

Thomas Lampke

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

298
papers

3,102
citations

25
h-index

45
g-index

306
ext. papers

3,697
ext. citations

2.2
avg, IF

5.55
L-index

#	Paper	IF	Citations
298	Surface characterization of flax, hemp and cellulose fibers; Surface properties and the water uptake behavior. <i>Polymer Composites</i> , 2002 , 23, 872-894	3	291
297	Processing of natural-fibre reinforced polymers and the resulting dynamic mechanical properties. <i>Journal of Materials Processing Technology</i> , 2003 , 139, 140-146	5.3	132
296	Wetting behavior of flax fibers as reinforcement for polypropylene. <i>Journal of Colloid and Interface Science</i> , 2003 , 263, 580-9	9.3	124
295	Interface behaviour in nickel composite coatings with nano-particles of oxidic ceramic. <i>Electrochimica Acta</i> , 2003 , 48, 3063-3070	6.7	120
294	Formation of intermetallic phases in diffusion-welded joints of aluminium and magnesium alloys. <i>Journal of Materials Science</i> , 2011 , 46, 357-364	4.3	98
293	Details of crystalline growth in co-deposited electroplated nickel films with hard (nano)particles. <i>Applied Surface Science</i> , 2006 , 253, 2399-2408	6.7	89
292	Correlation between structure and corrosion behaviour of nickel dispersion coatings containing ceramic particles of different sizes. <i>Surface and Coatings Technology</i> , 2006 , 201, 3510-3517	4.4	80
291	Post-treatment of thermal spray coatings on magnesium. <i>Surface and Coatings Technology</i> , 2008 , 202, 4515-4524	4.4	76
290	Introduction to Plasma Electrolytic Oxidation—An Overview of the Process and Applications. <i>Coatings</i> , 2020 , 10, 628	2.9	67
289	Plant Fibers as Reinforcement for Green Composites 2005 ,		64
288	Methods to determine surface energies of natural fibres: a review. <i>Composite Interfaces</i> , 2007 , 14, 581-604		61
287	Mechanical properties and corrosion behaviour of ultrafine-grained AA6082 produced by equal-channel angular pressing. <i>Journal of Materials Science</i> , 2008 , 43, 7409-7417	4.3	59
286	Microstructure and Wear Resistance of AlCoCrFeNiTi High-Entropy Alloy Coatings Produced by HVOF. <i>Coatings</i> , 2017 , 7, 144	2.9	43
285	Influence of precipitates on low-cycle fatigue and crack growth behavior in an ultrafine-grained aluminum alloy. <i>Acta Materialia</i> , 2014 , 80, 250-263	8.4	41
284	Advanced Microscopic Study of Suspension Plasma-Sprayed Zirconia Coatings with Different Microstructures. <i>Journal of Thermal Spray Technology</i> , 2016 , 25, 94-104	2.5	36
283	Electrolyte influence on ignition of plasma electrolytic oxidation processes on light metals. <i>Surface and Coatings Technology</i> , 2017 , 315, 205-213	4.4	35
282	Influence of Titanium on Microstructure, Phase Formation and Wear Behaviour of AlCoCrFeNiTi High-Entropy Alloy. <i>Entropy</i> , 2018 , 20,	2.8	35

281	Cavitation erosion of electroplated nickel composite coatings. <i>Surface and Coatings Technology</i> , 2008 , 202, 3967-3974	4.4	33
280	Anodizing – A Key for Surface Treatment of Aluminium. <i>Key Engineering Materials</i> , 2008 , 384, 263-281	0.4	32
279	Alumina coatings obtained by thermal spraying and plasma anodising – A comparison. <i>Surface and Coatings Technology</i> , 2011 , 206, 2012-2016	4.4	30
278	Splat Formation and Adhesion Mechanisms of Cold Gas-Sprayed Al Coatings on Al ₂ O ₃ Substrates. <i>Journal of Thermal Spray Technology</i> , 2014 , 23, 68-75	2.5	27
277	Development of particle-reinforced nanostructured iron-based composite alloys for thermal spraying. <i>Surface and Coatings Technology</i> , 2011 , 205, 3671-3676	4.4	27
276	Advanced Microstructural Study of Suspension Plasma Sprayed Hydroxyapatite Coatings. <i>Journal of Thermal Spray Technology</i> , 2010 , 19, 657-664	2.5	27
275	Wear-resistant coatings on aluminium produced by plasma anodising – A correlation of wear properties, microstructure, phase composition and distribution. <i>Surface and Coatings Technology</i> , 2014 , 240, 96-102	4.4	26
274	Review of plasma electrolytic oxidation of titanium substrates: Mechanism, properties, applications and limitations. <i>Applied Surface Science Advances</i> , 2021 , 5, 100121	2.6	26
273	Surface hardening of FCC phase high-entropy alloy system by powder-pack boriding. <i>Surface and Coatings Technology</i> , 2019 , 371, 389-394	4.4	25
272	An experimental study on optimum lubrication for large-scale severe plastic deformation of aluminum-based alloys. <i>Journal of Materials Processing Technology</i> , 2017 , 239, 222-229	5.3	24
271	Microstructural Features and Mechanical Properties after Industrial Scale ECAP of an Al 6060 Alloy. <i>Materials Science Forum</i> , 2010 , 667-669, 1153-1158	0.4	24
270	Advanced microstructural study of suspension plasma sprayed titanium oxide coatings. <i>Surface and Coatings Technology</i> , 2008 , 202, 3723-3731	4.4	23
269	Effect of additive and current mode on surface morphology of palladium films from a non-aqueous deep eutectic solution (DES). <i>Journal of Applied Electrochemistry</i> , 2013 , 43, 1207-1216	2.6	22
268	Electrodeposition of palladium films from ionic liquid (IL) and deep eutectic solutions (DES): physical-chemical characterisation of non-aqueous electrolytes and surface morphology of palladium deposits. <i>Transactions of the Institute of Metal Finishing</i> , 2013 , 91, 133-140	1.3	22
267	Codeposition of Cerium Oxide With Nickel and Cobalt: Correlation Between Microstructure And Microhardness. <i>Surface Engineering</i> , 2004 , 20, 353-359	2.6	22
266	Essential Factors Influencing the Bonding Strength of Cold-Sprayed Aluminum Coatings on Ceramic Substrates. <i>Journal of Thermal Spray Technology</i> , 2018 , 27, 446-455	2.5	21
265	Corrosion and wear behavior of alumina coatings obtained by various methods. <i>Materials Science</i> , 2011 , 46, 591-598	0.7	21
264	Local heteroepitaxy as an adhesion mechanism in aluminium coatings cold gas sprayed on AlN substrates. <i>Acta Materialia</i> , 2017 , 128, 418-427	8.4	20

263	The microstructural studies of suspension plasma sprayed zirconia coatings with the use of high-energy plasma torches. <i>Surface and Coatings Technology</i> , 2017 , 318, 250-261	4.4	19
262	Processing of AlCoCrFeNiTi high entropy alloy by atmospheric plasma spraying. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 181, 012015	0.4	18
261	The role of backpressure during large scale Equal-Channel Angular Pressing. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2012 , 43, 668-672	0.9	18
260	Electroplated Nickel Composites with Micron- to Nano-Sized Particles. <i>Key Engineering Materials</i> , 2008 , 384, 283-309	0.4	18
259	In-plane biaxial compression and tension testing of thin sheet materials. <i>International Journal of Solids and Structures</i> , 2015 , 66, 111-120	3.1	17
258	Plasma Electrolytic Oxidation of High-Strength Aluminium Alloys Substrate Effect on Wear and Corrosion Performance. <i>Metals</i> , 2018 , 8, 356	2.3	17
257	Effect of Strain Localization on Pitting Corrosion of an AlMgSi0.5 Alloy. <i>Metals</i> , 2015 , 5, 172-191	2.3	17
256	High cycle fatigue behavior of the severely plastically deformed 6082 aluminum alloy with an anodic and plasma electrolytic oxide coating. <i>Surface and Coatings Technology</i> , 2018 , 349, 576-583	4.4	17
255	The Phase Composition and Microstructure of AlxCoCrFeNiTi Alloys for the Development of High-Entropy Alloy Systems. <i>Metals</i> , 2017 , 7, 162	2.3	16
254	PETRIFACTIONS AND WOOD-TEMPLATED CERAMICS: COMPARISONS BETWEEN NATURAL AND ARTIFICIAL SILICIFICATION. <i>IAWA Journal</i> , 2015 , 36, 167-185	2.3	16
253	High-strength aluminum-based light-weight materials for safety components Recent progress by microstructural refinement and particle reinforcement. <i>International Journal of Materials Research</i> , 2012 , 103, 3-11	0.5	16
252	Quasi-static and fatigue bending behavior of a continuous fiber-reinforced thermoplastic/metal laminate. <i>Composites Part B: Engineering</i> , 2019 , 174, 107043	10	15
251	Accelerated ageing of plastic jacket pipes for district heating. <i>Polymer Testing</i> , 2016 , 51, 142-147	4.5	15
250	High-Temperature Wear Behaviour of Spark Plasma Sintered AlCoCrFeNiTi High-Entropy Alloy. <i>Entropy</i> , 2019 , 21,	2.8	15
249	IDENTIFICATION OF FORGERIES BY MEASURING TIN ISOTOPES IN CORRODED BRONZE OBJECTS*. <i>Archaeometry</i> , 2012 , 54, 167-174	1.6	15
248	Novel Adhesion Promoter for MetalPlastic Composites. <i>Advanced Engineering Materials</i> , 2015 , 17, 802-809	9.5	14
247	A microstructure study on silicified wood from the Permian Petrified Forest of Chemnitz. <i>Palaontologische Zeitschrift</i> , 2013 , 87, 397-407	1.2	14
246	Ultrasound technique as a tool for high-rate incorporation of Al ₂ O ₃ in NiCo layers. <i>Journal of Solid State Electrochemistry</i> , 2011 , 15, 1041-1048	2.6	14

245	Influence of strain gradients on the grain refinement during industrial scale ECAP. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2011 , 42, 680-685	0.9	14
244	Erfassung von Effekten beim Skalieren von ECAP am Beispiel einer 6000er Aluminiumlegierung. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2010 , 41, 814-821	0.9	14
243	High-temperature wear behaviour of AlCoCrFeNiTi0.5 coatings produced by HVOF. <i>Surface and Coatings Technology</i> , 2020 , 403, 126379	4.4	14
242	Hardening of HVOF-Sprayed Austenitic Stainless-Steel Coatings by Gas Nitriding. <i>Coatings</i> , 2018 , 8, 348	2.9	14
241	Effect of Metal Surface Topography on the Interlaminar Shear and Tensile Strength of Aluminum/Polyamide 6 Polymer-Metal-Hybrids. <i>Materials</i> , 2019 , 12,	3.5	13
240	Microstructural evolution in the bonding zones of co-extruded aluminium/titanium. <i>Journal of Materials Science</i> , 2014 , 49, 2442-2455	4.3	13
239	The room temperature tensile deformation behavior of thermomechanically processed metastable Ti-Nb-Ta-Zr bio-alloy: the role of deformation-induced martensite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 738, 15-23	5.3	13
238	A comparative study of oxidation kinetics and thermal cyclic performance of thermal barrier coatings (TBCs). <i>Surface and Coatings Technology</i> , 2019 , 371, 47-67	4.4	12
237	Microstructural Evolution during Severe Plastic Deformation by Gradation Extrusion. <i>Metals</i> , 2018 , 8, 96	2.3	12
236	The role of interface modification on the mechanical properties of injection-moulded composites from commingled polypropylene/banana granules. <i>Composite Interfaces</i> , 2007 , 14, 849-867	2.3	12
235	Enhanced Wear Behaviour of Spark Plasma Sintered AlCoCrFeNiTi High-Entropy Alloy Composites. <i>Materials</i> , 2018 , 11,	3.5	12
234	Introducing Fractal Dimension for Interlaminar Shear and Tensile Strength Assessment of Mechanically Interlocked Polymer-Metal Interfaces. <i>Materials</i> , 2020 , 13,	3.5	11
233	Cobalt and manganese carboxylates for metal oxide thin film deposition by applying the atmospheric pressure combustion chemical vapour deposition process.. <i>RSC Advances</i> , 2018 , 8, 15632-15640	3.7	11
232	The coupled temperature-strain rate sensitivity of Ti ₂₉ Nb ₁₃ Ta _{4.6} Zr alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 610, 258-262	5.3	11
231	Evolution of Microstructure of Cold-Spray Aluminum Coatings on Al ₂ O ₃ Substrates. <i>Advanced Engineering Materials</i> , 2012 , 14, 275-278	3.5	11
230	Simultaneous plasma-electrolytic anodic oxidation (PAO) of AlMg compounds. <i>Surface and Coatings Technology</i> , 2011 , 206, 1085-1090	4.4	11
229	Wear and Corrosion Behaviour of Supersaturated Surface Layers in the High-Entropy Alloy Systems CrMnFeCoNi and CrFeCoNi. <i>Crystals</i> , 2020 , 10, 110	2.3	11
228	Multi-Stage Silicification of Pliocene Wood: Re-Examination of an 1895 Discovery from Idaho, USA. <i>Geosciences (Switzerland)</i> , 2016 , 6, 21	2.7	11

227	Electrochemical deposition of iridium and iridium-nickel-alloys. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 181, 012041	0.4	10
226	Effect of new adhesion promoter and mechanical interlocking on bonding strength in metal-polymer composites. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016 , 118, 012041	0.4	10
225	Corrosion Characteristics of an Ultrafine-Grained Al-Mg-Si Alloy (AA6082). <i>Materials Science Forum</i> , 2008 , 584-586, 988-993	0.4	10
224	Development and characterization of sol-gel composite coatings on aluminum alloys for corrosion protection. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2008 , 39, 914-919	0.9	10
223	Precipitation Hardening of the HVOF Sprayed Single-Phase High-Entropy Alloy CrFeCoNi. <i>Coatings</i> , 2020 , 10, 701	2.9	10
222	Influence of simultaneous Cr ₂ O ₃ and TiO ₂ additions on the microstructure and properties of APS alumina coatings. <i>Surface and Coatings Technology</i> , 2021 , 405, 126702	4.4	10
221	Microstructure and Wear Behavior of the High-Velocity-Oxygen-Fuel Sprayed and Spark Plasma Sintered High-Entropy Alloy AlCrFeCoNi. <i>Advanced Engineering Materials</i> , 2021 , 23, 2001253	3.5	10
220	Effect of Adjusted Gas Nitriding Parameters on Microstructure and Wear Resistance of HVOF-Sprayed AISI 316L Coatings. <i>Materials</i> , 2019 , 12,	3.5	9
219	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	1.8	9
218	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	2.9	9
217	Characterization Methods for Solid Thermal Interface Materials. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2018 , 8, 1024-1031	1.7	9
216	Residual-stress evolution of cold-rolled DC04 steel sheets for different initial stress states. <i>Finite Elements in Analysis and Design</i> , 2018 , 144, 76-83	2.2	9
215	Formation of a Spinel Coating on AZ31 Magnesium Alloy by Plasma Electrolytic Oxidation. <i>Journal of Materials Engineering and Performance</i> , 2016 , 25, 1157-1162	1.6	9
214	In-situ measurement of loading stresses with X-ray diffraction for yield locus determination. <i>International Journal of Automotive Technology</i> , 2014 , 15, 303-316	1.6	9
213	The Interface of an Intrinsic Hybrid Composite Development, Production and Characterisation. <i>Procedia CIRP</i> , 2017 , 66, 289-293	1.8	9
212	Near-Threshold Fatigue Crack Propagation in an ECAP-Processed Ultrafine-Grained Aluminium Alloy. <i>Materials Science Forum</i> , 2010 , 667-669, 873-878	0.4	9
211	Tailored Surfaces by Means of Thermal Spraying and Post-Treatment. <i>Key Engineering Materials</i> , 2008 , 384, 99-116	0.4	9
210	The effect of anodising on the fatigue performance of self-tapping aluminium screws. <i>International Journal of Fatigue</i> , 2015 , 75, 108-114	5	8

209	The effect of anodic oxide coating on the fatigue behaviour of AA6082 with an ultrafine-grained microstructure. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2011 , 42, 624-631	0.9	8
208	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	5.3	8
207	Anodisation of Aluminium Alloys by Micro-Capillary Technique as a Tool for Reliable, Cost-Efficient, and Quick Process Parameter Determination. <i>Advances in Materials Science and Engineering</i> , 2016 , 2016, 1-12	1.5	8
206	Electrodeposition of Pd alloys from choline chloride/urea deep eutectic solvents. <i>Journal of Alloys and Compounds</i> , 2021 , 855, 157462	5.7	8
205	Characteristics of dynamically-formed surface oxide layers on molten zinc/aluminum alloys: A multimodality approach. <i>Thin Solid Films</i> , 2018 , 667, 34-39	2.2	8
204	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	1.8	7
203	Anodic oxidation of the AlCu4Mg1 aluminium alloy with dynamic current control. <i>Surface and Coatings Technology</i> , 2016 , 302, 515-522	4.4	7
202	Corrosion characteristics of a quenching and partitioning steel determined by electrochemical impedance spectroscopy. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 373, 012003	0.4	7
201	The strain accommodation in Ti _{0.8} Nb _{0.2} Ta _{0.5} Zr alloy during warm deformation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 592, 57-63	5.3	7
200	Fatigue crack propagation in an ECAP-processed aluminium alloy Influence of shear plane orientation. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2012 , 43, 609-616	0.9	7
199	Effects of pre-treatment on the growth rate and morphology of hard anodic films on aluminium (EN AW-6082). <i>Surface and Coatings Technology</i> , 2007 , 202, 569-576	4.4	7
198	EBSD und STEM an hochgradig plastisch verformten Aluminiumlegierungen. <i>Praktische Metallographie/Practical Metallography</i> , 2011 , 48, 136-150	0.3	7
197	Plasma electrolytic polishing of metalized carbon fibers. <i>AIMS Materials Science</i> , 2016 , 3, 260-269	1.9	7
196	Hydrogen embrittlement of a quenching and partitioning steel during corrosion and zinc electroplating. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 744, 247-254	5.3	7
195	Phase Stability and Microstructure Evolution of Solution-Hardened 316L Powder Feedstock for Thermal Spraying. <i>Metals</i> , 2018 , 8, 1063	2.3	7
194	Texture orientation, morphology and performance of nanocrystalline nickel coatings electrodeposited from a Watts-type bath: Effects of H ₃ BO ₃ concentration and plating time. <i>Surface and Coatings Technology</i> , 2021 , 424, 127648	4.4	7
193	Co(II) ethylene glycol carboxylates for Co ₃ O ₄ nanoparticle and nanocomposite formation. <i>Journal of Materials Science</i> , 2017 , 52, 6697-6711	4.3	6
192	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	2.9	6

191	A process and load adjusted coating system for metallic inserts in hybrid composites. <i>Production Engineering</i> , 2018 , 12, 249-257	1.9	6
190	Design of high strength polymer metal interfaces by laser microstructured surfaces. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 373, 012015	0.4	6
189	A hardness-microstructure correlation study of anodised powder-metallurgical AlCu alloy composites. <i>Surface and Coatings Technology</i> , 2014 , 242, 118-124	4.4	6
188	Interface Characterization and Bonding Mechanisms of Cold Gas-Sprayed Al Coatings on Ceramic Substrates. <i>Journal of Thermal Spray Technology</i> , 2014 , 24, 92	2.5	6
187	Cost-efficient conversion coatings for corrosion protection prepared by the sol-gel process. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2008 , 39, 460-465	0.9	6
186	SURFACE INTEGRITY IN TURNING OF FE17CR2NI0.2C IRON BASED THERMALLY SPRAYED COATINGS WITH SPECIAL RESPECT TO THE INFLUENCE OF THE FEED. <i>MM Science Journal</i> , 2019 , 2019, 3220-3227	1.9	6
185	Surface modification of austenitic thermal-spray coatings by low-temperature nitrocarburizing. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016 , 118, 012008	0.4	6
184	Finish Turning of FeCr17Ni2C0.2 Iron-based Sprayed Coatings: Influences of Substrate Preparation, Cutting Speed and Feed on the Coating and Surface Properties. <i>Journal of Thermal Spray Technology</i> , 2020 , 29, 308-318	2.5	6
183	Temperature and Particle Size Influence on the High Cycle Fatigue Behavior of the SiC Reinforced 2124 Aluminum Alloy. <i>Metals</i> , 2018 , 8, 43	2.3	6
182	Thermal Spray Coatings as an Adhesion Promoter in Metal/FRP Joints. <i>Metals</i> , 2018 , 8, 769	2.3	6
181	A numerical and experimental comparison of test methods for the shear strength in hybrid metal/thermoplastic-compounds. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 181, 012031	0.4	5
180	Pulse plating of PdAg alloy films from deep eutectic solvents. <i>Surface Engineering</i> , 2019 , 35, 1081-1087	2.6	5
179	Mechanically induced grain refinement, recovery and recrystallization of cold-sprayed iron aluminide coatings. <i>Surface and Coatings Technology</i> , 2019 , 380, 125069	4.4	5
178	Influence of Particulate Reinforcement and Equal-Channel Angular Pressing on Fatigue Crack Growth of an Aluminum Alloy. <i>Metals</i> , 2015 , 5, 790-801	2.3	5
177	Anodic Oxidation of AMCs: Influence of Process Parameters on Coating Formation. <i>Materials Science Forum</i> , 2015 , 825-826, 636-644	0.4	5
176	Effect of different grain sizes and textures on the corrosion behaviour of aluminum alloy AA6082. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2011 , 42, 606-611	0.9	5
175	Einfluss der Mikrostruktur auf das Verschleißverhalten der hartanodisierten Aluminium-legierungen EN AW-6082 und EN AW-7075. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2009 , 40, 523-531	0.9	5
174	Auslegung keramischer Präzisionsgleitlager mit textiler Verstärkungskomponente. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2007 , 38, 79-84	0.9	5

173	Status quo und Trends der Galvanotechnik. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2008 , 39, 52-57	0.9	5
172	Herstellung, Mikrostruktur und Korrosionsverhalten der konventionellen und ultrafeinkörnigen Legierung EN AW-6082. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2008 , 39, 951-953	0.9	5
171	Boriding of HVOF-sprayed Inconel 625 coatings. <i>Surface and Coatings Technology</i> , 2020 , 404, 126456	4.4	5
170	On the development of an intrinsic hybrid composite. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016 , 118, 012017	0.4	5
169	Strain-rate sensitive ductility in a low-alloy carbon steel after quenching and partitioning treatment. <i>Scientific Reports</i> , 2019 , 9, 17023	4.9	5
168	Evaluation of characterization methods for solid thermal interface materials 2017 ,		4
167	Mechanisms of fatigue crack propagation in a Q&P-processed steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 754, 18-28	5.3	4
166	Concepts for interface engineering and characterization in composite hybrid structures. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 480, 012014	0.4	4
165	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	1.8	4
164	Anodic oxidation of AlMgSi1 Coatings mechanical properties, process costs and energy consumption of the oxide formation. <i>Materials and Design</i> , 2016 , 89, 1259-1269	8.1	4
163	Effect of Nitric and Oxalic Acid Addition on Hard Anodizing of AlCu4Mg1 in Sulphuric Acid. <i>Metals</i> , 2018 , 8, 139	2.3	4
162	Electrodeposition and characterisation of Al-W alloy films from ionic liquid. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 373, 012007	0.4	4
161	Localised anodic oxidation of aluminium material using a continuous electrolyte jet. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 181, 012042	0.4	4
160	Comparative Investigation of Hydrogen Embrittlement of Palladium Deposits from Ionic Liquid and Aqueous Electrolyte. <i>Advanced Engineering Materials</i> , 2015 , 17, 167-171	3.5	4
159	Calculation approach for current-potential behaviour during pulse electrodeposition based on double-layer characteristics. <i>Transactions of the Institute of Metal Finishing</i> , 2014 , 92, 325-335	1.3	4
158	Galvanisch vernickelte Kohlenstofffasergewebe zur Herstellung effizienter CFK mit Permeationsbarriere. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2014 , 45, 546-551	0.9	4
157	Electrochemical Properties of AL-6060 Alloy After Industrial-Scale ECAP. <i>Materials Science</i> , 2012 , 48, 191-196	0.7	4
156	Influence of anodic oxide coatings on screwing behaviour and susceptibility to stress corrosion cracking of self-tapping aluminium screws. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2012 , 43, 661-667	0.9	4

155	Investigation of Mechanical and Microstructural Characteristics of AlMg Compounds. <i>Advanced Engineering Materials</i> , 2009 , 11, 568-572	3.5	4
154	Einfluss der Oberflächenveredelung auf die Gewindegeometrie und das Einschraubverhalten selbstfurchender Schrauben der hochfesten Al-Legierung EN AW-7075. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2010 , 41, 807-813	0.9	4
153	Thermal Spraying of Wear and Corrosion Resistant Surfaces. <i>Key Engineering Materials</i> , 2008 , 384, 75-98	0.4	4
152	Mikrostruktur-Untersuchungen zum Schwingungsverschleißverhalten von Nickelkomposit- und Ni-P-Schichten. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2006 , 37, 1039-1048	0.9	4
151	CoCrFeNi High-Entropy Alloy Thin Films Synthesised by Magnetron Sputter Deposition from Spark Plasma Sintered Targets. <i>Coatings</i> , 2021 , 11, 468	2.9	4
150	Multimetallic Electrodeposition on Carbon Fibers. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016 , 118, 012027	0.4	4
149	Determination of the strength of polymer-metal interfaces under mixed mode loading using butt-bonded hollow cylinders. <i>International Journal of Adhesion and Adhesives</i> , 2019 , 89, 30-39	3.4	4
148	Deformation, Cracking and Fracture Behavior of Dynamically-Formed Oxide Layers on Molten Metals. <i>Metals and Materials International</i> , 2021 , 27, 1701-1712	2.4	4
147	Composition of highly concentrated silicate electrolytes and ultrasound influencing the plasma electrolytic oxidation of magnesium. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 181, 012040	0.4	3
146	CFD Enhanced Thermal Spray Process for Coating of Cylinder Bores of Car Engines. <i>Journal of Thermal Spray Technology</i> , 2020 , 29, 546-559	2.5	3
145	Metal-Coated Carbon Fibres for Multifunctional CFRPs. <i>JOT-International Surface Technology</i> , 2014 , 7, 44-45	0.1	3
144	Corrosion Protection of Al/Mg Compounds by Simultaneous Plasma Electrolytic Oxidation. <i>Materials Today: Proceedings</i> , 2015 , 2, S149-S155	1.4	3
143	Co-deposition behavior of alumina nanoparticles and properties of Ni-Al ₂ O ₃ nanocomposite coatings. <i>Surface and Interface Analysis</i> , 2015 , 47, 738-744	1.5	3
142	Experimental and Numerical Determination of Cutting Forces and Temperatures in Gear Hobbing. <i>Key Engineering Materials</i> , 2012 , 504-506, 1275-1280	0.4	3
141	Das tribologische Verhalten von DLC- und Hartstoffschichten in Kontakt mit aluminiumbasierten Werkstoffen. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2010 , 41, 725-729	0.9	3
140	Theoretische und praktische Betrachtungen zur Abscheidung verschiedener Schichttypen am Beispiel von galvanisch Nickel. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2007 , 38, 23-31	0.9	3
139	Processing and properties of natural fiber reinforced semi-finished polymers.. <i>Journal of Advanced Science</i> , 2001 , 13, 137-141	0	3
138	Thermomechanical Treatment of Martensitic Stainless Steels Sheets and Its Effects on Their Deep Drawability and Resulting Hardness in Press Hardening. <i>Metals</i> , 2020 , 10, 1536	2.3	3

137	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	3
136	The effect of plasma electrolytic oxidation on the mean stress sensitivity of the fatigue life of the 6082 aluminum alloy. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016 , 118, 012033	0.4	3
135	Deformation behavior of FRP-metal composites locally reinforced with carbon fibers. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016 , 118, 012040	0.4	3
134	Influence of the finish-machining by turning and diamond smoothing on the tribological properties of Fe17Cr2Ni0.2C thermally sprayed coatings. <i>Surface and Coatings Technology</i> , 2021 , 405, 126731	4.4	3
133	Characterization of FeP-based metallic glass coatings prepared with laser cladding. <i>Surface and Coatings Technology</i> , 2021 , 405, 126733	4.4	3
132	Changes in the Coating Composition Due to APS Process Conditions for Al ₂ O ₃ -Cr ₂ O ₃ -TiO ₂ Ternary Powder Blends. <i>Journal of Thermal Spray Technology</i> , 2021 , 30, 168-180	2.5	3
131	Nondestructive analysis of pitting corrosion characteristics on EN AW-2024-T3 using 3D optical pattern profilometry. <i>Corrosion Engineering Science and Technology</i> , 2018 , 53, 194-198	1.7	3
130	Amino Group Bearing Organic-Inorganic Hybrid Materials for Joining Aluminum Alloys and Thermoplastic Fiber-Reinforced Parts. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1601115	4.6	3
129	Influence of the heat-treatment prior to plastic deformation on the aging behavior and the hardness of the aluminum alloy 6056. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 480, 012031	0.4	2
128	Surface inspection of joint areas by means of laser-induced breakdown spectroscopy. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 480, 012006	0.4	2
127	Separation of Corrosion-affecting Parameters of Formed Products – A New Strategy Using X-ray Diffraction and Corrosion Tests Under in-situ Tensile Load. <i>Materials Today: Proceedings</i> , 2015 , 2, S141-S148	1.6	2
126	Analytical methods to characterize heterogeneous raw material for thermal spray process: cored wire Inconel 625. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016 , 118, 012009	0.4	2
125	Designing (Ultra)Fine-Grained High-Entropy Alloys by Spark Plasma Sintering and Equal-Channel Angular Pressing. <i>Crystals</i> , 2020 , 10, 1157	2.3	2
124	The Potential of EBSD and EDS for Ceramics Investigations – Case Studies on Sherds of Pre-Columbian Pottery. <i>Archaeometry</i> , 2018 , 60, 489-501	1.6	2
123	Plasma electrolytic oxidation of Titanium Aluminides. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016 , 118, 012025	0.4	2
122	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	3.2	2
121	Macromechanical finite-element simulations for predicting microstructures by experimental calibration. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 181, 012036	0.4	2
120	Influence of the heat treatment condition of alloy AlCu4Mg1 on the microstructure and properties of anodic oxide layers. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 181, 012043	0.4	2

119	Downscaled anodic oxidation process for aluminium in oxalic acid. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 181, 012044	0.4	2
118	Wear and Corrosion Resistance of Electric-ARC Coatings Sprayed from Powder Wires of the Stein-Mesyfil Series. <i>Materials Science</i> , 2015 , 50, 912-916	0.7	2
117	Elektrisch leitfähige kohlenstofffaserverstärkte Kunststoffe (CFK) mit freiliegender Funktionsschicht. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2015 , 46, 844-851	0.9	2
116	Reinforcement of Conducting Silver-based Materials. <i>Medziagotyra</i> , 2014 , 20,	0.4	2
115	Electron microscopy and diffraction studies of suspension-plasma-sprayed ZrO ₂ + 8 wt.% Y ₂ O ₃ coatings. <i>Surface and Coatings Technology</i> , 2013 , 220, 67-73	4.4	2
114	Vergleich des Anodisierens von Aluminiumschrauben mittels Direkt- bzw. Flüssigkontaktierung. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2011 , 42, 672-679	0.9	2
113	Auslegung beschichteter Werkzeuge zur Umformung hochfester Aluminiumwerkstoffe. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2009 , 40, 517-522	0.9	2
112	Controlled grain size distribution and refinement of an EN AW-6082 aluminium alloy. <i>International Journal of Materials Research</i> , 2011 , 102, 977-981	0.5	2
111	Characterization of Electrodeposited NiCo Films with Incorporated Ferrite (BaFe ₁₂ O ₁₉) Nano-Particles. <i>Zeitschrift Fur Physikalische Chemie</i> , 2011 , 225, 351-361	3.1	2
110	Aluminiumgradientenwerkstoff durch inkrementelle Massivumformung. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2010 , 41, 407-412	0.9	2
109	Thermomechanische Optimierung mittels ECAP und Wärmebehandlung an einer Aluminiumlegierung der Automobil- und Luftfahrtindustrie. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2010 , 41, 756-764	0.9	2
108	Galvanisches Verzinken von Magnesiumlegierungen. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2007 , 38, 181-186	0.9	2
107	Entwicklung einer niedrigschmelzenden Legierung und deren Applikation zum Korrosionsschutz hochfester Stähle. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2008 , 39, 888-891	0.9	2
106	Surface activation influencing the microstructure of Zn(Ca) phosphate coatings. <i>Mikrochimica Acta</i> , 2006 , 156, 83-87	5.8	2
105	Microstructure and Properties of Atmospheric Plasma Sprayed (Al,Cr) ₂ O ₃ /TiO ₂ Coatings from Blends. <i>Journal of Thermal Spray Technology</i> ,	2.5	2
104	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	2
103	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-(Alanine)-Electrolyte. <i>Algorithms</i> , 2021 , 14, 113	1.8	2
102	Stabilization of the Computation of Stability Constants and Species Distributions from Titration Curves. <i>Computation</i> , 2021 , 9, 55	2.2	2

101	Nickel-Aluminum Thermal Spray Coatings as Adhesion Promoter and Susceptor for Inductively Joined Polymer-Metal Hybrids. <i>Polymers</i> , 2021 , 13,	4.5	2
100	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	0.4	2
99	Anodisation with dynamic current control for tailored alumina coatings. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016 , 118, 012038	0.4	2
98	Influence of SiC particle volume fraction and texture on the surface properties in milling of AMCs with MCD-tipped tools. <i>Procedia CIRP</i> , 2019 , 85, 90-95	1.8	2
97	Characterization of thermally sprayed copper and numerically supported residual stress determination by the incremental hole-drilling method. <i>Surface and Coatings Technology</i> , 2019 , 371, 255-261	4.4	2
96	Influence of dovetail microstructures on adhesive tensile strength and morphology of thermally sprayed metal coatings. <i>Procedia CIRP</i> , 2018 , 71, 299-304	1.8	2
95	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> , 1	2.5	2
94	Boriding of Laser-Clad Inconel 718 Coatings for Enhanced Wear Resistance. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 11935	2.6	2
93	Neural network for prediction of hardness profiles for steel alloys after plasma nitriding. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 480, 012019	0.4	1
92	Mean stress sensitivity of the fatigue strength after equal-channel angular pressing of the aluminum alloys 6082 and 6060. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 480, 012032	0.4	1
91	Localized anodization of the aluminum alloy EN AW-7075 T6 by closed electrolytic free jet. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 480, 012015	0.4	1
90	Prediction of Austenite Formation Temperatures Using Artificial Neural Networks. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016 , 118, 012029	0.4	1
89	Simultaneous Electrodeposition of Silver and Tungsten from [EMIm]Cl:AlCl ₃ Ionic Liquids outside the Glove Box. <i>Coatings</i> , 2020 , 10, 553	2.9	1
88	High-Temperature Corrosion and Radiation Characteristics of Thermal Sprayed Molybdenum Disilicide-Based Coatings. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016 , 118, 012007	0.4	1
87	Plasma electrolytic oxidation of AMCs. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016 , 118, 012031	0.4	1
86	Oxidation behavior of thermal barrier coating systems with Al interlayer under isothermal loading. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 373, 012010	0.4	1
85	Surface modification for corrosion resistance of electric conductive metal surfaces with plasma electrolytic polishing 2019 ,		1
84	Pitting corrosion behavior of a laser hardened, high-alloyed steel. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 480, 012018	0.4	1

83	Influencing the Properties of the Generated Surface by Adjusted Rake and Clearance Angles in Side Milling of Aluminum Matrix Composites with MCD-Tipped Tools. <i>Journal of Manufacturing and Materials Processing</i> , 2019 , 3, 59	2.2	1
82	Evaluation of the bonding behaviour of thin bio-based wooden laminates. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2017 , 48, 1173-1180	0.9	1
81	Experimental and numerical investigation of the residual yield strength of aluminium alloy EN AW-2024-T3 affected by artificially produced pitting corrosion. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 181, 012023	0.4	1
80	Einfluss einer PVD-Al-Zwischenschicht auf die Eigenschaften eines thermisch gespritzten WÄrmeschutzschichtsystems nach Temperaturwechselbelastung. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2014 , 45, 445-455	0.9	1
79	FE-Simulation beschichteter Umformwerkzeuge für hochfeste Aluminiumlegierungen. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2012 , 43, 589-595	0.9	1
78	Thermally sprayed diffusion barrier coatings on C/C light-weight charging racks for furnace applications. <i>Surface and Coatings Technology</i> , 2013 , 214, 144-152	4.4	1
77	Phosphorus Distribution in Electrodeposited Ni-P-Diamond Composites Influencing Structure and Mechanical Properties. <i>Advanced Materials Research</i> , 2013 , 829, 105-109	0.5	1
76	Structural Characterization and Wear Investigations of Palladium Layers Electrochemically Deposited Using Ionic Liquids. <i>Advanced Engineering Materials</i> , 2013 , 15, 1115-1121	3.5	1
75	Experimentelle und numerische Betrachtung der Versagensmechanismen von Dünnschichtsystemen in der Umformtechnik. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2011 , 42, 599-605	0.9	1
74	Chemisches Abscheiden von NiP-Nanokomposit-schichten. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2009 , 40, 888-893	0.9	1
73	Hartanodisieren einer grob- und ultrafeinkörnigen Aluminium-Kupfer-Legierung mit inkorporierten Aluminiumoxid- bzw. Siliziumkarbid-Partikeln. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2010 , 41, 737-743	9.8	1
72	Numerical simulation of the thermo-elastic behaviour for textile structured ceramic matrix composite bearings. <i>International Journal of Microstructure and Materials Properties</i> , 2008 , 3, 65	0.4	1
71	Prozess zur Anodisierung von Aluminiumblechern mit hoher elektrischer Durchschlagsspannung. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2008 , 39, 58-65	0.9	1
70	Beurteilung von Loten und Lötverbindungen unter dem Einfluss steigender Kupfergehalte in verunreinigten bleifreien Lotblechern. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2008 , 39, 66-74	0.9	1
69	Verifizierung numerischer Verfahren zur Modellierung abrasiver Verschleißprozesse durch Berechnung von Scratchtests. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2008 , 39, 963-966	0.9	1
68	Eigenschaften von nanoskaligen Aluminiumoxid- und Titandioxid-Partikeln in Nickelelektrolyten. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2003 , 34, 627-632	0.9	1
67	Zum Korrosions- und Verschleißverhalten von Nickeldispersionsschichten mit Nanopartikeln. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2003 , 34, 633-640	0.9	1
66	Analytical Model to Calculate the Grain Size of Bulk Material Based on Its Electrical Resistance. <i>Metals</i> , 2021 , 11, 21	2.3	1

65	Irregular Electrodeposition of Cu-Sn Alloy Coatings in [EMIM]Cl Outside the Glove Box with Large Layer Thickness. <i>Coatings</i> , 2021 , 11, 310	2.9	1
64	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	5.3	1
63	Enhancement of the Adhesion of Wire Arc Sprayed Coatings on Carbon Fiber-Reinforced Plastic by Surface Laser Structuring. <i>Coatings</i> , 2021 , 11, 467	2.9	1
62	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 ^{0.4}	0.4	1
61	Influence of metal matrix powder size on the tensile strength of a SiCp/AlSi7Mg0,6 composite produced by field assisted sintering technique. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021 , 1147, 012020	0.4	1
60	Electrochemical testing of thermal spray coatings using gel electrolytes. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021 , 1147, 012031	0.4	1
59	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	0.4	1
58	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	0.4	1
57	Study on the Characteristics of a TBC System Containing a PVD-Al Interlayer under Isothermal Loading. <i>Coatings</i> , 2021 , 11, 887	2.9	1
56	Experimental and numerical investigation on cold flat rolling processes of DC04 sheets with special focus on residual stresses. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016 , 118, 012019	0.4	1
55	Influence of Pre-Aging on the Artificial Aging Behavior of a 6056 Aluminum Alloy after Conventional Extrusion. <i>Metals</i> , 2021 , 11, 385	2.3	1
54	Fundamental Investigations in Tool Wear and Characteristics of Surface Microstructure for Ultrasonic Vibration Superimposed Machining of Heat-Treated X46Cr13 Steel Using Different Cutting Materials. <i>Journal of Manufacturing and Materials Processing</i> , 2021 , 5, 27	2.2	1
53	Heat treatment condition of EN AW-7075 influencing the anodic oxidation process and coating properties. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 373, 012021	0.4	1
52	Adapted diffusion processes for effective forging dies 2018 ,		1
51	Influence of Thermochemical Treatment on the Surface Properties of Finish Turned Wire Arc Sprayed 17Cr Steel Coatings. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 6520	2.6	1
50	Galvanic deposited Ni-Ir electrocatalyst for electrolysers. <i>Materials Letters</i> , 2021 , 297, 129820	3.3	1
49	How to create a Ni-free corrosion protecting deposit on basis of ZnFe-X. <i>Transactions of the Institute of Metal Finishing</i> , 2021 , 99, 227-230	1.3	1
48	Coupled experimental and simulative investigation of the influence of polymer moisture content on the strength of amino-silane-mediated aluminum polyamide 6 joints. <i>International Journal of Adhesion and Adhesives</i> , 2021 , 109, 102906	3.4	1

47	Strain-Rate Sensitive Deformation Behavior under Tension and Compression of Al _{0.3} CrFeCoNiMo _{0.2} . <i>Advanced Engineering Materials</i> , 2100921	3.5	1
46	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	2.9	1
45	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	2.5	1
44	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	1
43	Ultrasonic assisted milling of a CoCrFeNi medium entropy alloy. <i>Procedia CIRP</i> , 2022 , 108, 879-884	1.8	1
42	Influence of the kinematic roughness resulting from facing of AMC specimens on preconditioning of friction surfaces. <i>Procedia CIRP</i> , 2022 , 108, 1-6	1.8	1
41	Untersuchung der Haftmechanismen kaltgasgespritzter Al-Schichten auf Al ₂ O ₃ . <i>Materialwissenschaft Und Werkstofftechnik</i> , 2014 , 45, 476-485	0.9	0
40	Electrodeposition of Thick and Crack-Free Fe-Cr-Ni Coatings from a Cr (III) Electrolyte. <i>Coatings</i> , 2022 , 12, 56	2.9	0
39	Mathematical Modeling of the Limiting Current Density from Diffusion-Reaction Systems. <i>Axioms</i> , 2022 , 11, 53	1.6	0
38	High-temperature wear behaviour of borided Inconel 718 HVOF coatings. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021 , 1147, 012032	0.4	0
37	Jominy End Quench Test of Martensitic Stainless Steel X30Cr13. <i>Metals</i> , 2021 , 11, 1071	2.3	0
36	Adiabatic shear loading in thermal spray coatings studied by EBSD 2016 , 988-989		0
35	Microstructure and Corrosion Properties of AlCrFeCoNi High-Entropy Alloy Coatings Prepared by HVAF and HVOF. <i>Journal of Thermal Spray Technology</i> , 1	2.5	0
34	Comparison of Microstructures and Selected Properties of Plasma-Sprayed Iron-Based Metallic Glass Coatings. <i>Journal of Thermal Spray Technology</i> , 1	2.5	0
33	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	2.9	0
32	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	9.1	0
31	Surface properties in turning of aluminum alloys applying different cooling strategies. <i>Procedia CIRP</i> , 2022 , 108, 246-251	1.8	0
30	Detection and Prediction of Corrosion-Affecting Parameters in Cold Flat Rolling Processes. <i>Procedia Engineering</i> , 2017 , 184, 22-29		

29	Thermally induced morphology changes of wire arc sprayed copper and corrosion-resistant steel (316L). <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 480, 012010	0.4
28	Development of a brazing process for the production of water- cooled bipolar plates made of chromium-coated metal foils for PEM fuel cells. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016 , 118, 012005	0.4
27	Metallisierte Kohlenstofffasern fñ multifunktionelle CFK. <i>JOT, Journal Fuer Oberflaechentechnik</i> , 2013 , 53, 98-99	0
26	Archaeometric case studies on decorations of pre-Columbian pottery using X-ray spectroscopy maps and profiles. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2017 , 48, 485-494	0.9
25	Micro- and macroelectrochemical investigations of the corrosion behavior of an Al/Mg compound. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2012 , 43, 596-600	0.9
24	Numerical Simulation of Scratch Tests for the Verification of Material Models for Particle-Reinforced Coatings 2013 , 323-331	
23	Einfluss verschiedener Substratwerkstoffe auf Struktur und Eigenschaften anodischer Oxidschichten aus Oxalsäure. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2010 , 41, 437-441	0.9
22	Mikrowellenangepasstes Sintern von Ferriten. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2007 , 38, 808-815	0.5
21	Abscheidung und Werkstoffaufbau galvanischer Dispersionsschichten. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2008 , 39, 897-900	0.9
20	Conventional Imaging of Nanopores in Surface Finishing Anodized Coatings. <i>Microscopy and Microanalysis</i> , 2007 , 13, 346-347	0.5
19	Electrochemical Corrosion Investigations on Binary and Ternary Zinc Alloy Coatings using Gel Electrolytes. <i>Advanced Engineering Materials</i> , 2010 , 2, 1013-1036	3.5
18	Influence of Pre-Aging on the Hardness and Formability of a Thread Rolled 6056 Aluminum Alloy after Conventional Extrusion and Artificial Aging. <i>Journal of Manufacturing and Materials Processing</i> , 2021 , 5, 116	2.2
17	On the Q&P Potential of a Commercial Spring Steel. <i>Metals</i> , 2021 , 11, 1612	2.3
16	Mechanical test procedures for the evaluation of hydrogen-assisted damage in high-strength steel. <i>Materialpruefung/Materials Testing</i> , 2019 , 61, 1061-1071	1.9
15	Evaluation of the Diamond Particle Content in Ni-P Nano-Composite Coatings. <i>Praktische Metallographie/Practical Metallography</i> , 2016 , 53, 144-160	0.3
14	Microstructural Characterization of Quenched and Partitioned commercial Medium Carbon Steel. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020 , 882, 012025	0.4
13	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	0.4
12	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	0.4

11	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	0.4
10	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	0.4
9	Advanced corrosion resistant cylinder-bore coatings. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021 , 1147, 012034	0.4
8	Simulations and measurements of annealed pyrolytic graphite-metal composite baseplates. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016 , 118, 012013	0.4
7	Hybridprofile fflTrag- und Crashstrukturen 2021 , 121-203	
6	Hardness Enhancement in CoCrFeNi1(WC)x High-Entropy Alloy Thin Films Synthesised by Magnetron Co-Sputtering. <i>Coatings</i> , 2022 , 12, 269	2.9
5	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
4	Low surface damage laser processing of silicon by laser-induced plasma etching (LIPE). <i>Applied Surface Science</i> , 2022 , 597, 153712	6.7
3	Surface hardening in finishing of sintered and thermal sprayed X120Mn12. <i>Procedia CIRP</i> , 2022 , 108, 216-221	1.8
2	Effects of Laser-Remelting on the Microstructure, Hardness and Oscillating Wear Resistance of Atmospheric Plasma Sprayed Alumina-Rich Coatings. <i>Coatings</i> , 2022 , 12, 721	2.9
1	Sodium hexabromoiridate(III) for the electroplating of IrNi and IrBeNi alloy coatings. <i>Thin Solid Films</i> , 2022 , 755, 139323	2.2