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Study of the Environmental Implications of Using Metal Powder in Additive Manufacturing and Its Handling

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#	Paper	IF	Citations
35	A review on metal powders in additive manufacturing. 2020 ,		1
34	Design and Tailoring of Alloys for Additive Manufacturing. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020 , 51, 6000-6019	2.3	26
33	Nanoparticle Exposure and Workplace Measurements During Processes Related to 3D Printing of a Metal Object. <i>Frontiers in Public Health</i> , 2020 , 8, 608718	6	8
32	Microstructure and mechanical properties of Ti ₆ Al ₄ V-reinforced Ni204-based laser-cladding composite coating. <i>Ceramics International</i> , 2021 , 47, 5918-5928	5.1	11
31	Impact of 3D Printing on the environment: A literature-based study. <i>Sustainable Operations and Computers</i> , 2021 , 2, 57-63	13.4	10
30	Powder characterization methods, standards, and state of the art. 2021 , 491-527		1
29	The Effects of Virgin and Recycled PA12 Powders in SLS Processes on Occupational Exposures. <i>International Journal of Environmental Science and Development</i> , 2021 , 12, 339-345	0.4	1
28	Functionally Graded AISI 316L and AISI H13 Manufactured by L-DED for Die and Mould Applications. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 771	2.6	7
27	Applications of Additively Manufactured Tools in Abrasive Machining-A Literature Review. <i>Materials</i> , 2021 , 14,	3.5	1
26	Density and shrinkage evaluation of AISI 316L parts printed via FDM process. <i>Materials and Manufacturing Processes</i> , 2021 , 36, 1535-1543	4.1	8
25	In vitro safety evaluation of rare earth-lean alloys for permanent magnets manufacturing. <i>Scientific Reports</i> , 2021 , 11, 12633	4.9	3
24	Role of additive manufacturing applications towards environmental sustainability. <i>Advanced Industrial and Engineering Polymer Research</i> , 2021 ,	7.3	5
23	Micro-machining of additively manufactured metals: a review. <i>International Journal of Advanced Manufacturing Technology</i> , 1	3.2	0
22	Toxicological evaluation of MnAl based permanent magnets using different in vitro models. <i>Chemosphere</i> , 2021 , 263, 128343	8.4	4
21	Research of 316L Metallic Powder for Use in SLM 3D Printing. <i>Advances in Materials Science</i> , 2020 , 20, 5-15	1.8	5
20	A monitoring framework based on exergetic analysis for sustainability assessment of direct laser metal deposition process. <i>International Journal of Advanced Manufacturing Technology</i> , 1	3.2	0
19	Systematic analysis of comparative studies between additive and conventional manufacturing focusing on the environmental performance of logistics operations. <i>Gestão & Produção</i> , 2020 , 27,	0.9	1

18	Waste Valorization through Additive Manufacturing in an Industrial Symbiosis Setting. <i>Sustainability</i> , 2021 , 13, 234	3.6	3
17	Cost and environmental impact assessment of stainless steel microscale chemical reactor components using conventional and additive manufacturing processes. <i>Journal of Manufacturing Systems</i> , 2022 , 62, 202-217	9.1	0
16	Ion release and biocompatibility of Co-Cr alloy fabricated by selective laser melting from recycled Co-Cr powder: An invitro study. <i>Journal of Prosthetic Dentistry</i> , 2021 ,	4	1
15	Toxicity evaluation of particles formed during 3D-printing: cytotoxic, genotoxic, and inflammatory response in lung and macrophage models.. <i>Toxicology</i> , 2022 , 467, 153100	4.4	1
14	Selection for additive manufacturing using hybrid MCDM technique considering sustainable concepts. <i>Rapid Prototyping Journal</i> , 2022 , ahead-of-print,	3.8	4
13	Direct metal laser sintering of Ti-6Al-4V parts with reused powder. <i>International Journal of Advanced Manufacturing Technology</i> , 1	3.2	1
12	Sustainability Assessment of Products manufactured by the Laser Powder Bed Fusion (LPBF) Process. <i>Procedia CIRP</i> , 2022 , 105, 243-248	1.8	2
11	Comparative life cycle assessment of two different manufacturing technologies: laser additive manufacturing and traditional technique. <i>Procedia CIRP</i> , 2022 , 105, 700-705	1.8	0
10	Non-symmetrical design of coaxial nozzle for minimal gas consumption on L-DED process for Ti6Al4V reactive alloy. <i>Journal of Manufacturing Processes</i> , 2022 , 78, 218-230	5	
9	Table_1.DOCX. 2020 ,		
8	The sustainability of emerging technologies for use in pharmaceutical manufacturing. <i>Expert Opinion on Drug Delivery</i> ,	8	2
7	Evaluation and comparison of mineralogical, micromeritics and rheological properties of waste machining chips, coal fly ash particulates with metal and ceramic powders. <i>Powder Technology</i> , 2022 , 408, 117696	5.2	1
6	A path planning method for surface damage repair using a robot-assisted laser cladding process.		0
5	A framework to assess the sustainability of additive manufacturing for spare parts. 2022 , 55, 1509-1514		1
4	Additive manufacturing process design for complex aircraft components.		0
3	Sustainability Study of Additive Manufacturing Enabled Part Consolidation.		0
2	Sustainable Additive Manufacturing and Environmental Implications: Literature Review. 2023 , 15, 504		3
1	The enhancement of mechanical properties via post-heat treatments of AISI 630 parts printed with material extrusion.		0

