

## Publikacje w czasopismach naukowych

### 1. Publikacje w czasopismach z Listy Filadelfijskiej (Thomson Reuters Master Journal List )

Lp.	Nazwa czasopisma	Lp.	Tytuł	Autor	Rok, tom, strony	Autor IMIM PAN
1.	<b>Acta Materialia</b>	1.	Detwinning of a non-modulated Ni-Mn-Ga martensite: From self-accommodated microstructure to single crystal	M.J. Szczerba, R. Chulist	2015,85, 67-73	M.J. Szczerba, R. Chulist
		2.	Structural behavior and magnetic properties of a Ni-Ma-Ga single crystal across the Mn martensite/austenite two-phase region	E. Pagounis, A. Laptev, M.J. Szczerba, R. Chulist, M. Laufenberg	2015,89, 32-40	M.J. Szczerba, R. Chulist
		3.	New orientation formation and growth during primary recrystallization in stable single crystals of three face-centred cubic metals	M. Miszczyk, H. Paul, J.H. Driver, C. Maurice	2015,82, 120–136	M. Miszczyk, H. Paul
2.	<b>Applied Catalysis B-Environmental</b>	1.	Active, selective and robust Pd and/or Cr catalysts supported on Ti-, Zr- or [Ti,Zr]-pillared montmorillonites for destruction of chlorinated volatile organic compounds	A. Michalik- Zym, R. Dula, D. Duraczyńska, J. Kryściak Czerwenka, T. Machej, R.P. Socha, W. Włodarczyk, A. Gawęł, J. Matusik, K. Bahranowski, E. Wisła-Walsh, L. Lityńska-Dobrzyńska, E. M. Serwicka	2015,174, 293-307	L. Lityńska-Dobrzyńska
3.	<b>Applied Physics Letters</b>	1.	Large magnetic field-induced work output in a NiMnGa seven-layered modulated martensite	E. Pagounis, M.J. Szczerba, R. Chulist, M. Laufenberg	2015,107, 152407	M.J. Szczerba, R. Chulist
4.	<b>Archives of Civil and Mechanical Engineering</b>	1.	Computer engineering in designing and fabrication of tissue analogue-type coating dedicated for the cardiovascular regeneration	K. Trembecka- Wojciga, R. Major, F. Bruckert, J.M. Lackner, P. Lacki, M. Sanak, B. Major	2015,15, 621–630	K. Trembecka-Wójciga, R. Major, B. Major
		2.	Corrosion behavior of lead-free SAC-type solder alloys in liquid media	A. Wierzbicka-Miernik, J. Guspiel, L. Zabdyr	2015, 15, 206– 213	A. Wierzbicka-Miernik, J.Guspiel, L. Zabdyr

5.	<b>Archives of Foundry Engineering</b>	1.	Numerical Model for Solidification Zones Selection in the Large Ingots	W. Wołczyński, P. Kwapisiński, B. Kania, W. Wajda, W. Skuza, A.W. Bydałek	2015,15, 87-90	W. Wołczyński, B. Kania, W. Wajda, W. Skuza
		2.	Optimizing of Work Arc Furnace to Decopperisation of Flash Slag	A.W. Bydałek, S. Biernat, W. Wołczyński, A. Bydałek	2015,15, 21-24	W. Wołczyński
6.	<b>Archives of Metallurgy and Materials</b>	1.	Influence of degree of deformation and aging time on mechanical properties and microstructure of aluminium alloy with zinc	A. Jarzębska, R. Bogucki, M. Bieda	2015,60,4, 3011-3015	M. Bieda
		2.	Analysis of microstructure and mechanical properties changes in AA1050 aluminum subjected to ECAP and KoBo processes	R. Bogucki, K. Sulikowska, M. Bieda, P. Ostachowski, K. Sztwiertnia	2015,60,4 , 3052-3056	M. Bieda
		3.	Bio- inspired blood- contacting materials elaborated for the heart assist system	R. Major	2015, 60, 3B 173-181	R. Major
		4.	Evolution of microstructure in rolled Mg-based alloy. Textural aspect.	P. Drzymała, B. Kania, M. Wróbel, P. Darlak, P. Długosz, P. Kwaśniewski, J. T. Bonarski	2015,4,60 2505-2511	P. Drzymała, B. Kania, J. Bonarski
		5.	Non-modulated martensite microstructure with internal nanotwins in Ni-Mn-Ga alloys	M.J. Szczerba	2015,60,3, 2267-2270	M.J. Szczerba
		6.	Characteristics of Sn-Zn cast alloys with the addition of Ag and Cu	T. Gancarz, J. Pstruś	2015,60,3, 1603-1607	T. Gancarz, J. Pstrus
		7.	Utility of Stress-Texture Characteristics of Structural Materials by X-ray Technique	J.T. Bonarski ,B. Kania, K. Bołanowski, A. Karolczuk	2015,60,3 , 2247-2252	J.T. Bonarski, B. Kania
		8.	Thermodynamic Assessment of the Bi-In-Zn System	B. Onderka, A. Dębski, W. Gąsior	2015,60, , 567-575	A. Dębski, W. Gąsior
		9.	The B-Li system. Calorimetric and theoretical studies	A. Dębski, M. H. Braga, W. Gąsior	2015, 60, 4, 2513-2519	A. Dębski, W. Gąsior
		10.	Thermodynamics and Concentration Fluctuations of Liquid Al-Cu and Al-Zn Alloys	M. Trybuła, N. Jakse, W. Gąsior, A. Pasturel,	2015,60,2, 649-655.	M. Trybuła, W. Gąsior

		11.	The wear mechanisms description of multilayer coatings, performed by transmission electron microscopy – an overview of the own research work	Ł. Major	2015,60,3, 2319-2326	Ł. Major
		12.	Roughness influence on macro- and micro-tribology of multi-layered hard coatings on carbon fibre polymer composite	J. M. Lackner, B. Major, W. Waldhauser, A. Mzyk, Ł. Major, M. Kot	2015 60 3, 2145 2151	B. Major, A. Mzyk, Ł. Major
		13.	The Concept of Slag Decopperisation in the Flash Furnace Process by Use of Complex Reagents	A. W. Bydątek, A. Bydątek, W. Wołczyński, S. Biernat	2015 60,1, 319-322	W. Wołczyński
		14.	Part III. Kinetics of the (Zn) – Coating Deposition during Stable and Meta-Stable Solidifications	W. Wołczyński, B. Kucharska, G. Garzeł, A. Sypień, Z. Pogoda, T. Okane	2015 60,1, 199-207	W. Wołczyński, G. Garzeł, A. Sypień
		15.	Back-Diffusion in Crystal Growth. Eutectics	W. Wołczyński	2015 60 3, 2403-2407	W. Wołczyński
		16.	Back-Diffusion in Crystal Growth. Peritectics	W. Wołczyński	2015 60 3, 2409-2414	W. Wołczyński
		17.	Growth Law for Peritectic Phases Formation in the Zinc Coating	E. Guzik, D. Kopyciński, W. Wołczyński	2015,60,3, 2335-2340	W. Wołczyński
		18.	The Importance of Surface Topography for The Biological Properties of Nitrided Diffusion Layers Produced on Ti6AL4V Titanium Alloy	T. Wierzchoń, J. Morgiel, E. Czarnowska, A. Sowińska, M. Tarnowski, A. Roguska	2015,60,3, 2153-2159	J. Morgiel
		19.	Thermodynamic Prediction of the Diffusion Barrier Morphology in the Al / Ni - Nano-Foil Designed for the Self-Propagating Reaction	W. Wołczyński	2015,60,3, 2421-2429	W. Wołczyński
		20.	TEM study of recrystallization in ultra-fine grain AA3104 alloy processed by high-pressure torsion	H. Paul, A. Morawiec, T. Baudin, T. Czeppe	2015,60,1, 131–144	H. Paul, A. Morawiec, T. Czeppe
		21.	Analysis of Separation Mechanism of the Metallic Phase of Slag in the Direct-to-Blister Process	A.W. Bydątek, A. Bydątek, W. Wołczyński, P. Schlařka, P. Kwapisiński	2015,60,3, 2347-2353	W. Wołczyński
		22.	Numerical Optimization of the Gating System for an Inlet Valve Casting Made of Titanium Alloys	J. Fourie, J. Lelito, P.L. Żak, P.K. Krajewski, W. Wołczyński	2015,60,3, 2437-2446	W. Wołczyński

		23.	Deformation microstructure and texture transformations in fcc metals of medium-to-high stacking fault energy: critical role of macro- and micro- scale shear bands	H. Paul, M. M. Miszczyk	2015,60,3, 2235-2246	H. Paul, M. M. Miszczyk
		24.	The strength analysis of Cu/ $\alpha$ -Al <sub>2</sub> O <sub>3</sub> interfaces as a key for rational composite design	K. Nalepka, K. Sztwiertnia, P. Nalepka, R.B. Pęcherski	2015, 0, 3, 1953– 956	K. Sztwiertnia
7.	<b>Bulletin of the Polish Academy of Sciences Technical Sciences</b>	1.	Biomechanical properties of the thin PVD coatings defined by red blood cells	K. Trembecka-Wójciga, R. Major, J.M. Lackner, F. Bruckert, E. Jasek, B. Major	2015,63,3, 697-705	K. Trembecka- Wójciga, R. Major, B. Major
8.	<b>Calphad</b>	1.	Studies on hydrogen storage materials from the Li-B and Ca-Li systems	W. Gąsior, M. Polański, J. Pstruś, A. Dębski	2015, 51, 361	W. Gąsior, J. Pstruś, A. Dębski
		2.	Li-Be and B-Be systems – experimental study	P. Fima, A. Dębski	2015, 51, 382	P. Fima, A. Dębski
9.	<b>Circuit World</b>	1.	Copper deposition on screen printed electrical paths for solar cell application	K. Drabczyk, R. Socha, A. Skwarek	2015,41,3, 98-101	K. Drabczyk
10.	<b>CrystEngComm</b>	1.	Formation of amorphous calcium carbonate and its transformation into mesostructured calcite	C. R. odriguez-Navarro, K. Kudłacz, Ö. Cizer E. Ruiz-Agudo	2015,17, 58-72	K. Kudłacz
11.	<b>Intermetallic</b>	1.	Microstructure and chemical characterization of the intermetallic phases in Cu/(Sn,Ni) diffusion couples with various Ni additions	A. Wierzbicka-Miernik, K. Miernik, J. Wojewoda- Budka, L. Lityńska- Dobrzyńska, G. Garzel	2015, 59, 23-31	A. Wierzbicka- Miernik, J. Wojewoda- Budka, L. Litynska- Dobrzynska, G. Garzel
12.	<b>International Journal of Materials Research</b>	1.	Microstructure and martensitic transformation in Ni <sub>48</sub> Mn <sub>39.5</sub> Sn <sub>12.5-x</sub> Si <sub>x</sub> metamagnetic Heusler alloy ribbons	W. Maziarz, P. Czaja, A. Wójcik, K. Wańkowicz, E. Cesari, J. Dutkiewicz,	2015,106,7, 711-718	W. Maziarz, P. Czaja, A. Wójcik, J. Dutkiewicz
		2.	Microstructural changes in Cu-5.8 at.% In alloy caused by high pressure torsion	A. Korneva	2015,106,7, 810-812	A. Korneva

		3.	On the wear of TiB <sub>x</sub> /TiSi <sub>y</sub> C <sub>z</sub> coatings deposited on 316L steel	A. Twardowska, J. Morgiel, B. Rajchel	2015, 106, 7, 758-763	J. Morgiel
		4.	Novel multilayer nano-composite protective coatings for metallic medical tools	Ł. Major, J.M. Lackner, M. Kot, J. Morgiel	2015, 106,7, 804-809	Ł. Major, J. Morgiel
		5.	In-situ TEM heating of Ni/Al multilayers	J. Morgiel, M. Szlezynger, M. Pomorska, Ł. Maj, K. Marszałek, R. Mania	2015,106,7, 703-710	J. Morgiel, M. Szlezynger, M. Pomorska
		6.	Microstructure and interfacial reactions in the bonding zone of explosively welded Zr700 and carbon steel plates	H. Paul, J. Morgiel, M. Faryna, M. Prażmowski, M.M. Miszczyk,	2015,106,7, 782-792	H. Paul, J. Morgiel, M. Faryna, M.M. Miszczyk
		7.	Phase transitions induced by severe plastic deformation: steady-state and equifinality,	B.B.Straumal, A.A. Mazilkin, A. R.Kilmametov, Y.G.Ivanisenko, O.A.Kogtenkova, L.Kurmanaeva, A.Korneva, P. Zięba, B. Baretzky	2015,106,7, 657-664	A.Korneva, P. Zięba
13.	<b>Journal of Alloys and Compounds</b>	1.	Microstructure and micromechanical properties of electrodeposited Zn–Mo coatings on steel	H. Kazimierczak, P. Ozga, K. Berent, M. Kot	2015, 636, 156–164	H.Kazimierczak, P. Ozga, K. Berent
		2.	Formation and growth of intermetallic phases at the interface in the Cu/ Sn-Zn-Ag-Cu /Cu joints	T. Gancarz, J. Pstruś,	2015,647, 844-856	T. Gancarz, J. Pstruś,
		3.	Phase transformations in Ni/Ti multilayers investigated by synchrotron radiation-based x-ray diffraction	A.J. Cavaleiro, A.S. Ramos, R.M. Martins, F.M. Braz-Fernandes, J. Morgiel, C.Baehtz, M.T. Vieira	2015, 646, 1165-1171	J. Morgiel
		4.	Microstructure of mechanically alloyed and annealed Al62Cu25.5Fe12.5 powder	M. Mitka, A. Goral, Ł. Rogal, L. Lityńska-Dobrzyńska	2015, 653, 47-53	M. Mitka, A. Góral, Ł. Rogal L. Lityńska-Dobrzyńska
		5.	Characterization of aluminium matrix composites reinforced by Al–Cu–Fe quasicrystalline particles	L. Lityńska-Dobrzyńska, J. Dutkiewicz, K. Stan-Głowińska, W. Wajda, L. Dembinski, C. Langlade, C. Coddet	2015,643, S114–S118	L. Lityńska-Dobrzyńska, J. Dutkiewicz, K. Stan-Głowińska W. Wajda

14.	<b>Journal of Applied Crystallography</b>	1.	Three-dimensional characterization of grain boundaries in pure nickel by serial sectioning via mechanical polishing	H..Pirgazi, K.Głowiński, A.Morawiec, L.A.I. Kestens	2015,48, 1672–1678	K. Głowiński A. Morawiec
15.	<b>Journal of Materials Engineering and Performance</b>	1.	Aluminum Matrix Composites Strengthened with CuZrAgAl Amorphous Atomized Powder Particles	J. Dutkiewicz, Ł Rogal, W. Wajda, A. Kukuła-Kurzyniec, C. Coddet, L. Dembinski	2015, 24, 2266–2273	J. Dutkiewicz, Ł Rogal, W. Wajda, A. Kukuła- Kurzyniec
16.	<b>Journal of Materials Science: Materials in Medicine</b>	1.	Biomechanical properties of hybrid heart valve prosthesis utilizing the pigs that do not express the galactose-alpha-1,3-galactose (alpha-gal) antigen derived tissue and tissue engineering technique	P. Wilczek, A. Lesiak, A. Niemiec-Cyganek, B. Kubin, R. Słomski, J. Nozynski, G. Wilczek, A. Mzyk, M. Gramatyka	2015, 26:4 nr art., s.1-11	A. Mzyk
17.	<b>Journal of Mining and Metallurgy Sect. B-Metall.</b>	1.	Activity of bismuth in liquid Ag-Bi-Ni alloys determined by equilibrium saturation method	P. Fima, J. Romanowska	2015, 51, 105-112	P. Fima
18.	<b>Journal of Sol-Gel Science and Technology</b>	1.	Photochemical silver nanoparticles deposition on sol-gel TiO <sub>2</sub> for plasmonic properties utilization	Z. Starowicz, M. Lipiński, R. P. Socha, K. Berent, G. Kulesza, P. Ozga	2015, 73, 563–571	Z. Starowicz, M. Lipinski, K. Berent, G. Kulesza, P. Ozga
19.	<b>Journal of Solid State Electrochemistry</b>	1.	Structural and electrochemical properties of Na <sub>0.72</sub> CoO <sub>2</sub> as cathode material for sodium-ion batteries	D. Baster, W. Maziarz, K. Świerczek, A. Stokłosa, J. Molenda	2015, 19,12 3605-3612	W. Maziarz
20.	<b>Journal of the Royal Society Interface</b>		Irregularities of crystallographic orientation and residual stresses in the crossed-lamellar shell as a natural functionally graded material	J. T. Bonarski, A. G. Checa, A. Rodriguez-Navarro, L. Tarkowski, W. Wajda	2015, 12, 113, 20150738	J. T. Bonarski, W. Wajda
21.	<b>Materials Characterization</b>	1.	First stage of reaction of molten Al with MgO substrate	J. Morgiel, N. Sobczak, M. Pomorska, R. Nowak	2015, 103, 133-139	J. Morgiel M. Pomorska
22.	<b>Materials and Design</b>	1.	Ni–W/ZrO <sub>2</sub> nanocomposites obtained by ultrasonic DC electrodeposition	E. Beltowska-Lehman, P. Indyka, A. Bigos, M.J. Szczerba, M. Kot	2015, 80, 1–11	E. Beltowska- Lehman, P. Indyka, A. Bigos, M.J. Szczerba

23.	<b>Materials Letters</b>	1.	Correlation between microstructure and ionic conductivity in cubic zirconia polycrystals	M. Faryna, P. Bobrowski, Z. Pędzich, M. Bućko	2015,161, 352-354	M. Faryna, P. Bobrowski
		2.	Nanoparticles in zirconium-doped aluminide coatings	M. Zagula-Yavorska, J. Morgiel, J. Romanowska, J. Sieniawski	2015, 139, 50-54	J. Morgiel
		3.	Nanoparticles in hafnium-doped aluminide coatings	J. Romanowska, J. Morgiel, M. Zagula-Yavorska, J. Sieniawski	2015,145, 162-166	J. Morgiel
		4.	Transformations of Cu(In) supersaturated solid solutions under high-pressure torsion	B.B. Straumal, A.R. Kilmametov, A.A. Mazilkin, L.Kurmanaeva, Y. Ivanisenko, A.Korneva P. Zięba, B. Baretzky	2015,138, 255–258	A. Korneva, P. Zięba
24.	<b>Materials Science and Engineering A</b>	1.	Evolution of microstructure in 100Cr6 steel after cooling from a thixoforming temperature to bainitic transformation ranges	Ł. Rogal, G. Korpala, J. Dutkiewicz	2015,624, 291–299	Ł. Rogal, J. Dutkiewicz
		2.	Microstructure and properties of bulk copper matrix composites strengthened with various kinds of graphene nanoplatelets	J. Dutkiewicz, P. Ozga, W. Maziarz, J. Pstruś, B. Kania, P. Bobrowski, J. Stolarska	2015, 28A, 124-134	J. Dutkiewicz, P. Ozga, W. Maziarz, J. Pstruś, B. Kania, P. Bobrowski, J. Stolarska
		3.	Texture evolution in titanium on complex deformation paths: Experiment and modelling	K. Kowalczyk- Gajewska, K. Sztwiertnia, J. Kawalko, K.Wierzbanowski, M.Wronski, K. Frydrych, S. Stupkiewicz, H. Petryk	2015, 637, 251 –263	K. Sztwiertnia, J. Kawalko
		4.	Mechanism of macroscopic shear band formation in plane strain compressed fine-grained Aluminium,	H. Paul, J. Driver, A. Tarasek, W. Wajda, M.M. Miszczyk	2015,642, 167-180	H. Paul, A. Tarasek, W. Wajda, M.M. Miszczyk
25.	<b>Materials Science and Engineering: C Materials for Biological Applications</b>	1.	Thrombogenicity and biocompatibility studies of reduced graphene oxide modified acellular pulmonary valve tissue	P. Wilczek, R. Major, L. Lipińska, J. Lackner, A. Mzyk	2015,1,53, 310-21	R. Major, A. Mzyk

26.	<b>Materials Science-Poland</b>	1.	Investigations of electrical and optical properties of functional TCO thin films	J. Domaradzki, D. Kaczmarek, K. Drabczyk, P. Panek	2015, 33, 2, 363-368	K. Drabczyk, P. Panek
27.	<b>Micron</b>	1.	Three-dimensional microstructural characterization of porous cubic zirconia	P. Bobrowski, Z. Pędzich, M. Faryna	2015, 78, 73-78	P. Bobrowski, M. Faryna
28.	<b>Microelectronics International</b>	1.	Investigation of electrical performance of silicon solar cells with transparent counter electrode	K. Drabczyk., J. Domaradzki, P. Panek, D. Kaczmarek	2015, 32, 3, 149-151	K. Drabczyk., P. Panek
29.	<b>Microscopy and Microanalysis</b>	1.	Stability and Transformation of Quasicrystalline Phase in Transition Metal Modified Al-(Mn-Fe)-based Alloys	K Stan-Głowińska, L Lityńska-Dobrzyńska, J Dutkiewicz, M.A. Gordillo, J.M. Wieczorek	2015, 21(S3), 1359-1360	K Stan-Głowińska, L Lityńska-Dobrzyńska, J Dutkiewicz
		2.	Transmission Kikuchi Diffraction (TKD) via a horizontally positioned detector	J.J. Funderberger, E. Bouzy, D. Goran, J. Guyon, A. Morawiec, H. Yuan	2015, 21 (S3), 1101-1102	A. Morawiec
30.	<b>Nukleonika</b>	1.	Magnetic transformation in Ni-Mn-In Heusler alloy	M. Kuźma, W. Maziarz, I. Stefaniuk	2015, 60, 3 435-438	W. Maziarz
31.	<b>Optical Materials</b>	1.	Effect of the nanocrystalline structure type on the optical properties of TiO <sub>2</sub> :Nd (1at.%) thin films	M. Mazur, D. Wojcieszak, D. Kaczmarek, J. Domaradzki, G. Zatoryb, J. Misiewicz, J. Morgiel	2015, 42, 423-429	J. Morgiel
		2.	Influence of Nd dopant amount on microstructure and photoluminescence of TiO <sub>2</sub> :Nd thin films	D. Wojcieszak, M. Mazur, D. Kaczmarek, J. Morgiel G. Zatoryb, J. Domaradzki, J. Misiewicz,	2015, 48, 172-178	J. Morgiel
32.	<b>RSC Advances</b>  <b>An international journal to further the chemical sciences</b>	1.	Effect of the silicon carbide nanoparticles introduction on biological properties of porous polymer coatings	A. Mzyk, R. Major, J. M. Lackner, F. Bruckert, P. Wilczek, B. Major	2015,3, 13906-13916	R. Major, B. Major
		2.	Development and complex characterization of biotribological Cr/CrN + a-C:H (doped Cr) nanomultilayer protective coatings for carbon-fiber composite materials	Ł. Major, M. Janusz, M. Kot, J. M. Lackner, B. Major	2015,5, 9405-9415	Ł. Major B. Major



33.	<b>Surface and Coatings Technology</b>	1.	Microstructure and tribological properties of nanostructured and conventional plasma sprayed alumina–titania coatings	W. Żórawski, A. Góral, O. Bokuvka, L. Lityńska-Dobrzyńska, K. Berent	2015, 268, 190-197	L. Lityńska-Dobrzyńska, A. Góral
		2.	Effect of Nd doping on structure and improvement of the properties of TiO2 thin films	M. Mazur, J. Morgiel, D. Wojcieszak, D. Kaczmarek, M. Kalisz	2015, 270, 57-67	J. Morgiel
		3.	Oxidation and diffusion processes during annealing of TiSi(V)N films	F. Fernandes, J. Morgiel, T. Polcar, A. Cavaleiro	2015, 275, 120-126	J. Morgiel
34.	<b>The Journal of Chemical Thermodynamics</b>	1.	Calorimetric measurements and first principles to study the (Ag-Li) liquid system	A. Dębski, M.H. Braga, W. Gašior	2015, 82, 53-57	A. Dębski, M.H. Braga, W. Gašior
35.	<b>Vacuum</b>	1.	TEM analysis of Hf doped aluminide coating deposited on Inconel 100 superalloy	M. Zagula- Yavorska, J. Morgiel, J. Romanowska, J. Sieniawski	2015, 116, 115-120	J. Morgiel

## 2. Artykuły opublikowane w pozostałych czasopismach zagranicznych – recenzowanych

L.p.	Nazwa czasopisma	L.p.	Tytuł	Autor	Rok, tom, strony	Autor IMIM PAN
1.	<b>International Journal of Biological, Biomolecular, Agricultural, Food and Biotechnological Engineering</b>	1.	Hemocompatible Thin-Film Materials Recreating the Structure of the Cell Niches with High Potential for Endothelialization	R. Major, K. Trembecka-Wojciga, J. M. Lackner, B. Major	2015, 9, 6, 616-622	R. Major, B. Major
2.	<b>International Journal of Chemical, Molecular, Nuclear, Materials and Metallurgical Engineering</b>	1.	Development and Characterization of Bio-Tribological, Nano-Multilayer Coatings for Medical Tools Application	L. Major, J. M. Lackner, M. Dynier, B. Major	2015, 6, 556- 561	L. Major, B. Major

3.	<b>IOP Conf. Series: Materials Science and Engineering</b>	1.	Microstructure and texture of zinc deformed by extrusion with forward-backward rotating die (KoBo)	K Sztwiertnia, J. Kawalko, M. Bieda, M Jaskowski, K. Pięła, W Bochniak	2015, 82, 012084	K Sztwiertnia, J. Kawalko, M Bieda
		2.	Advanced characterization of microstructural changes during recrystallization in aluminum alloy 6013	M. Bieda, J. Kawalko, F. Brisset, K.. Sztwiertnia	2015, 82, 012081	M. Bieda, J. Kawalko, K. Sztwiertnia
		3.	Modeling of recrystallization texture of aluminium: symmetric and asymmetric rolling	K. Wierzbowski, M. Kotra, M. Wronski, K. Sztwiertnia, S. Wronski, A. Lodini	2015, 82, 012039	K. Sztwiertnia
		4.	Influence of hydrostatic pressure on texture evolution in HPT deformed NiAl	C. Traenkner, R. Chulist, W. Skrotzki, T. Lippmann, J. Horky, M. Zehetbauer	2015, 82, 012026	R. Chulist
		5.	Orientation changes near the interface of explosively bonded (carbon steel)/Zr700 sheets	H. Paul, T.Baudin, F. Brisset, M. Prażmowski,	82, 2015, 012056.	H. Paul
		6.	Crystallographic aspects of nucleation and grain growth during recrystallization of high stacking fault energy metals as characterized on model Al-1%wt.Mn alloy crystals	M. Miszczyk, H. Paul, J.H. Driver, C. Maurice	82, 2015, 012047	M. Miszczyk, H. Paul
		7.	Crystallographic aspects of nucleation and growth during primary recrystallization in stable single crystals of Al and Al-1%Mn aluminium alloy	H. Paul, M. M. Miszczyk, J.H. Driver	89, 2015, 012010.	H. Paul, M. M. Miszczyk
		8.	Cube texture formation during the early stages of recrystallization of Al-1%Mn and AA1050 alloys	M. M. Miszczyk, H. Paul,	89 , 2015, 012036	M. M. Miszczyk, H. Paul
		9.	Towards effective analysis of large grain boundary data sets	K.Głowiński, A. Morawiec	2015, 82, 012085	K. Głowiński, A. Morawiec
		10.	Determination of orientations from monochromatic diffraction patterns as the constellation problem	A. Morawiec	2015, 82, 012008	A. Morawiec
4.	<b>Key Engineering Materials</b>	1.	Numerical modelling of explosive welding on the basis of the Coupled Eulerian Lagrangian approach	Ł. Madej, K. Perzyński, H. Paul	651-653 (2015) 1415-1420	H. Paul
		2.	Local strenghtening of EN AC-44200 Al alloy with ceramic fibers	K. Narlocha, J. Kaczmar, J. Morgiel	2015, 662, 237-240	J. Morgiel

		3.	Crystallography and textural aspects of crossed lamellar layers in Arcidae (Bivalvia, Mollusca) shells	Ío Almagro , P. Drzymała, Alejandro B. Rodríguez-Navarro, C. Ignacio Sainz-Díaz, Marc G. Willinger, J. Bonarski, Antonio G. Checa	2015, 672, 60-70	P. Drzymała J. Bonarski
5.	<b>Letters on Materials</b>	1.	Structure and mechanical properties of joint between hard magnetic alloy 25H15K and low carbon steel processed by pressure welding	A.F. Aletdinov, G.F. Korznikova, A. Korneva, R.M. Galeev, A.V.Korznikov	2015, 5, 2, 161-164	A. Korneva
6.	<b>Materials Today: Proceedings</b>	1.	Microstructure and martensitic transformation of Ni <sub>50</sub> Mn <sub>37.5</sub> Sn <sub>12.5-x</sub> Ge <sub>x</sub> (X=0, 1, 2, 3) Heusler alloys produced by various technologies	W. Maziarz, P. Czaja, A. Wójcik, J. Dutkiewicz, J. Przewoźnik, E. Cesari	2015, 2S, 523 – 528	W. Maziarz, P. Czaja, A. Wójcik, J. Dutkiewicz
7.	<b>Plasmonics</b>	1.	Optimization Studies on Enhanced Absorption in Thin Silicon Solar Cell by Plasmonic Silver Nanoparticles for the Front Side Configuration	Z. Starowicz, G. Kulesza-Matlak, M. Lipiński	2015, 10, 1639-1647	Z. Starowicz, G. Kulesza-Matlak, M. Lipiński
8.	<b>Solid State Phenomena</b>	1.	Effect of Hot Rolling and Equal-Channel Angular Pressing on Generation of Globular Microstructure in Semi-Solid Mg-3%Zn Alloy	Ł. Rogal, F. Czerwiński, L. Litynska-Dobrzyńska, P. Bobrowski, A. Wierzbicka-Miernik, J. Dutkiewicz	2015, 217-218, 381-388	Ł. Rogal, L. Litynska-Dobrzyńska, P. Bobrowski, A. Wierzbicka-Miernik, J. Dutkiewicz
		2.	Recrystallization behaviour of plane strain deformed Al-Mn-Mg-Sc-Zr aluminium alloy	M. Miszczyk, H. Paul	2015, 231, 1-10	M. Miszczyk, H. Paul

### 3. Artykuły w czasopismach polskich o zasięgu co najmniej krajowym

L.p.	Nazwa czasopisma	L.p.	Tytuł	Autor	Rok, tom, strony	Autor IMIM PAN
1.	<b>Archives of Materials Science and Engineering</b>	1.	Gravity/buoyancy competition within coagulation of copper droplets in slag	W. Wolczyński	2015,76, 1, 34-45	W. Wolczyński
2.	<b>Composites Theory and Practice</b>	1.	Copper matrix composites strengthened with carbon nanotubes or graphene platelets prepared by ball milling and vacuum hot pressing	J. Stolarska, J. Dutkiewicz, W. Maziarz, J. Pstruś, A. Wójcik, P. Ozga	2015, 15: 3 174-180	J. Stolarska, J. Dutkiewicz, W. Maziarz, J. Pstruś, A. Wójcik, P. Ozga
3.	<b>Elektronika. Konstrukcje Technologie Zastosowania</b>	1.	Wykorzystanie efektu plazmonowego na cząstkach metali do wzbudzenia emisji w konwerterach światła	A. Kędra, R. Socha L. Szyk - Warszńska, M. Lipiński, K. Łaba, P. Warszński	2015, 8, 25-26	M. Lipiński
		2.	Badania układów warstw zabezpieczających i kontaktów elektrycznych do zastosowań w quasielastycznych taśmach	K. Drabczyk, S. Maleczek	2015, 8, 13-15	K. Drabczyk
		3.	Koncepcja pozyskiwania i magazynowania energii na powierzchniach z wykorzystaniem quasi-elastycznych mozaikowych baterii słonecznych	K. Drabczyk, S. Maleczek, P. Swoboda , Z. Sługocki	2015,8, 15-17	K. Drabczyk
		4.	Wpływ parametrów warstw i elementów konstrukcyjnych krzemowego ogniwa słonecznego na jego charakterystykę spektralną	P. Panek	2015, 8, 18-21	P. Panek
4.	<b>Mechanik</b>	1.	Application of the high pressure torsion supported by mechanical alloying for metal-graphene composites preparation	T. Czeppe, E. Korznikova, P. Ozga, L.Lityńska-Dobrzyńska, R. Socha	2015, 2, 147-157	T. Czeppe, P. Ozga, L.Lityńska-Dobrzyńska
		2.	Odlewanie tiksotropowe - nowoczesna technologia wytwarzania zaawansowanych materiałów konstrukcyjnych	Ł. Rogal	2015, 12, 19-22	Ł. Rogal

5.	<b>Polish Journal of Chemical Technology</b>	1.	Influence of the structural and surface properties on photocatalytic activity of TiO <sub>2</sub> :Nd thin films	D. Wojcieszak, M. Mazur, J. Morgiel, A. Poniedziałek, J. Domaradzki, A. Czczot	2015, 17, 103-111	J. Morgiel
6.	<b>Przegląd Elektrotechniczny</b>	1.	Periodyczne strukturowanie powierzchni wybranych materiałów biogodnych	K. Czyż, R. Major, K. Trembecka-Wójciga, A. Rycyk, A. Szarski, M. Strzelec, J. Marczak	2015, nr 5 Elektr.	R. Major, K. Trembecka-Wójciga
7.	<b>Przegląd Spawalnictwa</b>	1.	Charakterystyka mikrostruktury powłok Ni-Al <sub>2</sub> O <sub>3</sub> natryskanych zimnym gazem	A. Góral, W. Żórawski	2015, 9, 34-37	A. Góral
		2.	Mikrostruktura i właściwości mechaniczne natryskanych plazmowo powłok ZrO <sub>2</sub> -8Y <sub>2</sub> O <sub>3</sub>	K. Sokołowski, W. Żórawski, A. Góral, M. Makrenek	2015, 9, 52-55	A. Góral

#### 4. Publikacje w materiałach konferencyjnych

L.p.	Nazwa konferencji	L.p.	Tytuł	Autor	Rok, tom, strony	Autor IMIM PAN
1.	31st European Photovoltaic Solar Energy Conference and Exhibition 14-18.09.2015, Hamburg, Niemcy	1.	Innovative gathering and energy management system integrated within PV module	W. Grzesiak, P. Mackow, T. Maj, A. Polak, E. Klugmann-Radziemska, S. Zawora, K. Drabczyk, S. Gulkowski, P. Grzesiak	2015, 2412-2415	K. Drabczyk
2.	CAMRIC 2015 1 <sup>st</sup> Forum of Ongoing Establishment of Center for Advanced Materials Research and International Collaboration 9-10.12. 2015, Toyama Japonia	1.	Aluminium matrix composites strengthened with either amorphous or quasicrystalline phase	J. Dutkiewicz, L. Lityńska-Dobrzyńska, A. Kukuła, M. Mitka, C. Coddet, L. Dembinski	2015, 79-80	J. Dutkiewicz, L. Lityńska-Dobrzyńska, A. Kukuła, M. Mitka

3.	IMAPS Poland 2015 39 th International Microelectronics and Packaging Conference 21-23.09 2015, Gdańsk, Polska	1.	Comparison of diffused layer prepared using dopant liquid solutions and pastes for solar cell with screen printed electrodes	K. Drabczyk, E. Wróbel, G. Kulesza-Matlak, W. Filipowski, K. Waczyński, M. Lipiński	2015, I,	K. Drabczyk, G. Kulesza- Matlak, M. Lipiński
		2.	Influence of application of ITO layer on electrical parameters of silicon solar cells with screen printed front electrode	K. Drabczyk, J.Domaradzki, G. Kulesza-Matlak, M. Lipiński, D. Kaczmarek	2015, I,	K. Drabczyk, G. Kulesza- Matlak, M. Lipiński
4.	ISSE 2015 38 <sup>th</sup> International Spring Seminar on Electronics 06.-10.2015 Eger, Węgry	1.	Investigation of the Copper Deposition on Screen Printed Front Electrode of Solar Cell	K. Drabczyk, R. Socha, G. Mordarski, A.Skwarek	2015, 46-47	K. Drabczyk
5.	Microtherm 2015 Microtechnology and Thermal Problems In Electronics 23-25.06.2015, Łódź, Polska	1.	Perovskite nanoparticles used as light converter for solar cell	M. Lipiński, P. R.Socha, A. Kędra, G. Kulesza-Matlak, Z. Starowicz, Ł. Major, K. Drabczyk, K. Gawlińska, K. Łaba	2015, 97-100	M. Lipiński, G. Kulesza- Matlak, Z. Starowicz, Ł. Major
		2.	Electroluminescence imaging to determining the influence of metallization parameters for solar cells metallic contacts	K. Drabczyk, G.Kulesza- Matlak, A. Drygała, M. Szindler, M. Lipiński	2015, 152-157	K. Drabczyk, G.Kulesza- Matlak, M. Lipiński
		3.	The role of thermal thin oxides in silicon solar cells	B. Swatowska, P. Panek	2015, 105-109	P. Panek
6.	XIV Krajowa Konferencja Elektroniki 08–12.06.2015 Dartówko Wschodnie	1.	Ogniwa słoneczne na bazie materiałów perowskitowych	M. Lipiński, G. Kulesza, Z. Starowicz, R. Major, A. Tarasek	2015, 400-401	M. Lipiński, G. Kulesza, Z. Starowicz, R. Major, A. Tarasek
7.	PSCO 2015 1st Intern. Conference on Perovskite Solar Cells and ptoelectronics 27-29.09.2015, Lozanna, Szwajcaria	1.	Investigation of optical and structural properties of halide perovskites for solar cells	M. Lipiński, K. Gawlińska, G. Kulesz-Matlak, Z. Starowicz, Ł. Major, R. Major, A. Góral	2015, 159	M. Lipiński, G. Kulesz- Matlak, Z. Starowicz, Ł. Major, R. Major,A. Góral

8.	ESOMAT 2015 <b>10<sup>th</sup> European Symposium on Martensitic Transformation</b> 14-18.09. 2015, Antwerpia, Belgia	1.	Martensitic transformation and shape memory effect in Ni-Al based alloys	S. Ponomarova, V. Odnosum, I. Koval, G. Monastyrsky, V. Kolomytsev, P. Ochin, R. Portier, T. Czeppe O. Ponomarov	2015, 33, 06004	T. Czeppe
9.	APMAS 4th International Congress in Advances in Applied Physics and Materials Science, 24-27.04.2014	1.	Three-dimensional Analysis by Serial Sectioning of Cubic Zirconia Sinters	M. Faryna., P.Bobrowski, Z. Pędzich	2015, 1653, 020022. AIP Conference Proceeding	M. Faryna., P.Bobrowski
10.	<b>TRANSCOM 2015</b> 11 th European Conference of Young Scientists and Postgraduate Students 22.06–24.06, 2015 Žilina Słowacja	1.	Microstructure of Plasma Sprayed ZrO <sub>2</sub> - 8Y <sub>2</sub> O <sub>3</sub> Coatings	A. Góral, K. Sokołowski, W. Żórawski, M. Makrenek	2015, 95-99 TRANSCOM Proc. Mat. 1339-9829	A. Góral
		2.	The Properties of the Materials Used in the Process of Plasma Spraying of Optical Coatings	M. Makrenek, M. Pajdo, W. Żórawski, R. Belka, A. Góral	2015, 191-195 TRANSCOM Proc. Mat. 1339-9829	A. Góral

## 5. Monografie i rozdziały w monografiach

Monografie					
L.p.	Wydawca, ISBN / ISSN	Tytuł monografii	Autorzy	Rok Ilość stron	Język
1.	IMIM PAN Kraków 978-83-60768-20-4	Multiscale surface functionalization of blood contacting materials	Aldona Mzyk	131	angielski
2.	IMIM PAN Kraków 978-83-60768-24-2	Elaboration and characterization of plasmonic nanostructures for photovoltaic applications	Zbigniew Starowicz	111	angielski
3.	IMIM PAN Kraków 978-83-60768-23-5	Microstructure and texture effects generated during strengthening of hexagonal materials by plastic deformation in complex loading processes	Jakub Kawałko	101	angielski
4.	IMIM PAN Kraków 978-83-60768-22-8	Characterization of microstructure and properties of biodegradable alloys from the Mg-Zn-Ca system	Katarzyna Kubok	106	angielski
5.	IMIM PAN Kraków 978-83-60768-21-1	Thermodynamic, structural and thermophysical properties of liquid Al.-Li-Zn alloys	Marcela Trybuła	144	angielski
6.	IMIM PAN Kraków 978-83-60768-16-7	Role of low-angle boundaries in microstructure and texture transformations during annealing of severely deformed aluminium alloys	Jagoda Poplewska	114	angielski
7.	IMIM PAN Kraków 978-83-60768-19-8	Microstructural conditions of plastic deformation of Mg-based metal alloys	Piotr Drzymała	119	angielski
8.	IMIM PAN Kraków 978-83-60768-18-1	Magnetostructural transition and magnetocaloric effect in Ni-Mn-Sn based Heusler alloys	Paweł Czaja	133	angielski
9.	IMIM PAN Kraków 978-83-60768-17-4	Methods for quantitative characterization of three-dimensional grain boundary networks in polycrystalline materials	Krzysztof Głowiński	134	angielski



Rozdziały w monografiach					
L.p.	Wydawca, ISBN / ISSN	Tytuł monografii Tytuł rozdziału	Autorzy	Rok, tom, strony	Język
1.	Instytut Metali Niezelaznych  ISBN- 9788393879236	<b>Innowacyjne materiały do zastosowań w energooszczędnych i proekologicznych urządzeniach elektrycznych</b>  Rozdział: Schładzanie magnetyczne	A. Szewczyk, H. Szymczak, J. Ferenc, M. Kowalczyk, T. Kulik, M. Leonowicz, K. Sielicki, R. Wróblewski, Ł. Hawelek, P. Włodarczyk, M. Polak, P. Zackiewicz, R. Kolano, M. Hreczka, M. Kamińska, A. Kolano- Burian, <b>W. Maziarz</b>	11-134	polski
2.	ISSN: 1897-2691 Wydawnictwo Politechniki Świętokrzyskiej 2015: Kielce Seria wydawnicza: Monografie, Studia, Rozprawy	<b>Procesy Elektrotechnologiczne. Modelowanie i Sterowanie</b> Rozdział: Kompozyty natryskane zimnym gazem w procesach elektrotechnologicznych	W. Żórawski, <b>A. Góral</b> , B. Antoszewski, J. Świdorski, P. Furmańczyk	226-239	polski
3.	George E. Totten ISBN 9781466511040 - CAT# K14814 Series: Metals and Alloys Encyclopedia Collection ISBN 9781466511040 - CAT# K14814	Encyclopedia of Iron, Steel, and Their Alloys, Five-Volume Set (Print) Rafael Colás,  Rozdział: Large Steel Ingots: Microstructure Mathematical Modeling	<b>W. Wolczyński</b>		angielski