

## Wykaz publikacji naukowych IMIM PAN w 2023 roku

	Tytuł czasopisma	Tytuł publikacji	Autor	Autor IMIM	Rok, tom, str. (od-do), nr DOI	
<b>A. Publikacje w czasopismach</b>						
<b>1. Publikacje w czasopismach zamieszczone w wykazie czasopism</b>	<b>L.p.</b>					
	1.	<b>ACS Applied Materials &amp; Interfaces</b>	Ambient Processed rGO/Ti3CNTx MXene Thin Film with High Oxidation Stability, Photosensitivity and Self-Cleaning Potential	M. Abiyu Kenichi Purbayanto, D. Bury, M. Chandel, Z. Dehghan Shahrak, V. N Mochalin, A. Wójcik, D. Moszczyńska, A. Wojciechowska, A. Tabassum, M. Naguib, A. M. Jastrzębska	A. Wójcik	2023, 15, 44075-44086, 10.1021/acsmi.3c07972
	2.	<b>Acta Crystallographica A</b>	On automatic determination of quasicrystal orientations by indexing of detected reflections	A. Morawiec	A. Morawiec	2023, 79, 339-344, 10.1107/S205327332300373X
	3.	<b>Acta Materialia</b>	Constant plane shift model: Structure analysis of martensitic phases in Ni50Mn27Ga22Fe1 beyond non-modulated building blocks	M. Vinogradova, A. Sozinov, L. Straka, P. Veřtát, O. Heczko, M. Zelený, R. Chulist, E. Lähderanta, K. Ullakko	R. Chulist	2023, 255, 119042, 10.1016/j.actamat.2023.119042
	4.	<b>Acta of Bioengineering and Biomechanics</b>	Characterization of biomaterials with reference to biocompatibility dedicated for patient-specific finger implants	A. Byrski, M. Kopernik, Ł. Major, K. Kasperkiewicz, M. Dyrner, J. M. Lackner, D. Lumenta, R. Major	A. Byrski, Ł. Major, R. Major	2023, 25, 1, 10.37190/ABB-02156-2022-02
	5.	<b>Additive Manufacturing</b>	How to control the crystallization of metallic glasses during laser powder bed fusion? Towards part-specific 3D printing of in situ composites	Ł. Źrodowski, R. Wróblewski, M. Leonowicz, B. Morończyk, T. Choma, J. Ciftci, W. Święszkowski, A. Dobkowska, E. Ura-Bińczyk, P. Błyskun, J. Jaroszewicz, A. Krawczyńska, K. Kulikowski, B. Wysocki, T. Cetner, G. Moneta, X. Li, L. Yuan, A. Małachowska, R. Chulist, C. Źrodowski	R. Chulist	2023, 76, 103775, 10.1016/j.addma.2023.103775
	6.	<b>Advanced Functional Materials</b>	Wet-Chemical Etching and Delamination of MoAlB into MBene and Its Outstanding Photocatalytic Performance	D. Bury, M. Jakubczak, M. Abiyu Kenichi Purbayanto, M. Rybak, M. Birowska, A. Wójcik, D. Moszczyńska, K. Eisawi, K. Prenger, V. Presser, M. Naguib, A. M. Jastrzębska	A. Wójcik	2023, 33, 2308156, 10.1002/adfm.202308156
	7.	<b>Advanced Quantum Technologies</b>	Quantum Sensing for Detection of Zinc-Triggered Free Radicals in Endothelial Cells	D. Wojtas, R. Li, A. Jarzębska, B. Sułkowski, M. Zehetbauer, E. Schafner, K. Wierzbowski, A. Mzyk, R. Schirhagl	A. Jarzębska, A. Mzyk	2023, 6, 2300174, 10.1002/qute.202300174

8.	Archives of Civil and Mechanical Engineering	Antipathogenic copper coatings: electrodeposition process and microstructure analysis	A. Bigos, M. Bugajska, I. Kwiecień, M. Janusz-Skuza, M. Szczerba, P. Ozga, A. Wierzbicka-Miernik, M. Dyrner, A. Misztela, A. Dyrner, J. Wojewoda-Budka	A. Bigos, M. Bugajska, I. Kwiecień, M. Janusz-Skuza, M. Szczerba, P. Ozga, A. Wierzbicka-Miernik, J. Wojewoda-Budka	2023, 23, 233, 10.1007/s43452-023-00772-x
9.	Archives of Civil and Mechanical Engineering	A comprehensive review of graphene-based aerogels for biomedical applications. The impact of synthesis parameters onto material microstructure and porosity	K. Trembecka-Wójciga, J. J. Sobczak, N. Sobczak	K. Trembecka-Wójciga, N. Sobczak	2023, 23, 2,133, 10.1007/s43452-023-00650-6
10.	Archives of Civil and Mechanical Engineering	Biofunctional impact of textured coatings in the application of heart assist therapy	P. Kurtyka, M. Kopernik, M. Kaczmarek, M. Surmiak, Ł. Major, R. Kustosz, J. Więcek, K. Kurtyka, A. Bartkowiak, R. Major	Ł. Major, A. Bartkowiak, R. Major	2023, 23, 1, 31, 10.1007/s43452-022-00573-8
11.	Archives of Civil and Mechanical Engineering	Biological properties of surface modified 316 LVM steel	A.Dyrner, R. Major, Ł. Major, J. Szewczenko, K. Lukaszewicz, K. Čech Barabasová, M. Krzywiecki, M. Basiaga	R. Major, Ł. Major	2023,23, 237, 10.1007/s43452-023-00776-7
12.	Archives of Civil and Mechanical Engineering	Effect of a novel controlled thermomechanical treatment on the microstructure and mechanical properties of a high-carbon nanobainitic steel	K. Janus, Ł. Rogal, J. Dutkiewicz, R. Chulist, G. Korpala, U. Prahł, K. Konczak, P. Kochmanski, K. Nalepka, W. Maziarz	K. Janus, Ł. Rogal, R. Chulist, W. Maziarz	2023, 23, 252, 10.1007/s43452-023-00791-8
13.	Archives of Civil and Mechanical Engineering	Impact of the interface on the fatigue life of steel-based explosively welded heterostructured plates	S. Derda, A. Karolczuk, G. Robak, M. Prażmowski, H. Paul, T.Łagoda, M.K. Gupta	H. Paul	2023, 23, 191-205, 10.1007/s43452-023-00731-6
14.	Archives of Civil and Mechanical Engineering	Microstructure evolution of pure titanium during hydrostatic extrusion	D. Wojtas, Ł. Maj, K. Wierzbowski, A. Jarzębska, R. Chulist, J. Kawałko, K. Trembecka-Wójciga, M. Bieda-Niemiec, K. Sztwiertnia	D. Wojtas, Ł. Maj, A. Jarzębska, R. Chulist, K. Trembecka-Wójciga, M. Bieda-Niemiec, K. Sztwiertnia	2023, 23, 9, 10.1007/s43452-022-00549-8
15.	Archives of Civil and Mechanical Engineering	Microstructure-related properties of explosively welded multi-layer Ti/Al composites after rolling and annealing	M. Solecka, S. Mróz, P. Petrzak, I. Mania, P. Szota, A. Stefanik, T. Garstka, H. Paul	M. Solecka, P. Petrzak, I. Mania, H. Paul	2023, 23, 39, 10.1007/s43452-022-00577-4
16.	Archives of Civil and Mechanical Engineering	Microstructure, mechanical and thermal properties of YSZ thermal barrier coatings deposited by axial suspension plasma spraying	O. Poliarus, J. Morgiel, W. Żórawski, A. Góral, M. Pomorska, K. T. Wojciechowski, O.Cherniushok	J. Morgiel, A. Góral, M. Pomorska	2023, 23, 89, 10.1007/s43452-023-00616-8
17.	Archives of Metallurgy and Materials	Crystal lattice rotations induced by shear banding in fcc metals deformed at high strain rates	I. Mania, H. Paul, R.Chulist, P.Petrzak, M.Miszczyk, M. Prażmowski	I.Mania, H.Paul, R.Chulist, P.Petrzak, M.Miszczyk	2023, 68, 319-329, 10.24425/amm.2023.141508
18.	Archives of Metallurgy and Materials	Effect of Heat Treatment on Microstructure and Mechanical Properties of High-Carbon and High-Manganese Cast Steel Subjected to Bainitic Reaction	P. Garbień, A. Kokosza, W. Maj, Ł. Rogal, R. Chulist, K. Janus, A. Wójcik, Z. Żółkiewicz, W. Maziarz	P. Garbień, Ł. Rogal, R. Chulist, K. Janus, A. Wójcik, W. Maziarz	2023, 68, 1667- 1676, 10.24425/amm.2023.148335
19.	Archives of Metallurgy and Materials	Lorentz TEM and LM-STEM DPC Analysis of Magnetic Domains in Soft Ferromagnets	P. Czaja	P. Czaja	2023, 68, 3, 1121-1126, 10.24425/amm.2023.145483

20.	Archives of Metalurgy and Materials	Precise Orientation Control of Single Crystalline NiMnGa-Based Alloys by in-situ EBSD Analysis	A. Szewczyk, M. Faryna, A. Wójcik, W. Maziarz, R. Chulist	A. Szewczyk, M. Faryna, A. Wójcik, W. Maziarz, R. Chulist	2023, 68, 1171-1175, 10.24425/amm.2023.145490
21.	Archives of Metallurgy and Materials	Role of nitrogen during dry-air oxidation of TiAlNbCrSi alloy produced with Mould Casting and Electron Beam Melting	J. Morgiel, T. Dudziak, Ł. Maj, A. Kirchner, M. Pomorska, B. Klöden, T. Weißgärber, D. Tobała,	J. Morgiel, Ł. Maj, M. Pomorska	2023, 68, 1183-1189, 10.24425/amm.2023.145492
22.	Archives of Metallurgy and Materials	Structural Characterization and Properties of Al/Fe Multi-Layer Composites Produced by Hot Pressing	W. Kowalski, H. Paul, I. Mania, P. Petrzak, P. Czaja, R. Chulist, A. Góral, M. Szlezynger	W. Kowalski, H. Paul, I. Mania, P. Petrzak, P. Czaja, R. Chulist, A. Góral, M. Szlezynger	2023, 68, 137-144, 10.24425/amm.2023.141487
23.	Archives of Metallurgy and Materials	TEM, HREM, L-TEM Studies of Fe-Based Soft Magnetic Melt-Spun Ribbons Subjected to Ultra-Rapid Annealing Process	W. Maziarz, A. Kolano-Burian, M. Kowalczyk, P. Błyskun, R. Chulist, P. Czaja, M. Szlezynger, A. Wójcik	W. Maziarz, R. Chulist, P. Czaja, M. Szlezynger, A. Wójcik	2023, 68, 3, 1165-1170, 10.24425/amm.2023.145489
24.	Archives of Metalurgy and Materials	The Influence of $\gamma'$ Precipitates on the Structural Stability of FeNiCoAlTa and FeNiCoAlTaB Single Crystals After Cyclic Superelastic Deformation	A. Wójcik, R. Chulist, A. Szewczyk, J. Dutkiewicz, W. Maziarz	A. Wójcik, R. Chulist, A. Szewczyk, W. Maziarz	2023, 68, 1157-1164, 10.24425/amm.2023.145488
25.	Biomaterials Advances	Engineering the surface of Nbn+ 1CnTx MXenes to versatile bio-activity towards microorganisms	A. Wojciechowska, M. Jakubczak, D. Moszczyńska, A. Wójcik, K. Prenger, M. Naguib, A. M. Jastrzębska	A. Wójcik	2023, 153, 213581, 10.1016/j.bioadv.2023.213581
26.	Bulletin of the Polish Academy of Sciences Technical Sciences	Thermoplastic hardened Cu-Ni-Si-Ag alloy	B. Krupińska, R. Chulist, M. Kondracki, K. Labisz	R. Chulist	2023, 71, e145683, 10.24425/bpasts.2023.145683
27.	Colloids and Surfaces B: Biointerfaces	Elastic moduli of Polyelectrolyte Multilayer Films regulate endothelium-blood interaction under dynamic conditions	G. Imbir, K. Trembecka-Wójciga, P. Ozga, R. Schirhagl, A. Mzyk	K. Trembecka-Wójciga, P. Ozga, A. Mzyk	2023, 225, 113269, 10.1016/j.colsurfb.2023.113269
28.	Computational Materials Science	Computational approach to the Ag-Ti system	W. Gierlotka, A. Dębski, W. Gąsior, M. Polański	A. Dębski, W. Gąsior	2023, 230, 112519, 10.1016/j.commatsci.2023.112519
29.	Crystals	Atomic-Level Description of Chemical, Topologica and Surface Morphology Aspects of Oxide Film Grown on Polycrystalline Aluminum during Thermal Oxidation-Reactive Molecular Dynamics Simulations	M. E. Trybuła, A. Żydek, P. A. Korzhavyi, J. Wojewoda-Budka	M. E. Trybuła, A. Żydek, J. Woojewoda-Budka	2023, 13, 1-22, 10.3390/cryst13091376
30.	Energy Technology	Effect of Mg Substitution on Structural Stabilization of NaxMnO2 Cathode for Na-Ion Batteries	G. K. Ważny, K. Walczak, J. Tobała, M. Rybski, W. Zając, P. Czaja, M. Wolczko, J. Plotek, J. Molenda	P. Czaja	2023, 2300139, 1-16, 10.1002/ente.202300139
31.	European Polymer Journal	Advanced 3D printing of graphene oxide nanocomposites: A new initiator system for improved dispersion and mechanical performance	K. Trembecka-Wójciga, M. Jankowska, W. Tomal, A. Jarzębska, Ł. Maj, T. Czeppe, P. Petrzak, A. Chachaj-Brekiesz, J. Ortyl	K. Trembecka-Wójciga, A. Jarzębska, Ł. Maj, T. Czeppe, P. Petrzak	2023, 198, 112403, 10.1016/j.eurpolymj.2023.112403
32.	Intermetallics	Viscosity of the supercooled liquid and crystallization kinetic analysis in the Fe74B20Nb2Hf2Si2 amorphous alloy	P. Rezaei-Shahreza, S. Hasani, A. Seifoddini, M. Nabiatek, P. Czaja, A. Śliwa	P. Czaja	2023, 161, 107971, 10.1016/j.intermet.2023.107971

33.	International Journal of Molecular Sciences	Influence of the Type of Nanofillers on the Properties of Composites Used in Dentistry and 3D Printing	M. Noworyta, M. Topa-Skwarczyńska, P. Jamróz, D. Oksiuta, M. Tyszka-Czochara, K. Trembecka-Wójciga, J. Ortyl	K. Trembecka-Wójciga	2023, 24, 10549, 10.3390/ijms241310549
34.	International Journal of Pressure Vessels and Piping	Degradation of microstructure and strength properties of heat-resistant steels operating under variable loads	M. Jakubowska A. Wróbel, W. Manaj, A. Sypień	A. Sypień	2023, 202, 104916, 10.1016/j.ijpvp.2023.104916
35.	International Journal of Pressure Vessels and Piping	Microstructure and phase composition of transition zone between low alloyed steel boiler tube and an austenitic stainless steel weld overlay produced by cold metal transfer method	M. Rozmus-Górnikowska, J. Kusiński, G. Cempura, J. Morgiel	J. Morgiel	2023, 203, 104951, 10.1016/j.ijpvp.2023.104951
36.	Journal of Alloys and Compounds	Mechanical synthesis of Mg6Pd1-xAgx alloys and their hydrogen absorption capability	A. Dębski, S. Terlicka, M. Peška, A. Bigos, W. Gąsior, W. Gierlotka, M. Polański	A. Dębski, S. Terlicka, A. Bigos, W. Gąsior	2023, 957, 170396, 10.1016/j.jallcom.2023.170396
37.	Journal of Alloys and Compounds	Multiwalled carbon nanotubes as an additive to Mg-Mg2Si in situ composite obtained by powder sintering	A. Olszówka-Myalska, P. Wrześniowski, H. Myalska-Głowacka, W. Maziarz, M. Godzierz	W. Maziarz	2023, 391, 167548, 10.1016/j.jallcom.2022.167548
38.	Journal of Alloys and Compounds	The influence of water vapour on high-temperature oxidation of Al, Co, Cr, Ni-containing high entropy alloys under thermal shock conditions	R. Gawel, Ł. Rogal, G. Smoła, C. Zhou, Z. Grzesik	Ł. Rogal	2023, 952,170054, 170054, 10.1016/j.jallcom.2023.170054
39.	Journal of Functional Biomaterials	Exploring CVD Method for Synthesizing Carbon-Carbon Composites as Materials to Contact with Nerve Tissue	A. Fraczek-Szczypta, N. Kondracka, M. Zambrzycki, M. Gubernat, P. Czaja, M. Pawlyta, P. Jeleń, R. Wielowski, D. Jantas	P. Czaja	2023, 14, 443, 10.3390/jfb14090443
40.	Journal of Magnetism and Magnetic Materials	A novel approach for extracting magnetic properties of double-shell nanotubes of Prussian blue and its Cr analog with the use of a mathematical hysteresis decomposition	W. Sas, P. Czaja, M. Fitta	P. Czaja	2023, 577, 170805, 10.1016/j.jmmm.2023.170805
41.	Journal of Materials Chemistry A	Understanding the electrochemical reaction mechanism to achieve excellent performance of the conversion-alloying Zn2SnO4 anode for Li-ion batteries	M. Możdzierz, Z. Feng, A. Brzoza-Kos, P. Czaja, B. Fua, K. Świerczek	P. Czaja	2023, 38, 10.1039/d3ta02549g
42.	Journal of Materials Engineering and Performance	Microstructural and Mechanical Characterization of Interfacial Phenomena Occurring in Brazing Ti-6Al-4V Alloy Using TiZrCuPd Amorphous Ribbons	A. Sypień	A. Sypień	2023, 32, 5731-5740, 10.1007/s11665-023-08181-0
43.	Journal of Materials Engineering and Performance	Morphology and Corrosion Resistance of Hydroxyapatite Coatings Formed on Commercially Pure Titanium	O.V. Tkachuk,, I.M. Pohrelyuk, R.V. Proskurnyak, J. Morgiel, M. Faryna, A. Góral	J. Morgiel, A. Góral	2023, 32, 11040-11049, 10.1007/s11665-023-07910-9
44.	Journal of Materials Engineering and Performance	New Solder Based on the Sn-Zn Eutectic with Addition of Ag, Al, and Li	A. Dybeł, J. Pstruś	A. Dybeł, J. Pstruś	2023, 32, 5710-5722, 10.1007/s11665-023-08103-0

45.	<b>Journal of Materials Engineering and Performance</b>	Phase Evolution at the Interface between Liquid Solder Sn-Zn-Ag and Cu Substrate Studied by In Situ Heating Scanning Transmission Electron Microscopy	P. Czaja, A. Dybeł, J. Pstruś	P. Czaja, A. Dybeł, J. Pstruś	2023, 32, 5749–5755, 10.1007/s11665-023-08284-8
46.	<b>Journal of Materials Engineering and Performance</b>	Selected Papers from the Tenth International Conference on High Temperature Capillarity (HTC2022)	N. Sobczak	N. Sobczak	2023, 32, 5679, 10.1007/s11665-023-08262-0
47.	<b>Journal of Materials Engineering and Performance</b>	The Interfacial Phenomena Between Graphene on Cu Substrate Covered by Ni, Cu, or W Layer, with Liquid Ga-Sn-Zn Alloy	T. Gancarz, P. Ozga, J. Pstruś, Z. Świątek, P. Czaja, A. Dybeł, K. Berent	T. Gancarz, P. Ozga, J. Pstruś, Z. Świątek, P. Czaja, A. Dybeł	2023, 32, 5703–5709, 10.1007/s11665-023-08022-0
48.	<b>Journal of Materials Engineering and Performance</b>	Wettability and reactivity of liquid magnesium with a pure silver substrate	S. Terlicka, N. Sobczak, P. Darlak, J. Sobczak, E. Ziółkowski	S. Terlicka, N. Sobczak	2023, 32, 5689–5696, 10.1007/s11665-023-07950-1
49.	<b>Journal of Materials Engineering and Performance</b>	Wetting and Interfacial Chemistry of New Pb-Free Sn-Zn-Ag-Al-Li (SZAAL) Solder with Cu, Ni, and Al Substrates	A. Dybeł, P. Czaja, J. Sitek, J. Pstruś	A. Dybeł, P. Czaja, J. Pstruś	2023,32, 5723–5730, 10.1007/s11665-023-08155-2
50.	<b>Journal of Materials Research</b>	Thermodynamic modeling of the Sb – Te system supported by DSC measurement and ab initio calculations	C.-Y. Liu, Y.-Y. Liu, S.-H. Chen, S.-W. Chen, A. Dębski, W. Gąsior, W. Gierlotka	A. Dębski, W. Gąsior	2023, 38, 4287–4302, 10.1557/s43578-023-01140-4
51.	<b>Journal of Materials Research and Technology</b>	Influence of a rich sulphur atmosphere on the phase development and kinetics behaviour differentially processed RNT650 g-TiAl alloys	T. Dudziak, E. Rząd, J. Morgiel, A. Kirchner, T. Polczyk, G. Moskal, B. Kloden, T. Weißgarber, D. Toboła, M. Wójcicki	J. Morgiel	2023, 23, 1753 - 1760, 10.1016/j.jmrt.2023.01.120
52.	<b>Journal of Materials Science</b>	Microstructural characterization of rapidly solidified Al-13.5 at.% Cr and Al-13.5 at.% V alloys for catalytic applications	A. Zięba, K. Stan-Głowińska, Ł. Rogal, P. Czaja, J. Przewoźnik, R. Chulist, D. Duraczyńska, L. Lityńska-Dobrzyńska	A. Zięba, K. Stan-Głowińska, Ł. Rogal, P. Czaja, R. Chulist, L. Lityńska-Dobrzyńska	2023, 58, 13422–13436, 10.1007/s10853-023-08842-4
53.	<b>Journal of Materials Science</b>	Effect of cooling rate during solidification on structure and mechanical properties of Cu <sub>45</sub> Zr <sub>48</sub> Al <sub>7</sub> glass-forming alloy	T. Kozieł, G. Cios, B. Rutkowski, A. Wierzbicka-Miernik, K. Pajor, P. Bała	A. Wierzbicka-Miernik	2023, 58, 16225–16238, 10.1007/s10853-023-09024-y
54.	<b>Journal of Microscopy</b>	Wear mechanisms description in nanoscale by SEM/TEM of multilayer Zr/ZrN coatings in dependence on phases ratio	Ł. Major, J. M. Lackner, M. Kot, R. Major, M. Dynier, B. Major	Ł. Major, R. Major, B. Major	2023, 289, 3-19, 10.1111/jmi.13144
55.	<b>Journal of Mining and Metallurgy, Section B: Metallurgy</b>	The magnesium-palladium-silver system: thermodynamic properties of the liquid phase	A. Dębski, W. Gąsior, W. Gierlotka, A. Baran, M. Polański	A. Dębski, W. Gąsior	2023, 59, 2, 183–193, 10.2298/JMMB230222016D
56.	<b>Journal of Mining and Metallurgy, Section B: Metallurgy</b>	Thermodynamic measurements and ab initio calculations of the indium-lithium system	A. Dębski, W. Gierlotka, M. Zabrocki, A. Góral, W. Gąsior	A. Dębski, M. Zabrocki, A. Góral, W. Gąsior	2023, 59, 3, 407-420, 10.2298/JMMB230706035D
57.	<b>Journal of Molecular Liquids</b>	Calorimetric studies and thermodynamic modelling of liquid Mg-Pb-Pd alloys	A. Dębski, W. Gąsior, W. Gierlotka, M. Polański	A. Dębski, W. Gąsior	2023, 371, 121123 10.1016/j.molliq.2022.121123
58.	<b>Journal of Molecular Liquids</b>	High-temperature interactions of liquid magnesium with a pure copper substrate	S. Terlicka, N. Sobczak, Ł. Maj, P. Darlak, J.J. Sobczak	S. Terlicka, N. Sobczak, Ł. Maj	2023, 387, 122730, 10.1016/j.molliq.2023.122730
59.	<b>Journal of Molecular Liquids</b>	The thermophysical properties of Ga-Pb liquid alloys	T. Gancarz	T. Gancarz	2023, 390, 122979, 10.1016/j.molliq.2023.122979

60.	Journal of Physical Chemistry C	Structure and Behavior of Oxide-Coated Aluminum in Contact with Acidic and Alkaline Aqueous Solutions—A Reactive Molecular Dynamics Simulation Study	M. E. Trybula, A. Żydek, P. A. Korzhavyi, J. Wojewoda-Budka	M. E. Trybula, J. Wojewoda-Budka	2023, 127, 2493-2507, 10.1021/acs.jpcc.2c06617
61.	Journal of Physics: Conference Series	The influence of deformation texture on nucleation and growth of cube grains in aluminium	H. Paul, M. M. Miszczyk, S. Puchlerska, I. Mania	H. Paul, M. M. Miszczyk, I. Mania	2023, 2635, 1-7, 10.1088/1742-6596/2635/1/012007
62.	Journal of Thermal Spray Technology	The Mechanical and Tribological Properties of Cold-Sprayed Cermet Coatings—Al Alloy Substrate Systems	A. Trelka, A. Góral, W. Żórawski, T. Gancarz, P. Petrzak	A. Trelka, A. Góral, T. Gancarz, P. Petrzak	2023, 32, 6, 1714-1724, 10.1007/s11666-023-01590-6
63.	Metals	Grain boundary wetting by the second solid phase. 20 years of history	B. Straumal, T. Lepkova, A. Korneva, G. Gerstein, O. Kogtenkova, A. Gornakova	A. Korneva	2023, 13, 929, 10.3390/met13050929
64.	Materials	Influence of Nb and Mo Substitution on the Structure and Magnetic Properties of a Rapidly Quenched Fe79.4Co5Cu0.6B15 Alloy	L. Hawelek, P. Zackiewicz, A. Wójcik, J. Hudecki, T. Warski	A. Wójcik	2023, 16, 6288, 10.3390/ma16186288
65.	Materials	Effect of High-Pressure Torsion on Phase Formation and Mechanical Properties of High-Entropy TiZrHfMoCrCo Alloy	A. Gornakova, D. Kabirova, A. Korneva, B. Straumal, M. Imayev, A. Kuzmin, P. Czaja, N. Afonikova, V. Orlov, A. Nekrasov, N. Khayretdinov, G. Davdian	A. Korneva	2023, 16, 7558, 10.3390/ma16247558
66.	Materials	Influence of Manganese Content on Martensitic Transformation of Cu-Al-Mn-Ag Alloy	L. Liverić, T. Holjevac Grgurić, V. Mandić, R. Chulist	R. Chulist	2023, 16, 5782, 10.3390/ma16175782
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	100.	Polymer Chemistry	Novel multi-material photo-curable resins containing high-performance photoinitiating systems and nano additives dedicated to 3D-VAT printing	M. Jankowska, A. Chachaj-Brekiesz, K. Trembecka-Wójciga, A. Jarzębska, M. Topa-Skwarczyńska, M. Pilch, J. Ortyl	K. Trembecka-Wójciga, A. Jarzębska	2023, 14, 2088-2106, 10.1039/D2PY01583H
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		Tytuł monografii	Tytuł rozdziału	Autor	Autor IMIM	ISBN, rok wydania, wydawca, ilość str. lub str. od-do (przy rozdziale)
<b>C. Monografie</b>						

1.	Krystalograficzne aspekty formowania się pasm ścinania w metalach odkształcanych w zakresie dużych i ekstremalnie dużych prędkości odkształcenia.		I. Mania	I. Mania	978-83-60768-70-9, 2023, IMIM PAN, 125
2.	Matematyczna metoda przewidywania udziału struktur kolumnowych i równoosiowych we wlewkach miedzi i jej stopów		P. Kwapiński	P. Kwapiński	978-83-60768-68-6, 2023, IMIM PAN, 106
3.	Odwrotne bliźniakowanie odkształceniowe w materiałach metalicznych średnio- oraz wysoko-entropowych		S. Sumara	S. Sumara	978-83-60768-72-3, 2023, IMIM PAN, 111
4.	Proceedings of 12-th European School for Young Materials Scientists 7-10 November, 2023 Brno- Czech Republic		red.M. Bieda	red.M. Bieda	978-83-60768-71-6, 2023, IMIM PAN, 136
5.	Właściwości termodynamiczne ciekłych stopów Ga-Sn-Zn oraz Ga-In-Zn		S. Kulawik	S. Kulawik	978-83-60768-73-0, 2023, IMIM PAN, 120

#### D. Rozdziały w monografii

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3.	Proceedings of 12-th European School for Young Materials Scientists 7-10 November, 2023 Brno- Czech Republic	The influence process parameters on the properties of functional conversion coatings produced on biodegradable magnesium alloys after hydrostatic extrusion	M. Karaś, S. Boczek, Ł. Maj, J. Skiba, M. Bieda	Ł. Maj, M. Bieda	ISBN 978-83-60768-71-6 2023, IMIM PAN, 11-16
4.	Proceedings of 12-th European School for Young Materials Scientists 7-10 November, 2023 Brno- Czech Republic	Biomechanical and preclinical studies of materials dedicated to finger reconstruction after amputation	A. Byrski, J.M. Lackner, D.B. Lumenta, M. Surmiak, M. Dyrer, Ł. Major, P. Kurtyka, K. Szawiraacz, K. Kasperkiewicz, R. Major	A. Byrski, Ł. Major, K. Szawiraacz, R. Major	ISBN 978-83-60768-71-6 2023, IMIM PAN, 17-23
5.	Proceedings of 12-th European School for Young Materials Scientists 7-10 November, 2023 Brno- Czech Republic	Bioactive ceramic-metal materials dedicated to mandibular defect reconstruction made by glueless 3D printing method	K. Szawiraacz, R. Filipek, D.K. ata, R. Major	K. Szawiraacz, R. Major	ISBN 978-83-60768-71-6 2023, IMIM PAN, 24-26
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9.	Proceedings of 12-th European School for Young Materials Scientists 7-10 November, 2023 Brno- Czech Republic	Contact Angle evolution using Quickhull algorithm in MD simulation of liquid Ag droplet/graphene-coated copper	A. Dybeł, P. Dybeł, J. Pstruś, M.E. Trybula	Marcela E. Trybula, J. Pstruś	978-83-60768-71-6, 2023, IMIM PAN, 33-36
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11.	Proceedings of 12-th European School for Young Materials Scientists 7-10 November, 2023 Brno- Czech Republic	Microstructure and mechanical behavior of high magnesium Al-Mg alloys subjected to forging at room temperature	K. Limanówka, A. Góral, S. Boczkal, M. Węgrzyn, P. Korczak	A. Góral	ISBN 978-83-60768-71-6, 2023, IMIM PAN, 43-46
12.	Proceedings of 12-th European School for Young Materials Scientists 7-10 November, 2023 Brno- Czech Republic	High-melting metal materials manufactured with the use of LPBF method	A. Czech, A. Wrona, M. Lid, J. Mazur, Ł. Major, A. Kukofks	Ł. Major	ISBN 978-83-60768-71-6, 2023, IMIM PAN, 47-48
13.	Proceedings of 12-th European School for Young Materials Scientists 7-10 November, 2023 Brno- Czech Republic	Influence of mechanical alloying conditions under nitrogen overpressure on synthesis of nitrogen-based compounds.	J. Kasprzycki, A. Sypień, A.Góral, Ł. Rogal	J. Kasprzycki, A.Sypień, A.Góral, Ł. Rogal	ISBN 978-83-60768-71-6, 2023, IMIM PAN, 49-51
14.	Proceedings of 12-th European School for Young Materials Scientists 7-10 November, 2023 Brno- Czech Republic	Magneto-mechanical properties of Hauser N-Mn-Ga-based melt-spun ribbons	M. Kowalska, P. Czaja, Ł. Rogal, M.J. Szczerba	M. Kowalska, P. Czaja, Ł. Rogal, M.J. Szczerba	ISBN 978-83-60768-71-6, 2023, IMIM PAN, 52-57
15.	Proceedings of 12-th European School for Young Materials Scientists 7-10 November, 2023 Brno- Czech Republic	Crystal structure change in NiMnGa based alloys depending on the form of occurrence	A. Szewczyk, A. Wójcik, W. Maziarz, N. Schell, R. Chulist	A. Szewczyk, A. Wójcik, W. Maziarz, R. Chulist	ISBN 978-83-60768-71-6, 2023, IMIM PAN, 58-62
16.	Proceedings of 12-th European School for Young Materials Scientists 7-10 November, 2023 Brno- Czech Republic	Influence of Creep Damage on the Fatigue Life of 14MoV6-3 Steel	M. Jakubowska, M.Lucki, G.Cios, A. Sypień	A. Sypień	ISBN 978-83-60768-71-6, 2023, IMIM PAN, 63-70
17.	Proceedings of 12-th European School for Young Materials Scientists 7-10 November, 2023 Brno- Czech Republic	Nanocomposite hard anodic oxide coatings on 5754 aluminium alloy produced by direct method	A. Kozik, M. Nowak, A. Góral	A. Góral	ISBN 978-83-60768-71-6, 2023, IMIM PAN, 71-75
18.	Proceedings of 12-th European School for Young Materials Scientists 7-10 November, 2023 Brno- Czech Republic	Effect of dry ICP-RIE etching on dielectrics deposited by PECVD and ICP CVD at different temperatures	M. Różycka, A. Jasik, P. Kozłowski, K. Chmielewski, K. Bracha, J. Ratajczak, K. Czuba, A. Wierzbicka-miernik	A. Wierzbicka-Miernik	ISBN 978-83-60768-71-6, 2023, IMIM PAN, 95-100
19.	Innovations in Biomedical Engineering	Novel Hemocompatible Thiol-yne Based Photopolymers Obtained by the Advanced Stereolithography (SLA) Processing with Strongly Improved Surface Smoothness by a Novel Exposition Approach for Anti-aliasing	R. Major, M. Surmiak, M. Gawlikowski, R. Schwartz, M. Kot, J. Więcek, J. M. Lackner	R. Major, J. Więcek	ISBN 978-3-030-99114-2, 2023, Springer, 10.1007/978-3-030-99112-8, 199-215