Journal of Materials Processing Technology</i> , 2005 , 164-165, 1607-1611	5.3	12
84	Application of neural networks for designing the chemical composition of steel with the assumed hardness after cooling from the austenitising temperature. <i>Journal of Materials Processing Technology</i> , 2005 , 164-165, 1637-1643	5.3	11

83	Soft magnetic nanocomposite with powdered metallic ribbon based on cobalt and polymer matrix. <i>Journal of Materials Processing Technology</i> , 2005 , 162-163, 20-26	5-3	10
82	Structure, properties and corrosion resistance of PM composite materials based on EN AW-2124 aluminum alloy reinforced with the Al ₂ O ₃ ceramic particles. <i>Journal of Materials Processing Technology</i> , 2005 , 162-163, 27-32	5-3	38
81	Properties of vacuum sintered duplex stainless steels. <i>Journal of Materials Processing Technology</i> , 2005 , 162-163, 286-292	5-3	24
80	Corrosion resistance of the polymer matrix hard magnetic composite materials NdFeB. <i>Journal of Materials Processing Technology</i> , 2005 , 164-165, 795-804	5-3	12
79	Cutting properties of the Al ₂ O ₃ +SiC(w) based tool ceramic reinforced with the PVD and CVD wear resistant coatings. <i>Journal of Materials Processing Technology</i> , 2005 , 164-165, 924-929	5-3	24
78	Structure and properties of the cutting tools made from cemented carbides and cermets with the TiN+mono-, gradient- or multi(Ti, Al, Si)N+TiN nanocrystalline coatings. <i>Journal of Materials Processing Technology</i> , 2005 , 164-165, 805-815	5-3	12
77	Corrosion resistance of multilayer coatings deposited by PVD techniques onto the brass substrate. <i>Journal of Materials Processing Technology</i> , 2005 , 164-165, 816-821	5-3	44
76	Structure and properties of PVD and CVD coated Al ₂ O ₃ +TiC mixed oxide tool ceramics for dry on high speed cutting processes. <i>Journal of Materials Processing Technology</i> , 2005 , 164-165, 822-831	5-3	34
75	Comparison of the structure and properties of the PVD and CVD coatings deposited on nitride tool ceramics. <i>Journal of Materials Processing Technology</i> , 2005 , 164-165, 832-842	5-3	23
74	Employment of the finite element method for determining stresses in coatings obtained on high-speed steel with the PVD process. <i>Journal of Materials Processing Technology</i> , 2005 , 164-165, 1192-1196	5-3	12
73	Structure and properties of wear resistance PVD coatings deposited onto X37CrMoV5-1 type hot work steel. <i>Journal of Materials Processing Technology</i> , 2005 , 164-165, 843-849	5-3	23
72	Comparison of structure and properties of the HS12-1-5-5 type high-speed steel fabricated using the pressureless forming and PIM methods. <i>Journal of Materials Processing Technology</i> , 2005 , 162-163, 230-235	5-3	3
71	Comparison of the structures of the hot-work tool steels laser modified surface layers. <i>Journal of Materials Processing Technology</i> , 2005 , 164-165, 1014-1024	5-3	14
70	Methodology of the mechanical properties prediction for the metallurgical products from the engineering steels using the Artificial Intelligence methods. <i>Journal of Materials Processing Technology</i> , 2005 , 164-165, 1500-1509	5-3	19
69	The study of properties of NiWC wires surfaced deposits. <i>Journal of Materials Processing Technology</i> , 2005 , 164-165, 1046-1055	5-3	11
68	The study of properties of NiW ₂ C and CoW ₂ C powders thermal sprayed deposits. <i>Journal of Materials Processing Technology</i> , 2005 , 164-165, 1068-1073	5-3	22
67	Structure, physical properties and fractal character of surface topography of the Ti+TiC coatings on sintered high speed steel. <i>Journal of Materials Processing Technology</i> , 2005 , 164-165, 1519-1523	5-3	1
66	A study of worn wear plates of fan blades of steel mill fumes suction system. <i>Journal of Materials Processing Technology</i> , 2005 , 164-165, 1062-1067	5-3	11

65	Structure and properties of the composite materials consisting of the nanocrystalline Fe73.5Cu1Nb3Si13.5B9 alloy powders and polyethylene. <i>Journal of Materials Processing Technology</i> , 2005 , 162-163, 149-155	5.3	5
64	Abrasion resistance of GMA metal cored wires surfaced deposits. <i>Journal of Materials Processing Technology</i> , 2005 , 164-165, 1056-1061	5.3	18
63	Computer aided classification of flaws occurred during casting of aluminum. <i>Journal of Materials Processing Technology</i> , 2005 , 167, 456-462	5.3	17
62	The structure and functional properties of PVD and CVD coated Al ₂ O ₃ +ZrO ₂ oxide tool ceramics. <i>Journal of Materials Processing Technology</i> , 2005 , 167, 438-446	5.3	17
61	Structure and properties of nanocrystalline soft magnetic composite materials with silicon polymer matrix. <i>Journal of Magnetism and Magnetic Materials</i> , 2005 , 290-291, 1510-1512	2.8	8
60	Structure and properties of selected cemented carbides and cermets covered with TiN/(Ti,Al,Si)N/TiN coatings obtained by the cathodic arc evaporation process. <i>Materials Research</i> , 2005 , 8, 113-116	1.5	7
59	Softmagnetic Nanocomposite with Silicon Polymer Matrix and Powdered Co ₆₈ Fe ₄ Mo ₁ Si ₁₃ ,5B ₁₃ ,5. <i>Journal of Metastable and Nanocrystalline Materials</i> , 2005 , 23, 91-94	0.2	
58	Sintering in different atmospheres of T15 and M2 high speed steels produced by a modified metal injection moulding process. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 366, 318-324	5.3	25
57	Defects and prevention in ceramic components fabricated by inkjet printing. <i>Journal of Materials Processing Technology</i> , 2004 , 155-156, 1286-1292	5.3	33
56	Improvement of wear resistance of hot work steels by PVD coatings deposition. <i>Journal of Materials Processing Technology</i> , 2004 , 155-156, 1995-2001	5.3	33
55	Effect of thermal treatment on structure of newly developed 47CrMoWVTiCeZr16-26-8 hot-work tool steel. <i>Journal of Materials Processing Technology</i> , 2004 , 157-158, 472-484	5.3	26
54	The influence of cast method and anodizing parameters on structure and layer thickness of aluminium alloys. <i>Journal of Materials Processing Technology</i> , 2004 , 157-158, 718-723	5.3	31
53	Magnetic properties of high-energy milled Fe ₇₈ Si ₁₃ B ₉ nanocrystalline powders and powder-based nanocomposites. <i>Journal of Materials Processing Technology</i> , 2004 , 157-158, 755-760	5.3	5
52	Structure and mechanical properties of HSS HS6-5-2- and HS12-1-5-5-type steel produced by modified powder injection moulding process. <i>Journal of Materials Processing Technology</i> , 2004 , 157-158, 658-668	5.3	9
51	Structure and properties of composite materials with polymer matrix reinforced NdBeB hard magnetic nanostructured particles. <i>Journal of Materials Processing Technology</i> , 2004 , 157-158, 650-657	5.3	17
50	Study of selected properties of magnesium alloy AZ91 after heat treatment and forming. <i>Journal of Materials Processing Technology</i> , 2004 , 157-158, 466-471	5.3	60
49	Properties and structure of the toroidal magnetically soft cores made from the amorphous strips, powder, and composite materials. <i>Journal of Materials Processing Technology</i> , 2004 , 157-158, 669-678	5.3	1
48	Structure and magnetic properties of nanocomposites of nanocrystalline powder-polymer type. <i>Journal of Materials Processing Technology</i> , 2004 , 157-158, 765-770	5.3	4

47	Magnetic properties and structure of nanocomposites of powder Fe _{73.5} Cu ₁ Nb ₃ Si _{13.5} B ₉ alloy/polymer type. <i>Journal of Materials Processing Technology</i> , 2004 , 157-158, 776-780	5:3	5
46	Application of neural networks to forecasting the CCT diagrams. <i>Journal of Materials Processing Technology</i> , 2004 , 157-158, 107-113	5:3	15
45	Computer aided method for evaluation of failure class of materials working in creep conditions. <i>Journal of Materials Processing Technology</i> , 2004 , 157-158, 102-106	5:3	13
44	Fractal nature of surface topography and physical properties of the coatings obtained using magnetron sputtering. <i>Journal of Materials Processing Technology</i> , 2004 , 157-158, 188-193	5:3	6
43	The modelling of high-speed steels properties using neural networks. <i>Journal of Materials Processing Technology</i> , 2004 , 157-158, 245-249	5:3	9
42	Effect of depositing the hard surface coatings on properties of the selected cemented carbides and tool cermets. <i>Journal of Materials Processing Technology</i> , 2004 , 157-158, 304-311	5:3	7
41	Structure and properties of the Ti + Ti(C,N) coatings obtained in the PVD process on sintered high speed steel. <i>Journal of Materials Processing Technology</i> , 2004 , 157-158, 312-316	5:3	8
40	Erosion resistance and tribological properties of coatings deposited by reactive magnetron sputtering method onto the brass substrate. <i>Journal of Materials Processing Technology</i> , 2004 , 157-158, 317-323	5:3	26
39	Fabrication methods and heat treatment conditions effect on tribological properties of high speed steels. <i>Journal of Materials Processing Technology</i> , 2004 , 157-158, 324-330	5:3	8
38	Structure and properties of the multi-component TiAlSiN coatings obtained in the PVD process in the nitride tool ceramics. <i>Journal of Materials Processing Technology</i> , 2004 , 157-158, 331-340	5:3	32
37	Properties of the wear resistant coatings deposited on the cemented carbides substrates in the cathodic arc evaporation process. <i>Journal of Materials Processing Technology</i> , 2004 , 157-158, 341-347	5:3	18
36	Ti + TiN, Ti + Ti(C _x N _{1-x}), Ti + TiC PVD coatings on the ASP 30 sintered high-speed steel. <i>Journal of Materials Processing Technology</i> , 2004 , 157-158, 370-379	5:3	4
35	Structure, chemical and phase compositions of coatings deposited by reactive magnetron sputtering onto the brass substrate. <i>Journal of Materials Processing Technology</i> , 2004 , 157-158, 380-387	5:3	14
34	Structure and properties of the Si ₃ N ₄ nitride ceramics with hard wear resistant coatings. <i>Journal of Materials Processing Technology</i> , 2004 , 157-158, 388-393	5:3	17
33	Wear of PVD-coated solid carbide end mills in dry high-speed cutting. <i>Journal of Materials Processing Technology</i> , 2004 , 157-158, 422-426	5:3	19
32	Diffusion across PVD coated cermet tool/workpiece interface. <i>Journal of Materials Processing Technology</i> , 2004 , 157-158, 427-433	5:3	5
31	The structure and magnetic properties of magnetically soft cobalt base nanocrystalline powders and nanocomposites with silicon binding. <i>Journal of Materials Processing Technology</i> , 2004 , 155-156, 1943-1949	5:3	5
30	Application of neural networks for prediction of critical values of temperatures and time of the supercooled austenite transformations. <i>Journal of Materials Processing Technology</i> , 2004 , 155-156, 1950-1955	5:3	18

29	Application of high power diode laser (HPDL) for alloying of X40CrMoV5-1 steel surface layer by tungsten carbides. <i>Journal of Materials Processing Technology</i> , 2004 , 155-156, 1956-1963	5-3	10
28	Application of neural networks for the prediction of continuous cooling transformation diagrams. <i>Computational Materials Science</i> , 2004 , 30, 251-259	3-2	19
27	Structure and properties of the TiN and Ti(C,N) coatings deposited in the PVD process on high-speed steels. <i>Journal of Materials Processing Technology</i> , 2003 , 133, 50-62	5-3	34
26	Properties of the multi-layer Ti/CrN and Ti/TiAlN coatings deposited with the PVD technique onto the brass substrate. <i>Journal of Materials Processing Technology</i> , 2003 , 143-144, 832-837	5-3	14
25	Predictive sensor guided robotic manipulators in automated welding cells. <i>Journal of Materials Processing Technology</i> , 2001 , 109, 13-19	5-3	23
24	Structure and properties of high-speed steels with wear resistant cases or coatings. <i>Journal of Materials Processing Technology</i> , 2001 , 109, 44-51	5-3	7
23	The influence of 5% cobalt addition on structure and working properties of the 9-2-2-5, 11-2-2-5 and 11-0-2-5 high-speed steels. <i>Journal of Materials Processing Technology</i> , 2001 , 109, 52-64	5-3	14
22	Comparison of the thermal fatigue resistance and structure of the 47CrMoWVTiCeZr16-26-8 hot-work tool steel with X40CrMoV5-1 type one. <i>Journal of Materials Processing Technology</i> , 2001 , 113, 527-538	5-3	14
21	Effect of the deposition parameters on the properties of the two-layer surface coatings obtained using magnetron sputtering. <i>Journal of Materials Processing Technology</i> , 2001 , 113, 493-501	5-3	3
20	Designing of the chemical composition of constructional alloy steels. <i>Journal of Materials Processing Technology</i> , 1999 , 89-90, 467-472	5-3	8
19	The structure and properties of heat-treated and coated W-Mo-V+Si+Nb high-speed steels. <i>Journal of Materials Processing Technology</i> , 1999 , 89-90, 520-527	5-3	3
18	The modelling of hardenability using neural networks. <i>Journal of Materials Processing Technology</i> , 1999 , 92-93, 8-14	5-3	15
17	Relationship between erosion resistance and the phase and chemical composition of PVD coatings deposited onto high-speed steel. <i>Journal of Materials Processing Technology</i> , 1999 , 92-93, 184-189	5-3	9
16	The structure and properties of W ₁₀ Mo ₁₀ V high-speed steels with increased contents of Si and Nb after heat treatment. <i>Journal of Materials Processing Technology</i> , 1998 , 77, 180-193	5-3	16
15	Application of a neural network in modelling of hardenability of constructional steels. <i>Journal of Materials Processing Technology</i> , 1998 , 78, 59-66	5-3	21
14	Structure and properties of W ₁₀ Mo ₁₀ V ₁₀ Co 11-0-2-5 type and W ₁₀ Mo ₁₀ V 11-0-2 type high-speed steels. <i>Journal of Materials Processing Technology</i> , 1997 , 64, 93-99	5-3	6
13	Role of Ti in the W ₁₀ Mo ₁₀ V high-speed steels. <i>Journal of Materials Processing Technology</i> , 1997 , 64, 101-116	5-3	12
12	Comparison of hardenability calculation methods of the heat-treatable constructional steels. <i>Journal of Materials Processing Technology</i> , 1997 , 64, 117-126	5-3	13

11	High-speed steels with addition of niobium or titanium. <i>Journal of Materials Processing Technology</i> , 1997 , 63, 531-541	5-3	22
10	The conception of a computer aided decision making system connected with the residual life of the elements of power installations in the conditions of creep. <i>Journal of Materials Processing Technology</i> , 1996 , 56, 718-728	5-3	3
9	The prototype of an expert system for the selection of high-speed steels for cutting tools. <i>Journal of Materials Processing Technology</i> , 1996 , 56, 873-881	5-3	7
8	The structure and properties of W-V high-speed steels with increased content of silicon. <i>Journal of Materials Processing Technology</i> , 1996 , 56, 933-944	5-3	10
7	The computer system for forecasting of the residual life of the pressure loaded power installation elements. <i>Journal of Materials Processing Technology</i> , 1995 , 48, 551-560	5-3	3
6	Phase transformations during heat treatment of W-Mo-V 11-2-2 type high-speed steels with increased contents of Si and Nb or Ti. <i>Journal of Materials Processing Technology</i> , 1995 , 53, 109-120	5-3	11
5	Effects of chemical composition and processing conditions on the structure and properties of high-speed steels. <i>Journal of Materials Processing Technology</i> , 1995 , 48, 727-737	5-3	6
4	High temperature thermo-mechanical treatment of 1200°C type high-speed steel. <i>Journal of Materials Processing Technology</i> , 1993 , 38, 123-133	5-3	5
3	Computer aided system for selection of the high-speed steels and heat treatment technology synthesis of the tools. <i>Journal of Materials Processing Technology</i> , 1993 , 38, 135-143	5-3	1
2	Melting and crystallization behaviour of W-V-Si high-speed steels. <i>Steel Research = Archiv für Das Eisenhüttenwesen</i> , 1986 , 57, 37-45		26
1	The use of dta for determination of the equilibrium diagram for 9-0-2+Si high-speed steel. <i>Thermochimica Acta</i> , 1985 , 93, 673-676	2-9	3