Elena Bassoli

List of Publications by Year
in descending order

57 papers	1,302 citations	471061 17 h-index	377514 34 g-index
58 all docs	58 docs citations	58 times ranked	1374 citing authors

#	Article	IF	Citations
1	Effective Mechanical Properties of AlSi7Mg Additively Manufactured Cubic Lattice Structures. 3D Printing and Additive Manufacturing, 2022, 9, 326-336.	1.4	15
2	Synergy between topology optimization and additive manufacturing in the automotive field. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2021, 235, 555-567.	1.5	25
3	Repeatability of the fatigue performance of additively manufactured A357.0 under different thermal treatment conditions. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 805, 140594.	2.6	8
4	Design for Additive Manufacturing and for Machining in the Automotive Field. Applied Sciences (Switzerland), 2021, 11, 7559.	1.3	11
5	Environmental sustainability of orthopedic devices produced with powder bed fusion. Journal of Industrial Ecology, 2020, 24, 681-694.	2.8	10
6	Cross-Contamination Quantification in Powders for Additive Manufacturing: A Study on Ti-6Al-4V and Maraging Steel. Materials, 2019, 12, 2342.	1.3	6
7	Laser Powder Bed Fusion: tailoring the microstructure of alloys for biomedical applications. Materials Today: Proceedings, 2019, 19, 24-32.	0.9	3
8	Solid-State Phase Transformations in Thermally Treated Tiâ€“6Alâ€“4V Alloy Fabricated via Laser Powder Bed Fusion. Materials, 2019, 12, 2876.	1.3	7
9	Experimental approach to measure the restraining force in deep drawing by means of a versatile draw bead simulator. Materials and Manufacturing Processes, 2019, 34, 1286-1295.	2.7	10
10	Metastable Alâ€“Siâ€“Ni Alloys for Additive Manufacturing: Structural Stability and Energy Release during Heating. Metals, 2019, 9, 483.	1.0	2
11	Tiâ€“Zrâ€“Siâ€“Nb Nanocrystalline Alloys and Metallic Glasses: Assessment on the Structure, Thermal Stability, Corrosion and Mechanical Properties. Materials, 2019, 12, 1551.	1.3	4
12	Precipitates formation and evolution in a Co-based alloy produced by powder bed fusion. Journal of Alloys and Compounds, 2019, 797, 652-658.	2.8	16
13	Effect of Three Different Finishing Processes on the Surface Morphology and Fatigue Life of A357.0 Parts Produced by Laserâ€Based Powder Bed Fusion. Advanced Engineering Materials, 2019, 21, 1801357.	1.6	16
14	Powder Bed Fusion of Biomedical Co-Cr-Mo and Ti-6Al-4V Alloys: Microstructure and Mechanical Properties. Advanced Materials Research, 2019, 1151, 3-7.	0.3	3
15	Fatigue life and microstructure of additive manufactured Ti6Al4V after different finishing processes. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 755, 1-9.	2.6	75
16	Development of Laser-Based Powder Bed Fusion Process Parameters and Scanning Strategy for New Metal Alloy Grades: A Holistic Method Formulation. Materials, 2018, 11, 2356.	1.3	24
17	A Study on the Use of XCT and FEA to Predict the Elastic Behavior of Additively Manufactured Parts of Cylindrical Geometry. Journal of Nondestructive Evaluation, 2018, 37, 1.	1.1	7
18	Assay of Secondary Anisotropy in Additively Manufactured Alloys for Dental Applications. Materials, 2018, 11, 1831.	1.3	8

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19	Repercussions of powder contamination on the fatigue life of additive manufactured maraging steel. Additive Manufacturing, 2018, 24, 13-19.	1.7	17
20	Fatigue Behavior of As-Built L-PBF A357.0 Parts. Metals, 2018, 8, 634.	1.0	22
21	Experimental investigation and optimisation of laser direct part marking of Inconel 718. Optics and Lasers in Engineering, 2018, 111, 154-166.	2.0	15
22	Effects of build orientation and element partitioning on microstructure and mechanical properties of biomedical Ti-6Al-4V alloy produced by laser sintering. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 71, 1-9.	1.5	39
23	DREAM: Driving up reliability and efficiency of additive manufacturing. , 2017, , .		1
24	Influence of electrode size and geometry in electro-discharge drilling of Inconel 718. International Journal of Advanced Manufacturing Technology, 2016, 86, 2329-2337.	1.5	20
25	Biomedical Co-Cr-Mo Components Produced by Direct Metal Laser Sintering1. Materials Today: Proceedings, 2016, 3, 889-897.	0.9	33
26	Effects of thermal treatments on microstructure and mechanical properties of a Coâ€“Crâ€“Moâ€“W biomedical alloy produced by laser sintering. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 60, 106-117.	1.5	86
27	Multi-disciplinary approach in engineering education: learning with additive manufacturing and reverse engineering. Rapid Prototyping Journal, 2015, 21, 598-603.	1.6	25
28	Tolerance Analysis for Cast vs Machined Dental Implants. Procedia CIRP, 2015, 33, 263-268.	1.0	5
29	Impact of additive manufacturing on engineering education â€“ evidence from Italy. Rapid Prototyping Journal, 2015, 21, 535-555.	1.6	50
30	On the chaotic nature of electro-discharge machining. International Journal of Advanced Manufacturing Technology, 2015, 79, 985-996.	1.5	9
31	Surface and Sub Surface Evaluation in Coated-Wire Electrical Discharge Machining (WEDM) of INCONELÂ® Alloy 718. Procedia CIRP, 2015, 33, 388-393.	1.0	13
32	Structural characterization of biomedical Coâ€“Crâ€“Mo components produced by direct metal laser sintering. Materials Science and Engineering C, 2015, 48, 263-269.	3.8	110
33	Studies on electrodischarge drilling of an Al2O3â€“TiC composite. International Journal of Advanced Manufacturing Technology, 2013, 66, 1757.	1.5	16
34	Investigation into the failure of Inconel exhaust collector produced by laser consolidation. Engineering Failure Analysis, 2013, 35, 397-404.	1.8	18
35	Bridges of debris in the EDD process: Going beyond the thermo-electrical model. Journal of Materials Processing Technology, 2013, 213, 349-360.	3.1	15
36	Additive manufacturing as a cost-effective way to produce metal parts. , 2013, , 3-8.		10

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37	Electro-discharge drilling on DMLS parts in Co-Cr-Mo alloy. , 2013, , 237-242.		0
38	Joining mechanisms and mechanical properties of PA composites obtained by selective laser sintering. Rapid Prototyping Journal, 2012, 18, 100-108.	1.6	34
39	A combined additive layer manufacturing / indirect replication method to prototype 3D vascular-like structures of soft tissue and endocrine organs. Virtual and Physical Prototyping, 2012, 7, 3-11.	5.3	14
40	Gli organi endocrini bioartificiali: prospettive della ricerca traslazionale applicata alla medicina rigenerativa in endocrinologia. L Endocrinologo, 2012, 13, 113-121.	0.0	0
41	Preparation and characterization of poly (butylene terephthalate)/graphene composites by in-situ polymerization of cyclic butylene terephthalate. Polymer, 2012, 53, 897-902.	1.8	84
42	Electrodischarge drilling performance on parts produced by DMLS. International Journal of Advanced Manufacturing Technology, 2012, 58, 1003-1018.	1.5	8
43	Performance Optimization in Machining of Aluminium Alloys for Moulds Production: HSM and EDM. , 2011, , .		4
44	Dimensional Tolerances and Assembly Accuracy of Dental Implants and Machined Versus Cast-On Abutments. Clinical Implant Dentistry and Related Research, 2011, 13, 134-140.	1.6	15
45	Ex situ bioengineering of bioartificial endocrine glands: A new frontier in regenerative medicine of soft tissue organs. Annals of Anatomy, 2011, 193, 381-394.	1.0	22
46	High-Speed Milling of Tool Steel Dies for Aluminium Extrusion: Surface Roughness, Dimensional Tolerance and Chip Removal Mechanisms. Materials and Manufacturing Processes, 2011, 26, 764-769.	2.7	6
47	Grinding Micromechanisms of a Sintered Friction Material. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2011, 133, .	1.3	6
48	Thermoplastic Resin Transfer Moulding in a rapid manufactured mould. , 2011, , 413-421.		0
49	Deep Drilling of Aluminium Die-Cast Parts: Surface Roughness, Dimensional Tolerance, and Toolâ€“Chip Interaction. Materials and Manufacturing Processes, 2010, 25, 442-449.	2.7	11
50	Direct metal rapid casting: mechanical optimization and tolerance calculation. Rapid Prototyping Journal, 2009, 15, 238-243.	1.6	32
51	On the effects of build orientation in powder-fed Additive Layer Manufacture of steel 316L. , 2009, , .		0
52	Study of the EDM process effects on aluminium alloys. International Journal of Manufacturing Technology and Management, 2008, 14, 326.	0.1	5
53	3D printing technique applied to rapid casting. Rapid Prototyping Journal, 2007, 13, 148-155.	1.6	234
54	Characterisation of innovative materials for Direct Laser Sintering. Materials Research Society Symposia Proceedings, 2004, 860, 7.	0.1	0

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55	Direct Laser Sintering of metal parts: characterisation and evaluation of joining mechanisms. Materials Research Society Symposia Proceedings, 2004, 860, 19.	0.1	0
56	Plasma Transferred Arc deposition of powdered high performances alloys: process parameters optimisation as a function of alloy and geometrical configuration. Surface and Coatings Technology, 2004, 187, 265-271.	2.2	72
57	On the Effect of Electrodischarge Drilling on the Fatigue Life of Inconel 718. Advanced Materials Research, 0, 891-892, 1451-1456.	0.3	1