

Mamoun Medraj

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Laser Peening Process and Its Impact on Materials Properties in Comparison with Shot Peening and Ultrasonic Impact Peening. <i>Materials</i> , 2014, 7, 7925-7974.	2.9	286
2	Structure, Texture and Phases in 3D Printed IN718 Alloy Subjected to Homogenization and HIP Treatments. <i>Metals</i> , 2017, 7, 196.	2.3	179
3	Transient liquid phase bonding of Inconel 718 and Inconel 625 with BNi-2: Modeling and experimental investigations. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007, 447, 125-133.	5.6	136
4	Critical assessment and thermodynamic modeling of Mg-Zn, Mg-Sn, Sn-Zn and Mg-Sn-Zn systems. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2012, 36, 28-43.	1.6	112
5	High temperature neutron diffraction study of the Al ₂ O ₃ -Y ₂ O ₃ system. <i>Journal of the European Ceramic Society</i> , 2006, 26, 3515-3524.	5.7	107
6	Influence of Cooling Rate on Microsegregation Behavior of Magnesium Alloys. <i>Journal of Materials</i> , 2014, 2014, 1-18.	0.1	99
7	Microstructure and bio-corrosion behavior of Mg-Zn and Mg-Zn-Ca alloys for biomedical applications. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2014, 65, 1178-1187.	1.5	96
8	Oxide films in laser additive manufactured Inconel 718. <i>Acta Materialia</i> , 2013, 61, 6562-6576.	7.9	93
9	Critical assessment and thermodynamic modeling of the binary Mg-Zn, Ca-Zn and ternary Mg-Ca-Zn systems. <i>Intermetallics</i> , 2009, 17, 847-864.	3.9	88
10	In-vitro corrosion inhibition mechanism of fluorine-doped hydroxyapatite and brushite coated Mg-Ca alloys for biomedical applications. <i>Ceramics International</i> , 2014, 40, 7971-7982.	4.8	87
11	Essential Magnesium Alloys Binary Phase Diagrams and Their Thermochemical Data. <i>Journal of Materials</i> , 2014, 2014, 1-33.	0.1	76
12	The effect of initial surface roughness on water droplet erosion behaviour. <i>Wear</i> , 2015, 342-343, 198-209.	3.1	70
13	Preparation and characterization of NiCrAlY/nano-YSZ/PCL composite coatings obtained by combination of atmospheric plasma spraying and dip coating on Mg-Ca alloy. <i>Journal of Alloys and Compounds</i> , 2016, 658, 440-452.	5.5	65
14	Thermodynamic modelling of the Mg-Ca, Mg-Sr, Ca-Sr and Mg-Ca-Sr systems using the modified quasichemical model. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2008, 32, 240-251.	1.6	62
15	Amorphous and crystalline phase formation during suspension plasma spraying of the alumina-zirconia composite. <i>Journal of the European Ceramic Society</i> , 2011, 31, 2903-2913.	5.7	61
16	Fabrication and characterization of hydrophobic microarc oxidation/poly-lactic acid duplex coating on biodegradable Mg-Ca alloy for corrosion protection. <i>Vacuum</i> , 2016, 125, 185-188.	3.5	61
17	The effect of microstructure on the permeability of metallic foams. <i>Journal of Materials Science</i> , 2007, 42, 4372-4383.	3.7	58
18	Effective Parameters in Axial Injection Suspension Plasma Spray Process of Alumina-Zirconia Ceramics. <i>Journal of Thermal Spray Technology</i> , 2008, 17, 685-691.	3.1	57

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19	Effect of Postweld Heat Treatment on Microstructure, Hardness, and Tensile Properties of Laser-Welded Ti-6Al-4V. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 4171-4184.	2.2	56
20	Binary Phase Diagrams and Thermodynamic Properties of Silicon and Essential Doping Elements (Al, As,) Tj ETQq0 0,0 rgBT /Overlock 10	2.9	56
21	A critical thermodynamic assessment of the Mg-Al-Ni, Ni-Al-Y binary and Mg-Al-Ni-Al-Y ternary systems. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2009, 33, 478-486.	1.6	53
22	Experimental investigation of the MgAlCa system. Journal of Alloys and Compounds, 2007, 436, 131-141.	5.5	50
23	Water Droplet Erosion of Wind Turbine Blades: Mechanics, Testing, Modeling and Future Perspectives. Materials, 2020, 13, 157.	2.9	50
24	High-Temperature Performance of Alumina-Zirconia Composite Coatings Containing Amorphous Phases. Advanced Functional Materials, 2011, 21, 4143-4151.	14.9	48
25	Fabrication and corrosion behavior of Si/HA nano-composite coatings on biodegradable Mg-Zn-Mn-Ca alloy. Surface and Coatings Technology, 2014, 258, 1090-1099.	4.8	48
26	Nd:YAG laser welding of aerospace grade ZE41A magnesium alloy: Modeling and experimental investigations. Materials Chemistry and Physics, 2008, 109, 61-76.	4.0	46
27	Effect of homogenization and solution treatments time on the elevated-temperature mechanical behavior of Inconel 718 fabricated by laser powder bed fusion. Scientific Reports, 2021, 11, 2020.	3.3	46
28	Al-Mg-RE (RE=La, Ce, Pr, Nd, Sm) systems: Thermodynamic evaluations and optimizations coupled with key experiments and Miedema's model estimations. Journal of Chemical Thermodynamics, 2013, 58, 166-195.	2.0	45
29	Effect of alloying elements on the isothermal solidification during TLP bonding of SS 410 and SS 321 using a BNi-2 interlayer. Materials Chemistry and Physics, 2007, 106, 109-119.	4.0	44
30	Experimental Demonstration of Entrance/Exit Effects on the Permeability Measurements of Porous Materials. Advanced Engineering Materials, 2008, 10, 889-894.	3.5	44
31	Novel bi-layered nanostructured SiO ₂ /Ag-FHAp coating on biodegradable magnesium alloy for biomedical applications. Ceramics International, 2016, 42, 11941-11950.	4.8	42
32	Thermodynamic modeling of the Mg-Al-Sb system. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2005, 29, 24-36.	1.6	41
33	Experimental study and thermodynamic calculation of Al-Mg-Sr phase equilibria. Intermetallics, 2007, 15, 506-519.	3.9	40
34	In-vitro degradation behavior of Mg alloy coated by fluorine doped hydroxyapatite and calcium deficient hydroxyapatite. Transactions of Nonferrous Metals Society of China, 2014, 24, 2516-2528.	4.2	39
35	Thermal Characteristics, Mechanical Properties, In Vitro Degradation and Cytotoxicity of Novel Biodegradable Zn-Al-Mg and Zn-Al-Mg-xBi Alloys. Acta Metallurgica Sinica (English Letters), 2017, 30, 201-211.	2.9	39
36	Understanding AlN sintering through computational thermodynamics combined with experimental investigation. Journal of Materials Processing Technology, 2005, 161, 415-422.	6.3	38

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37	Phase Formation and Transformation in Alumina/YSZ Nanocomposite Coating Deposited by Suspension Plasma Spray Process. <i>Journal of Thermal Spray Technology</i> , 2010, 19, 787-795.	3.1	38
38	Determination of the solubility range and crystal structure of the Mg-rich ternary compound in the Ca-Mg-Zn system. <i>Intermetallics</i> , 2010, 18, 2404-2411.	3.9	37
39	Experimental study of the phase equilibria in the Mg-Zn-Ag ternary system at 300 °C. <i>Journal of Alloys and Compounds</i> , 2015, 639, 593-601.	5.5	37
40	Influence of Homogenization and Solution Treatments Time on the Microstructure and Hardness of Inconel 718 Fabricated by Laser Powder Bed Fusion Process. <i>Materials</i> , 2020, 13, 2574.	2.9	37
41	Thermodynamic Description of the Mg-Mn, Al-Mn and Mg-Al-Mn Systems Using the Modified Quasichemical Model for the Liquid Phases. <i>Materials Transactions</i> , 2009, 50, 1113-1122.	1.2	36
42	Tensile properties of laser additive manufactured Inconel 718 using filler wire. <i>Journal of Materials Research</i> , 2014, 29, 2006-2020.	2.6	36
43	Effect of ultrasonic nanocrystalline surface modification on the water droplet erosion performance of Ti 6Al 4V. <i>Surface and Coatings Technology</i> , 2016, 307, 157-170.	4.8	34
44	The equilibrium phase diagram of the magnesium-copper-yttrium system. <i>Journal of Chemical Thermodynamics</i> , 2008, 40, 1064-1076.	2.0	33
45	Understanding the reaction mechanism of in-situ synthesized (TiC/TiB ₂)/AZ91 magnesium matrix composites. <i>Materials Chemistry and Physics</i> , 2012, 135, 193-205.	4.0	33
46	Corrosion and mechanical performance of double-layered nano-Al/PCL coating on Mg-Ca-Bi alloy. <i>Vacuum</i> , 2015, 119, 95-98.	3.5	33
47	Microstructural and Microhardness Evolution from Homogenization and Hot Isostatic Pressing on Selective Laser Melted Inconel 718: Structure, Texture, and Phases. <i>Journal of Manufacturing and Materials Processing</i> , 2018, 2, 30.	2.2	33
48	Effect of heat treatment on the microstructure and corrosion behaviour of Mg-Zn alloys. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2014, 65, 999-1006.	1.5	32
49	Synthesis and biodegradation evaluation of nano-Si and nano-Si/TiO ₂ coatings on biodegradable Mg-Ca alloy in simulated body fluid. <i>Ceramics International</i> , 2014, 40, 14009-14018.	4.8	32
50	Synthesis and corrosion behavior of a hybrid bioceramic-biopolymer coating on biodegradable Mg alloy for orthopaedic implants. <i>Journal of Alloys and Compounds</i> , 2015, 648, 1067-1071.	5.5	31
51	Experimental study of the ternary magnesium-aluminium-strontium system. <i>Journal of Alloys and Compounds</i> , 2005, 402, 170-185.	5.5	30
52	Experimental study of the Ca-Mg-Zn system using diffusion couples and key alloys. <i>Science and Technology of Advanced Materials</i> , 2011, 12, 025003.	6.1	30
53	The phase equilibria in the Mg-Ni-Ca system. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2005, 29, 289-302.	1.6	29
54	Microstructure, In Vitro Corrosion Behavior and Cytotoxicity of Biodegradable Mg-Ca-Zn and Mg-Ca-Zn-Bi Alloys. <i>Journal of Materials Engineering and Performance</i> , 2017, 26, 653-666.	2.5	28

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55	Water Impingement Erosion of Deep-Rolled Ti64. <i>Metals</i> , 2015, 5, 1462-1486.	2.3	27
56	Computational thermodynamic model for the Mg-Al-Y system. <i>Journal of Phase Equilibria and Diffusion</i> , 2006, 27, 231-244.	1.4	25
57	Microstructural, mechanical properties and corrosion behavior of plasma sprayed NiCrAlY/nano-YSZ duplex coating on Mg-1.2Ca-3Zn alloy. <i>Ceramics International</i> , 2015, 41, 15272-15277.	4.8	24
58	A computational thermodynamic model of the Mg-Al-Ge system. <i>Journal of Alloys and Compounds</i> , 2006, 425, 129-139.	5.5	23
59	Enhancement of amorphous phase formation in alumina-YSZ coatings deposited by suspension plasma spray process. <i>Surface and Coatings Technology</i> , 2013, 220, 191-198.	4.8	23
60	Crystallization characteristics of the Mg-rich metallic glasses in the Ca-Mg-Zn system. <i>Journal of Alloys and Compounds</i> , 2013, 552, 88-97.	5.5	23
61	Water droplet erosion behaviour of gas nitrated Ti6Al4V. <i>Surface and Coatings Technology</i> , 2016, 292, 78-89.	4.8	23
62	Thermodynamic and Experimental Study of the Mg-Sn-Ag-In Quaternary System. <i>Journal of Phase Equilibria and Diffusion</i> , 2014, 35, 284-313.	1.4	22
63	Experimental determination of the phase equilibria in the Mg-Zn-Sr ternary system. <i>Journal of Materials Science</i> , 2015, 50, 7636-7646.	3.7	22
64	Energy based approach for understanding water droplet erosion. <i>Materials and Design</i> , 2016, 104, 76-86.	7.0	22
65	Microstructural characterization of Mg-Al-Sr alloys. <i>Science and Technology of Advanced Materials</i> , 2007, 8, 237-248.	6.1	21
66	The 400°C isothermal section of the Mg-Al-Ca system. <i>Intermetallics</i> , 2010, 18, 1498-1506.	3.9	21
67	Distortion and residual stress measurements of induction hardened AISI 4340 discs. <i>Materials Chemistry and Physics</i> , 2013, 142, 248-258.	4.0	21
68	Experimental study of the crystal structure of the Mg ₁₅ xZnxSr ₃ ternary solid solution in the Mg-Zn-Sr system at 300°C. <i>Materials and Design</i> , 2015, 86, 305-312.	7.0	21
69	Hot compression behavior and microstructure of selectively laser-melted IN718 alloy. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 96, 371.	3.0	21
70	Thermodynamic calculation of the Mg-Mn-Zn and Mg-Mn-Ce systems and re-optimization of their constitutive binaries. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2013, 41, 89-107.	1.6	20
71	Global and Local Mechanical Properties of Autogenously Laser Welded Ti-6Al-4V. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014, 45, 1258-1272.	2.2	20
72	Critical assessment and thermodynamic modeling of Mg-Ca-Zn system supported by key experiments. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2014, 46, 134-147.	1.6	20

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73	On the prediction of Gibbs free energy of mixing of binary liquid alloys. Journal of Chemical Thermodynamics, 2013, 57, 82-91.	2.0	19
74	A thermodynamic description of the Al-Ca-Zn ternary system. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2009, 33, 584-598.	1.6	17
75	Experimental and thermodynamic study of the Mg-Sn-In-Zn quaternary system. Journal of Alloys and Compounds, 2014, 588, 75-95.	5.5	17
76	Experimental Study of the Mg-Ni-Y System at 673 K Using Diffusion Couples and Key Alloys. Metals, 2015, 5, 1746-1769.	2.3	17
77	Effect of Electrodeposition Parameters on the Microstructure and Corrosion Behavior of Zr/DCPD Coatings on Biodegradable Mg/Ca Mg/Ca Zn Alloy. International Journal of Applied Ceramic Technology, 2015, 12, 1054-1064.	2.1	17
78	Water Droplet Erosion Performance of Laser Shock Peened Ti-6Al-4V. Metals, 2016, 6, 262.	2.3	17
79	THERMODYNAMIC MODELLING OF THE Mg-Al-Ca SYSTEM. Canadian Metallurgical Quarterly, 2005, 44, 523-536.	1.2	16
80	Thermodynamic assessment of the Mg-Zn-Sr system. Intermetallics, 2007, 15, 93-97.	3.9	16
81	Prediction and experimental evaluation of the threshold velocity in water droplet erosion. Materials and Design, 2022, 213, 110312.	7.0	16
82	On the atomic interdiffusion in Mg-{Ce, Nd, Zn} and Zn-{Ce, Nd} binary systems. Journal of Materials Research, 2014, 29, 1463-1479.	2.6	15
83	Experimental Investigation of the Mg-Nd-Zn Isothermal Section at 300 °C. Metals, 2015, 5, 84-101.	2.3	15
84	Structural considerations in plasma spraying of the alumina-zirconia composite. Surface and Coatings Technology, 2011, 205, 5437-5443.	4.8	14
85	The effect of cooling rate on thermophysical properties of magnesium alloys. Journal of Materials Research, 2011, 26, 974-982.	2.6	14
86	Phase Equilibria and Magnetic Phases in the Ce-Fe-Co-B System. Materials, 2017, 10, 16.	2.9	14
87	Power Ultrasonic Additive Manufacturing: Process Parameters, Microstructure, and Mechanical Properties. Advances in Materials Science and Engineering, 2020, 2020, 1-17.	1.8	14
88	Water droplet impingement erosion performance of WC-based coating sprayed by HVAF and HVOF. Wear, 2021, 484-485, 203904.	3.1	14
89	High-Temperature Neutron Diffraction of the $\text{Al}_2\text{O}_3\text{-Y}_2\text{O}_3$ System. Journal of the American Ceramic Society, 2003, 86, 717-26.	3.8	13
90	Use of filler wire for laser welding of Ti-6Al-4V. Canadian Metallurgical Quarterly, 2012, 51, 320-327.	1.2	13

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91	Thermal Cycling of Suspension Plasma Sprayed Alumina-YSZ Coatings Containing Amorphous Phases. Journal of the American Ceramic Society, 2012, 95, 2614-2621.	3.8	13
92	Intrinsic Magnetic Properties of Ce ₂ Fe ₁₄ B Modified by Al, Ni, or Si. Applied Sciences (Switzerland), 2018, 8, 205.	2.5	13
93	Homogeneity range and crystal structure of the Ca ₂ Mg ₅ Zn ₁₃ compound. Journal of Alloys and Compounds, 2012, 523, 75-82.	5.5	12
94	Preparation and Performance of Plasma/Polymer Composite Coatings on Magnesium Alloy. Journal of Materials Engineering and Performance, 2016, 25, 3948-3959.	2.5	12
95	HVOF and HVOF Coatings of Agglomerated Tungsten Carbide-Cobalt Powders for Water Droplet Erosion Application. Journal of Thermal Spray Technology, 2016, 25, 1711-1723.	3.1	12
96	Optimization of the Post-Process Heat Treatment of Inconel 718 Superalloy Fabricated by Laser Powder Bed Fusion Process. Metals, 2021, 11, 144.	2.3	12
97	Thermodynamic assessment of the phase equilibria in the Al-Ca-Sr system using the modified quasichemical model. Journal of Chemical Thermodynamics, 2008, 40, 724-734.	2.0	11
98	Phase equilibria of the constituent ternaries of the Mg-Al-Ca-Sr system. Jom, 2009, 61, 68-74.	1.9	11
99	Phase equilibrium in Mg-Cu-Y. Scientific Reports, 2013, 3, 3033.	3.3	9
100	Magnetic force microscopic study of Ce ₂ (Fe, Co) ₁₄ B, and its modifications by Ni and Cu. Journal of Magnetism and Magnetic Materials, 2018, 460, 95-103.	2.3	9
101	Synthesizing Nanostructured Ni ₇₅ Mg _{16.66} Y _{8.34} (at%) Powder by Solid State Reaction and Mechanical Milling. Materials and Manufacturing Processes, 2012, 27, 1300-1305.	4.7	8
102	Experimental study of the Cu-Ni-Y system at 700 °C using diffusion couples and key alloys. Journal of Alloys and Compounds, 2013, 561, 161-173.	5.5	8
103	Coherent nanoscale ternary precipitates in crystallized Ca ₄ Mg ₇₂ Zn ₂₄ metallic glass. Scripta Materialia, 2013, 68, 647-650.	5.2	8
104	Progress in Wettability Study of Reactive Systems. Journal of Metallurgy, 2014, 2014, 1-14.	1.1	8
105	Investigation on metallic glass formation in Mg-Zn-Sr ternary system combined with the CALPHAD method. Materials Letters, 2019, 256, 126628.	2.6	8
106	Phase Equilibria of the Ce-Mg-Zn Ternary System at 300 °C. Metals, 2014, 4, 168-195.	2.3	7
107	Thermodynamic modeling of Cu-Ni-Y system coupled with key experiments. Materials Chemistry and Physics, 2015, 153, 32-47.	4.0	7
108	Experimental investigation of the Mg Zn Zr ternary system at 450 °C. Journal of Alloys and Compounds, 2016, 680, 212-225.	5.5	7

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109	Characterisation and thermodynamic calculations of biodegradable Mg _{2.2} Zn _{3.7} Ce and Mg _{2.2} Zn _{3.7} Ce alloys. <i>Materials Science and Technology</i> , 2017, 33, 1333-1345.	1.6	7
110	Reliability of Laser Welding Process for ZE41A-T5 Magnesium Alloy Sand Castings. <i>Materials Transactions</i> , 2008, 49, 774-781.	1.2	6
111	Experimental Investigation of the Phase Equilibria in the Al-Mn-Zn System at 400°C. <i>Journal of Materials</i> , 2014, 2014, 1-13.	0.1	6
112	Thermodynamic modelling and in-situ neutron diffraction investigation of the (Ce + Mg + Zn) system. <i>Journal of Chemical Thermodynamics</i> , 2016, 93, 242-254.	2.0	6
113	Stability of the microstructure and elevated-temperature mechanical properties of additively manufactured Inconel 718 superalloy subjected to long-term in-service thermal cycling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 838, 142790.	5.6	6
114	Experimental investigation and first-principle calculations coupled with thermodynamic modeling of the Mn-Nd phase diagram. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2013, 42, 27-37.	1.6	5
115	On the role of strain hardening and mechanical properties in water droplet erosion of metals. <i>Tribology International</i> , 2022, 173, 107649.	5.9	5
116	Thermodynamic modeling of the Ca-Ni system. <i>Science and Technology of Advanced Materials</i> , 2006, 7, 119-126.	6.1	4
117	Morphological and Crystallographic Characterizations of the Ca-Mg-Zn Intermetallics Appearing in Ternary Diffusion Couples. <i>Advanced Materials Research</i> , 0, 409, 387-392.	0.3	4
118	Phase equilibria and magnetic phases in the Fe-rich regions of the Ce-Fe-{Ni, Si, Al}-B quaternary systems. <i>Journal of Alloys and Compounds</i> , 2018, 763, 289-295.	5.5	4
119	Optimization of the Electrospun Niobium-Tungsten Oxide Nanofibers Diameter Using Response Surface Methodology. <i>Nanomaterials</i> , 2021, 11, 1644.	4.1	4
120	Crashworthiness improvement of a pickup truck's chassis frame using the Pareto-Front and genetic algorithm. <i>International Journal of Heavy Vehicle Systems</i> , 2011, 18, 83.	0.2	3
121	Ternary Intermetallic Compounds across the Mg-NiY Line at 673 K. <i>Materials Science Forum</i> , 0, 706-709, 1134-1139.	0.3	3
122	Experimental Investigation of the Ce-Mg-Mn Isothermal Section at 723K (450°C) via Diffusion Couples Technique. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014, 45, 3144-3160.	2.2	3
123	Thermodynamic analysis of dehydrogenation path of Mg-Al-Li-Na alloys. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2016, 54, 54-66.	1.6	3
124	Understanding the hydrogen storage behavior of promising Al-Mg-Na compositions using thermodynamic modeling. <i>Materials for Renewable and Sustainable Energy</i> , 2016, 5, 1.	3.6	3
125	Intrinsic magnetic properties of Ce ₂ (Fe, Co) ₁₄ B and its modifications by Ni and Cu. <i>Journal of Alloys and Compounds</i> , 2018, 763, 916-925.	5.5	3
126	New Phases in the Mg-Al-Sr System. <i>Materials Science Forum</i> , 2007, 539-543, 1620-1625.	0.3	2

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127	Experimental investigation of the phase equilibria of the Al-Ca-Zn system at 623K. Journal of Alloys and Compounds, 2012, 539, 97-102.	5.5	2
128	Processing and Characterization of In Situ (TiC-TiB) ₂ /AZ91D Magnesium Matrix Composites. Advanced Engineering Materials, 2013, 15, 708-717.	3.5	2
129	Experimental investigation of the Mg-Mn-Nd isothermal section at 450°C. Journal of Alloys and Compounds, 2014, 608, 247-257.	5.5	2
130	Conversion of Electric Arc Furnace Dust into Ceramics Using Thermodynamic Calculations and Experimental Work. Key Engineering Materials, 0, 765, 73-78.	0.4	2
131	Experimental and CFD simulation of interactions between water droplets with different surface features to understand water droplet erosion. Transactions of the Canadian Society for Mechanical Engineering, 2022, 46, 573-586.	0.8	2
132	The equilibria in the AlN-Al ₂ O ₃ -Y ₂ O ₃ system - thermodynamics and neutron diffraction. Applied Physics A: Materials Science and Processing, 2002, 74, s1188-s1191.	2.3	1
133	Mathematical Modeling and Experimental Investigations of Isothermal Solidification during Transient Liquid Phase Bonding of Nickel Superalloys. Advanced Materials Research, 2006, 15-17, 882-887.	0.3	1
134	Novel fabrication process of AlN ceramic matrix composites at low temperatures. Science and Engineering of Composite Materials, 2011, 18, .	1.4	1
135	A Differential Scanning Calorimetric Study of the Mg-Cu-Y System. Materials Science Forum, 0, 706-709, 1215-1220.	0.3	1
136	An Efficient Crashworthiness Design Optimization Approach for Frontal Automobile Structures. , 2008, , .		0
137	Effect of Casting Parameters on the Microstructural and Mechanical Behavior of Magnesium AZ31-B Alloy Strips Cast on a Single Belt Casting Simulator. Advances in Materials Science and Engineering, 2014, 2014, 1-9.	1.8	0