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List of Publications by Year
in descending order

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56 papers	4,858 citations	185998 28 h-index	161609 54 g-index
58 all docs	58 docs citations	58 times ranked	4352 citing authors

#	Article	IF	Citations
1	Deformation induced nanoscale twinning improves strength and ductility in additively manufactured titanium alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 833, 142568.	2.6	11
2	Revealing the microstructural evolution of electron beam powder bed fusion and hot isostatic pressing Ti-6Al-4V in-situ shelling samples using X-ray computed tomography. Additive Manufacturing, 2022, 57, 102962.	1.7	5
3	A generalised hot cracking criterion for nickel-based superalloys additively manufactured by electron beam melting. Additive Manufacturing, 2021, 37, 101633.	1.7	11
4	Influence of surface porosity on fatigue life of additively manufactured ASTM A131 EH36 steel. International Journal of Fatigue, 2021, 142, 105894.	2.8	11
5	Comparative study on microstructure, bio-tribological behavior and cytocompatibility of Cr-doped amorphous carbon films for Coâ€“Crâ€“Mo artificial lumbar disc. Tribology International, 2021, 155, 106760.	3.0	13
6	Reducing hot tearing by grain boundary segregation engineering in additive manufacturing: example of an AlxCoCrFeNi high-entropy alloy. Acta Materialia, 2021, 204, 116505.	3.8	115
7	Nanometer-scale precipitations in a selective electron beam melted nickel-based superalloy. Scripta Materialia, 2021, 194, 113661.	2.6	9
8	Microstructure and mechanical properties of ASTM A131 EH36 steel fabricated by laser aided additive manufacturing. Materials Characterization, 2021, 174, 110949.	1.9	4
9	Additive manufacturing of multiple materials by selective laser melting: Ti-alloy to stainless steel via a Cu-alloy interlayer. Additive Manufacturing, 2020, 31, 100970.	1.7	33
10	Comparison of wear properties of Ti6Al4V fabricated by wrought and electron beam melting processes in simulated body fluids. Rapid Prototyping Journal, 2020, 26, 959-969.	1.6	7
11	Machine learning in additive manufacturing: State-of-the-art and perspectives. Additive Manufacturing, 2020, 36, 101538.	1.7	230
12	Fatigue behavior of ASTM A131 EH36 steel samples additively manufactured with selective laser melting. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 777, 139049.	2.6	8
13	Anisotropic microstructure and mechanical properties of additively manufactured Coâ€“Crâ€“Mo alloy using selective electron beam melting for orthopedic implants. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 765, 138270.	2.6	49
14	Improving biotribological properties and corrosion resistance of CoCrMo alloy via a Cr-GLC nanocomposite film in simulated body fluids. Surface and Coatings Technology, 2019, 378, 124840.	2.2	19
15	Revealing competitive columnar grain growth behavior and periodic microstructural banding in additively manufactured Ti-6Al-4â€V parts by selective electron beam melting. Materialia, 2019, 7, 100365.	1.3	24
16	Revealing hot tearing mechanism for an additively manufactured high-entropy alloy via selective laser melting. Scripta Materialia, 2019, 168, 129-133.	2.6	109
17	Additive manufacturing of NiTi shape memory alloys using pre-mixed powders. Journal of Materials Processing Technology, 2019, 271, 152-161.	3.1	141
18	Improvement of densification and microstructure of ASTM A131 EH36 steel samples additively manufactured via selective laser melting with varying laser scanning speed and hatch spacing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 746, 300-313.	2.6	36

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19	Simultaneously enhanced strength and ductility for 3D-printed stainless steel 316L by selective laser melting. NPG Asia Materials, 2018, 10, 127-136.	3.8	385
20	Process parameter optimization and mechanical properties for additively manufactured stainless steel 316L parts by selective electron beam melting. Materials and Design, 2018, 147, 157-166.	3.3	108
21	Scanning optical microscopy for porosity quantification of additively manufactured components. Additive Manufacturing, 2018, 21, 350-358.	1.7	40
22	Carbide precipitation characteristics in additive manufacturing of Co-Cr-Mo alloy via selective electron beam melting. Scripta Materialia, 2018, 143, 117-121.	2.6	60
23	Anisotropy and heterogeneity of microstructure and mechanical properties in metal additive manufacturing: A critical review. Materials and Design, 2018, 139, 565-586.	3.3	913
24	Tribological Properties of Three-Dimensionally Printed Tiâ€“6Alâ€“4V Material Via Electron Beam Melting Process Tested Against 100Cr6 Steel Without and With Hank's Solution. Journal of Tribology, 2018, 140, .	1.0	10
25	Tribochemical Characterization and Tribocorrosive Behavior of CoCrMo Alloys: A Review. Materials, 2018, 11, 30.	1.3	30
26	Metallic powder-bed based 3D printing of cellular scaffolds for orthopaedic implants: A state-of-the-art review on manufacturing, topological design, mechanical properties and biocompatibility. Materials Science and Engineering C, 2017, 76, 1328-1343.	3.8	381
27	Additive Manufacturing of Patient-Customizable Scaffolds for Tubular Tissues Using the Melt-Drawing Method. Materials, 2016, 9, 893.	1.3	13
28	Microstructure and Wear Properties of Electron Beam Melted Ti-6Al-4V Parts: A Comparison Study against As-Cast Form. Metals, 2016, 6, 284.	1.0	47
29	Anisotropic Mechanical Properties in a Big-Sized Ti-6Al-4V Plate Fabricated by Electron Beam Melting. , 2016, , 5-12.		11
30	Hybrid microscaffold-based 3D bioprinting of multi-cellular constructs with high compressive strength: A new biofabrication strategy. Scientific Reports, 2016, 6, 39140.	1.6	97
31	Selective laser melting of stainless steel 316L with low porosity and high build rates. Materials and Design, 2016, 104, 197-204.	3.3	511
32	Geometry dependence of microstructure and microhardness for selective electron beam-melted Tiâ€“6Alâ€“4V parts. Virtual and Physical Prototyping, 2016, 11, 183-191.	5.3	44
33	Revealing martensitic transformation and Î±/Î² interface evolution in electron beam melting three-dimensional-printed Ti-6Al-4V. Scientific Reports, 2016, 6, 26039.	1.6	114
34	Characterization, mechanical behavior and in vitro evaluation of a melt-drawn scaffold for esophageal tissue engineering. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 57, 246-259.	1.5	27
35	Spatial and geometrical-based characterization of microstructure and microhardness for an electron beam melted Tiâ€“6Alâ€“4V component. Materials and Design, 2016, 95, 287-295.	3.3	112
36	Precipitation of ÃŸ-NiAl/Laves eutectics in a Ru-containing single crystal Ni-Based superalloy. Metals and Materials International, 2015, 21, 222-226.	1.8	8

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37	Fabrication and microstructural characterisation of additive manufactured Ti-6Al-4V parts by electron beam melting. Virtual and Physical Prototyping, 2015, 10, 13-21.	5.3	70
38	An experimental and simulation study on build thickness dependent microstructure for electron beam melted Tiâ€“6Alâ€“4V. Journal of Alloys and Compounds, 2015, 646, 303-309.	2.8	105
39	Graded microstructure and mechanical properties of additive manufactured Tiâ€“6Alâ€“4V via electron beam melting. Acta Materialia, 2015, 97, 1-16.	3.8	535
40	Fabrication and in vitro analysis of tubular scaffolds by melt-drawing for esophageal tissue engineering. Materials Letters, 2015, 159, 424-427.	1.3	22
41	Variation of microstructure by Ru additions in a single crystal Ni based superalloy. Materials Science and Technology, 2014, 30, 289-300.	0.8	8
42	Spinodal Decomposition Mechanism of Î³â€² Precipitation in a Single Crystal Ni-Based Superalloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 4725-4730.	1.1	22
43	Atom probe tomography of secondary Î³â€² precipitation in a single crystal Ni-based superalloy after isothermal aging at 1100Â°C. Journal of Alloys and Compounds, 2014, 611, 389-394.	2.8	32
44	Investigation on the Secondary Reaction Zone Formation of Metallic Bond Coating Layer Produced by High Velocity Oxygen Fuel Deposition in a Ni-Based Single Crystal Superalloy. Journal of Korean Institute of Metals and Materials, 2014, 52, 397-406.	0.4	7
45	Application of Electron Beam Melting (EBM) in Additive Manufacturing of an Impeller. , 2014, , .		14
46	Atom probe tomographic study of L10 martensite in a Pt-modified NiCoCrAlYTa bond coating. Corrosion Science, 2013, 76, 1-5.	3.0	19
47	Characterization of topologically close-packed phases in secondary reaction zone in a coated CMSX-4 single crystal Ni-based superalloy. Journal of Materials Science, 2013, 48, 1085-1089.	1.7	27
48	Effect of Ru additions on very high temperature creep properties of a single crystal Ni-based superalloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 580, 21-35.	2.6	62
49	MICROSTRUCTURAL CHARACTERIZATION OF A Ru--CONTAINING SINGLE CRYSTAL NICKEL--BASED SUPERALLOY. Jinshu Xuebao/Acta Metallurgica Sinica, 2013, 48, 569-574.	0.3	1
50	Intergrowth of P phase with Âµ phase in a Ru-containing single-crystal Ni-based superalloy. Philosophical Magazine Letters, 2012, 92, 556-562.	0.5	29
51	Effect of ruthenium on tensile properties of a single crystal Ni-based superalloy. Metals and Materials International, 2012, 18, 769-775.	1.8	6
52	Effect of Ruthenium on Precipitation Behavior of the Topologically Close-Packed Phase in a Single-Crystal Ni-Based Superalloy During High-Temperature Exposure. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 3608-3614.	1.1	42
53	Influence of Cr addition on microstructure of a 5% Re-containing single crystal nickel-based superalloy. Transactions of Nonferrous Metals Society of China, 2011, 21, 1004-1008.	1.7	15
54	Measurements of Î³/Î³' Lattice Misfit and Î³' Volume Fraction for a Ru-containing Nickel-based Single Crystal Superalloy. Journal of Materials Science and Technology, 2011, 27, 899-905.	5.6	31

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55	Effect of ruthenium on high-temperature creep rupture life of a single crystal nickel-based superalloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 8381-8388.	2.6	51
56	Anisotropic Mechanical Properties in a Big-Sized Ti-6Al-4V Plate Fabricated by Electron Beam Melting. , 0, , 1-12.		1