

Overview of Materials Qualification Needs for Metal Ad

Jom

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Citation Report

#	ARTICLE	IF	CITATIONS
1	When Risks Cannot Be Seen: Regulating Uncertainty in Emerging Technologies. SSRN Electronic Journal, 0, , .	0.4	0
4	Strengths and Microstructure of SUS316L Fabricated by Selective Laser Melting. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2016, 80, 772-777.	0.2	4
5	Laser Beam Melting of NdFeB for the production of rare-earth magnets. , 2016, , .		17
6	Role of geometry on properties of additively manufactured Ti-6Al-4V structures fabricated using laser based directed energy deposition. Materials and Design, 2016, 106, 482-494.	3.3	113
7	Metal Additive Manufacturing: A Review of Mechanical Properties. Annual Review of Materials Research, 2016, 46, 151-186.	4.3	1,174
8	Geometry dependence of microstructure and microhardness for selective electron beam-melted Ti-6Al-4V parts. Virtual and Physical Prototyping, 2016, 11, 183-191.	5.3	44
9	Direct metal additive manufacturing processes and their sustainable applications for green technology: A review. International Journal of Precision Engineering and Manufacturing - Green Technology, 2016, 3, 381-395.	2.7	188
10	Defect distribution and microstructure heterogeneity effects on fracture resistance and fatigue behavior of EBM Ti-6Al-4V. International Journal of Fatigue, 2017, 94, 263-287.	2.8	191
11	Progress Towards Metal Additive Manufacturing Standardization to Support Qualification and Certification. Jom, 2017, 69, 439-455.	0.9	279
12	High-temperature oxidation behavior of laser-aided additively manufactured NiCrAlY coating. Corrosion Science, 2017, 118, 168-177.	3.0	47
13	Process monitoring and inspection systems in metal additive manufacturing: Status and applications. International Journal of Precision Engineering and Manufacturing - Green Technology, 2017, 4, 235-245.	2.7	145
14	Simulation of metal additive manufacturing microstructures using kinetic Monte Carlo. Computational Materials Science, 2017, 135, 78-89.	1.4	240
15	Microstructure-Informed Cloud Computing for Interoperability of Materials Databases and Computational Models: Microtextured Regions in Ti Alloys. Integrating Materials and Manufacturing Innovation, 2017, 6, 111-126.	1.2	11
16	Qualification of AM parts: Extreme value statistics applied to tomographic measurements. Materials and Design, 2017, 131, 32-48.	3.3	182
17	When risks cannot be seen: Regulating uncertainty in emerging technologies. Research Policy, 2017, 46, 1215-1233.	3.3	84
18	Development of strength-hardness relationships in additively manufactured titanium alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 693, 214-224.	2.6	81
19	Direct metal writing: Controlling the rheology through microstructure. Applied Physics Letters, 2017, 110, .	1.5	40
20	Process-Structure Linkages Using a Data Science Approach: Application to Simulated Additive Manufacturing Data. Integrating Materials and Manufacturing Innovation, 2017, 6, 54-68.	1.2	89

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21	Material issues in additive manufacturing: A review. Journal of Manufacturing Processes, 2017, 25, 185-200.	2.8	632
22	Cluster 1: commercializing additive manufacturing—hurdles in materials characterization and testing. Translational Materials Research, 2017, 4, 044001.	1.2	4
23	An overview of powder granulometry on feedstock and part performance in the selective laser melting process. Additive Manufacturing, 2017, 18, 228-255.	1.7	201
24	Meso-scale defect evaluation of selective laser melting using spatially resolved acoustic spectroscopy. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2017, 473, 20170194.	1.0	13
25	Additive manufacturing of metals: a brief review of the characteristic microstructures and properties of steels, Ti-6Al-4V and high-entropy alloys. Science and Technology of Advanced Materials, 2017, 18, 584-610.	2.8	660
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27	Active Control of Microstructure in Powder-Bed Fusion Additive Manufacturing of Ti6Al4V. Advanced Engineering Materials, 2017, 19, 1700333.	1.6	13
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29	Influence of Powder Characteristics on Formation of Porosity in Additive Manufacturing of Ti-6Al-4V Components. Journal of Materials Engineering and Performance, 2017, 26, 4138-4147.	1.2	65
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31	Toward a Digital Thread and Data Package for Metals-Additive Manufacturing. Smart and Sustainable Manufacturing Systems, 2017, 1, 75-99.	0.3	32
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36	Numerical investigation of laser deposited Al-based coatings on Ti-6Al-4V alloy. , 2018, , .		30
37	Understanding grain evolution in additive manufacturing through modeling. Additive Manufacturing, 2018, 21, 255-268.	1.7	88
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45	Modeling of Powder Bed Manufacturing Defects. Journal of Materials Engineering and Performance, 2018, 27, 32-43.	1.2	55
46	Fatigue properties of AlSi10Mg obtained by additive manufacturing: Defect-based modelling and prediction of fatigue strength. Engineering Fracture Mechanics, 2018, 187, 165-189.	2.0	338
47	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
48	Strengths and Microstructure of SUS316L Fabricated by Selective Laser Melting. Materials Transactions, 2018, 59, 482-487.	0.4	7
49	Differential Performance Signature Qualification for Additively Manufactured Parts. , 2018, , .		3
50	Spall fracture in additive manufactured tantalum. Journal of Applied Physics, 2018, 124, .	1.1	40
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60	Repercussions of powder contamination on the fatigue life of additive manufactured maraging steel. Additive Manufacturing, 2018, 24, 13-19.	1.7	17
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63	Machine Learning to Optimize Additive Manufacturing Parameters for Laser Powder Bed Fusion of Inconel 718. Minerals, Metals and Materials Series, 2018, , 595-610.	0.3	43
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66	Impact of Powder Variability on the Microstructure and Mechanical Behavior of Selective Laser Melted Alloy 718. Minerals, Metals and Materials Series, 2018, , 89-113.	0.3	10
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72	Quantification and certification of additive manufacturing materials and processes. , 2018, , 181-213.		17
73	In-Process Monitoring of Material Cross-Contamination Defects in Laser Powder Bed Fusion. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2018, 140, .	1.3	54
74	Integrated Computational and Experimental Methods for Additive Manufacturing. Jom, 2018, 70, 1587-1588.	0.9	1

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75	Ambient and High-Temperature Bulk Characterization of Additively Manufactured Ti-6Al-4V Using Neutron Diffraction. <i>Jom</i> , 2018, 70, 1714-1722.	0.9	13
76	LCF behaviour and a comprehensive life prediction model for AlSi10Mg obtained by SLM. <i>International Journal of Fatigue</i> , 2018, 117, 47-62.	2.8	67
77	Influence of defects, surface roughness and HIP on the fatigue strength of Ti-6Al-4V manufactured by additive manufacturing. <i>International Journal of Fatigue</i> , 2018, 117, 163-179.	2.8	337
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87	Fatigue crack growth behavior of a selective laser melted AlSi10Mg. <i>Engineering Fracture Mechanics</i> , 2019, 217, 106564.	2.0	38
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96	Assessing printability maps in additive manufacturing of metal alloys. Acta Materialia, 2019, 176, 199-210.	3.8	146
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121	Status, comparison, and future of the representations of additive manufacturing data. <i>CAD Computer Aided Design</i> , 2019, 111, 44-64.	1.4	55
122	Anisotropic Mechanical Behavior of Additive Manufactured AISI 316L Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019, 50, 2014-2021.	1.1	47
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136	Dual-Notch Void Model to Explain the Anisotropic Strengths of 3D Printed Polymers. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2020, 142, .	0.8	7
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146	Fatigue strength prediction of laser powder bed fusion processed Inconel 625 specimens with intentionally-seeded porosity: Feasibility study. <i>International Journal of Fatigue</i> , 2020, 132, 105394.	2.8	30

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