

Thomas Lampke

List of Publications by Year in descending order

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papers

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201674

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#	ARTICLE	IF	CITATIONS
1	Niobium and Molybdenum as Alloying Constituents in Al _{0.3} CoCrFeNi to Develop Eutectic High-Entropy Alloys for HVOF Spraying. <i>Journal of Thermal Spray Technology</i> , 2023, 32, 415-424.	3.1	5
2	Microstructure and Corrosion Properties of AlCrFeCoNi High-Entropy Alloy Coatings Prepared by HVOF and HVOF. <i>Journal of Thermal Spray Technology</i> , 2022, 31, 247-255.	3.1	15
3	Microstructure and Properties of Atmospheric Plasma Sprayed (Al,Cr) ₂ O ₃ -TiO ₂ Coatings from Blends. <i>Journal of Thermal Spray Technology</i> , 2022, 31, 256-268.	3.1	5
4	Electrodeposition of Thick and Crack-Free Fe-Cr-Ni Coatings from a Cr (III) Electrolyte. <i>Coatings</i> , 2022, 12, 56.	2.6	5
5	Numerical Investigation of the Orientability of Single Reinforcement Fibers in Polymer Matrices. <i>Polymers</i> , 2022, 14, 534.	4.5	5
6	Mathematical Modeling of the Limiting Current Density from Diffusion-Reaction Systems. <i>Axioms</i> , 2022, 11, 53.	1.9	1
7	Hardness Enhancement in CoCrFeNi _{1-x} (WC) _x High-Entropy Alloy Thin Films Synthesised by Magnetron Co-Sputtering. <i>Coatings</i> , 2022, 12, 269.	2.6	0
8	Comparison of Aqueous and Gelled 3.5% NaCl Electrolytes for Assessing the Corrosion Resistance of Thermal Spray Stainless-Steel Coatings in Electrochemical Corrosion Tests. <i>Coatings</i> , 2022, 12, 344.	2.6	3
9	Comparison of Microstructures and Selected Properties of Plasma-Sprayed Iron-Based Metallic Glass Coatings. <i>Journal of Thermal Spray Technology</i> , 2022, 31, 1330-1341.	3.1	3
10	Heat Treatment Influencing Porosity and Tensile Properties of Field Assisted Sintered AlSi7Mg0.6. <i>Materials</i> , 2022, 15, 2503.	2.9	7
11	Silicate and Hydroxide Concentration Influencing the Properties of Composite Al ₂ O ₃ -TiO ₂ PEO Coatings on AA7075 Alloy. <i>Coatings</i> , 2022, 12, 33.	2.6	1
12	Influence of Aluminum and Molybdenum on the Microstructure and Corrosion Behavior of Thermally Sprayed High-Entropy Alloy Coatings. <i>Journal of Thermal Spray Technology</i> , 2022, 31, 1366-1374.	3.1	6
13	Assessment of CrFeCoNi and AlCrFeCoNi High-Entropy Alloys as Bond Coats for Thermal Barrier Coatings. <i>Journal of Thermal Spray Technology</i> , 2022, 31, 1404-1422.	3.1	14
14	Enhanced Abrasion Resistance of Spark Plasma Sintered and HVOF Sprayed Hadfield High Manganese Steel by Turning and Diamond Smoothing. <i>Journal of Manufacturing and Materials Processing</i> , 2022, 6, 48.	2.2	1
15	Integrating human cognition in cyber-physical systems: A multidimensional fuzzy pattern model with application to thermal spraying. <i>Journal of Manufacturing Systems</i> , 2022, 63, 162-176.	13.9	13
16	Evolution of Microstructure and Hardness of the Nitrided Zone during Plasma Nitriding of High-Alloy Tool Steel. <i>Metals</i> , 2022, 12, 866.	2.3	5
17	Low surface damage laser processing of silicon by laser-induced plasma etching (LIPE). <i>Applied Surface Science</i> , 2022, 597, 153712.	6.1	1
18	Surface properties in turning of aluminum alloys applying different cooling strategies. <i>Procedia CIRP</i> , 2022, 108, 246-251.	1.9	7

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19	Ultrasonic assisted milling of a CoCrFeNi medium entropy alloy. Procedia CIRP, 2022, 108, 879-884.	1.9	5
20	Surface hardening in finishing of sintered and thermal sprayed X120Mn12. Procedia CIRP, 2022, 108, 216-221.	1.9	1
21	Influence of the kinematic roughness resulting from facing of AMC specimens on preconditioning of friction surfaces. Procedia CIRP, 2022, 108, 1-6.	1.9	3
22	Effects of Laser-Remelting on the Microstructure, Hardness and Oscillating Wear Resistance of Atmospheric Plasma Sprayed Alumina-Rich Coatings. Coatings, 2022, 12, 721.	2.6	0
23	Sodium hexabromoiridate(III) for the electroplating of Ir-Ni and Ir-Re-Ni alloy coatings. Thin Solid Films, 2022, 755, 139323.	1.8	4
24	High-Speed Laser Metal Deposition of CrFeCoNi and AlCrFeCoNi HEA Coatings with Narrow Intermixing Zone and their Machining by Turning and Diamond Smoothing. Coatings, 2022, 12, 879.	2.6	7
25	Influence of the finish-machining by turning and diamond smoothing on the tribological properties of Fe ₁₇ Cr ₂ Ni _{0.2} C thermally sprayed coatings. Surface and Coatings Technology, 2021, 405, 126731.	4.8	5
26	Characterization of FeP-based metallic glass coatings prepared with laser cladding. Surface and Coatings Technology, 2021, 405, 126733.	4.8	6
27	Influence of simultaneous Cr ₂ O ₃ and TiO ₂ additions on the microstructure and properties of APS alumina coatings. Surface and Coatings Technology, 2021, 405, 126702.	4.8	18
28	Changes in the Coating Composition Due to APS Process Conditions for Al ₂ O ₃ -Cr ₂ O ₃ -TiO ₂ Ternary Powder Blends. Journal of Thermal Spray Technology, 2021, 30, 168-180.	3.1	4
29	Electrodeposition of Pd alloys from choline chloride/urea deep eutectic solvents. Journal of Alloys and Compounds, 2021, 855, 157462.	5.5	16
30	Deformation, Cracking and Fracture Behavior of Dynamically-Formed Oxide Layers on Molten Metals. Metals and Materials International, 2021, 27, 1701-1712.	3.4	8
31	Influence of Pre-Aging on the Artificial Aging Behavior of a 6056 Aluminum Alloy after Conventional Extrusion. Metals, 2021, 11, 385.	2.3	5
32	Fundamental Investigations in Tool Wear and Characteristics of Surface Microstructure for Ultrasonic Vibration Superimposed Machining of Heat-Treated X46Cr13 Steel Using Different Cutting Materials. Journal of Manufacturing and Materials Processing, 2021, 5, 27.	2.2	2
33	On a Robust and Efficient Numerical Scheme for the Simulation of Stationary 3-Component Systems with Non-Negative Species-Concentration with an Application to the Cu Deposition from a Cu-(l ² -alanine)-Electrolyte. Algorithms, 2021, 14, 113.	2.1	2
34	Irregular Electrodeposition of Cu-Sn Alloy Coatings in [EMIM]Cl Outside the Glove Box with Large Layer Thickness. Coatings, 2021, 11, 310.	2.6	3
35	CoCrFeNi High-Entropy Alloy Thin Films Synthesised by Magnetron Sputter Deposition from Spark Plasma Sintered Targets. Coatings, 2021, 11, 468.	2.6	10
36	Stabilization of the Computation of Stability Constants and Species Distributions from Titration Curves. Computation, 2021, 9, 55.	2.0	3

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37	Artificial aging time influencing the crack propagation behavior of the aluminum alloy 6060 processed by equal channel angular pressing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 811, 141039.	5.6	5
38	Nickel-Aluminum Thermal Spray Coatings as Adhesion Promoter and Susceptor for Inductively Joined Polymer-Metal Hybrids. <i>Polymers</i> , 2021, 13, 1320.	4.5	3
39	Enhancement of the Adhesion of Wire Arc Sprayed Coatings on Carbon Fiber-Reinforced Plastic by Surface Laser Structuring. <i>Coatings</i> , 2021, 11, 467.	2.6	6
40	Formation of corundum-rich alumina coatings on low-carbon steel by plasma electrolytic oxidation. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021, 1147, 012007.	0.6	3
41	High-temperature wear behaviour of borided Inconel 718 HVOF coatings. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021, 1147, 012032.	0.6	1
42	Chemical structure of amino-terminated alkyl silanes influencing the strength of aluminum-polyamide joints. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021, 1147, 012015.	0.6	1
43	Influence of metal matrix powder size on the tensile strength of a SiC _p /AlSi7Mg0,6 composite produced by field assisted sintering technique. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021, 1147, 012020.	0.6	4
44	Suitability of roughness parameters for the interlaminar strength prediction of mechanically interlocked polymer-metal-interfaces. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021, 1147, 012021.	0.6	1
45	High temperature treatment effects on the microstructure and properties of a plasma sprayed 25 mol% Al ₂ O ₃ -25 mol% Cr ₂ O ₃ -50 mol% TiO ₂ coating. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021, 1147, 012029.	0.6	0
46	Electrochemical testing of thermal spray coatings using gel electrolytes. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021, 1147, 012031.	0.6	2
47	Influence of the production route on the phase formation, microstructure and wear behaviour of the high-entropy alloy AlCoCrFeNiTi0.5. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021, 1147, 012009.	0.6	0
48	Conversion layers by plasma-electrolytic oxidation of aluminum in acrylate and benzoate electrolytes. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021, 1147, 012005.	0.6	0
49	Advanced corrosion resistant cylinder-bore coatings. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021, 1147, 012034.	0.6	1
50	Electrodeposition of FeCrNi and FeCr alloys and influence of heat treatment on microstructure and composition. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021, 1147, 012003.	0.6	2
51	Electrolyte design and characterization of REACh-compliant Zn-W and Zn-W-Cu electrodeposits. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021, 1147, 012004.	0.6	1
52	Experimental and Numerical Investigations into Magnetic Pulse Welding of Aluminum Alloy 6016 to Hardened Steel 22MnB5. <i>Journal of Manufacturing and Materials Processing</i> , 2021, 5, 66.	2.2	8
53	Jominy End Quench Test of Martensitic Stainless Steel X30Cr13. <i>Metals</i> , 2021, 11, 1071.	2.3	2
54	Study on the Characteristics of a TBC System Containing a PVD-Al Interlayer under Isothermal Loading. <i>Coatings</i> , 2021, 11, 887.	2.6	6

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55	Influence of Thermochemical Treatment on the Surface Properties of Finish Turned Wire Arc Sprayed 17Cr Steel Coatings. Applied Sciences (Switzerland), 2021, 11, 6520.	2.5	2
56	Galvanic deposited Ni-Ir electrocatalyst for electrolyzers. Materials Letters, 2021, 297, 129820.	2.6	7
57	How to create a Ni-free corrosion protecting deposit on basis of ZnFe-X. Transactions of the Institute of Metal Finishing, 2021, 99, 227-230.	1.3	1
58	Coupled experimental and simulative investigation of the influence of polymer moisture content on the strength of amino-silane-mediated aluminum polyamide 6 joints. International Journal of Adhesion and Adhesives, 2021, 109, 102906.	2.9	1
59	Review of plasma electrolytic oxidation of titanium substrates: Mechanism, properties, applications and limitations. Applied Surface Science Advances, 2021, 5, 100121.	6.8	126
60	Texture orientation, morphology and performance of nanocrystalline nickel coatings electrodeposited from a Watts-type bath: Effects of H3BO3 concentration and plating time. Surface and Coatings Technology, 2021, 424, 127648.	4.8	30
61	Hybridprofile für Trag- und Crashstrukturen. , 2021, , 121-203.		0
62	Microstructure and Wear Behavior of the High-Velocity-Oxygen-Fuel Sprayed and Spark Plasma Sintered High-Entropy Alloy AlCrFeCoNi. Advanced Engineering Materials, 2021, 23, 2001253.	3.5	26
63	Analytical Model to Calculate the Grain Size of Bulk Material Based on Its Electrical Resistance. Metals, 2021, 11, 21.	2.3	3
64	On the Q&P Potential of a Commercial Spring Steel. Metals, 2021, 11, 1612.	2.3	1
65	Influence of Pre-Aging on the Hardness and Formability of a Thread Rolled 6056 Aluminum Alloy after Conventional Extrusion and Artificial Aging. Journal of Manufacturing and Materials Processing, 2021, 5, 116.	2.2	0
66	Boriding of Laser-Clad Inconel 718 Coatings for Enhanced Wear Resistance. Applied Sciences (Switzerland), 2021, 11, 11935.	2.5	14
67	Finish Turning of FeCr17Ni2C0.2 Iron-based Sprayed Coatings: Influences of Substrate Preparation, Cutting Speed and Feed on the Coating and Surface Properties. Journal of Thermal Spray Technology, 2020, 29, 308-318.	3.1	6
68	High-temperature wear behaviour of AlCoCrFeNiTi0.5 coatings produced by HVOF. Surface and Coatings Technology, 2020, 403, 126379.	4.8	41
69	Boriding of HVOF-sprayed Inconel 625 coatings. Surface and Coatings Technology, 2020, 404, 126456.	4.8	10
70	Microstructural Characterization of Quenched and Partitioned commercial Medium Carbon Steel. IOP Conference Series: Materials Science and Engineering, 2020, 882, 012025.	0.6	1
71	Introduction to Plasma Electrolytic Oxidation—An Overview of the Process and Applications. Coatings, 2020, 10, 628.	2.6	163
72	Thermomechanical Treatment of Martensitic Stainless Steels Sheets and Its Effects on Their Deep Drawability and Resulting Hardness in Press Hardening. Metals, 2020, 10, 1536.	2.3	3

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73	Equal-channel angular pressing influencing the mean stress sensitivity in the high cycle fatigue regime of the 6082 aluminum alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 795, 140014.	5.6	15
74	Precipitation Hardening of the HVOF Sprayed Single-Phase High-Entropy Alloy CrFeCoNi. <i>Coatings</i> , 2020, 10, 701.	2.6	19
75	Experimental and Numerical Assessment of the Hot Sheet Formability of Martensitic Stainless Steels. <i>Journal of Manufacturing and Materials Processing</i> , 2020, 4, 122.	2.2	3
76	Designing (Ultra)Fine-Grained High-Entropy Alloys by Spark Plasma Sintering and Equal-Channel Angular Pressing. <i>Crystals</i> , 2020, 10, 1157.	2.2	8
77	Measurement system based on the Seebeck effect for the determination of temperature and tool wear during turning of aluminum alloys. <i>Procedia CIRP</i> , 2020, 93, 1435-1441.	1.9	13
78	Characterisation Method of the Passivation Mechanisms during the pre-discharge Stage of Plasma Electrolytic Oxidation Indicating the Mode of Action of Fluorides in PEO of Magnesium. <i>Coatings</i> , 2020, 10, 965.	2.6	9
79	Introducing Fractal Dimension for Interlaminar Shear and Tensile Strength Assessment of Mechanically Interlocked Polymer-Metal Interfaces. <i>Materials</i> , 2020, 13, 2171.	2.9	16
80	Influence of the cutting parameters on the surface properties in turning of a thermally sprayed AlCoCrFeNiTi coating. <i>Procedia CIRP</i> , 2020, 87, 19-24.	1.9	13
81	Simultaneous Electrodeposition of Silver and Tungsten from [EMIm]Cl:AlCl ₃ Ionic Liquids outside the Glove Box. <i>Coatings</i> , 2020, 10, 553.	2.6	1
82	Method for process monitoring of surface layer changes in turning of aluminium alloys using tools with a flank face chamfer. <i>Procedia CIRP</i> , 2020, 87, 432-437.	1.9	5
83	Microstructure and Sliding Wear Resistance of Plasma Sprayed Al ₂ O ₃ -Cr ₂ O ₃ -TiO ₂ Ternary Coatings from Blends of Single Oxides. <i>Coatings</i> , 2020, 10, 42.	2.6	15
84	CFD Enhanced Thermal Spray Process for Coating of Cylinder Bores of Car Engines. <i>Journal of Thermal Spray Technology</i> , 2020, 29, 546-559.	3.1	9
85	Wear and Corrosion Behaviour of Supersaturated Surface Layers in the High-Entropy Alloy Systems CrMnFeCoNi and CrFeCoNi. <i>Crystals</i> , 2020, 10, 110.	2.2	16
86	Surface modification for corrosion resistance of electric conductive metal surfaces with plasma electrolytic polishing. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	1
87	Pitting corrosion behavior of a laser hardened, high-alloyed steel. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 480, 012018.	0.6	1
88	Investigation of surface properties in turn milling of particle-reinforced aluminium matrix composites using MCD-tipped tools. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 105, 937-950.	3.0	8
89	High-Temperature Wear Behaviour of Spark Plasma Sintered AlCoCrFeNiTi _{0.5} High-Entropy Alloy. <i>Entropy</i> , 2019, 21, 582.	2.2	28
90	Pulse plating of Pd-Ag alloy films from deep eutectic solvents. <i>Surface Engineering</i> , 2019, 35, 1081-1087.	2.2	6

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91	Influencing the Properties of the Generated Surface by Adjusted Rake and Clearance Angles in Side Milling of Aluminum Matrix Composites with MCD-Tipped Tools. Journal of Manufacturing and Materials Processing, 2019, 3, 59.	2.2	1
92	Mechanically induced grain refinement, recovery and recrystallization of cold-sprayed iron aluminide coatings. Surface and Coatings Technology, 2019, 380, 125069.	4.8	12
93	Effect of Metal Surface Topography on the Interlaminar Shear and Tensile Strength of Aluminum/Polyamide 6 Polymer-Metal-Hybrids. Materials, 2019, 12, 2963.	2.9	18
94	A comparative study of oxidation kinetics and thermal cyclic performance of thermal barrier coatings (TBCs). Surface and Coatings Technology, 2019, 371, 47-67.	4.8	21
95	Effect of Adjusted Gas Nitriding Parameters on Microstructure and Wear Resistance of HVOF-Sprayed AISI 316L Coatings. Materials, 2019, 12, 1760.	2.9	13
96	Quasi-static and fatigue bending behavior of a continuous fiber-reinforced thermoplastic/metal laminate. Composites Part B: Engineering, 2019, 174, 107043.	12.0	27
97	Mechanisms of fatigue crack propagation in a Q&P-processed steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 754, 18-28.	5.6	15
98	Influence of the heat-treatment prior to plastic deformation on the aging behavior and the hardness of the aluminum alloy 6056. IOP Conference Series: Materials Science and Engineering, 2019, 480, 012031.	0.6	3
99	Thermally induced morphology changes of wire arc sprayed copper and corrosion-resistant steel (316L). IOP Conference Series: Materials Science and Engineering, 2019, 480, 012010.	0.6	0
100	Neural network for prediction of hardness profiles for steel alloys after plasma nitriding. IOP Conference Series: Materials Science and Engineering, 2019, 480, 012019.	0.6	1
101	Mean stress sensitivity of the fatigue strength after equal-channel angular pressing of the aluminum alloys 6082 and 6060. IOP Conference Series: Materials Science and Engineering, 2019, 480, 012032.	0.6	1
102	Surface inspection of joint areas by means of laser-induced breakdown spectroscopy. IOP Conference Series: Materials Science and Engineering, 2019, 480, 012006.	0.6	2
103	Concepts for interface engineering and characterization in composite hybrid structures. IOP Conference Series: Materials Science and Engineering, 2019, 480, 012014.	0.6	5
104	Influence of SiC particle volume fraction and texture on the surface properties in milling of AMCs with MCD-tipped tools. Procedia CIRP, 2019, 85, 90-95.	1.9	2
105	Strain-rate sensitive ductility in a low-alloy carbon steel after quenching and partitioning treatment. Scientific Reports, 2019, 9, 17023.	3.3	9
106	Hydrogen embrittlement of a quenching and partitioning steel during corrosion and zinc electroplating. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 744, 247-254.	5.6	15
107	Characterization of thermally sprayed copper and numerically supported residual stress determination by the incremental hole-drilling method. Surface and Coatings Technology, 2019, 371, 255-261.	4.8	4
108	Determination of the strength of polymer-metal interfaces under mixed mode loading using butt-bonded hollow cylinders. International Journal of Adhesion and Adhesives, 2019, 89, 30-39.	2.9	5

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109	Surface hardening of FCC phase high-entropy alloy system by powder-pack boriding. Surface and Coatings Technology, 2019, 371, 389-394.	4.8	51
110	SURFACE INTEGRITY IN TURNING OF FE17CR2NI0.2C IRON BASED THERMALLY SPRAYED COATINGS WITH SPECIAL RESPECT TO THE INFLUENCE OF THE FEED. MM Science Journal, 2019, 2019, 3220-3227.	0.4	7
111	Mechanical test procedures for the evaluation of hydrogen-assisted damage in high-strength steel. Materialpruefung/Materials Testing, 2019, 61, 1061-1071.	2.2	1
112	Characterization Methods for Solid Thermal Interface Materials. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2018, 8, 1024-1031.	2.5	13
113	Residual-stress evolution of cold-rolled DC04 steel sheets for different initial stress states. Finite Elements in Analysis and Design, 2018, 144, 76-83.	3.2	11
114	Essential Factors Influencing the Bonding Strength of Cold-Sprayed Aluminum Coatings on Ceramic Substrates. Journal of Thermal Spray Technology, 2018, 27, 446-455.	3.1	27
115	A process and load adjusted coating system for metallic inserts in hybrid composites. Production Engineering, 2018, 12, 249-257.	2.3	6
116	The Potential of EBSD and EDS for Ceramics Investigations – Case Studies on Sherds of Pre-Columbian Pottery. Archaeometry, 2018, 60, 489-501.	1.3	2
117	Temperature and Particle Size Influence on the High Cycle Fatigue Behavior of the SiC Reinforced 2124 Aluminum Alloy. Metals, 2018, 8, 43.	2.3	8
118	Influence of dovetail microstructures on adhesive tensile strength and morphology of thermally sprayed metal coatings. Procedia CIRP, 2018, 71, 299-304.	1.9	4
119	Hardening of HVOF-Sprayed Austenitic Stainless-Steel Coatings by Gas Nitriding. Coatings, 2018, 8, 348.	2.6	17
120	Enhanced Wear Behaviour of Spark Plasma Sintered AlCoCrFeNiTi High-Entropy Alloy Composites. Materials, 2018, 11, 2225.	2.9	21
121	Thermal Spray Coatings as an Adhesion Promoter in Metal/FRP Joints. Metals, 2018, 8, 769.	2.3	8
122	Phase Stability and Microstructure Evolution of Solution-Hardened 316L Powder Feedstock for Thermal Spraying. Metals, 2018, 8, 1063.	2.3	8
123	Characteristics of dynamically-formed surface oxide layers on molten zinc-aluminum alloys: A multimodality approach. Thin Solid Films, 2018, 667, 34-39.	1.8	16
124	Influence of Titanium on Microstructure, Phase Formation and Wear Behaviour of AlCoCrFeNiTi High-Entropy Alloy. Entropy, 2018, 20, 505.	2.2	68
125	Heat treatment condition of EN AW-7075 influencing the anodic oxidation process and coating properties. IOP Conference Series: Materials Science and Engineering, 2018, 373, 012021.	0.6	1
126	The room temperature tensile deformation behavior of thermomechanically processed β -metastable Ti-Nb-Ta-Zr bio-alloy: the role of deformation-induced martensite. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 738, 15-23.	5.6	19

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127	Nondestructive analysis of pitting corrosion characteristics on EN AW-2024-T3 using 3D optical pattern profilometry. Corrosion Engineering Science and Technology, 2018, 53, 194-198.	1.4	5
128	Adapted diffusion processes for effective forging dies. AIP Conference Proceedings, 2018, , .	0.4	3
129	High cycle fatigue behavior of the severely plastically deformed 6082 aluminum alloy with an anodic and plasma electrolytic oxide coating. Surface and Coatings Technology, 2018, 349, 576-583.	4.8	28
130	Corrosion characteristics of a quenching and partitioning steel determined by electrochemical impedance spectroscopy. IOP Conference Series: Materials Science and Engineering, 2018, 373, 012003.	0.6	8
131	Design of high strength polymer metal interfaces by laser microstructured surfaces. IOP Conference Series: Materials Science and Engineering, 2018, 373, 012015.	0.6	9
132	Microstructural Evolution during Severe Plastic Deformation by Gradation Extrusion. Metals, 2018, 8, 96.	2.3	16
133	Effect of Nitric and Oxalic Acid Addition on Hard Anodizing of AlCu4Mg1 in Sulphuric Acid. Metals, 2018, 8, 139.	2.3	11
134	Plasma Electrolytic Oxidation of High-Strength Aluminium Alloysâ€”Substrate Effect on Wear and Corrosion Performance. Metals, 2018, 8, 356.	2.3	35
135	Electrodeposition and characterisation of Al-W alloy films from ionic liquid. IOP Conference Series: Materials Science and Engineering, 2018, 373, 012007.	0.6	5
136	Cobalt and manganese carboxylates for metal oxide thin film deposition by applying the atmospheric pressure combustion chemical vapour deposition process. RSC Advances, 2018, 8, 15632-15640.	3.6	15
137	Oxidation behavior of thermal barrier coating systems with Al interlayer under isothermal loading. IOP Conference Series: Materials Science and Engineering, 2018, 373, 012010.	0.6	3
138	Electrolyte influence on ignition of plasma electrolytic oxidation processes on light metals. Surface and Coatings Technology, 2017, 315, 205-213.	4.8	55
139	Co(II) ethylene glycol carboxylates for Co3O4 nanoparticle and nanocomposite formation. Journal of Materials Science, 2017, 52, 6697-6711.	3.7	13
140	The microstructural studies of suspension plasma sprayed zirconia coatings with the use of high-energy plasma torches. Surface and Coatings Technology, 2017, 318, 250-261.	4.8	22
141	Local heteroepitaxy as an adhesion mechanism in aluminium coatings cold gas sprayed on AlN substrates. Acta Materialia, 2017, 128, 418-427.	7.9	26
142	Composition of highly concentrated silicate electrolytes and ultrasound influencing the plasma electrolytic oxidation of magnesium. IOP Conference Series: Materials Science and Engineering, 2017, 181, 012040.	0.6	3
143	Evaluation of characterization methods for solid thermal interface materials. , 2017, , .		6
144	Electrochemical deposition of iridium and iridium-nickel-alloys. IOP Conference Series: Materials Science and Engineering, 2017, 181, 012041.	0.6	12

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145	Processing of AlCoCrFeNiTi high entropy alloy by atmospheric plasma spraying. IOP Conference Series: Materials Science and Engineering, 2017, 181, 012015.	0.6	27
146	Detection and Prediction of Corrosion-Affecting Parameters in Cold Flat Rolling Processes. Procedia Engineering, 2017, 184, 22-29.	1.2	0
147	A numerical and experimental comparison of test methods for the shear strength in hybrid metal/thermoplastic-compounds. IOP Conference Series: Materials Science and Engineering, 2017, 181, 012031.	0.6	7
148	The Interface of an Intrinsic Hybrid Composite " Development, Production and Characterisation. Procedia CIRP, 2017, 66, 289-293.	1.9	10
149	Archaeometric case studies on decorations of pre-Columbian pottery using X-ray spectroscopy maps and profiles. Materialwissenschaft Und Werkstofftechnik, 2017, 48, 485-494.	0.9	0
150	An experimental study on optimum lubrication for large-scale severe plastic deformation of aluminum-based alloys. Journal of Materials Processing Technology, 2017, 239, 222-229.	6.3	31
151	Evaluation of the bonding behaviour of thin bio-based wooden laminates. Materialwissenschaft Und Werkstofftechnik, 2017, 48, 1173-1180.	0.9	1
152	Localised anodic oxidation of aluminium material using a continuous electrolyte jet. IOP Conference Series: Materials Science and Engineering, 2017, 181, 012042.	0.6	6
153	Experimental and numerical investigation of the residual yield strength of aluminium alloy EN AW-2024-T3 affected by artificially produced pitting corrosion. IOP Conference Series: Materials Science and Engineering, 2017, 181, 012023.	0.6	1
154	Macromechanical finite-element simulations for predicting microstructures by experimental calibration. IOP Conference Series: Materials Science and Engineering, 2017, 181, 012036.	0.6	2
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