

Wykaz publikacji naukowych Instytutu Metalurgii i Inżynierii Materiałowej PAN za 2022 r.

Wg. WYKAZU czasopism naukowych i recenzowanych materiałów z konferencji międzynarodowych  
(Załącznik do komunikatu Ministra Nauki i Szkolnictwa Wyższego z dnia 9 lutego 2021 roku)

		Tytuł czasopisma	Tytuł publikacji	Autor	Autor IMIM	Rok, tom, str. (od-do), nr DOI
	<b>A. Publikacje w czasopismach</b>					
1.	<b>1. Publikacje w czasopismach zamieszczonych w wykazie czasopism</b>	Accounts of Chemical Research	Relaxometry with nitrogen vacancy (NV) centers in diamond.	A. Mzyk, A. Sigaeva, R. Schirhagl	A. Mzyk	2022, 55, 3572–3580, <a href="https://doi.org/10.1021/acs.accounts.2c00520">https://doi.org/10.1021/acs.accounts.2c00520</a>
2.		ACS Applied Materials & Interfaces	Functionalized Fluorescent Nano Diamonds for simultaneous drug delivery and quantum-sensing in HeLa cells	Y.Tian, C.A. Nusantera, T. Hamoh, A. Mzyk, Z. Tian, F. Perona Martínez, Li, S. Permentier, Hjalmar, R. Schirhagl	A. Mzyk	2022, 14, 34, 39265–39273, <a href="https://pubs.acs.org/doi/full/10.1021/acsmi.2c11688">https://pubs.acs.org/doi/full/10.1021/acsmi.2c11688</a>
3.		ACS Applied Nano Materials	Nanometric Al <sub>2</sub> O <sub>3</sub> Layers Obtained from Liquid Metals: Implications for Sensing Devices	A. Dobosz, A. Wójcik, M. Marzec, P. Ozga, T. Gancarz	A. Wójcik, P. Ozga, T. Gancarz	2022, 1, 430-437, <a href="https://pubs.acs.org/doi/10.1021/acsnanm.1c03271">https://pubs.acs.org/doi/10.1021/acsnanm.1c03271</a>
4.		ACS Nano	Nanoscale MRI for selective labelling and localised free radical measurements in the acrosomes of single sperm cells	C. Reyes-San-Martin, T. Hamoh, Y. Zhang, L. Berendse, C. Klijn, R. Li, A. Sigaeva, J. Kawalko, A. Mzyk, R. Schirhagl	A. Mzyk	2022, 16, 7, 10701-10710, <a href="https://doi.org/10.1021/acsnano.2c02511">https://doi.org/10.1021/acsnano.2c02511</a>
5.		ACS Omega	Polymerization of L-Tyrosine, L-Phenylalanine, and 2-Phenylethylamine as a Versatile Method of Surface Modification for Implantable Medical Devices	K. Kopec, A. Ryzko, R. Major, H. Plutecka, J. Wigeczek, G. Pikus, J. W. Trzcinski, A. Kalinowska, T. Ciach	R. Major	2022, 7, 43, 39234–39249, <a href="https://doi.org/10.1021/acsomega.2c05289">https://doi.org/10.1021/acsomega.2c05289</a>
6.		ACS Sensors	Following polymer degradation with nanodiamond magnetometry	R. Li, T. Vedelaar, A. Mzyk, A. Morita, S. Padamati, R. Schirhagl	A. Mzyk	2022, 7, 1, 123–130, <a href="https://doi.org/10.1021/acssensors.1c01782">https://doi.org/10.1021/acssensors.1c01782</a>
7.		ACS Sensors	Intracellular quantum sensing of free radical generation induced by acetaminophen (APAP) in the cytosol, in mitochondria and the nucleus of macrophages	R. Sharmin, A. C. Nusantera, L. Nie, K. Wu, A. Llumbet, W. Woudstra, A. Mzyk, R. Schirhagl	A. Mzyk	2022, 7, 3326–3334, <a href="https://doi.org/10.1021/acssensors.2c01272">https://doi.org/10.1021/acssensors.2c01272</a>
8.		Acta of Bioengineering and Biomechanics	Discrete phase model of blood flow in a roughness microchannel simulating the formation of pseudointima	M. Kopernik, K. Dyrda, P. Kurtyka, R. Major	P. Kurtyka, R. Major	2022, 24, 1, <a href="https://doi.org/10.37190/ABB-01989-2021-02">https://doi.org/10.37190/ABB-01989-2021-02</a>
9.		Acta Crystallographica A	On the determination of dense coincidence site lattice planes	A. Morawiec	A. Morawiec	2022, 78, 491-497, <a href="https://doi.org/10.1107/S2053273322008828">https://doi.org/10.1107/S2053273322008828</a>
10.		Acta Materialia	Low temperature deformation mechanisms of CoZr and Co <sub>39</sub> Ni <sub>11</sub> Zr <sub>50</sub> B <sub>2</sub> -type intermetallic compounds	R. Schaarschuch, C.G Oertel, A. Pukenas, S. Zhou, G. Cao, J. Freudenberger, W. Gan, E. Maawad, R. Chulist, W. Skrotzki	R. Chulist	2022, 223, 117489, <a href="https://doi.org/10.1016/j.actamat.2021.117489">https://doi.org/10.1016/j.actamat.2021.117489</a>
11.		Acta Physica Polonica Series A	Evolution of Microstructure and Magnetic Domains in Fe <sub>74</sub> B <sub>20</sub> Nb <sub>2</sub> Hf <sub>2</sub> Si <sub>2</sub> Soft Magnetic Alloy Studied by In-Situ Ultra-Rapid Heating TEM and Lorentz TEM Microscopy	P. Czaja, M. Nabiałek	P. Czaja	2022, 142, 17-20, <a href="https://doi.org/10.12693/APhysPolA.142.17">https://doi.org/10.12693/APhysPolA.142.17</a>
12.		Acta Physica Polonica Series A	Magnetic State of Martensite in Ni <sub>48</sub> Mn <sub>39.5</sub> Sn <sub>12.5</sub> -xAlx (x = 0, 1, 2, 3) Metamagnetic Shape Memory Alloy Ribbons	P. Czaja	P. Czaja	2022, 142, 180-183, <a href="https://doi.org/10.12693/APhysPolA.142.180">https://doi.org/10.12693/APhysPolA.142.180</a>
13.		Analytical Chemistry	Diamond Color Centers in Diamonds for Chemical and Biochemical Analysis and Visualization	A. Mzyk, Y. Ong, A. R. Ortiz Moreno, S. K. Padamat, Y. Zhang, C. A. Reyes-San-Martin, R. Schirhagl	A. Mzyk	2022, 94, 1, 225–249, <a href="https://doi.org/10.1021/acs.analchem.1c04536">https://doi.org/10.1021/acs.analchem.1c04536</a>
14.		APL Materials	Sodium and Potassium ion rich ferroelectric solid electrolytes for traditional and electrode-less structural batteries	F. Danzi, M. Valente, S. Terlicka, M. H. Braga	S.Terlicka	2022, 10, 31111, <a href="https://doi.org/10.1063/5.0080054">https://doi.org/10.1063/5.0080054</a>
15.		Applied Optics	Optical and structural properties of gradient (Ti,Co)Ox thin film coatings with a resistive switching effect	D. Wojcieszak, J. Domaradzki, P. Pokora, M. Sikora, M. Mazur, P. Chodasiewicz, J. Morgiel, D. Gibson	J. Morgiel	2022, 61,34, 10283 - 10289, <a href="https://doi.org/10.1364/AO.476918">https://doi.org/10.1364/AO.476918</a>
16.		Applied Surface Science	Surface roughening of Ti-6Al-7Nb alloy plasma nitrided at cathode potential	J. Morgiel, Ł. Maj, K. Szymkiewicz, M. Pomorska, P. Ozga, D. Tobała, M. Tarnowski, T. Wierzczoń	J. Morgiel, Ł. Maj, K. Szymkiewicz, M. Pomorska, P. Ozga	2022, 574, 151639, <a href="https://doi.org/10.1016/j.apsusc.2021.151639">https://doi.org/10.1016/j.apsusc.2021.151639</a>

17.	<b>Applied Surface Science</b>	Effect of tribo-layer developed during turning of Ti-6Al-4V ELI alloy on its low-temperature gas nitriding	D. Toboła, J. Morgiel, Ł. Maj, M. Pomorska, M. Wytrwał-Sarna	J. Morgiel, Ł. Maj, M. Pomorska	2022, 602, 154327, <a href="https://doi.org/10.1016/j.apsusc.2022.154327">https://doi.org/10.1016/j.apsusc.2022.154327</a>
18.	<b>Applied Surface Science</b>	Nano-columnar, self organized NiCrC/a-C:H thin films deposited by magnetron sputtering	T. Suszko, W. Gulbiński, K. Załęski, G. Gruczunski, J. Morgiel, V. Lapitskaya	J. Morgiel	2022, 591, 152134, <a href="https://doi.org/10.1016/j.apsusc.2022.153134">https://doi.org/10.1016/j.apsusc.2022.153134</a>
19.	<b>Archives of Civil and Mechanical Engineering</b>	Effect of the number of passes on grain refinement, texture and properties of DC01 steel strip processed by the novel hybrid SPD method	K. Kowalczyk, M.B. Jabłońska, M. Tkocz, R. Chulist, I. Bednarczyk, T. Rzychoń	R. Chulist	2022, 22, 115, <a href="https://doi.org/10.1007/s43452-022-00432-6">https://doi.org/10.1007/s43452-022-00432-6</a>
20.	<b>Archives of Civil and Mechanical Engineering</b>	Microstructure and antibacterial properties of a ZnO coating on a biomaterial surface	M. Basiaga, Z. Paszenda, J. Lisoń, A. Taratuta, A. Kazek-Kęsik, M. Krok-Borkowicz, P. Nuckowski, M. Szindler, M. Staszuk, Ł. Major, R. Major, K. Čech Barabaszová, M. Dyrer	R. Major, Ł. Major	2022, 22, 93, <a href="https://doi.org/10.1007/s43452-022-00414-8">https://doi.org/10.1007/s43452-022-00414-8</a>
21.	<b>Archives of Metallurgy and Materials</b>	Influence of high-temperature oxidizing conditions on AlCoCrCuNi High entropy alloys with and without silicon addition	R. Gawel, Ł. Rogal, K. Przybylski, K. Matsuda	Ł. Rogal	2022, 67, 471-478, <a href="https://doi.org/10.24425/amm.2022.137779">https://doi.org/10.24425/amm.2022.137779</a>
22.	<b>Archives of Metallurgy and Materials</b>	Stem/TEM investigation of degradation of bi-layer (Cr,Al)N/Cr <sub>2</sub> N <sub>3</sub> duplex coatings exposed to AlSi alloy high pressure die casting cycles	A. Wilczek, J. Morgiel, A. Sypień, M. Pomorska, Ł. Rogal	J. Morgiel, A. Sypień, M. Pomorska, Ł. Rogal	2022, 67, 1341-1348, <a href="https://doi.org/10.24425/amm.2022.141060">https://doi.org/10.24425/amm.2022.141060</a>
23.	<b>Biomaterials Science</b>	Dynamic in vitro hemocompatibility of oligopropylene self-assembled monolayer surfaces	A. Mzyk, G. Imbir, Y. Noguchi, M. Sanak, R. Major, J. Więcek, P. Kurtyka, H. Plutecka, K. Trembecka-Wójciga, Y. Iwasaki, M. Uedac, S. Kakinoki	A. Mzyk, K. Trembecka-Wójciga, R. Major, J. Więcek	2022, 10, 5498-5503, <a href="https://doi.org/10.1039/d2bm00885h">https://doi.org/10.1039/d2bm00885h</a>
24.	<b>Ceramics -Switzerland</b>	Microstructure, Thermal and Mechanical Properties of Refractory Linings Modified with Polymer Fibers	M. Prochwicz, P. Czaja, J. Morgiel, T. Czeppe, A. Góral	P. Czaja, J. Morgiel, T. Czeppe, A. Góral	2022, 5, 173-181, <a href="https://doi.org/10.3390/ceramics5020015">https://doi.org/10.3390/ceramics5020015</a>
25.	<b>Coatings</b>	High Entropy Alloys Coatings Deposited by Laser Cladding: A Review of Grain Boundary Wetting Phenomena	B.B. Straumal, L. Klinger, A. Kuzmin, G. Lopez, A. Korneva, A.B. Straumal, N. Vershinin, A. Gornakova	A. Korneva	2022, 12, 343, <a href="https://doi.org/10.3390/coatings12030343">https://doi.org/10.3390/coatings12030343</a>
26.	<b>Coatings</b>	Investigations of TiO <sub>2</sub> /NanoTiO <sub>2</sub> Bimodal Coatings Obtained by a Hybrid PVD/ALD Method on Al-Si-Cu Alloy Substrate	M. Staszuk, Ł. Reiman, D. Pakula, M. Pawlyta, M. Musztyfaga-Staszuk, P. Czaja, P. Benes	P. Czaja	2022, 12, 3, 338, <a href="https://doi.org/10.3390/coatings12030338">https://doi.org/10.3390/coatings12030338</a>
27.	<b>Colloids and Surfaces B: Biointerfaces</b>	Antimicrobial materials with improved efficacy dedicated to large craniofacial bone defects after tumor resection	R. Major, M. Surmiak, K. Kasperkiewicz, R. Kaindl, A. Byrski, Ł. Major, G. Russmueller, D. Moser, M. Kopernik, J. M. Lackner	R. Major, A. Byrski, Ł. Major	2022, 220, 112943 <a href="https://doi.org/10.1016/j.colsurfb.2022.112943">https://doi.org/10.1016/j.colsurfb.2022.112943</a>
28.	<b>Corrosion Science</b>	Behaviour of Al, Co, Cr, Ni-based high entropy alloys under high-temperature thermal shock oxidising conditions	R. Gawel, Ł. Rogal, Z. Grzesik	Ł. Rogal	2022, 4, 15, 198, 110-116, <a href="https://doi.org/10.1016/j.corsci.2022.110116">https://doi.org/10.1016/j.corsci.2022.110116</a>
29.	<b>Electrochimica Acta</b>	Reactivity with tin and corrosion resistance of electroless Ni-P and Ni-P-Re coatings plated on copper	J. Wojewoda-Budka, A. Wierzbicka-Miernik, I. Kwiecień, F. Valenza, A. Korneva, M. Janusz-Skuzka, K. Stan-Głowinska, J.Gospel, M. Bugajska,	J. Wojewoda-Budka, A. Wierzbicka-Miernik, I. Kwiecień, A. Korneva, M. Janusz-Skuzka, K. Stan-Głowinska, J.Gospel, M. Bugajska	2022, 406, 139850, <a href="https://doi.org/10.1016/j.electacta.2022.139850">https://doi.org/10.1016/j.electacta.2022.139850</a>
30.	<b>Electrochimica Acta</b>	Electrochemical characterization of rapidly solidified Al-(Cr,Cu,Ni,Y,Zr)-Fe alloys	K. Młynarek-Żak, A. Wierzbicka-Miernik, M. Kądziołka-Gawel, T. Czeppe, A. Radoń, R. Babilas	A. Wierzbicka-Miernik, T. Czeppe	2022, 409, 139836, <a href="https://doi.org/10.1016/j.electacta.2022.139836">https://doi.org/10.1016/j.electacta.2022.139836</a>
31.	<b>Energies</b>	High Entropy Alloys for Energy Conversion and Storage: a Review of Grain Boundary Wetting Phenomena	B. Straumal, A. Korneva, A. Kuzmin, L. Klinger, G. Lopez, N. Vershinin, A. Straumal, A. Gornakova	A. Korneva	2022, 15, 7130, <a href="https://doi.org/10.3390/en15197130">https://doi.org/10.3390/en15197130</a>
32.	<b>Energies</b>	Laser Modified Glass for High-Performance Photovoltaic Module	O. Jeremiasz, P. Nowak, F. Szendera, P. Sobik, G. Kulesza-Matłak, P. Karasinski, W. Filipowski, K. Drabczyk	G. Kulesza-Matłak, K. Drabczyk	2022, 15, 18, 6742, <a href="https://doi.org/10.3390/en15186742">https://doi.org/10.3390/en15186742</a>
33.	<b>Frontiers in Energy Research</b>	High-entropy approach to double perovskite cathode materials for solid oxide fuel cells: Is multicomponent occupancy in (La,Pr,Nd,Sm,Gd)BaCo <sub>2</sub> O <sub>5+δ</sub> affecting physicochemical and electrocatalytic properties?	J. Dąbrowa, A. Stępień, M. Szymczak, M. Zajusz, P. Czaja, K. Świerczek	P. Czaja	2022, 10, <a href="https://doi.org/10.3389/fenrg.2022.899308">https://doi.org/10.3389/fenrg.2022.899308</a>
34.	<b>Intermetallics</b>	Scale mass gain, morphology and phase composition of air and steam oxidized electron beam melted and cast Ti-48Al-2Nb-0.7Cr-0.3Si alloys	T. Dudziak, E. Rząd, J. Morgiel, M. Wytrwał-Sarna, A. Kirchner, M. Pomorska, L. Boron, T. Polczyk, G. Moskal, D. Toboła, B. Kloden, T. Weissgarber	J. Morgiel, M. Pomorska	2022, 145, 107553, <a href="https://doi.org/10.1016/j.intermet.2022.107553">https://doi.org/10.1016/j.intermet.2022.107553</a>

35.	<b>International Journal of Applied Ceramic Technology</b>	Wettability and interfacial phenomena in the liquid-phase bonding of refractory diboride ceramics: Recent developments	R. Asthan, N. Sobczak, M. Singh	N. Sobczak	2022, 19, 2, 1029-1049, <a href="https://doi.org/10.1111/ijac.13972">https://doi.org/10.1111/ijac.13972</a>
36.	<b>International Journal of Engineering Science</b>	Windows Washing method of multiscale analysis of the in-situ nano-composites	N. Rylko, P. Kurtyka, O. Afanasieva, S. Gluzman, E. Olejnik, A. Wójcik, W. Maziarz	A. Wójcik, W. Maziarz	2022, 176, 103699, <a href="https://doi.org/10.1016/j.ijengsci.2022.103699">https://doi.org/10.1016/j.ijengsci.2022.103699</a>
37.	<b>International Journal of Fatigue</b>	Fatigue life and cyclic creep of tantalum/copper/steel layerwise plates under tension loading at room temperature	S. Derda, A. Karolczuk, M. Prazmowski, A. Kurek, M. Wachowski, H. Paul	H. Paul	2022, 162, 106977, 1-11, <a href="https://doi.org/10.1016/j.ijfatigue.2022.106977">https://doi.org/10.1016/j.ijfatigue.2022.106977</a>
38.	<b>International Journal of Molecular Science</b>	Comparison of Physicochemical, Mechanical, and (Micro-)Biological Properties of Sintered Scaffolds Based on Natural- and Synthetic Hydroxyapatite Supplemented with Selected Dopants	A. Hudecki, D. Lyko-Morawska, A. Kasprzycka, A. Kazeł-Kęsik, W. Likus, J. Hybiak, K. Jankowska, A. Kolano-Burian, P. Włodarczyk, W. Wolany, J. Markowski, W. Maziarz, I. Niedzielska, W. Pakieła, M. Nowak, M.J. Łoś	W. Maziarz	2022, 23, 4692, <a href="https://doi.org/10.3390/ijms23094692">https://doi.org/10.3390/ijms23094692</a>
39.	<b>International Journal of Molecular Sciences</b>	Influence of Heat Treatment of Electrospun Carbon Nanofibers on Biological Response	J. Markowski, M. Zambrzycki, W. Smolka, A. Panek, M. Gubernat, P. Czaja, M. Marzec, A. Frączek-Szczypta	P. Czaja	2022, 2, 11, 6278, <a href="https://doi.org/10.3390/ijms23116278">https://doi.org/10.3390/ijms23116278</a>
40.	<b>International Journal of Refractory Metals and Hard Materials</b>	Recovery and recrystallization in vanadium foil studied by positron annihilation and X-ray methods	J. Dyzek, M. Wróbel, T. Czeppe	T. Czeppe	2022, 103, 105759, <a href="http://doi.org/10.1016/j.ijrmhm.2021.105759">http://doi.org/10.1016/j.ijrmhm.2021.105759</a>
41.	<b>Journal of Alloys and Compounds</b>	Calorimetric studies and thermodynamic calculations of the Ag-Mg system	A. Dębski, W. Gierlotka, W. Gąsior	A. Dębski, W. Gąsior	2022, 891, 161937, <a href="https://doi.org/10.1016/j.jallcom.2021.161937">https://doi.org/10.1016/j.jallcom.2021.161937</a>
42.	<b>Journal of Alloys and Compounds</b>	Magnesium-based complex hydride mixtures synthesized from stainless steel and magnesium hydride with subambient temperature hydrogen absorption capability	M. Rzeszotarska, J. Dworecka-Wójcik, A. Dębski, T. Czujko, M. Polański	A. Dębski	2022, 901, 163489, <a href="https://doi.org/10.1016/j.jallcom.2021.163489">https://doi.org/10.1016/j.jallcom.2021.163489</a>
43.	<b>Journal of Alloys and Compounds</b>	Microstructure, catalytic activity, magnetic and electronic properties of Ni3Al, Ni3Ga and Ni3Sn melt spun intermetallics from experimental and DFT computational standpoints	P. Czaja, A. Boochani, J. Przewoźnik, M. Yeganeh, A. Zelati, A. Yari, M. Amiri, S. Naderi, M. Fitta, D. Duraczyńska, E.M. Serwicka, K. Stan-Głowińska, L. Lityńska-Dobrzyńska	P. Czaja, K. Stan-Głowińska, L. Lityńska-Dobrzyńska	2022, 927, 167076, <a href="https://doi.org/10.1016/j.jallcom.2022.167076">https://doi.org/10.1016/j.jallcom.2022.167076</a>
44.	<b>Journal of Alloys and Compounds</b>	Effects of pretwins on texture and microstructural evolutions of AZ31 magnesium alloy during high temperature deformation	S.M. Fatemi, A.A. Kazemi Asl, H. Paul	H. Paul	2022, 894, 162412, <a href="https://doi.org/10.1016/j.jallcom.2021.162412">https://doi.org/10.1016/j.jallcom.2021.162412</a>
45.	<b>Journal of Magnesium and Alloys</b>	Anisotropy in dynamic recrystallization behavior of AZ31 magnesium alloy	S.M. Fatemi, S. Kheyraabadi, H. Paul	H. Paul	2022, 10, 12, 3470-3484, <a href="https://doi.org/10.1016/j.jma.2021.08.027">https://doi.org/10.1016/j.jma.2021.08.027</a>
46.	<b>Journal of Materials Engineering and Performance</b>	Interface Zone Microstructure of the Explosively Cladded Copper on Steel	M. Janusz-Skuza, A. Bigos, M. Faryna, P. Czaja, S. Terlicka, G. Kwiatkowski, Z. Szulc, J. Wojewoda-Budka	M. Janusz-Skuza, A. Bigos, M. Faryna, P. Czaja, S. Terlicka, J. Wojewoda-Budka	2022, 31, 7104-7113, <a href="https://doi.org/10.1007/s11665-022-07078-8">https://doi.org/10.1007/s11665-022-07078-8</a>
47.	<b>Journal of Materials Engineering and Performance</b>	EUROMAT 2021 Symposia on Processing and Energy	N. Sobczak, I. Kaban, N. Enzinger, A. Zervaki, S. Agathopoulos, F. Valenza	N. Sobczak	2022, 31, 6952-6953, <a href="https://doi.org/10.1007/s11665-022-07130-7">https://doi.org/10.1007/s11665-022-07130-7</a>
48.	<b>Journal of Materials Engineering and Performance</b>	Interface Reaction between Tin Solder and Nanocrystalline Ni and Ni-Mo Coatings Obtained by Electrodeposition	A. Bigos, F. Valenza, P. Czaja, I. Kwiecien, J. Wojewoda-Budka	A. Bigos, P. Czaja, I. Kwiecien, J. Wojewoda-Budka	2022, 31, 7061-7067, <a href="https://doi.org/10.1007/s11665-022-06840-2">https://doi.org/10.1007/s11665-022-06840-2</a>
49.	<b>Journal of Materials Engineering and Performance</b>	Microstructure, Mechanical Properties, and Martensitic Transformation in NiTi Shape Memory Alloy Fabricated Using Electron Beam Additive Manufacturing Technique	J. Dutkiewicz, Ł. Rogal, D. Kalita, J. Kawałko, M. S. Węglowski, K. Kwieciński, P. Śliwiński, H. Danielewski, B. Antoszewski, E. Cesari	J. Dutkiewicz, Ł. Rogal, D. Kalita, J. Kawałko	2022/2, 31, 1609-1631, <a href="https://doi.org/10.1007/s11665-021-06241-x">https://doi.org/10.1007/s11665-021-06241-x</a>
50.	<b>Journal of Materials Engineering and Performance</b>	On Selected Properties of Inconel 625/Ti6Al4V Explosively Welded Clad	J. Wojewoda-Budka, M. Bugajska, J. Guśpiel, S. Terlicka, A. Bigos, A. Wierzbička-Miernik	J. Wojewoda-Budka, M. Bugajska, J. Guśpiel, S. Terlicka, A. Bigos, A. Wierzbička-Miernik	2022, 31, 7080-7087, <a href="https://doi.org/10.1007/s11665-022-06897-z">https://doi.org/10.1007/s11665-022-06897-z</a>
51.	<b>Journal of Materials Engineering and Performance</b>	Phase Formation and Diffusivity in the Ternary Cu-Zn In System	T. Czeppe, A. Sypień, A. Wierzbička-Miernik, G. Garzeł, M. Kopyto	T. Czeppe, A. Sypień, A. Wierzbička-Miernik, G. Garzeł, M. Kopyto	2022, 31, 6962-6969, <a href="https://doi.org/10.1007/s11665-022-06648-0">https://doi.org/10.1007/s11665-022-06648-0</a>
52.	<b>Journal of Materials Engineering and Performance</b>	Variety of Aluminum/Steel Interface Microstructures Formed in Explosively Welded Clads Followed by the Weld's Thermal Expansion Response	M. Bugajska, Ł. Maj, A. Jarzębska, S. Terlicka, M. Faryna, Z. Szulc, J. Wojewoda-Budka	M. Bugajska, Ł. Maj, A. Jarzębska, S. Terlicka, M. Faryna, J. Wojewoda-Budka	2022, 31, 7088-7097, <a href="https://doi.org/10.1007/s11665-022-07027-5">https://doi.org/10.1007/s11665-022-07027-5</a>
53.	<b>Journal of Materials Research and Technology</b>	Characterization of quasicrystalline precipitates in artificially aged Al-Mg-Zn alloy with Ga addition	K. Stan-Głowińska, A. Zięba, Ł. Rogal	K. Stan-Głowińska, A. Zięba, Ł. Rogal	2022, 21, 1749-1759, <a href="https://doi.org/10.1016/j.jmrt.2022.10.020">https://doi.org/10.1016/j.jmrt.2022.10.020</a>

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57.	<b>Journal of Materials Science</b>	Mechanical response during bending of Ni-Mn-Ga-based melt-spun ribbons	P. Czaja, M. Kowalska, A. Brzoza-Kos, M.J. Szczerba	P. Czaja, M.J. Szczerba	2022, 57, 16923–16929, <a href="https://doi.org/10.1007/s10853-022-07690-y">https://doi.org/10.1007/s10853-022-07690-y</a>
58.	<b>Journal of Materials Science &amp; Technology</b>	Titania coating formation on hydrostatically extruded pure titanium by micro-arc oxidation method	Ł. Maj, D. Wojtas, A. Jarzębska, M. Bieda, K. Trembecka, R. Chulist, W. Koziol, A. Góral, A. Trelka, K. Janus, J. Kawalko, M. Kulczyk, F. Muhaffel, H. Çimenoglu, K. Sztwiertnia	Ł. Maj, D. Wojtas, A. Jarzębska, M. Bieda, K. Trembecka, R. Chulist, A. Góral, A. Trelka, K. Janus, K. Sztwiertnia	2022, 111, 224-235, <a href="https://doi.org/10.1016/j.jmst.2021.09.019">https://doi.org/10.1016/j.jmst.2021.09.019</a>
59.	<b>Journal of Mining and Metallurgy, Section B: Metallurgy</b>	Thermodynamic modelling of the binary indium-lithium system, a promising Li-ion battery material	W. Gierlotka, W. Gąsior, A. Dębski, M. Zabrocki	W. Gąsior, A. Dębski, M. Zabrocki	2022, 58, 1, 74 – 84, <a href="https://doi.org/10.2298/JMMB210205041G">https://doi.org/10.2298/JMMB210205041G</a>
60.	<b>Journal of Molecular Liquids</b>	The thermophysical properties of Bi-Ga alloys	T. Gancarz	T. Gancarz	2022, 36, 3, 119912, <a href="https://doi.org/10.1016/j.molliq.2022.119912">https://doi.org/10.1016/j.molliq.2022.119912</a>
61.	<b>Materials</b>	Charge Storage and Reliability Characteristics of Nonvolatile Memory Capacitors with HfO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> -Based Charge Trapping Layers	D. Spassov, A. Paskaleva, E. Guzewicz, W. Wozniak, T. Stanchev, T. Ivanov, J. Wojewoda-Budka, M. Janusz-Skuza	J. Wojewoda-Budka, M. Janusz-Skuza	2022, 15, 18, 6285 <a href="https://doi.org/10.3390/ma15186285">https://doi.org/10.3390/ma15186285</a>
62.	<b>Materials</b>	Interdisciplinary Methods for Zoonotic Tissue Acellularization for Natural Heart Valve Substitute of Biomimetic Materials	R. Major, M. Kopernik, R. Ostrowski, P. Wilczek, A. Bartkowiak, K. Szawiraacz, G. Lis, J. Lekki, M. Gawlikowski, Ł. Major	R. Major, A. Bartkowiak, K. Szawiraacz, Ł. Major	2022, 15, 7, 2594, <a href="https://doi.org/10.3390/ma15072594">https://doi.org/10.3390/ma15072594</a>
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64.	<b>Materials</b>	Modeling of the flow in the process of washing out automotive catalyst carriers with the PbLi alloy	M. Saternus, A. Fornalczyk, W. Gąsior, A. Dębski, S. Terlicka, S. Golak, P. Ciepliński	W. Gąsior, A. Dębski, S. Terlicka	2022, 15, 9, 3119, <a href="https://doi.org/10.3390/ma15093119">https://doi.org/10.3390/ma15093119</a>
65.	<b>Materials</b>	Non-Wetting and Non-Reactive Behavior of Liquid Pure Magnesium on Pure Tungsten Substrates	S. Terlicka, P. Darlak, N. Sobczak, J.J. Sobczak	S. Terlicka, N. Sobczak	2022, 15, 24, 9024, <a href="https://doi.org/10.3390/ma15249024">https://doi.org/10.3390/ma15249024</a>
66.	<b>Materials</b>	Tailoring the Stability of Ti-Doped Sr <sub>2</sub> Fe <sub>1.4</sub> Ti <sub>x</sub> Mo <sub>0.6-x</sub> O <sub>6-δ</sub> Electrode Materials for Solid Oxide Fuel Cells	K. Zheng, M. Albrycht, M. Chen, K. Qi, P. Czaja	P. Czaja	2022, 15, 22, 8268, <a href="https://doi.org/10.3390/ma15228268">https://doi.org/10.3390/ma15228268</a>
67.	<b>Materials</b>	The Effect of the Substrate on the Microstructure and Tribological Properties of Cold Sprayed (Cr <sub>3</sub> C <sub>2</sub> -25(Ni <sub>20</sub> Cr))-(Ni-graphite) Cermet Coatings	A. Trelka, W. Żórawski, Ł. Maj, P. Petrzak, D. Soboń, A. Góral	A. Trelka, Ł. Maj, P. Petrzak, A. Góral	2022, 15, 3, 994 <a href="https://doi.org/10.3390/ma15030994">https://doi.org/10.3390/ma15030994</a>
68.	<b>Materials</b>	Hydrogen Sorption Behavior of Cast Ag-Mg Alloys	A. Dębski, S. Terlicka, A. Sypien, W. Gąsior, M. Peška, M. Polański	A. Dębski, S. Terlicka, A. Sypien, W. Gąsior	2022, 15, 1, 270, <a href="https://doi.org/10.3390/ma15010270">https://doi.org/10.3390/ma15010270</a>
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71.	<b>Materials</b>	Formation and thermal stability of ω-phase in Ti-Nb and Ti-Mo alloys subjected to HPT	A. Korneva, B. Straumal, A. Gornakova, A. Kilmametov, Ł. Gondek, L. Lityńska-Dobrzyńska, R. Chulist, M. Pomorska, P. Zięba	A. Korneva, L. Lityńska-Dobrzyńska, R. Chulist, M. Pomorska, P. Zięba	2022, 15, 4136, <a href="https://doi.org/10.3390/ma15124136">https://doi.org/10.3390/ma15124136</a>
72.	<b>Materials</b>	Development of actuators for repairing cracks by coating W wires with reactive multilayers	G.S. Silva, Ł. Maj, J. Morgiel, M.T. Vieira, A.S. Ramos	Ł. Maj, J. Morgiel	2022, 15, 869, <a href="https://doi.org/10.3390/ma15030869">https://doi.org/10.3390/ma15030869</a>
73.	<b>Materials</b>	Jerky Motion of the Reaction Front during Discontinuous Dissolution in a Fe-13.5 at.% Zn Alloy.	M. Chronowski, J. Opara, B. Straumal, B. Baretzky, P. Zięba	P. Zięba	2022, 15, 3525, <a href="https://doi.org/10.3390/ma15103525">https://doi.org/10.3390/ma15103525</a>

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75.	<b>Materials &amp; Design</b>	Effect of impact loading and heat treatment on microstructure and properties of multi-layered AZ31/AA1050 plates fabricated by single-shot explosive welding	H. Paul, P. Petrzak, R. Chulist, Ł. Maj, I. Mania, M. Prażmowski	H. Paul, P. Petrzak, R. Chulist, Ł. Maj, I. Mania	2022, 214, 110411, <a href="https://doi.org/10.1016/j.matdes.2022.110411">https://doi.org/10.1016/j.matdes.2022.110411</a>
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80.	<b>Materials Science and Engineering: A</b>	Detwinning of face-centered cubic deformation twins at liquid nitrogen temperature	M.J. Szczerba, S. Sumara, M. Faryna, M.S. Szczerba	M.J. Szczerba	2022, 832, 142395, <a href="https://doi.org/10.1016/j.msea.2021.142395">https://doi.org/10.1016/j.msea.2021.142395</a>
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83.	<b>Materials Transaction</b>	Behaviour of Nickel-Rich Non-Equimolar High Entropy Alloys in High-Temperature Oxidizing Conditions	R. Gawel, Ł. Rogal, J. Dąbek	Ł. Rogal	2022, 63, 442-449, <a href="https://doi.org/10.2320/matertrans.MT-MA2022012">https://doi.org/10.2320/matertrans.MT-MA2022012</a>
84.	<b>Materials Transaction</b>	Surface Properties and Microstructure of Catalytically Active Ni70Ga30, Ni70Sn30 and Ni70In30 Melt Spun Intermetallics Subjected to Oxidation-Reduction Heat Treatment	P. Czaja, J. Przewoźnik, P. Ozga, M. Marzec, K. Stan-Głowińska, D. Duraczyńska, E. Serwicka, L. Lityńska-Dobrzyńska	P. Czaja, P. Ozga, K. Stan-Głowińska, L. Lityńska-Dobrzyńska	2022, 63, 415-421, <a href="https://doi.org/10.2320/matertrans.MT-MA2022018">https://doi.org/10.2320/matertrans.MT-MA2022018</a>
85.	<b>Metallurgical and Materials Transactions A</b>	Molar Volume and Surface Tension of Liquid Bi-Cu Alloys	J. Pstruś, P. Fima	J. Pstruś, P. Fima	2022, 53, 1659-1673, <a href="https://doi.org/10.1007/s11661-022-06613-5">https://doi.org/10.1007/s11661-022-06613-5</a>
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88.	<b>Microscopy and Microanalysis</b>	The Phase Transformations Induced by High-Pressure Torsion in Ti-Nb-Based Alloys	A. Korneva, B. Straumal, A. Kilmametov, L. Lityńska-Dobrzyńska, R. Chulist, Ł. Gondek, P. Zięba	A. Korneva, L. Lityńska-Dobrzyńska, R. Chulist, P. Zięba	2022, 28, 946-952, <a href="https://doi.org/10.1017/S1431927621012277">https://doi.org/10.1017/S1431927621012277</a>
89.	<b>Microscopy and Microanalysis</b>	Effect of Heating on the Microstructure of NiAl + CrB2 Coatings Deposited by Mechanical Embedding in a Ball Mill	M. Szczygier, J. Morgiel, M. Pomorska, Ł. Maj	M. Szczygier, J. Morgiel, M. Pomorska, Ł. Maj	2022, 28, 924-928, <a href="https://doi.org/10.1017/S1431927621012666">https://doi.org/10.1017/S1431927621012666</a>
90.	<b>Microscopy and Microanalysis</b>	A detailed interface characterization of the explosively welded three-layered Ti Gr 1/Alloy 400/L.4462 steel clads before and after heat treatment	M. Janusz-Skuza, A. Bigos, Ł. Maj, J. Morgiel, M. Faryna, A. Sypień, Z. Szulc, J. Wojewoda-Budka	M. Janusz-Skuza, A. Bigos, Ł. Maj, J. Morgiel, M. Faryna, A. Sypień, J. Wojewoda-Budka	2022, 28, 915-923, <a href="https://doi.org/10.1017/S143192762101374X">https://doi.org/10.1017/S143192762101374X</a>
91.	<b>Microscopy and Microanalysis</b>	Microstructure and Catalytic Activity of Al13Fe4 and Al13Co4 Melt-Spun Alloys	A. Zięba, K. Stan-Głowińska, P. Czaja, Ł. Rogal, J. Przewoźnik, D. Duraczyńska, E. M. Serwicka, L. Lityńska-Dobrzyńska	A. Zięba, K. Stan-Głowińska, P. Czaja, Ł. Rogal, J. Przewoźnik, D. Duraczyńska, E. M. Serwicka, L. Lityńska-Dobrzyńska	2022, 28, 961-967, <a href="https://doi.org/10.1017/S1431927621012320">https://doi.org/10.1017/S1431927621012320</a>
92.	<b>Microscopy and Microanalysis</b>	Microstructural SEM/STEM Analysis of Ni70Ga30 and Ni70Sn30 Catalytically Active Intermetallic Ribbons after Prolonged Exposure to Elevated Process Temperature	P. Czaja, J. Przewoźnik, K. Stan-Głowińska, A. Zięba, L. Lityńska-Dobrzyńska	P. Czaja, J. Przewoźnik, K. Stan-Głowińska, A. Zięba, L. Lityńska-Dobrzyńska	2022, 28, 968-974, <a href="https://doi.org/10.1017/S1431927621012290">https://doi.org/10.1017/S1431927621012290</a>

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94.		<b>Molecules</b>	Milk-Derived Carbon Quantum Dots	H. Shabbir, K. Wojtaszek, B. Rutkowski, E. Csapó, M. Bednarski, A. Adamiec, M. Głuch-Lutwin, B. Mordyl, J. Druciarek, M. Kotańska, P. Ozga, M. Wojnicki	P. Ozga	2022, 27, 8728, <a href="https://doi.org/10.3390/molecules27248728">https://doi.org/10.3390/molecules27248728</a>
95.		<b>Nanotechnology</b>	The atomic layer deposition (ALD) synthesis of copper-tin sulfide thin films using low-cost precursors	M. Witkowski, Z. Starowicz, A. Zięba, B. Adamczyk-Cieślak, R.P. Socha, O. Szawcow, G. Kołodziej, M. Haras, J. Ostapko	Z. Starowicz	2022, 33, 50, 505603, <a href="https://doi.org/10.1088/1361-6528/ac9065">https://doi.org/10.1088/1361-6528/ac9065</a>
96.		<b>Opto-Electronics Review</b>	The Al <sub>2</sub> O <sub>3</sub> /TiO <sub>2</sub> double antireflection coating deposited by ALD method	M. Szindler, M. Szindler, J. Orwat, G. Kulesza-Matłak	G. Kulesza-Matłak	2022, 30, 3, 141952, <a href="https://doi.org/10.24425/opelre.2022.141952">https://doi.org/10.24425/opelre.2022.141952</a>
97.		<b>Scientific Reports</b>	Understanding the mechanism of Nb-MXene bioremediation with green microalgae	M. Jakubczak, D. Bury, M.A.K. Purbayanto, A. Wójcik A, D. Moszczyńska, K. Prenger, M. Naguib, A.M. Jastrzębska	A. Wójcik	2022, 12, 14366, <a href="https://doi.org/10.1038/s41598-022-18154-3">https://doi.org/10.1038/s41598-022-18154-3</a>
98.		<b>The Journal of Chemical Thermodynamics</b>	Phase diagram, thermodynamic studies, and ab-initio calculations of the Ge-Li system	W. Gierlotka, A. Dębski, M. Zabrocki, A. Góral, W. Gąsior	A. Dębski, A. Góral, W. Gąsior	2022, 175, 106883 <a href="https://doi.org/10.1016/j.jct.2022.106883">https://doi.org/10.1016/j.jct.2022.106883</a>
1.	2. Publikacje w czasopismach nie zamieszczonych w wykazie czasopism	<b>IOP Conf. Series: Materials Science and Engineering</b>	Lattice rotations during channel-die compression at high strain rates in copper single crystals of {110}<112>, {112}<111> and {123}<634> orientations	I. Mania, H. Paul, R. Chulist	I. Mania, H. Paul, R. Chulist	2022, 1249, 012028, <a href="https://doi.org/10.1088/1757-899X/1249/1/012028">https://doi.org/10.1088/1757-899X/1249/1/012028</a>
2.		<b>IOP Conf. Series: Materials Science and Engineering</b>	Crystallographic aspect of shear bands formation in pure iron deformed at high strain rates	I. Mania, H. Paul, R. Chulist, P. Petrzak, M. Prażmowski	I. Mania, H. Paul, R. Chulist, P. Petrzak	2022, 1270, 012099, <a href="https://doi.org/10.1088/1757-899X/1270/1/012099">https://doi.org/10.1088/1757-899X/1270/1/012099</a>
3.		<b>IOP Conf. Series: Materials Science and Engineering</b>	Effect of impact loading on structural properties of multi layered Ta/Cu, Nb/Cu and Fe/Cu plates fabricated by single shot explosive welding	H. Paul, M.M Miszczyk, M. Prażmowski, R. Chulist, P. Petrzak, N. Schell, M. Fatemi	H. Paul, M. M. Miszczyk, R. Chulist, P. Petrzak	2022, 1270, 012068, <a href="https://doi.org/10.1088/1757-899X/1270/1/012068">https://doi.org/10.1088/1757-899X/1270/1/012068</a>
<b>C. Monografie</b>						
1.		<b>Tytuł monografii</b>	<b>Tytuł rozdziału</b>	<b>Autor / Redaktor</b>	<b>Autor IMIM</b>	<b>ISBN, rok wydania, wydawca, ilość str. lub str. od-do (przy rozdziale)</b>
2.		70 lat Instytutu Metalurgii i Inżynierii Materiałowej im. Aleksandra Krupkowskiego Polskiej Akademii Nauk		P. Zięba	P. Zięba	978-83-60768-67-9, 2022, 121 s.
3.		Indexing of crystal diffraction patterns		A. Morawiec	A. Morawiec	978-3-031-11076-4, 2022, Springer Nature, 417
4.		Nickel superalloys. Recent developments in liquid metal engineering		J. J. Sobczak, R. M. Purgert, N. Sobczak, R. Asthana	N. Sobczak	978-83-963247-0-2; 978-83-66727-49-6; e-ISBN 978-83-66727-50-2; AGH University of Science and Technology Press, Kraków, 2022, 450 s.
5.		Proceedings of 11 th European School for Young Materials Scientists September 27-28, 2022 Caparica-Portugal		M. Bieda	M. Bieda	978-60768-66-2, 2022, 151 s.
<b>D. Rozdziały w monografii</b>						
1.		Nickel superalloys. Recent developments in liquid metal engineering	Chapter III. Ni-based alloys. In: Nickel superalloys. Recent developments in liquid metal engineering	J. Sobczak, Z. Pirowski, N. Sobczak,	N. Sobczak	2022, s. 45-76 ISBN 978-83-963247-0-2; ISBN 978-83-66727-49-6; e-ISBN 978-83-66727-50-2; AGH University of Science and Technology Press, Kraków
2.		Nickel superalloys. Recent developments in liquid metal engineering	Chapter IV. High-temperature interaction between molten Ni alloys and refractory materials. In: Nickel superalloys. Recent developments in liquid metal engineering	N. Sobczak, R.M. Purgert, R. Asthana, J.J. Sobczak	N. Sobczak	2022, s. 77-160 ISBN 978-83-963247-0-2; ISBN 978-83-66727-49-6; e-ISBN 978-83-66727-50-2; AGH University of Science and Technology Press, Kraków
3.		Nickel superalloys. Recent developments in liquid metal engineering	Chapter VII. Primary and secondary melt processing on example of Haynes 282, Nickel superalloys. Recent developments in liquid metal engineering	Z. Pirowski, M. Warmuzek, S. Pysz, N. Sobczak, R.M. Purgert, J.J. Sobczak	N. Sobczak	2022, s. 191-254 ISBN 978-83-963247-0-2; ISBN 978-83-66727-49-6; e-ISBN 978-83-66727-50-2; AGH University of Science and Technology Press, Kraków