

Wykaz publikacji naukowych za rok 2016

Załącznik nr 2

1. Publikacje w czasopismach z Listy Filadelfijskiej

Lp	Nazwa czasopisma		Tytuł publikacji	Autor	Rok, tom, strony	Autor IMIM PAN
1.	Acta Crystallographica A	1.	On representing rotations by Rodrigues parameters in non-orthonormal reference systems	A. Morawiec	2016, 72, 548–556	A. Morawiec
2.	Acta Materialia	1.	Orientation relationship between austenite and non-modulated martensite in Ni–Mn–Ga single crystals	R. Chulist, M. Faryna, M.J. Szczerba	2016, 103, 836-843	R. Chulist, M. Faryna, M.J. Szczerba
		2.	Effect of heat treatment on magnetostructural transformations and exchange bias in Heusler Ni ₄₈ Mn _{39.5} Sn _{9.5} Al ₃ ribbons	P. Czaja, M. Fitta, J. Przewoźnik, W. Maziarz, J. Morgiel, T. Czeppe, E. Cesari	2016, 103, 30-45	P. Czaja, W. Maziarz, J. Morgiel, T. Czeppe
		3.	Detwinning of face-centered cubic deformation twins via the correspondence matrix approach	M.J. Szczerba, S. Kopacz, M.S. Szczerba	2016, 102, 162-168	M.J. Szczerba
		4.	Experimental studies on detwinning of face-centered cubic deformation twins	M.J. Szczerba, S. Kopacz, M.S. Szczerba	2016, 104, 52-61	M.J. Szczerba
		5.	Preferred orientation relationships at the Cu/ α -Al ₂ O ₃ interface: Identification and theoretical explanation	K. Nalepka, K. Sztwiertnia, P. Nalepka	2016, 104, 156-165	K. Sztwiertnia
		6.	Martensitic transition, structure and magnetic anisotropy of martensite in Ni-Mn-Sn single crystal	P. Czaja, M. J. Szczerba, R. Chulist, M. Bałanda, J. Przewoźnik, Y.I Chumlyako, N. Schell, C. Kapusta, W. Maziarz	2016, 118, 213-220	P. Czaja, M.J. Szczerba, R. Chulist, W. Maziarz
3.	Acta Physica Polonica A	1.	Characterization of precipitates in aluminium alloy 6013 after cold-rolling and annealing	M. Bieda, A. Jarzębska	2016, 130, 988-990	M. Bieda, A. Jarzębska

		2.	Influence of Fe addition on the Martensitic Transformation, structure and magnetic properties of megamagnetic Ni-Co-Mn-Sn alloys	A. Wójcik, W. Maziarz, M.J. Szczerba, M. Sikora, Ł. Hawelek, P. Czaja	2016, 130, 1026-1028	A. Wójcik, W. Maziarz, M.J. Szczerba, P. Czaja
		3.	Microstructure development in multilayers TiB/ TiSi _y C _z Coatings during Post-Deposition Heat Treatment	A. Twardowska, B. Rajchel, J. Morgiel, A. Mędała -Wójcik	2016, 130, 1124 -1128	J. Morgiel
		4.	Orientation mapping and in situ annealing in TEM and SEM - characterization of changes in aluminium alloys after deformation	M. Bieda	2016, 130, 979-981	M. Bieda
		5.	XRD and TEM in situ heating of large period Ni/Al multilayer coatings	Z. Świątek, A. Gradys, Ł. Maj, J. Morgiel, K.W. Marszałek, R. Mania, M. Szlezynger	2016, 130, 880 - 883	Z. Świątek, Ł. Maj, J. Morgiel, M. Szlezynger
4.	Applied Catalysis B: Environmental	1.	Co ₃ O ₄ -pillared montmorillonite catalysts synthesized byhydrogel-assisted route for total oxidation of toluene	A .Rokicińska, P. Natkański, B. Dudeka, M. Drozdek, L. Lityńska-Dobrzyńska, P. Kustrowski	2016, 195, 59-68	L. Lityńska-Dobrzyńska
5.	Applied Surface Science	1.	Laser surface treatment and the resultant hierarchical topography of Ti grade 2 for biomedical application	D. Kuczyńska, P. Kwaśniak, J. Marczak,J. Bonarski, J. Smolik, H. Garbacz	2016, 390, 560-569	J. Bonarski
6.	Archives of Foundry Engineering	1.	Sedimentation of Copper Droplets after their Coagulation and Growth. Laboratory Scale	W. Wołczyński, A.W. Bydałek	2016, 16, 95-99.	W. Wołczyński
		2.	Evaluation of Precipitates Type in Brasses as a Function of Charge Material	A.W. Bydałek, K. Najman, A. Kula, S. Biernat, L. Błaż, W. Wołczyński	2016, 16, 19-24	W. Wołczyński
		3.	Structural Zones in Large Static Ingot. Forecasts for Continuously Cast Brass Ingot	W. Wołczyński, Z. Lipnicki, A.W. Bydałek, A.A. Ivanova	2016, 16, 141-146	W. Wołczyński
		4.	Reagents Activity in a Copper Droplets/ Post-Processing Slag Suspension	W. Wołczyński,J. Karwan-Baczewska, K. Najman, A.W. Bydałek	2016, 16, 147-150	W. Wołczyński
		5.	Determining the Degree of Removal of Copper from Slag	A.W. Bydałek, P. Migas, W. Wołczyński, S. Biernat, A. Bydałek, K. Jasińska, P. Kwapisiński	2016, 16, 41-46	W. Wołczyński

7.	Archives of Metallurgy and Materials	1.	Texture and microstructure of pure (6n) and commercially pure aluminum after deformation by extrusion with forward-backward rotating die (KoBo)	M. Bieda, S. Boczekal, P. Koprowski, K. Sztwiertnia, K. Pieła	2016, 61, 461–468	M. Bieda, P. Koprowski, K. Sztwiertnia
		2.	Microstructure of commercial purity titanium subjected to complex loading by the KoBo method	J. Kawałko, M. Bieda, K. Sztwiertnia	2016, 61, 31–36	J. Kawałko, M. Bieda, K. Sztwiertnia
		3.	Microstructure and properties of Ni and Ni/Al ₂ O ₃ coatings electrodeposited at various current densities	A. Góral, K. Berent, M. Nowak, B. Kania	2016, 61, 55-60	A. Góral, B. Kania
		4.	Influence of Zinc on the Surface Tension, Density and Molar Volume of (Ag-Sn) _{eut} +Zn Liquid Alloys	W. Gašior, J. Pstruś, Z. Moser	2016, 611, 361-368	W. Gašior, J. Pstruś
		5.	Kinetics of Corrosion Process in H ₂ SO ₄ and HNO ₃ Aqueous Solutions of Lead Free Sn-Ag-Cu Solder Alloys	J. Guśpiel, A. Wierzbicka-Miernik, W. Reczyński	2016, 61, 559-568	J. Guśpiel, A. Wierzbicka-Miernik
		6.	Barrier structures on the basis of graded-band-gap CdHgTe obtained by evaporation-condensation-diffusion method	Z. Świątek, A.P. Vlasov, M.V. Ivashko, R.L. Petryna, A.Yu. Bonchuk, B.S. Sokolovskii	2016, 61, 115-122	Z. Świątek
		7.	Mechanical properties and corrosion resistance of HVOF sprayed coatings using nanostructured carbide powders	W. Żórawski, A. Góral, M. Makrenek	2016, 61, 1839-1846	A. Góral
		8.	Contribution of titanium, chromium and carbon buffer interlayers to bio-tribological properties of multilayer composites	Ł Major, M. Janusz, J. M. Lackner, B. Major	2016, 61, 1391–1398	Ł Major, M. Janusz, B. Major
		9.	Compressive Deformation Behavior of an Ultrafine/Nano Grained AZ31 Magnesium Processed by Accumulative Back Extrusion	S.M. Fatemi, A. Zarei-Hanzaki, H. Paul	2016, 61, 1247–1254	H. Paul
		10.	Development of Surface Modification Methods for Religaheart® Cardiac Support System	R. Major, R. Kustos, K. Trembecka-Wójciga, J. M. Lackner, B. Major	2016, 61, 1399-1404	R. Major, K. Trembecka-Wójciga, B. Major
		11.	The Influence of the Chemical Composition of Selected Waste Materials from the Production of Copper on the Final Environmental Assessment	A.W. Bydałek, S. Biernat, P. Schlafka, M. Holtzer, W. Wołczyński, F. Bydałek	2016, 61, 2135-2140	W. Wołczyński

		12.	X-ray topography of the subsurface crystal layers in the skew asymmetric reflection geometry	Z. Świątek, I. Fodchuk	2016, 61, 1931–1938	Z. Świątek
8.	Boletín de la Sociedad Española de Cerámica y Vidrio	1.	The influence of SPS heating rates on the synthesis reaction of tantalum diboride	J. Laszkiewicz-Łukasik, L. Jaworska, P. Putyra, P. Klimczyk, G. Garzel	2016, 55, 159–168	G. Garzel
9.	Bulletin of the Polish Academy of Sciences, Technical Sciences	1.	Failure modes of coatings on steel substrate	P. Mróz, S. Kucharski, K. Doliński, A. Bigos, G. Mikułowski, E. Beltowska-Lehman, P. Nolbrzak	2016, 64, 249–256	A. Bigos, E. Beltowska-Lehman
10.	Composites Theory and Practice	1.	Silver matrix composites consolidated and hot extruded from ball milled powders strengthened with different types of graphene platelets	J. Dutkiewicz, P. Ozga, J. Pstruś, W. Maziarz, J. Grzegorek	2016, 207-211	J. Dutkiewicz, P. Ozga, J. Pstruś, W. Maziarz, J. Grzegorek
11.	Crystal Growth Design	1.	New Crystallographic Relationships in Biogenic Aragonite: The Crossed-Lamellar Microstructures of Mollusks	J. Almagro, P. Drzymala, K. Berent, C. I. Sainz-Diaz, M. G. Willinger, J. Bonarski, A. G. Checa	2016, 16, 2083-2093	P. Drzymala, J. Bonarski
12.	Diamond and Related Materials	1.	Selected laser methods for surface structuring of biocompatible diamond-like carbon layers	K. Czyża, J. Marczak, R. Major, A. Mzyk, A. Rycyk, A. Sarzyński, M. Strzelec	2016, 67, 26-40	R. Major, A. Mzyk
13.	Electrochimica Acta	1.	An influence of carbon matrix origin on electrochemical behaviour of carbon-tin anode nanocomposites	A. Chojnacka, M. Świetosławski, W. Maziarz, R. Dziembaj, M. Molenda	2016, 209, 7–16	W. Maziarz
		2.	Electrodeposition of Zn-Mn-Mo layers from citrate-based aqueous electrolytes	H. Kazimierczak, A. Hara, A. Bigos, P. Ozga	2016, 202, 110–121	H. Kazimierczak, A. Hara, A. Bigos, P. Ozga
		3.	Microstructure characteristics and phase transformations of the Ni-P and Ni-P-Re electroless deposited coatings after heat treatment	J. Wojewoda-Budka, A. Wierzbicka-Miernik, L. Lityńska-Dobrzyńska, M.J. Szczerba, M. Mosialek, Z. Huber, P. Zięba	2016, 209, 183-191	J. Wojewoda-Budka, A. Wierzbicka-Miernik, L. Lityńska-Dobrzyńska, M.J. Szczerba, P. Zięba

14.	Electronic Materials Letters	1.	Influence of Phosphorous Content on Microstructure Development at the Ni-P Plating/SAC Interface	Z. Huber, J. Wojewoda-Budka, A. Wierzbicka-Miernik, A. Sypień, M. Szczerba, P. Zięba	2016, 12, 178-185	J. Wojewoda-Budka, A. Wierzbicka-Miernik, A. Sypień, M. Szczerba, P. Zięba
15.	Fluid Phase Equilibria	1.	Density, surface tension and viscosity of liquid binary Al-Zn and ternary Al-Li-Zn alloys	M. Trybula, T. Gancarz, W. Gąsior	2016, 421, 39-48	M. Trybula, T. Gancarz, W. Gąsior
		2.	The effects of Na addition on the density, surface tension and viscosity of liquid Sn-Zn alloys	T. Gancarz, W. Gąsior	2016, 418, 57-61	T. Gancarz, W. Gąsior
		3.	Density, surface tension and viscosity of liquid ZnAl + X (X = Li, Na, Si) alloys	T. Gancarz	201, 427, 97-103	T. Gancarz
16.	Intermetallics	1.	Microstructure and phase transformations in a liquid immiscible Fe ₆₀ Cu ₂ OP ₁₀ Si ₅ B ₅ alloy	K. Ziewiec, M. Wojciechowska, G. Garzeł, T. Czeppe, A. Błachowski, K. Ruebenbauer	2016, 69, 47-53	G. Garzeł, T. Czeppe
17.	Journal of Alloys and Compounds	1.	Enthalpy of formation of Li ₂ Sb and Li ₃ Sb and mixing enthalpy of liquid Li-Sb alloys	S. Terlicka, A. Dębski, P. Fima	2016, 673, 272-277	S. Terlicka, A. Dębski, P. Fima
		2.	Thermal and mechanical properties of lead-free SnZn-xNa casting alloys, and interfacial chemistry on Cu substrates during the soldering process	T. Gancarz, P. Bobrowski, J. Pstruś, S. Pawlak	2016, 679, 442-453	T. Gancarz, P. Bobrowski, J. Pstruś
18.	Journal of Applied Physics	1.	Magnetostructural transition and magnetocaloric effect in highly textured Ni-Mn-Sn alloy	P. Czaja, R. Chulist, M. J. Szczerba, J. Przewoźnik, E. Olejnik, A. Chrobak, W. Maziarz, E. Cesari	2016, 119, 16, 165102	P. Czaja, R. Chulist, M. J. Szczerba, W. Maziarz
19.	Journal of Applied Crystallography	1.	A program for refinement of lattice parameters and strain determination using Kossel diffraction patterns.	A. Morawiec	2016, 49, 322-329	A. Morawiec
20.	Journal of Chemical Thermodynamics	1.	Calorimetric study of the Li-Zn system	A. Dębski, S. Terlicka, W. Gąsior, A. Góral	2016, 103, 374-380	A. Dębski, S. Terlicka, W. Gąsior, A. Góral
		2.	Calorimetric measurements of liquid (Al+Li+Zn) alloys	A. Dębski, S. Terlicka	2016, 92, 91-96	A. Dębski, S. Terlicka

		3.	Calorimetric measurements of the Li–Zn system. Direct reaction method and mixing enthalpy	A. Dębski, W. Gašior	2016, 98, 111-117	A. Dębski, W. Gašior
		4.	Thermodynamic properties of liquid Ag-Li alloys	W. Gašior, A. Dębski	2016, 101, 270-277	W. Gašior, A. Dębski
		5.	Thermodynamic properties of Ga-Zn system. Experiment vs model	S. Terlicka, A. Dębski, W. Gašior, R. Dębski	2016, 102, 341-347	S. Terlicka, A. Dębski, W. Gašior
		6.	Thermodynamic properties of liquid Ga–Li alloys: Experiment vs. modeling	A. Dębski, W. Gašior	2016, 97, 348-353	A. Dębski, W. Gašior
21.	Journal of Electroanalytical Chemistry	1.	Effect of hydrodynamic conditions of electrodeposition process on microstructure and functional properties of Ni-W/ZrO ₂ nanocomposites	E. Beltowska-Lehman, P. Indyka, A. Bigos, M.J. Szczerba, M. Kot	2016, 775, 27-36	E. Beltowska-Lehman, A. Bigos, M.J. Szczerba
22.	Journal of Electronic Materials	1.	Microstructure and Thermal Analysis of As-Cast Ag-Bi-Ni alloys	P. Fima, G. Garzeł, K. Berent	2016, 45, 136-144	P. Fima, G. Garzeł
		2.	Influence of Li addition to ZnAl alloys on Cu substrate during spreading test and after aging treatment	T. Gancarz, J. Pstruś, G. Cempura, K. Berent	2016, 45, 6067-6078	T. Gancarz, J. Pstruś
23.	Journal of the European Ceramic Society	1.	Structural and mechanical aspects of multilayers graphene addition in alumina matrix composites-validation of computer simulation model	M. Kostecki, M. Grabczuk, P. Klimczyk, T. Cygan, J. Woźniak, T. Wejrzanowski, L. Jaworska, J. Morgiel, A. Olszyna	2016, 36, 4171-4179	J. Morgiel
		2.	Structural, optical and electrical properties of nanocrystalline TiO ₂ , SnO ₂ and their composites obtained by the sol–gel method	A. Marzec, M. Radecka, W. Maziarz, A. Kusior, Z. Pędzich	2016, 36, 2981–2989	W. Maziarz
24.	Journal of Magnetism and Magnetic Materials	1.	Effect of ball milling and thermal treatment on exchange bias and magnetocaloric properties of Ni ₄₈ Mn _{39.5} Sn _{10.5} Al ₂ ribbons	P. Czaja, J. Przewoźnik, M. Fitta, M. Bałanda, A. Chrobak, B. Kania, P. Zackiewicz, A. Wójcik, M. Szlezynger, W. Maziarz	2016, 40, 1223-230	P. Czaja, B. Kania, A. Wójcik, M. Szlezynger, W. Maziarz
		2.	Magneto-structural transformations in Ni ₅₀ Mn _{37.5} Sn _{12.5-x} In _x Heusler powders	W. Maziarz, A. Wójcik, P. Czaja, A. Żywczak, J. Dutkiewicz, Ł. Hawełek, E. Cesari	2016, 41, 123-131	W. Maziarz, A. Wójcik, P. Czaja, J. Dutkiewicz

25.	Journal of Materials Engineering and Performance	1.	Properties of the Ti ₄₀ Zr ₁₀ Cu ₃₆ Pd ₁₄ BMG Modified by Sn and Nb Additions	A. Sypień, M. Stoica, T. Czeppe	2016, 25, 800-808	A. Sypień, T. Czeppe
		2.	Wettability and reactivity of ZrB ₂ substrates with liquid Al	R. Nowak, N. Sobczak, G. Bruzda, J. Wojewoda-Budka, L. Lityńska-Dobrzyńska, M. Homa, I. Kaban, L. Xi, L. Jaworska	2016, 25, 3310-3316	J. Wojewoda-Budka, L. Lityńska-Dobrzyńska
		3.	Microstructure changes and phase growth occurring at the interface of the Al/Ti explosively welded and annealed joints	D.M. Fronczek, R. Chulist, L. Lityńska-Dobrzyńska, Z. Szulc, P. Zieba, J. Wojewoda-Budka	2016, 25, 3211-3217	D.M. Fronczek, R. Chulist, L. Lityńska-Dobrzyńska, P. Zieba, J. Wojewoda-Budka
		4.	Modification of the Ti ₄₀ Cu ₃₆ Zr ₁₀ Pd ₁₄ BMG Crystallization Mechanism with Heating Rates 10-140 K/min	T. Czeppe, A. Sypień, A. Wierzbicka-Miernik	2016, 25, 5289-5301	T. Czeppe, A. Sypień, A. Wierzbicka-Miernik
		5.	Wetting and interfacial chemistry of Sn-Zn-Ga alloys with Cu substrate	T. Gancarz, P. Fima	2016, 25, 3358-3365	T. Gancarz, P. Fima
		6.	Wetting behavior and reactivity between Al ₆ Ti alloy and carbon nano-tubes	M. Homa, N. Sobczak, J.J. Sobczak, J. Morgiel, S. Seal, R. Nowak, G. Bruzda	2016, 25, 3317-3329	J. Morgiel
		7.	Interfacial reactions of Zn-Al alloys with Na addition on Cu substrate during spreading test and after aging treatments	T. Gancarz, J. Pstruś, K. Berent	2016, 25, 3366-3374	T. Gancarz, J. Pstruś
		8.	Thermal and microstructure characterization of Zn-Al-Si cast alloys and chemical reaction with Cu substrate during spreading	K. Berent, J. Pstruś, T. Gancarz	2016, 25, 3375-3383	J. Pstruś, T. Gancarz
		9.	Effect of Tempering and Strain on Decomposition of Metastable Austenite in X210CrW12 Thixo-Cast Steel	Ł. Rogal, T. Bonarski, P. Bobrowski	2016, 25, 845-852	Ł. Rogal, T. Bonarski, P. Bobrowski
26.	Journal of Materials Science	1.	High temperature reactivity and wetting characteristics of Al/ZnO system related to the zinc oxide single crystal orientation	J. Wojewoda-Budka, K. Stan-Głowińska, R. Nowak, N. Sobczak	2016, 51, 1692-1700	J. Wojewoda-Budka, K. Stan-Głowińska
		2.	Asymmetric distribution of martensitic variants in non-modulated NiMnGa single crystals	R. Chulist, M. Faryna, M.J. Szczerba	2016, 51, 10943-10948	R. Chulist, M. Faryna, M.J. Szczerba

27.	Journal of Microscopy	1.	Microstructure characterization of advanced protective Cr/CrN+a-C:H/a-C:H:Cr multilayer coatings on Carbon Fiber Composite (CFC)	Ł. Major, M. Janusz, J.M. Lackner, M. Kot, B. Major	2016, 262, 191-202	Ł. Major, M. Janusz, B. Major
		2.	Microstructure and oxidation behaviour investigation of rhodium modified aluminide coating deposited on CMSX4 superalloy	M. Zagula-Yavorska, J. Morgiel, J. Romanowska, J. Sieniawski	2016, 261, 320-325	J. Morgiel
28.	Journal of Nanomaterials	1.	Mechanical and Tribological Properties of Carbon-Based Graded Coatings	M. Kot, Ł. Major, J.M. Lackner, K. Chronowska- Przywara, M. Janusz, W. Rakowski	2016, 2016, 1-14	Ł. Major, M. Janusz
29.	Journal of Phase Equilibria and Diffusion	1.	Calorimetric and Electromotive Force Measurements of Al-Li-Zn Liquid Solutions	W. Gąsior, A. Dębski, S. Terlicka	2016, 37, 481-490	W. Gąsior, A. Dębski, S. Terlicka
30.	Journal of Physics D: Applied Physics	1.	Mechanisms of the formation of low spatial frequency LIPSS on Ni/ Ti reactive multilayers	L.T. Canguero, A. J. Cavaleiro, J. Morgiel, R. Vilar	2016, 49, 365103	J. Morgiel
31.	Journal of the Mechanical Behavior of Biomedical Materials	1.	Improved wear resistance of functional diamond like carbon coated Ti-6Al-4V alloys in an edge loading conditions	D. Choudhury, J.M. Lackner, Ł. Major, T. Morita, Y. Sawae, A.B. Mamat, I. Stavness, C.K. Roy, I. Krupka	2016, 59, 586-595	Ł. Major
32.	Materials Characterization	1.	Characterization of ZnAl cast alloys with Na addition	T. Gancarz, G. Cempura, W. Skuza	2016,111, 147-153	T. Gancarz, W. Skuza
		2.	Microstructure and mechanical properties of aluminium matrix composites reinforced by Al62Cu25.5Fe12.5 melt spun ribbon	L. Lityńska-Dobrzyńska, M. Mitka, A. Góral, K. Stan-Głowińska, J. Dutkiewicz	2016, 117, 127-133	L. Lityńska-Dobrzyńska, M. Mitka, A. Góral, K. Stan-Głowińska, J. Dutkiewicz
		3.	Effect of high pressure torsion on microstructure of Cu-Sn alloys with different content of Hume Rothery phase	A. Korneva, B. Straumal, A. Kilmametov, L. Lityńska-Dobrzyńska, G. Cios, P. Bała, P. Zięba	2016, 118, 411-416	A. Korneva, L. Lityńska-Dobrzyńska, P. Zięba
		4.	TEM and SEM analyses of the orientation relations of recrystallized grains in a stable Al- 1wt.%Mn single crystal	M. M. Miszczyk, H. Paul, J. H. Driver	2016, 112, 68-80	M. M. Miszczyk, H. Paul

		5.	Phase transformations in a Cu-Cr alloy induced by high pressure torsion	A. Korneva, B. Straumal, A. Kilmametov, R. Chulist, P. Straumal, P. Zięba	2016, 114, 151–156	A. Korneva, R. Chulist, P. Zięba
		6.	Evolution of microstructure and residual stress during annealing of austenitic and ferritic steels	R.Wawszczak, A. Baczmański, M. Marciszko, M. Wróbel, T. Czeppe, K. Sztwiertnia, C. Braham, K. Berent	2016, 112, 238–251	T. Czeppe, K. Sztwiertnia
		7.	Evaluation of grain boundary plane distribution in yttria stabilized polycrystalline zirconia based on 3D EBSD analysis	P. Bobrowski, M. Faryna, K. Głowiński	2016, 122, 137-141	P. Bobrowski, M. Faryna, K. Głowiński
33.	Materials Chemistry and Physics	1.	Effect of current density on properties of Ni–W nanocomposite coatings reinforced with zirconia particles	E. Bełtowska-Lehman, P. Indyka, A. Bigos, M.J. Szczerba, J. Guśpiel, H. Kościelny, M. Kot	2016, 173, 524-533	E. Bełtowska-Lehman, A. Bigos, M.J. Szczerba, J. Guśpiel, H. Kościelny
34.	Materials and Design	1.	Structural properties of Ti/Al clads manufactured by explosive welding and annealing	D.M. Fronczek, J. Wojewoda-Budka, R. Chulist, A. Sypień, A. Korneva, Z. Szulc, N. Schell, P. Zięba	2016, 91, 80–89	D.M. Fronczek, J. Wojewoda-Budka, R. Chulist, A. Sypień, A. Korneva, P. Zięba
		2.	Characterization of ZnAl cast alloys with Li addition	T. Gancarz, G. Cempura	2016, 104, 51-59	T. Gancarz
		3.	Microstructure and mechanical properties of the novel Hf ₂₅ Sc ₂₅ Ti ₂₅ Zr ₂₅ equiatomic alloy with hexagonal solid solutions	Ł. Rogal, F. Czerwiński, P.T. Jochym, L. Lityńska-Dobrzyńska	2016, 92, 8-17	Ł. Rogal, L. Lityńska-Dobrzyńska
35.	Materials Letters	1.	The effect of aging temperature on the phenomena occurring at the interface of solder SnZn with Na on Cu substrate	T. Gancarz	2016, 171, 187-190	T. Gancarz
		2.	Grain refinement of intermetallic compounds in the Cu-Sn system under high pressure torsion	A. Korneva, B. Straumal, R. Chulist, A. Kilmametov, G. Cios, P. Bała, N. Schell, P. Zięba	2016, 179, 12–15	A. Korneva, R. Chulist, P. Zięba

36.	Materials Research Bulletin	1.	A comparative study of direct versus post-synthesis alumination of mesoporous FSM-16 silica	M. Zimowska, A. Michalik-Zym, J. Krysiak-Czerwenka, R. Dula, R.P. Socha, K. Pamin, M. Bazarnik, K. Bahranowski, Z. Olejniczak, L. Lityńska-Dobrzyńska, E.M. Serwicka	2016, 83, 623–631	L. Lityńska-Dobrzyńska
37.	Materiale Science and Engineering A	1.	Microstructure and mechanical properties of the New Nb ₂₅ Sc ₂₅ Ti ₂₅ Zr ₂₅ eutectic high entropy alloy	Ł. Rogal, J. Morgiel, Z. Świątek, F. Czerwiński	2016, 651, 590-597	Ł. Rogal, J. Morgiel, Z. Świątek
		2.	Feasibility study for thixoforming nanostructured bainitic steels	Ł. Rogal, W Solano-Alvarez, Z. Szklarz, H. Bhadeshia	2016, 51, 708-719	Ł. Rogal
38.	Materials Science and Engineering B	1.	Tuning magneto-structural properties of Ni ₄₄ Co ₆ Mn ₃₉ Sn ₁₁ Heusler alloy ribbons by Fe-doping	A. Wójcik, W. Maziarz, M. J. Szczerba, M. Sikora, J. Dutkiewicz, E. Cesari	2016, 209, 23-29	A. Wójcik, W. Maziarz, M.J. Szczerba, J. Dutkiewicz
39.	Materials Science and Engineering C	1.	In vitro hemocompatibility on thin ceramic and hydrogel films deposited on polymer substrate performed in arterial flow conditions	R. Major, K. Trembecka-Wójciga, M. Kot, J.M. Lackner, P. Wilczek, B. Major	2016, 61, 15-22	R. Major, K. Trembecka- Wójciga, B. Major
40.	Metalurgija	1.	The Influence of the Ionic Reactions on the Refining Secondary Raw Materials	P. Schläfka, A.W. Bydałek, M. Holtzer, W. Wołczyński	2016, 55, 4, 609-612	W. Wołczyński
41.	Metallurgical and Materials Transactions A	1.	Physical, thermal, mechanical properties and microstructural characterization of Sn-9Zn-XGa alloys	T. Gancarz	2016, 47, 326-333	T. Gancarz
		2.	Effect of Cu addition to Zn-12Al alloy on thermal properties and wettability on Cu and Al substrates	T. Gancarz, J. Pstruś, S. Mosińska, S. Pawlak	2016, 47, 368-377	T. Gancarz, J. Pstruś
		3.	Calorimetric measurements of liquid Al-Zn alloys	A. Dębski, W. Gašior, K. Szmit	2016, 47, 4933-4940	A. Dębski, W. Gašior
42.	Microelectronics International	1.	Comparison of diffused layer prepared using liquid dopant solutions and pastes for solar cell with screen printed electrodes	K. Drabczyk, E. Wróbel, G. Kulesza-Matlak, W. Filipowski, K. Waczyński, M. Lipiński	2016, 33, 167–171	K. Drabczyk, E. Wróbel, G. Kulesza-Matlak, M. Lipiński

		2.	Influence of ITO layer application on electrical parameters of silicon solar cells with screen printed front electrode	K. Drabczyk, J. Domaradzki, G. Kulesza-Matlak, M. Lipiński, D. Kaczmarek	2016, 33, 3, 172–175	K. Drabczyk, G. Kulesza-Matlak, M. Lipiński
		3.	Influence of the SiNx:H layer deposited by PECVD technique on the surface and grain boundary passivation of mc-Si	S. Kluska, P. Panek	2016, 33, 162-166	P. Panek
43.	Microporous and Mezoporous Materials	1.	Hydrogel template-assisted synesis of nanometric Fe ₂ O ₃ supported on exfoliated clay	P. Natkański, P. Kuśtrowski, A. Białas, A. Wach, A. Rokicińska, M. Kozak, L. Lityńska-Dobrzyńska	2016, 221, 212-219	L. Lityńska-Dobrzyńska
		2.	Structural rearrangements in Fe-porous clay heterostructures composites derived from Laponite®-Influence of preparation methods and Fe source	M. Zimowska, J. Gurgul, H. Palkova, Z. Olejniczak, K. Łątka, L. Lityńska-Dobrzyńska, L. Matachowski	2016, 231, 66-81	L. Lityńska-Dobrzyńska
44.	Microscopy and Microanalysis	1.	Microstructural Evaluation of Magnetocaloric Ni-Co-Mn-Sn Produced by Directed Energy Deposition	E. Stevens, J. Toman, K. Kimes, V. Chernenko, A. Wojcik, W. Maziarz, M. Chmielus	2016, 22, 1774-1775	A. Wójcik, W. Maziarz,
45.	Processing and Application of Ceramics	1.	Preparation of nanocrystalline composite TiO ₂ -SnO ₂ powders using sol-gel method combined with hydrothermal treatment	A. Marzec, Z. Pędzich, W. Maziarz	2016, 10, 249–256	W. Maziarz
46.	Physica Status Solidi A	1.	Optical properties and passivation effects of silicon nitride three layer stacks deposited by plasma enhanced chemical vapor deposition	S. Kluska, K. Hejduk, K. Drabczyk, M. Lipiński	2016, 213, 1839-1847	K. Drabczyk, M. Lipiński
47.	Physica Status Solidi C	1.	Electrical and optical studies of a tellurium-related defect in molecular-beam epitaxy-grown HgCdTe	Z. Świątek, M. V. Yakushev, I. I. Izhnin, P. Ozga, K. D. Mynbaev, V. S. Varavin, D. V. Marin, N. N. Mikhailov, S. A. Dvoretzky, A. V. Voitsekhovski, H. V. Savytskyy, O. Yu. Bonchuk	2016, 13, 461-464	Z. Świątek, P. Ozga

48.	Proceedings of the Royal Society A	1.	Comment on The five-dimensional parameter space of grain boundaries by Sutton et al.	A. Morawiec	2016, 471, 20150442	A. Morawiec
49.	RSC Advances	1.	Polyelectrolyte Multilayer film modification for chemo-mechano-regulation of endothelial cell response	A. Mzyk, J.M. Lackner, L. Lipińska, A. Niemieć-Cyganek, A. Samotus, M. Morenc	2016, 6, 8811-8828	A. Mzyk
		2.	Physicochemical properties of hydrogel template-synthesized copper(II) oxide-modified clay influencing its catalytic activity in toluene combustion	P. Natkański, A. Rokicińska, A. Wach, M. Drozdek, B. Dudek, L. Lityńska-Dobrzyńska, P. Kuśtrowski	2016, 6, 100373-100382	L. Lityńska-Dobrzyńska
50.	Solar Energy	1.	Electroluminescence imaging for determining the influence of metallization parameters for solar cell metal contacts	K. Drabczyk, G. Kulesza-Matlak, A. Drygała, M. Szindler, M. Lipiński	2016, 126, 14-21	K. Drabczyk, M. Lipiński
		2.	Innovative system for energy collection and management integrated within a photovoltaic module	W. Grzesiak, P. Maćków, T. Maj, A. Polak, E. Klugmann-Radziemska, S. Zawora, K. Drabczyk, S. Gułkowski, P. Grzesiak	2016,132, 442-452	K. Drabczyk
51.	Surface and Interface Analysis	1.	Alteration of the structure and surface composition of crystalline-amorphous porous clay heterostructures upon iron doping from metal-organic source	M. Zimowska, L. Lityńska-Dobrzyńska, Z. Olejniczak, R.P. Socha, J. Gurgul, K. Łątka	2016, 48, 527-531	L.Lityńska-Dobrzyńska
52.	Tribology International	1.	Bio-tribological properties and microstructure characterization of the polytetrafluorethylene (PTFE) coatings on polyaryletheretherketone (PEEK) substrate	Ł. Major, J. M. Lackner, M. Kot, B. Major	2016, 104, 309–320	Ł. Major, B. Major
53.	Thermochimica Acta	1.	Mixing enthalpy of liquid Ga-Li-Zn alloys.	S. Terlicka, A. Dębski	2016, 625, 3-8	S. Terlicka, A. Dębski
54.	Ultramicroscopy	1.	Orientation mapping by transtransmission-SEM with an on-axis detector	J.J. Fundenberger, E. Bouzy, D. Goran, J. Guyon, H. Yuan, A. Morawiec	2016, 161, 17–22	A. Morawiec

2. Publikacje w pozostałych czasopismach zagranicznych

Lp.	Nazwa czasopisma	Lp.	Tytuł publikacji	Autor	Rok, tom, strony	Autor IMIM PAN
1.	ChemistrySelect	1.	Efficient and Versatile Ru/SBA-15 Catalysts for Liquid-Phase Hydrogenation of the C=C and C=O Bonds under Mild Conditions	D. Duraczyńska, A. Michalik-Zym, B.D. Napruszewska, R. Dula, R. P. Socha, L. Lityńska-Dobrzyńska, A. Gawęł, K. Bahranowski, E.M. Serwicka	2016, 1, 2148–2155	L. Lityńska-Dobrzyńska
2.	Energy Procedia	1.	The new copper composite of pastes for Si solar cell front electrode application	P. Panek, R. P. Socha, G. Putynkowski. A. Slaoui	2016, 92, 962-970	P. Panek
3.	Functional Nanostructures	1.	Biomimetic surfaces effectively inhibiting coagulation process dedicated for cardiovascular devices	R. Major, K. Trembecka-Wójciga, J. Markus Lackner, H. Plutecka, B. Major, S. Mitura	2016, 1, 2, 50-59	R. Major, K. Trembecka- Wójciga, B. Major
4.	Minerals, Metals & Materials Society	1.	On recrystallization twinning in Al-1%wt.Mn single crystals of two stable orientations	M. M. Miszczyk, H. Paul, J.H. Driver, P. Drzymała	2016, 43-49	M. M. Miszczyk, H. Paul, P. Drzymała
		2.	Recrystallization nucleation and grain growth in Al-1%wt.Mn single crystals of stable orientations	M. M. Miszczyk, H. Paul, J.H. Driver	2016, 223-229	
5.	Key Engineering Materials	1.	Shear banding in polycrystalline aluminium and copper pre-deformed by ECAP and subsequently plane strain compressed	H. Paul, M.M. Miszczyk	2016, 716, 240-247	H. Paul, M.M. Miszczyk
		2.	Microstructure and mechanical properties of Ti/Cu clads manufactured by explosive bonding at different stand-off distances	W. Skuza, H. Paul, K. Berent, M. Prażmowski, P. Bobrowski	2016, 716, 464-471	W. Skuza, H. Paul, P. Bobrowski
6.	Materials Science Forum	1.	Recrystallization twinning in stable single crystals of Cu-2%Al and Al-1%Mn alloys	H. Paul, M.M. Miszczyk, J.H. Driver, P. Drzymała	2016, 879, 2428-2433	H. Paul, M.M. Miszczyk P. Drzymała

7.	IOP Conference Series: Materials Science and Engineering	1.	Nanostructural haemocompatible coatings for the internal side of artificial blood vessels	K. Trembecka- Wójciga, R. Major, J.M. Lackner, B. Butruk-Raszeja, M. Sanak, B. Major	2016, 119, conf.1, 012030	K. Trembecka- Wójciga, R. Major, B. Major
		2.	Silver nanoparticles influence on the blood activation process and their release to blood plasma from synthetic polymer scaffold	R. Major, J.M. Lackner, M. Sanak, B. Major	2016, 119, conf.1, 012031	R. Major, B. Major

3. Artykuły w czasopismach o zasięgu co najmniej krajowym

Lp.	Nazwa czasopisma	Lp.	Tytuł publikacji	Autor	Rok, tom, strony	Autor IMIM PAN
1.	Elektronika Konstrukcje Technologie. Zastosowania	1.	Badania Ogniw Perowskitowych	M. Lipiński, K. Gawlińska, Z. Starowicz, K. Drabczyk, T. Piotrowski	2016, 7, 15-17	M. Lipiński, Z. Starowicz, K. Drabczyk
		2.	Problemy laminacji ogniw krzemowych w układach EVA-PMMA	K. Drabczyk, Z. Starowicz P. Sobik	2016, 57, 12-14	K. Drabczyk Z. Starowicz
2.	Inżynieria Materialowa	1.	The influence of surface topography elaborated by prism optics based laser interference modification on cell differentiation	K. Czyż, J. Marczak, R. Major, A. Mzyk, A. Rycyk, A. Sarzyński, M. Strzelec, P. Wachulak	2016, XXXVII, 156-162	R. Major, A. Mzyk
		2.	The liquid phosphorus source for Si solar cells fabrication	P. Panek, R.P. Socha, M. Juel, P. Zięba	2016, XXXVII, 172-177	P. Panek, P. Zięba
3.	Mechanik	1.	Preparation of nanocrystalline heterostructures TiO ₂ -SnO ₂ by modified sol-gel method	A. Marzec, Z. Pedzich, W. Maziarz	2016, 5-6 506-507	W. Maziarz
		2.	Properties of the Cu-graphene composites produced by high pressure torsion	T. Czeppe, G Korznikova, A. Korznikov, P. Ozga, L. Lityńska –Dobrzyńska, R. Socha, A. Sypień	2016, 5-6, 500-501	T. Czeppe, P. Ozga, L. Lityńska–Dobrzyńska, A. Sypień

		3.	Metoda wyznaczania kąta zderzenia płyt w procesie zgrzewania wybuchowego	M. Prażmowski, K. Muskała, H. Paul	2016, 11, 1734-1542	H. Paul
		4.	Structure and Properties of the Graphene- and Diamond – copper Composites Fabricated by the High Pressure-High Temperature Method	K. Janik, T. Czeppe, L. Jaworska, P. Figiel, L. Lityńska –Dobrzyńska, P. Ozga	2016, 5-6, 502-503	T. Czeppe L. Lityńska–Dobrzyńska, P. Ozga
4.	Polish Academy of Sciences, Annual report	1.	SURDAT 3 – a database of physicochemical properties of alloys	W. Gašior, A. Dębski	2016, 55-56	W. Gašior, A. Dębski
5.	Przegląd Spawalnictwa	1.	Trwałość zmęczeniowa bimetalu cyrkon-stal w aspekcie charakterystyki złącza	M. Prażmowski, D. Rozumek, H. Paul	2016, 88, 12-15	H. Paul

Referaty na konferencjach

A. Publikacje

Lp.	Nazwa konferencji	Lp.	Tytuł	Autor
1.	XV Krajowa Konferencja Elektroniki Darlówko Wschodnie 06–10.06. 2016	1.	Badania procesów wytwarzania elektrod metalowych krzemowych ogniw fotowoltaicznych	K. Drabczyk, M. Lipiński, K. Gawlińska, Z. Starowicz
		2.	Otrzymywanie i charakteryzacja ogniw słonecznych na bazie perowskitów organo-halogenkowych	K. Gawlińska, M. Lipiński, G. Kulesza-Matlak, Z Starowicz, K. Drabczyk, Ł Major
2.	33rd International Colloquium Advanced Manufacturing and Repair Technologies in Vehicle Industry, Zuberec, Slovakia, May 25-27, 2016	1.	Comparison of the microstructure of cold sprayed and HVOF WC-12Co coatings	W. Żórawski, A. Góral, M. Makrenek, S. Kowalski
3.	XXIV Mezhdunarodnaya nauchno- tekhnicheskaya konferentsiya po fotoelektronike i priboram nochnogo videniya, Moskva, 24-27 maja 2016	1.	Defektnaya struktura implantirovannykh As ML·E plenok CdHgTe	I.I. Izhnin, Ye.I. Fitsich, A.V. Voytsekhovskiy, A.G. Korotayev, K.D. Mynbayev, V.S. Varavin, S.A. Dvoretzkiy, N.N. Mikhaylov, M.V. Yakushev, A.Yu. Bonchik, G.V. Savitskiy, P Ozga, Z. Świątek
4.	6th International Conference on Recrystallization and Grain Growth (ReX&GG 2016) Pittsburgh, PA, USA July 17–21, 2016,	1.	Recrystallization nucleation and grain growth in Al-1%wt.Mn single crystals of stable orientations	M.M. Miszczyk, H. Paul, J.H. Driver
		2.	On recrystallization twinning in Al-1%wt.Mn single crystals of two stable orientations	M.M. Miszczyk H. Paul, J.H. Driver, P. Drzymala
5.	Symposium, Stiftelsen SINTEF, Institute Material and Chemistry, Strindveinen , Trondheim, Norway 30.03.2016,	1.	Texturization of silicon by nanostructuring and new directions of R&D in Photovoltaic Laboratory IMMS	K. Gawlińska, M. Lipiński, P. Panek, Z. Starowicz, K. Drabczyk, G. Kulesza-Matlak
6.	ITSC 2016 International Thermal Spray Conference Shanghai/ P.R.China, May 10-12, 2016	1.	Microstructure and mechanical properties of cold sprayed Ni-Al ₂ O ₃ coatings	W. Żórawski, A. Góral, M. Makrenek

7.	PLASTICITY'16: The Twenty Second International Symposium on Plasticity and its Current Applications 3-9. 01.2016, Hawaii, USA	1.	Plastic flow instabilities formation in nominally stable {110}<001>-oriented copper single crystal	M.M. Miszczyk, H. Paul, J.H. Driver
		2.	Mechanism of macroscopic shear bands formation in polycrystalline copper pre-deformed by ECAP and subsequently plane strain compressed	H. Paul, M.M. Miszczyk
		3.	Micro- and macro-scale shear banding in C{112}<111>-oriented single crystals of fcc metals	H. Paul, M.M. Miszczyk, J.H. Driver
8.	XI Międzynarodowa Konferencja – Nowoczesne Technologie Odlewnicze I Metalurgiczne – Ochrona Środowiska, Kocierz, 1-3 września, 2016	1.	Ocena środowiskowa materiałów odpadowych z produkcji miedzi	A.W. Bydałek, S. Biernat, A. Kowol, D. Rodziewicz, K. Grządko, M. Holtzer, P. Kwapisiński, M. Wędrychowicz, W. Wolczyński, F. Bydałek
9.	10th International Conference on Image Analysis and Stereology in Materials - STERMAT 2016, Białka Tatrzańska, 1-4 June, 2016	1.	Aglomeration, Coagulation and Sedimentation of Copper Droplets Suspended in the Liquid Slag. Semi-Industry Conditions	W. Wolczyński, A.W. Bydałek, K.J. Kurzydłowski
10.	XII Konferencja Naukowa “ Technologia Electronowa” ELTE 2016, Wisła, 11-14. 09. 2016	1.	Domieszka akceptorowa ze źródła ciekłego do formowania emitera w krzemowych ogniwach słonecznych	P. Panek, B. Swatowska W. Dawidowski, M. Juel, P. Zięba
11.	International Conference on Semiconductor Nanostructures for Optoelectronics and Biosensors (IC SeNOB) Rzeszow, Poland 22.05-25.05, 2016,	1.	Surface-enhanced Raman scattering and Plasmon effect for enzymatic bionanocomplexes characterization	R. Wojnarowska-Nowak, J. Polit, D. Broda, Y. Bobitski, Z. Starowicz, M. Gonchar, E. M. Sheregii

B. Abstrakty

Lp	Nazwa konferencji	Lp	Tytuł	Autor
1.	APDIC Alloys Phase Diagram International Commission, APDIC Workshop Wrocław 2.04.2016	1.	Induction heating technique applied for titanium brazing	K. Badura, A. Sypień, W. Przybyło
		2.	Przemiany fazowe, mikrostruktura i przekrój przez układ równowagi Ni(Sn, V) dla małych zawartości Sn i V	T. Czeppe
		3.	Opis termodynamiczny układu Bi-Cu-Sn	G. Garzeł, A. Sypień
2.	ATPC 2016 11 th Asian Thermophysical Properties Conference Yokohama, Japan 2-6, October 2016	1.	Physicochemical properties of ZnAl alloys with Li, Na and Si additions	T. Gancarz, K. Berent
		2.	Density, surface tension and viscosity of SnZn alloys with Ag, Bi, Ga and Na additions	T. Gancarz
3.	BioMedTech Silesia 2016, Zabrze 08.04.2016,	1.	Hemozgodność wielowarstwowych powłok polielektrolitowych modyfikowanych nanocząstkami nieorganicznymi.	A. Mzyk, R. Major, K. Trembecka-Wójciga, B. Major
4.	11th Polish-Japanese Joint Seminar on Micro and Nano Analysis, Gniez, Poland 11-14 September, 2016	1.	Formation of I-phase in Al-Mn alloys modified by Fe addition	K. Stan-Głowińska, L. Lityńska-Dobrzyńska, Ł. Rogal
		2.	The effect of severe plastic deformation and heat treatment on CuCrZr alloys	A. Kováčová, T. Kvačkaj, R. Kočíško, L. Dragošek, L. Lityńska-Dobrzyńska
		3.	Effect of cooling rate on the microstructure of ZE41A magnesium alloys	L. Lityńska-Dobrzyńska, Ł. Rogal, K. Stan-Głowińska
		4.	Microstructure and mechanical characterization of ZE41A alloy after ECAP	K. Bryła, L. Lityńska-Dobrzyńska, J. Dutkiewicz, Ł. Rogal
5.	IMAPS Poland 2016 Conference 40th International Microelectronics and Packaging, Wałbrzych-Wrocław 25-28 September, 2016,	1.	Investigations of coexistence of visible transmittance and heat reflectivity in selected transparent conducting oxides	J. Domaradzki, D. Kaczmarek, M. Mazur, D. Wojcieszak, K. Drabczyk, P. Domanowski

		2.	Stencil printing for contact deposition on the crystalline silicon solar cells	P. Panek, A. Sypień, M. Musztyfaga-Staszuk, M. Jakubowska
		3.	Spray-on glass solutions for fabrication silicon solar cell emitter layer	W. Filipowski, E. Wróbel, K. Drabczyk, K. Waczyński, G. Kulesza-Matlak, M. Lipiński
		4.	Thermal interface materials based on graphene and silver nanopowder for photovoltaics	P. Sobik, R. Pawłowski, K. Drabczyk
6.	JEMS 2016 Joint European Magnetic Symposia Glasgow, Great Britain, 21-26 August 2016	1.	Transformation and magnetic behavior of magnetic shape memory Ni ₄₄ Cu _x Co ₆ Mn ₃₉ Sn-11 ribbons	A. Wójcik, C. Aguilar-Ortiz, W. Maziarz, M.J. Szczerba, M. Sikora, P. Álvarez-Alonso, E. Villa, H. Flores-Zúñiga, V.A. Chernenko
7.	IMT_Innovative Manufacturing Technology 2016, SINTERCER Krynica Zdrój, 13-15 April 2016,	1.	Comparison of the Cu- and Al.-graphene composites produced with use of the severe plastic deformation;	T. Czeppe, G. Korznikova, A. Korznikov, P. Ozga, L. Lityńska –Dobrzyńska, R. Socha, A. Sypień
		2.	Structure and Properties of the Graphene- and Diamond – Copper Composites Fabricated by the High Pressure-High Temperature Method	K. Janik, T. Czeppe, L. Jaworska, P. Figiel, L. Lityńska – Dobrzyńska, P. Ozga
8.	AMT_XXI Physical Metallurgy and Materials Science Conference, Advanced Materials and Technologies, Rawa Mazowiecka, June 5-8 2016	1.	Influence of small Sn additions on the thermophysical properties and microhardness of Ti ₄₀ Zr ₁₀ Cu _{36-x} Pd ₁₄ Sn _x amorphous alloys	T. Czeppe, A. Sypień, G. Garzel, M.Stoica
		2.	Influence of KoBo extrusion at various parameters on microstructure of AA6013 aluminum alloy	P. Koprowski, M. Bieda, S. Boczkal, P. Ostachowski, K. Kudłacz, T. Czeppe, W. Maziarz, K. Pila, K. Sztwiertnia
		3.	Thermomechanical and structural characterisation of TiAlV/TiCuZrPd/TiAlV interconnections	A. Sypień, T. Czeppe, G. Garzel

	4.	Preparation and properties of the amorphous Cu ₅₀ Zr ₅₀ alloys with additions of Al and Hf	K. Janik, T. Czepe, Ł. Rogal, M. Wróbel
	5.	Thermodynamic properties of liquid and solid Li-Zn alloys	W. Gašior, A. Dębski
	6.	Surface drug carrier system dedicated to the inhibition of human blood clotting process	R. Major, P. Wilczek, M. Sanak
	7.	Quasicrystalline phase formation in the Al-Mn and Al-Mn-Fe alloys prepared by casting with various cooling rates	K. Stan-Głowińska, Ł. Rogal, A. Góral, A. Wierzbicka-Miernik, J. Wojewoda-Budka, L. Lityńska-Dobrzyńska
	8.	Influence of Si addition on formation and thermal stability of quasicrystalline phase in Al-CuFe mechanically alloyed powder	M. Mitka, A. Góral, L. Lityńska-Dobrzyńska
	9.	On correlation between microstructure and ionic conductivity in cubic zirconia polycrystals	P. Bobrowski, M. Faryna, Z. Pędzich, M.M. Bućko
	10.	Asymmetric distribution of martensitic variants in NM Ni-Mn-Ga alloys: In-situ study	R. Chulist, M.J. Szczerba, M. Faryna
	11.	Influence of rhenium addition to the Ni-P coatings electroless deposited on copper	J. Wojewoda-Budka, A. Wierzbicka-Miernik, L. Lityńska-Dobrzyńska, M. J. Szczerba, A. Sypień, G. Mordarski, M. Mosialek, P. Zięba
	12.	Periodic layers formation in Mg/SiO ₂ and Zn/Co ₂ Si systems in the solid state reaction	J. Wojewoda-Budka, A. Wierzbicka-Miernik, L. Lityńska-Dobrzyńska, B. Onderka, R. Chulist, G. Garzel, P. Czaja
	13.	Phase transformations driven by the High Pressure Torsion	B.B. Straumal, A. Korneva, A. Kilmametov, P. Zięba

	14.	Polyelectrolyte multilayer films modification for chemo-mechano-regulation of endothelial cells' response	A. Mzyk, R. Major , J.M. Lackner, P. Wilczek, A. Niemieć-Cyganek, A. Samotus, M. Morenc, B. Major
	15.	Recrystallization texture formation during annealing in stable FCC single crystals	M.M. Miszczyk, H. Paul , J. H. Driver
	16.	Microstructure characterization of Al/Mg/Al explosively welded platters with particular attention to phase composition of their interfaces	D.M. Fronczek, R. Chulist, L. Lityńska-Dobrzyńska , Z. Szulc, P. Zięba, J. Wojewoda-Budka
	17.	Biomimetic, bio- tribological multilayer coatings design and their multiscale characterization	L. Major , J.M. Lackner, M. Janusz , M. Kot, B. Major
	18.	The effect of pulse current on the process of electrodeposition of Sn-Zn-Cu	M. Słupska, P. Ozga, A. Bigos
	19.	The corrosion resistance of Zn-Mo layers electrodeposited with the presence of various chemical organic compounds intended as a substrate for graphene layer	A. Hara, H. Kazimierzak, P. Ozga
	20.	The liquid phosphorus source for Si solar cells fabrication	P. Panek , R.P. Socha, M. Juel, P. Zięba
	21.	TEM-based orientation mapping	K. Kudłacz
	22.	Effect of high plastic deformation on microstructure and mechanical properties of zinc alloys with magnesium	A. Jarzębska, M. Bieda, J. Kawalko , K. Berent, Ł. Rogal, K. Sztwiertnia , K. Pięła, W. Pachla
	23.	Effect of Sn addition on the wettability of amorphous TiZrCuPdSn alloys on Ti-6Al-4V substrate	K. Badura, A. Sypień, P. Fima
	24.	Magneto-structural transformations in Ni ₅₀ Mn _{37.5} Sn _{12.5-x} Gex (x=0, 1, 2, 3) Heusler powders	W. Maziarz, A. Wójcik, P. Czaja, M. Szczerba , A. Żywczak, J. Dutkiewicz, E. Cesari

		25.	Microstructural investigations of materials after plastic deformation by means of in-situ annealing and orientation mapping in TEM and SEM	M. Bieda, A. Jarzębska, P. Koprowski, J. Kawalko, K. Sztwiertnia
		26.	Microstructure and texture evolution during combined two step KoBo and CR deformation proces of CP titanium samples	J. Kawalko, K. Berent, M. Bieda, K. Sztwiertnia
		27.	Microstructure and mechanical properties of SPS alumina with graphene	J. Morgiel, L. Jaworska, L. Major, P. Klimczyk, M. Szlezzynger
		28.	Microstructure, magneto-structural transitions and magnetocaloric properties in Cu-doped Ni _{44-x} Cu _x Co ₆ Mn ₃₉ Sn ₁₁ Heusler ribbons	A. Wójcik, M. Szczerba, M. Sikora, V. Chernenko, E. Cesari, J. Dutkiewicz, C. Aguilar-Ortiz, H. Flores-Zuñiga, W. Maziarz
9.	MSE 2016 Materials Science and Engineering, Darmstadt, Germany 27-29 September 2016	1.	Electromotive force study of Li-Sb alloys	P. Fima, S. Terlicka
		2.	Calorimetric measurements of liquid Ga-Li-Zn alloys.	S. Terlicka, A. Dębski
		3.	Calorimetric studies of Ga-Li-system	A. Dębski, W. Gąsior
10.	CALPHAD XLV, Awaji Island, Hyogo, Japan, May 29 - June 3 2016	1.	Calorimetric measurements of Ga-Li system	A. Dębski, W. Gąsior
		2.	Calorimetric measurements of Li-Zn system	W. Gąsior, S. Terlicka
		3.	The influence of Li addition to ZnAl alloys on Cu substrate, during spreading test and after aging treatment	T. Gancarz, J. Pstruś, K. Berent
11.	COST Action TD1305 3rd iPROMEDAI S&T Meeting, Kuşadası/Samos, Turkey/Greece 08-12.10.2016,	1.	Polymer based scaffolds modification for chemo-mechano-regulation of cellular response.	A. Mzyk, J. M. Lackner, P. Wilczek, L. Lipińska, A. Niemiec-Cyganek, A. Samotus, M. Morenc.
12.	Dni Otwarte Klastra Life Science, Kraków, 16.06.2016,	1.	Biomimetyczne powłoki funkcjonalne w urządzeniach wspomagających pracę układu sercowo-naczyniowego	A. Mzyk, R. Major, K. Trembecka-Wójciga, B. Major

13.	E-MRS 2016 Spring Meeting and Exhibit, Lille, France 2-6 may 2016,	1.	The effect of the process parameters on microstructure of silver nanoparticles photochemically deposited on titanium dioxide	Z. Starowicz, P. Ozga, H. Kazimierzczak, R.P. Socha, K. Berent, M. Lipiński
14.	FEMS Junior Euromat, Lausanne, Switzerland 10-14 July, 2016,	1.	Brazing of Ti-6Al-4V alloy with new amorphous Ti-Zr-Cu-Pd-Sn filler foil	K. Badura, A. Sypień
15.	ICFSMA 2016 Fifth International Conference on Ferromagnetic Shape Memory Alloys, Sendai, Japan , 5-9 September 2016	1.	Asymmetric distribution of martensitic variants in NiMnGa shape memory alloys	R. Chulist, M. Faryna, M.J. Szczerba
		2.	On the mechanism of martensitic transformation in a Ni-Mn-Ga single crystal	M.J. Szczerba, R. Chulist
		3.	Atomic ordering and magnetic properties of directionally solidified Ni-Co-Mn-Sn-In metamagnetic Heusler alloy	P. Czaja, J. Morgiel, T. Czeppe, M. Kowalczyk, M. Szlezzynger, W. Maziarz
		4.	Microstructure and martensitic transformation in vacuum hot pressed Ni-Mn-Sn-In Heusler powders	W. Maziarz, A. Wójcik, M. Szczerba, J. Dutkiewicz, P. Czaja, J. Karwan-Baczewska, E. Cesari
		5.	Influence of Si addition on microstructure, martensitic transformation and inverse magnetocaloric effect in Ni-Co-Mn-Sn metamagnetic shape memory alloys	A. Wójcik, M. J. Szczerba, M. Kowalczyk, E. Cesari, W. Maziarz
16.	International Conference on Plasticity, Damage, and Fracture, Hawaii, January 3-9. 2016	1.	In-situ investigation on the martensitic transformation in NiMnGa alloys	R. Chulist, M. Faryna, M.J. Szczerba
17.	International Workshop on Materials and Methods for Cost-effective Solar Cell Production, 16 November 2016, Krakow, Poland	1.	In-line processing of n ⁺ /p and p/p ⁺ junction systems for cheap crystalline Si solar cells production	P. Panek, P. Zięba, R. Socha, M. Juel, A. Sypień, K. Gawlińska
		2.	Application of two devices for measuring the resistance of a joint between the electrode and substrate of solar cell using transmission line method	M. Musztyfaga-Staszuk, P. Zięba, P. Panek

18.	IOM implantation and other applications of ions and electrons, Kazimierz Dolny, Poland, June 13-16, 2016	1.	Local pseudoelastic behavior and surface characteristics of N ion implanted NiTi shape memory alloy	N. Levintant-Zayonts, L. Kwiatkowski, Z. Świątek , J. Brzozowska
19.	ISE - 67th Annual Meeting of the International Society of Electrochemistry, The Netherlands Hague, 21-26 August, 2016,	1.	Corrosion resistance of Zn-Mn-Mo coatings electrodeposited on steel	H. Kazimierczak, A. Hara, A. Bigos, P. Ozga
20.	16 th Materials and methods for cost-effective solar cell production. InlinePV Project Workshop Krakow, Poland, 16th November 2016	1.	Experimental and simulation studies of optimal plasmonic structure for the front side configuration of silicon solar cells and photodiodes.	Z. Starowicz , A. Kędra, K. Berent, K. Gawlińska , K. Gwóźdź, E. Zielony, G. Kulesza-Matlak , R.P. Socha, K. Drabczyk, M. Lipiński
		2.	Synthesis and characterization of organic and inorganic perovskites for application in solar cells.	A. Krawczyk, R. Socha, Z. Starowicz , M. Zimowska, M. Lipiński , P. Warszyński
		3.	Characterisation of organo-halide perovskites solar cells	M. Lipiński, K. Gawlińska, Z. Starowicz, K. Drabczyk, Ł. Major
		4.	Thermal Interface Materials based on Graphene and silver nanopowder for photovoltaics	P. Sobik, K. Drabczyk
21.	Seminarium „Spektroskopia, mikroskopia, samoorganizacja”, Kraków, Polska 06-07.10.2016	1.	Hemozgodność wielowarstwowych powłok polielektrolitowych.	A. Mzyk, R. Major, K. Trembecka-Wójciga, B. Major.
		2.	Obrazowanie ramanowskie procesów korozyjnych przebiegających na podłożach metalicznych pokrytych grafenem	A. Hara , A. Krajewska, W. Strupiński, P. Ozga
22.	SWE 16 Society of Women Engineers Conference, Philadelphia, Pa, USA, 27-29 October	1.	Expanding the possibilities for magnetocaloric materials with additive manufacturing: an exploratory study	E. Stevens, J. Toman, K. Kimes, A. Wójcik, W. Maziarz , V. Chernenko, M. Chmielus
23.	14th International Symposium on Novel and Nano Materials (ISNNM-2016), Budapest, Hungary, 3-8 July	1.	Discontinuous reactions-last decade: Redivivus	P. Zięba

24.	3rd International Conference on BioTribology, London, Great Britain 11-14. 09. 2016	1.	Biological, tribological as well as microstructure characterization of nano-composite, amorphous carbon coatings (a-C:H or DLC), reinforced with metallic nanoparticles	M. Janusz, Ł. Major, M. Kot, J.M. Lackner
25.	11th International Workshop on Subsecond Thermophysics (IWSSTP), Krakow, Poland, 21-24.06.2016,	1.	Induction heating technique applied for titanium brazing	K. Badura, A. Sypień, W. Przybyło
26.	15th International Symposium on Metal-Hydrogen Systems (MH2016), Interlaken, Switzerland, 7-12 August 2016	1.	C-P-T and in-situ neutron diffraction study of deuterium absorption by HoMn ₂ .	A. Budziak, H. Figiel, D. Wójcik, A. Hoser, A. Dębski , G. Cios
27.	23rd International Symposium on Metastable, Amorphous and Nanostructured Materials ISMANAM 2016; WPI Advanced Institute for Materials Research, Tohoku University, Sendai, Japan, 3 – 8 July 2016	1.	Evolution of microstructure and mechanical properties of AA 6013 during plastic deformation and thermal treatment	M. Bieda, A. Jarzębska, P. Koprowski, W. Maziarz, J. Kawalko, J. Bogucka, K. Sztwiertnia
		2.	Effects of KoBo extrusion at various parameters on microstructure and mechanical properties of AA6013 aluminium alloy	P. Koprowski, M. Bieda, A. Jarzębska, S. Boczek, P. Ostachowski, K. Kudlacz, J. Kawalko, T. Czeppe, W. Maziarz, K. Sztwiertnia
		3.	Evolution of microstructure and texture of CP titanium during deformation in KoBo process followed by cold rolling	J. Kawalko, P. Bobrowski, P. Koprowski, A. Jarzębska, M. Bieda, M. Łagoda, K. Sztwiertnia
28.	16th European Microscopy Congress 28. 08 –02.09, 2016 Lyon, France	1.	Microstructure characterization of bioinspired multilayer coatings on advanced polymer PEEK type materials as well as on Carbon Fiber Composites (CFC)	Ł. Major, J. M. Lackner , M. Janusz, M. Kot, B. Major
29.	XLVIII Ogólnopolskie Kolokwium Katalityczne, Kraków, Polska 16-18.03.2016	1.	Interaction of plasmonic particles with light converters	A. Kędra, R.P. Socha, L. Szyk-Warszyńska, M. Zimowska, K. Szczepanowicz, Z. Starowicz ,

				M. Lipiński , P. Warszyński,
30.	18th International Conference on Crystal Growth and Epitaxy, Nagoya, 7-12 August, 2016	1.	Correlation between Thermal Gradients Field and Structure formation in Steel Static and Continuously Cast Brass Ingot	W. Wolczyński , B. Kania , A.W. Bydałek, P. Kwapiński, A.A. Ivanova
		2.	The Decopperisation and Coagulation by Use the Carbo-N-O _x	A.W. Bydałek, W. Wolczyński , J. Karwan-Baczewska
31.	5 th International Workshop on Directionally Solidified Eutectic Ceramics, Warszawa, 3-7 April, 2016	1.	Pattern Selection in the Eutectic Layers Strengthening a Single Crystal	W. Wolczyński
32.	THERMAEC'2016 International Conference on PROCESSING & MANUFACTURING OF ADVANCED MATERIALS Processing, Fabrication, Properties, Applications, , Graz, Austria, May 29 – June 3, 2016	1.	The influence of the deformed texture components on Cube- oriented grains formation during recrystallization of AA1050 aluminium alloy	M.M. Miszczyk , J. Poplewska , H. Paul
		2.	The influence of the as-deformed texture components on cube-oriented grains formation during primary recrystallization of AA1050 alloy	M.M. Miszczyk , J. Poplewska , H. Paul , J.H. Driver
		3.	Recrystallization twinning during primary recrystallization in stable single crystals of fcc metals	H. Paul , M. M. Miszczyk , J. H. Driver, P. Drzymala
33.	ISM 2016 The Golden Jubilee Annual Meeting of the Israel Society for Microscopy Haifa, Israel, 31.05-02.06. 2016	1.	CSpot-A computer program for simulation, indexing and analysis of TEM diffraction patterns	K. Kudlacz
	The Royal Society Electron Backscatter Diffraction Meeting, Manchester, 20-23.03.2016	2.	Microstructure and ionic conductivity of Solid Oxide Fuel Cells (SOFCs) studied by three dimensional electron backscatter diffraction and impedance spectroscopy	M. Faryna
34.	TMS Annual Meeting & Exhibition 2016, Nashville, USA, 14-18.02.2016	1.	Periodic Layers Structure in Mg/SiO ₂ System Created in the Solid State	J. Wojewoda-Budka , A. Wierzbicka-Miernik , L. Lityńska-Dobrzyńska , B. Onderka

		2.	The effect of aging temperature on the phenomena occurring at the interface of solder SnZn with Na on Cu substrate	T. Gancarz
35.	WFC 2016, World Foundry Congress in Nagoya, Japan, May 21-25, 2016	1.	Characterisation of ZnAl cast alloys with Li addition	T. Gancarz
36.	5th Polish-German International PhD Seminar 2016; Fraunhofer-Institut für Keramische Technologien und Systeme IKTS; Drezno- Kraków-Warszawa 30.11-02.12.2016	1.	Impact of hydrostatic extrusion on microstructure and mechanical properties of biodegradable zinc alloys with magnesium	A. Jarzębska, M. Bieda, J. Kawalko, P. Bobrowski, K. Berent, Ł. Rogal, K. Sztwiertnia, W. Pachla, M. Kulczyk
		2.	Mechanical properties, microstructure and DSC measurements of AA6013 aluminium alloy subjected to plastic deformation using KoBo method	P. Koprowski, M. Bieda, A. Jarzębska, S. Boczkal, P. Ostachowski, K. Kudłacz, J. Kawalko, T. Czeppe, W. Maziarz, K. Sztwiertnia
		3.	Magneto-structural properties of Ni ₄₄ Co ₆ Mn ₃₉ Sn ₁₀ Si ₁ Heusler polycrystalline alloys	A. Wójcik, W. Maziarz, M. J. Szczerba, M. Kowalczyk, J. Dutkiewicz
		4.	Preparation and properties of rapidly quenched Cu ₅₀ Zr ₅₀ amorphous alloys with addition of Al. and Hf	K. Janik, T. Czeppe,, A. Wierzbicka-Miernik, M. Stoica,
		5.	Bio - tribological and microstructure characterization of the amorphous carbon coatings (a-C:H or DLC), reinforced with metallic nano-particles	M. Janusz, Ł. Major, M. Kot, J.M. Lackner
		6.	Effect of milling time of powder mixtures Cu-CNT on the grain characteristics	J. Grzegorek, W. Maziarz, B. Olszowska Sobieraj

37.	7th International Scientific and Technical Conference “Sensors Electronics and Microsystem Technologies” (SEMST-7), Ukraine, Odessa, May 30–June 2016	1.	Properties of arsenic–implanted CdxHg1-xTe MBE structures	O.I.Fitsych, I.I Izhnin, A.V.Voitsekhovski, A.G. Korotaev, O.Yu. Bonchuk, H.V Savytskyy, K.D. Mynbaev, V.S. Varavin, S.A. Dvoretzky, N.N. Mikhailov, M.V. Yakushev, Z. Świątek, P. Ozga
38.	11th International Workshop on Subsecond Thermophysics, Krakow, Poland 21–24 June 2016	1.	Induction heating technique applied for titanium brazing	K. Badura, A. Sypień, W. Przybyło
39.	XV International Conference on Intergranular and Interphase Boundaries in Materials, Moscow, Russia, 23-27.05.2016	1.	Grain Bondary wetting in Cu-based alloys	O.A. Kogtenkova, A. Korneva , A.B. Straumal, A. Wierzbicka-Miernik , B.B. Straumal
40.	VII Sympozjum Fotowoltaika i Transparentna Elektronika - Perspektywy Rozwoju, Świeradów-Zdrój 12-15.05.2016	1.	Hybrydowe ogniwa fotowoltaiczne - połączenie krzemu krystalicznego i perowskitu halogenkowego	G. Kulesza-Matlak, K. Gawlińska, Z. Starowicz, M. Lipiński, K. Drabczyk, P. Zięba
		2.	Metody i materiały wpływające na redukcję kosztów w procesie produkcji ogniw słonecznych na bazie krzemu	P. Panek, P. Zięba
		3.	Problemy laminacji ogniw krzemowych w układach EVA-PMMA	K. Drabczyk
		4.	Możliwości zastosowania tlenków przewodzących w strukturze krystalicznego krzemowego ogniwa fotowoltaicznego	K. Drabczyk

Monografie, rozdziały w monografii

L.p.	Tytuł monografii, wydawca, ISSN/ISBN	Autor	Rok, tom, strony	Autor IMIM PAN	Język
1.	<p>Wieloskalowa charakterystyka połączeń w platerach Ti/Cu spajanych metoda wybuchowa. (monografia)</p> <p>Instytut Metalurgii i Inżynierii Materiałowej Polskiej Akademii Nauk Kraków 978-83-60768-34-1</p>	Skuza Wojciech	2016, 1-108	Skuza Wojciech	polski
2.	<p>Nauka i technologia. Monografia. Odlewnictwo metali nieżelaznych. XIX Międzynarodowa Konferencja Naukowo- Techniczna Odlewnictwa Metali Nieżelaznych Wydawnictwo Naukowe "Akapit", Kraków, 2016 Tytuł rozdziału: Ocena zmian parametrów stereologicznych faz eutektycznych w stopie ALSiMg po utwardzaniu wydzieleniowym.</p>	J. Grzegorek, A. Tarasek, B. Olszowska-Sobieraj, P. Leicki	2016, 149-158	J. Grzegorek, A. Tarasek	polski