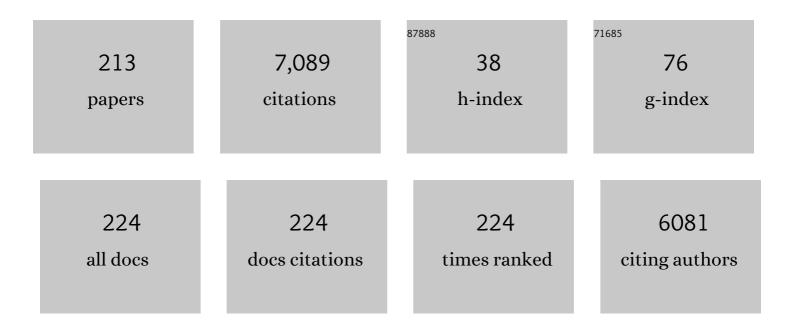
## **Christoph Leyens**

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Selfâ€Healing Materials. Advanced Materials, 2010, 22, 5424-5430.	21.0	944
2	Titanium Alloys for Aerospace Applications. Advanced Engineering Materials, 2003, 5, 419-427.	3.5	609
3	Some recent trends in research and technology of advanced thermal barrier coatings. Aerospace Science and Technology, 2003, 7, 73-80.	4.8	406
4	Additive manufactured Ti-6Al-4V using welding wire: comparison of laser and arc beam deposition and evaluation with respect to aerospace material specifications. Physics Procedia, 2010, 5, 595-606.	1.2	269
5	Morphology, microstructure, and hardness of titanium (Ti-6Al-4V) blocks deposited by wire-feed additive layer manufacturing (ALM). Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 532, 295-307.	5.6	255
6	Review on Advanced EBâ€₽VD Ceramic Topcoats for TBC Applications. International Journal of Applied Ceramic Technology, 2004, 1, 302-315.	2.1	230
7	Mechanical properties of additive manufactured titanium (Ti–6Al–4V) blocks deposited by a solid-state laser and wire. Materials & Design, 2011, 32, 4665-4675.	5.1	184
8	Influence of substrate material on oxidation behavior and cyclic lifetime of EB-PVD TBC systems. Surface and Coatings Technology, 2001, 146-147, 117-123.	4.8	172
9	EB-PVD Thermal Barrier Coatings for Aeroengines and Gas Turbines. Advanced Engineering Materials, 2001, 3, 193-204.	3.5	149
10	Deposition of Ti–6Al–4V using laser and wire, part I: Microstructural properties of single beads. Surface and Coatings Technology, 2011, 206, 1120-1129.	4.8	145
11	Effect of composition on the oxidation and hot corrosion resistance of NiAl doped with precious metals. Surface and Coatings Technology, 2000, 133-134, 15-22.	4.8	125
12	Fabrication and oxidation behavior of Cr2AlC coating on Ti6242 alloy. Surface and Coatings Technology, 2010, 204, 2343-2352.	4.8	88
13	Structure and Properties of Titanium and Titanium Alloys. , 2005, , 1-36.		86
14	Oxidation resistant coatings in combination with thermal barrier coatings on Î <sup>3</sup> -TiAl alloys for high temperature applications. Surface and Coatings Technology, 2006, 201, 3911-3917.	4.8	72
15	Continuous Fiber Reinforced Titanium Matrix Composites: Fabrication, Properties, and Applications. Advanced Engineering Materials, 2003, 5, 399-410.	3.5	69
16	Recent progress in the coating protection of gamma titanium-aluminides. Jom, 2006, 58, 17-21.	1.9	67
17	Influence of bondcoat pre-treatment and surface topology on the lifetime of EB-PVD TBCs. Surface and Coatings Technology, 2003, 165, 217-223.	4.8	66
18	Intermetallic Ti-Al coatings for protection of titanium alloys: oxidation and mechanical behavior. Surface and Coatings Technology, 1997, 94-95, 34-40.	4.8	63

#	Article	IF	CITATIONS
19	Mechanical Properties of Additive Manufactured Ti-6Al-4V Using Wire and Powder Based Processes. IOP Conference Series: Materials Science and Engineering, 2011, 26, 012004.	0.6	63
20	Oxide scale formation on an MCrAlY coating in various H2-H2O atmospheres. Surface and Coatings Technology, 1996, 82, 133-144.	4.8	62
21	Influence of electron beam physical vapor deposited thermal barrier coating microstructure on thermal barrier coating system performance under cyclic oxidation conditions. Surface and Coatings Technology, 1999, 120-121, 68-76.	4.8	62
22	Demands, Potentials, and Economic Aspects of Thermal Spraying with Suspensions: A Critical Review. Journal of Thermal Spray Technology, 2015, 24, 1143-1152.	3.1	60
23	Sputtered intermetallic Ti–Al–X coatings: phase formation and oxidation behavior. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1997, 239-240, 680-687.	5.6	58
24	Deposition of Ti–6Al–4V using laser and wire, part II: Hardness and dimensions of single beads. Surface and Coatings Technology, 2011, 206, 1130-1141.	4.8	58
25	Long-term oxidation of orthorhombic alloy Ti-22Al-25Nb in air between 650 and 800°C. Scripta Materialia, 1999, 41, 901-906.	5.2	53
26	Influence of long-term annealing on tensile properties and fracture of near-α titanium alloy Ti-6Al-2.75Sn-4Zr-0.4Mo-0.45Si. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1996, 27, 1709-1717.	2.2	51
27	Shot peening on the high-strength wrought magnesium alloy AZ80—Effect of peening media. Journal of Materials Processing Technology, 2010, 210, 445-450.	6.3	51
28	Novel coating systems produced by the combined cathodic arc/unbalanced magnetron sputtering for environmental protection of titanium alloys. Surface and Coatings Technology, 2002, 155, 103-111.	4.8	50
29	Comparison of dimensional accuracy and tolerances of powder bed based and nozzle based additive manufacturing processes. Journal of Laser Applications, 2020, 32, .	1.7	50
30	Magnetron-sputtered Ti–Cr–Al coatings for oxidation protection of titanium alloys. Surface and Coatings Technology, 1998, 108-109, 30-35.	4.8	49
31	Mechanical Properties of Metal Oxide Aerogels. Chemistry of Materials, 2018, 30, 145-152.	6.7	49
32	Oxidation behaviour of gamma titanium aluminides with EB-PVD thermal barrier coatings exposed to air at 900°C. Surface and Coatings Technology, 2007, 202, 676-680.	4.8	47
33	Oxidation Behaviour of TBC Systems on γ-TiAl Based Alloy Ti–45Al–8Nb. Oxidation of Metals, 2009, 71, 295-318.	2.1	47
34	Environmental protection of Î <sup>3</sup> -TiAl based alloy Ti-45Al-8Nb by CrAlYN thin films and thermal barrier coatings. Intermetallics, 2010, 18, 479-486.	3.9	47
35	Hot Corrosion of an EB-PVD Thermal-Barrier Coating System at 950°C. Oxidation of Metals, 2000, 54, 401-424.	2.1	46
36	Materials and design concepts for high performance compressorÂcomponents. Aerospace Science and Technology, 2003, 7, 201-210.	4.8	45

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37	Improving the high-temperature oxidation resistance of a β–γ TiAl alloy by a Cr2AlC coating. Corrosion Science, 2010, 52, 3793-3802.	6.6	45
38	Oxidation resistance of γ-TiAl based alloy Ti–45Al–8Nb coated with intermetallic Ti–Al–Cr–Y layers and EB-PVD zirconia topcoats at 950°C in air. Surface and Coatings Technology, 2013, 222, 128-134.	4.8	40
39	Two-source jumping beam evaporation for advanced EB-PVD TBC systems. Surface and Coatings Technology, 2000, 133-134, 40-48.	4.8	39
40	Investigation of the Thermoelectric Power Factor of KOH-Treated PEDOT:PSS Dispersions for Printing Applications. Energy Harvesting and Systems, 2016, 3, 101-111.	2.7	38
41	Influence of microstructure on oxidation behaviour of near-α titanium alloys. Materials Science and Technology, 1996, 12, 213-218.	1.6	37
42	SiC-fibre reinforced copper as heat sink material for fusion applications. Journal of Nuclear Materials, 2004, 329-333, 804-808.	2.7	36
43	Enhanced manufacturing possibilities using multi-materials in laser metal deposition. Journal of Laser Applications, 2018, 30, .	1.7	36
44	Analysis of Melt Pool Characteristics and Process Parameters Using a Coaxial Monitoring System during Directed Energy Deposition in Additive Manufacturing. Materials, 2019, 12, 308.	2.9	36
45	Effect of roller burnishing on fatigue properties of the hot-rolled Mg–12Gd–3Y magnesium alloy. Materials Chemistry and Physics, 2010, 124, 835-840.	4.0	32
46	Thermal operating window for PEDOT:PSS films and its related thermoelectric properties. Synthetic Metals, 2017, 225, 49-54.	3.9	32
47	Influence of Processing on Microstructure and Performance of Electron Beam Physical Vapor Deposition (EB-PVD) Thermal Barrier Coatings. Journal of Engineering for Gas Turbines and Power, 2002, 124, 229-234.	1.1	30
48	Oxidation behaviour of Ti–Al–C films composed mainly of a Ti2AlC phase. Corrosion Science, 2011, 53, 2948-2955.	6.6	30
49	High-performance laser cladding with combined energy sources. Journal of Laser Applications, 2015, 27, .	1.7	30
50	Solid particle erosion behavior of nanolaminated Cr 2 AlC films. Wear, 2018, 402-403, 187-195.	3.1	30
51	Additive Manufacturing of Powdery Ni-Based Superalloys Mar-M-247 and CM 247 LC in Hybrid Laser Metal Deposition. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 3812-3830.	2.2	30
52	High strength and ductility of electron beam melted β stabilized γ-TiAl alloy at 800°C. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 756, 41-45.	5.6	30
53	Oxidation-Resistant Coatings for Application on High-Temperature Titanium Alloys in Aeroengines. Advanced Engineering Materials, 2000, 2, 265-269.	3.5	29
54	Characterization of Cr–Al–C and Cr–Al–C–Y films synthesized by High Power Impulse Magnetron Sputtering at a low deposition temperature. Thin Solid Films, 2015, 580, 6-11.	1.8	29

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55	Erosion behavior of EB-PVD 7YSZ coatings under corrosion/erosion regime: Effect of TBC microstructure and the CMAS chemistry. Journal of the European Ceramic Society, 2018, 38, 5101-5112.	5.7	29
56	Hybrid manufacturing of titanium Ti-6Al-4V combining laser metal deposition and cryogenic milling. International Journal of Advanced Manufacturing Technology, 2020, 107, 2995-3009.	3.0	29
57	Physical and Geometrical Properties of Additively Manufactured Pure Copper Samples Using a Green Laser Source. Materials, 2021, 14, 3642.	2.9	29
58	Development of a low-expansion bond coating for Ni-base superalloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1995, 190, 253-258.	5.6	28
59	Environmental Effects on Orthorhombic Alloy Ti-22Al-25Nb in Air Between 650 and 1000°C. Oxidation of Metals, 1999, 52, 475-503.	2.1	27
60	$\hat{I}^3$ -Titanium Aluminide Alloys: Alloy Design and Properties. , 2005, , 89-152.		27
61	Production, Processing and Application of $\hat{I}^3$ (TiAl)-Based Alloys. , 2005, , 351-392.		27
62	Ambient effects on the electrical conductivity of carbon nanotubes. Carbon, 2015, 95, 347-353.	10.3	27
63	A study on hot-working as alternative post-processing method for titanium aluminides built by laser powder bed fusion and electron beam melting. Journal of Materials Processing Technology, 2021, 291, 117024.	6.3	27
64	Synthesis and Characterization of Ti <sub>2</sub> AlC and Ti <sub>2</sub> AlN MAX Phase Coatings Manufactured in an Industrial-Size Coater. Advanced Materials Research, 0, 89-91, 208-213.	0.3	26
65	Thermocyclic Behavior of Differently Stabilized and structured EB-PVD thermal barrier coatings. Materialwissenschaft Und Werkstofftechnik, 1997, 28, 370-376.	0.9	25
66	Influence of shot peening on notched fatigue strength of the high-strength wrought magnesium alloy AZ80. Journal of Alloys and Compounds, 2010, 497, 380-385.	5.5	25
67	Process characteristics in high-precision laser metal deposition using wire and powder. Journal of Laser Applications, 2017, 29, .	1.7	25
68	Oxidation behaviour of TiAl-based intermetallic coatings on Î <sup>3</sup> -TiAl alloys. International Journal of Materials Research, 2010, 101, 637-647.	0.3	23
69	Protective coatings on orthorhombic Ti <sub>2</sub> AlNb alloys. Materials at High Temperatures, 2005, 22, 437-447.	1.0	23
70	Influence of intermetallic Ti-Al coatings on the creep properties of TIMETAL 1100. Scripta Materialia, 1996, 35, 1423-1428.	5.2	22
71	Facile synthesis of potassium tetrathiooxalate – The "true―monomer for the preparation of electron-conductive poly(nickel-ethylenetetrathiolate). Tetrahedron, 2017, 73, 2250-2254.	1.9	22
72	Intrinsic Heat Treatment Within Additive Manufacturing of Gamma Titanium Aluminide Space Hardware. Jom, 2019, 71, 1513-1519.	1.9	22

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73	Oxidation and Protection of Near-Alpha Titanium Alloys. Materials Science Forum, 1997, 251-254, 769-776.	0.3	21
74	Influence of intermetallic TiAl coatings on the fatigue properties of TIMETAL 1100. Scripta Materialia, 1997, 36, 1309-1314.	5.2	21
75	Title is missing!. Oxidation of Metals, 2000, 54, 255-276.	2.1	21
76	Electrodeposition of Co–Mn3O4 composite coatings. Surface and Coatings Technology, 2015, 280, 208-215.	4.8	21
77	Innovations in laser cladding and direct laser metal deposition. , 2015, , 181-192.		21
78	Nucleation and Growth of Oxide Constituents on NiCoCrAlY Bond Coats during the Different Stages of EB-PVD TBC Deposition and Upon Thermal Loading. Materials Science Forum, 2004, 461-464, 899-906.	0.3	20
79	Oxidation protective coatings for γâ€ <b>T</b> iAl – recent trends. Materialwissenschaft Und Werkstofftechnik, 2007, 38, 667-673.	0.9	20
80	Reducing the erosive wear rate of Cr2AlC MAX phase ceramic by oxidative healing of local impact damage. Wear, 2016, 358-359, 1-6.	3.1	20
81	Investigation on the oxidation behaviour of gamma titanium aluminides coated with thermal barrier coatings. Materials and Corrosion - Werkstoffe Und Korrosion, 2008, 59, 539-546.	1.5	19
82	Performance of thermal barrier coatings on $\hat{I}^3$ -TiAl. Materials and Corrosion - Werkstoffe Und Korrosion, 2005, 56, 930-936.	1.5	18
83	Polyethenetetrathiolate or polytetrathiooxalate? Improved synthesis, a comparative analysis of a prominent thermoelectric polymer and implications to the charge transport mechanism. Polymer Chemistry, 2018, 9, 4543-4555.	3.9	18
84	Mechanical properties of the hot-rolled Mg–12Gd–3Y magnesium alloy. Materials Chemistry and Physics, 2009, 118, 453-458.	4.0	17
85	Optical absorption spectroscopy and properties of single walled carbon nanotubes at high temperature. Synthetic Metals, 2014, 197, 182-187.	3.9	17
86	High-Temperature Aging of Eb-Pvd Thermal Barrier Coatings. Ceramic Engineering and Science Proceedings, 0, , 347-356.	0.1	17
87	Transformation and oxidation of a sputtered low-expansion Ni-Cr-Al-Ti-Si bond coating for thermal barrier systems. Surface and Coatings Technology, 1997, 94-95, 155-160.	4.8	15
88	Oxidation and fatigue behaviour of γ-TiAl coated with HIPIMS CrAlYN/CrN nanoscale multilayer coatings and EB-PVD thermal barrier coatings. International Journal of Materials Research, 2010, 101, 648-656.	0.3	15
89	Microstructural, mechanical, and thermo-physical characterization of hypereutectic AlSi40 fabricated by selective laser melting. Journal of Laser Applications, 2019, 31, .	1.7	15
90	Fast Laser Cutting of Thin Metal. Procedia Manufacturing, 2019, 29, 369-374.	1.9	15

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91	Comprehensive study on the formation of grain boundary serrations in additively manufactured Haynes 230 alloy. Materials Characterization, 2020, 160, 110092.	4.4	15
92	Potential and challenges of additive manufacturing for topology optimized spacecraft structures. Journal of Laser Applications, 2020, 32, .	1.7	15
93	Compositional Effects on Aluminide Oxidation Performance: Objectives for Improved Bond Coats. , 2000, , .		15
94	Influence of thermocycle boroaluminising on strength of steel C30. Surface Engineering, 2014, 30, 129-133.	2.2	14
95	The role of open-volume defects in the annihilation of antisites in a B2-ordered alloy. Acta Materialia, 2019, 176, 167-176.	7.9	14
96	Particle Ejection by Jetting and Related Effects in Impact Welding Processes. Metals, 2020, 10, 1108.	2.3	14
97	Magneto-structural correlations in a systematically disordered B2 lattice. New Journal of Physics, 2020, 22, 073004.	2.9	14
98	Characterization of the high-temperature behavior of PBF-EB/M manufactured γÂtitanium aluminides. Progress in Additive Manufacturing, 2022, 7, 471-480.	4.8	14
99	Phase stability, oxidation, and interdiffusion of a novel Ni?Cr?Al?Ti?Si bond-coating alloy between 900 and 1100�C. Oxidation of Metals, 1995, 43, 329-352.	2.1	13
100	Oxidation of Orthorhombic Titanium Aluminide TI-22AL-25NB in Air between 650 and 1000 °C. Journal of Materials Engineering and Performance, 2001, 10, 225-230.	2.5	13
101	Interaction between cyclic loading and residual stresses in titanium matrix composites. Journal of Materials Science, 2004, 39, 501-509.	3.7	13
102	Thermally grown oxide scales on γ-TiAl coated with thermal protection systems. Materials at High Temperatures, 2009, 26, 305-316.	1.0	13
103	Evaluation of 3D-printed parts by means of high-performance computer tomography. Journal of Laser Applications, 2018, 30, 032307.	1.7	13
104	Alloy Design and Microstructure Evolution in the AlxCoCrFeNi Alloy System Synthesized by Laser Metal Deposition. Frontiers in Materials, 2020, 7, .	2.4	13
105	Interface Formation during Collision Welding of Aluminum. Metals, 2020, 10, 1202.	2.3	13
106	Additive Manufacturing of Titanium with Different Surface Structures for Adhesive Bonding and Thermal Direct Joining with Fiber-Reinforced Polyether-Ether-Ketone (PEEK) for Lightweight Design Applications. Metals, 2021, 11, 265.	2.3	13
107	Investigation of an as-sprayed NiCoCrAlY overlay coating Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 369, 144-150.	5.6	12
108	Surface Functionalization by High-precision Laser Cladding. Laser Technik Journal, 2013, 10, 29-31.	0.2	12

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109	Oxidation and Protection of Titanium Alloys and Titanium Aluminides. , 2005, , 187-230.		11
110	Metal–Ceramic Layered Materials and Composites Manufactured Using Powder Techniques. Advanced Engineering Materials, 2014, 16, 1293-1302.	3.5	11
111	Laser Additive Manufacturing with Crack-sensitive Materials. Laser Technik Journal, 2015, 12, 28-30.	0.2	11
112	Thermodynamic calculation and experimental analysis of critical phase transformations in HVOF-sprayed NiCrAlY-coating alloys. Surface and Coatings Technology, 2019, 357, 924-938.	4.8	11
113	Titan und Titanlegierungen: Struktur, Gefüge, Eigenschaften. , 0, , 1-37.		11
114	Analytical electron microscopy of the mixed zone in NiCoCrAlY-based EB-PVD thermal barrier coatings: as-coated condition versus late stages of TBC lifetime. Materials at High Temperatures, 2005, 22, 393-401.	1.0	11
115	Oxidation Behaviour of Ti <sub>2</sub> AlN Films Composed Mainly of Nanolaminated MAX Phase. Journal of Nanoscience and Nanotechnology, 2011, 11, 8959-8966.	0.9	10
116	Innovations in laser cladding and direct metal deposition. Proceedings of SPIE, 2012, , .	0.8	10
117	Magnetic properties of bulk and thin film Cr–Al–C compounds. Surface Engineering, 2016, 32, 172-177.	2.2	10
118	Added value by hybrid additive manufacturing and advanced manufacturing approaches. Journal of Laser Applications, 2018, 30, .	1.7	10
119	Material Characterization of AISI 316L Flexure Pivot Bearings Fabricated by Additive Manufacturing. Materials, 2019, 12, 2426.	2.9	10
120	Defect-based characterization of the fatigue behavior of additively manufactured titanium aluminides. International Journal of Fatigue, 2022, 163, 107047.	5.7	10
121	Lifetimeâ€determining spalling mechanisms of NiCoCrAlRE / EBâ€₽VD zirconia TBC systems. Materialwissenschaft Und Werkstofftechnik, 2007, 38, 734-746.	0.9	9
122	Compositional depth profiling of diamond-like carbon layers by glow discharge optical emission spectroscopy. Journal of Analytical Atomic Spectrometry, 2016, 31, 2207-2212.	3.0	9
123	Coaxial Laser Wire Deposition. Journal of Physics: Conference Series, 2018, 1109, 012026.	0.4	9
124	Novel local shielding approach for the laser welding based additive manufacturing of large structural space components from titanium. Journal of Laser Applications, 2020, 32, 022075.	1.7	9
125	Laser fusion cutting: evaluation of gas boundary layer flow state, momentum and heat transfer. Materials Research Express, 2021, 8, 036513.	1.6	9
126	Analytical electron microscopy of the mixed zone in NiCoCrAlY-based EB-PVD thermal barrier coatings: as-coated condition versus late stages of TBC lifetime. Materials at High Temperatures, 2005, 22, 393-401.	1.0	8

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127	Fabrication of Titanium Alloys. , 2005, , 245-261.		8
128	Laser-based manufacturing of components using materials with high cracking susceptibility. Journal of Laser Applications, 2016, 28, 022305.	1.7	8
129	Hard Turning of Hot Work and Cold Work Steels with HiPIMS and DCMS TiAlN Coated Carbide Inserts. Procedia CIRP, 2016, 46, 591-594.	1.9	8
130	Method for high accuracy measurements of energy coupling and melting efficiency under welding conditions. Journal of Laser Applications, 2018, 30, .	1.7	8
131	Efficient separation of battery materials using remote laser cutting–high output performance, contour flexibility, and cutting edge quality. Journal of Laser Applications, 2019, 31, .	1.7	8
132	Investigation of CMAS Resistance of Sacrificial Suspension Sprayed Alumina Topcoats on EB-PVD 7YSZ Layers. Journal of Thermal Spray Technology, 2020, 29, 90-104.	3.1	8
133	In situ observation with x-ray for tentative exploration of laser beam welding processes for aluminum-based alloys. Journal of Laser Applications, 2021, 33, 012026.	1.7	8
134	Electron Beam Powder Bed Fusion of γ-Titanium Aluminide: Effect of Processing Parameters on Part Density, Surface Characteristics, and Aluminum Content. Metals, 2021, 11, 1093.	2.3	8
135	TEM Investigation on the Adhesion of YPSZ EB-PVD TBCs. Materials Science Forum, 1997, 251-254, 965-972.	0.3	7
136	Grenzschichtproblematik und Haftung von EB-PVD-WĤmedĤmmschichtsystemen. Materialwissenschaft Und Werkstofftechnik, 1997, 28, 384-390.	0.9	7
137	Oxidation and lifetime of PYSZ and CeSZ coated Ni-base substrates with MCrAlY bond layers. Materials at High Temperatures, 2003, 20, 475-480.	1.0	7
138	Ti-Al-Cr Based Coatings for High Temperature Oxidation Protection of Î <sup>3</sup> -TiAl. Materials Science Forum, 2010, 638-642, 1306-1311.	0.3	7
139	Oxidation behaviour of TiAlYN/CrN and CrAlYN/CrN nanoscale multilayer coatings with Al2O3topcoat deposited on γ-TiAl alloys. Materials at High Temperatures, 2011, 28, 324-335.	1.0	7
140	Mechanical Properties of Shark‧kin Like Structured Surfaces for Highâ€Temperature Applications. Advanced Engineering Materials, 2016, 18, 688-702.	3.5	7
141	Erosion resistance of CMAS infiltrated sacrificial suspension sprayed alumina top layer on EB-PVD 7YSZ coatings. Wear, 2019, 438-439, 203064.	3.1	7
142	Investigation on the formation of grain boundary serrations in additively manufactured superalloy Haynes 230. Journal of Laser Applications, 2020, 32, .	1.7	7
143	Improving and monitoring the magnetic pulse welding process between dissimilar metals. Welding in the World, Le Soudage Dans Le Monde, 2021, 65, 199-209.	2.5	7
144	Hot Corrosion of Nickel-Base Alloys by Alkali-Containing Sulfate Deposits. Materials Science Forum, 2001, 369-372, 571-578.	0.3	6

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145	Improvement of the Highâ€Temperature Oxidation Resistance of γâ€TiAl by Selectively Preâ€treated Siâ€based Coating. Advanced Engineering Materials, 2008, 10, 675-677.	3.5	6
146	Oxidation behaviour of a Ti2AlN MAX-phase coating. IOP Conference Series: Materials Science and Engineering, 2011, 18, 082025.	0.6	6
147	Highly n-doped Surfaces on n-type Silicon Wafers by Laser-chemical Processes. Energy Procedia, 2014, 55, 247-254.	1.8	6
148	Advanced manufacturing approach via the combination of selective laser melting and laser metal deposition. Journal of Laser Applications, 2019, 31, 022317.	1.7	6
149	Laser Multi-Pass Narrow-Gap Welding – A Promising Technology for Joining Thick-Walled Components of Future Power Plants. MATEC Web of Conferences, 2019, 269, 02011.	0.2	6
150	Integration of pure copper to optimize heat dissipation in injection mould inserts using laser metal deposition. Journal of Laser Applications, 2021, 33, 012029.	1.7	6
151	Additive Manufacturing of β-NiAl by Means of Laser Metal Deposition of Pre-Alloyed and Elemental Powders. Materials, 2021, 14, 2246.	2.9	6
152	Extension of the process limits in laser beam welding of thick-walled components using the Laser Multi-Pass Narrow-Gap welding (Laser-MPNG) on the example of the nickel-based material Alloy 617 occ. Welding in the World, Le Soudage Dans Le Monde, 2021, 65, 1359-1371.	2.5	6
153	Protective coatings on orthorhombic Ti <sub>2</sub> AlNb alloys. Materials at High Temperatures, 2005, 22, 437-447.	1.0	5
154	Non-Aerospace Applications of Titanium and Titanium Alloys. , 2005, , 393-422.		5
155	Oxidation-resistant Ti–90Al coatings with lotus effect surface morphology deposited on a γ-TiAl alloy. Scripta Materialia, 2009, 61, 1156-1159.	5.2	5
156	Additive manufacturing of an AlSi40 mirror coated with electroless nickel for cryogenic space applications. , 2019, , .		5
157	Why do EB-PVD NiCoCrAlY Coatings Oxidize Faster than their LPPS Counterparts?. Materials Science Forum, 2001, 369-372, 703-710.	0.3	4
158	Surface Effects on the Mechanical Properties of Gamma Titanium Aluminides. Materials Science Forum, 0, 706-709, 1071-1076.	0.3	4
159	Strain Monitoring During Laser Metal Deposition of Inconel 718 by Neutron Diffraction. Minerals, Metals and Materials Series, 2020, , 1033-1045.	0.4	4
160	Titanlegierungen in der Luft- und Raumfahrt. , 0, , 351-368.		4
161	Contemporary Materials Issues for Advanced EB-PVD Thermal Barrier Coating Systems. International Journal of Materials Research, 2022, 92, 762-772.	0.3	4
162	Optimisation of the Fatigue Resistance of Metal Matrix Composites. Advanced Engineering Materials, 2002, 4, 497-500.	3.5	3

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163	Environmental and Thermal Protection of Î <sup>3</sup> -TiAl Alloys. Materials Science Forum, 2004, 461-464, 223-230.	0.3	3
164	Orthorhombic Titanium Aluminides: Intermetallics with Improved Damage Tolerance. , 2005, , 59-88.		3
165	Short-time Oxidation of Cast γ/γ′-Ni–Cr–Al–Ta–Re Alloys at 1,000°C. Oxidation of Metals, 2012, 7	78,263-82.	3
166	The oxidation behaviour of aluminium-rich coatings on the TiAl alloy TNM-B1. Materials at High Temperatures, 2018, 35, 204-216.	1.0	3
167	Efficient air flow control for remote laser beam welding. Journal of Laser Applications, 2018, 30, 032413.	1.7	3
168	Laser-multi-pass-narrow-gap-welding of nickel superalloy—Alloy 617OCC. Journal of Laser Applications, 2019, 31, .	1.7	3
169	Laser Treatment as Sintering Process for Dispenser Printed Bismuth Telluride Based Paste. Materials, 2019, 12, 3453.	2.9	3
170	Fast Beam Oscillations Improve Laser Cutting of Thick Materials. PhotonicsViews, 2020, 17, 26-31.	0.1	3
171	Improved corrosion behavior of a novel Fe85Cr4Mo8V2C1 tool steel processed by laser powder bed fusion. Journal of Alloys and Compounds, 2021, 867, 158887.	5.5	3
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