

Flaviana Calignano

List of Publications by Year in descending order

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109
papers

5,374
citations

81839

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88593

70
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115
all docs

115
docs citations

115
times ranked

4550
citing authors

#	ARTICLE	IF	CITATIONS
1	In situ alloying of AlSi10Mg-5Åwt% Ni through laser powder bed fusion and subsequent heat treatment. Journal of Alloys and Compounds, 2022, 904, 164081.	2.8	16
2	Photopolymerization of Ceramic Resins by Stereolithography Process: A Review. Applied Sciences (Switzerland), 2022, 12, 3591.	1.3	26
3	Effects of the solution and first aging treatment applied to as-built and post-HIP CM247 produced via laser powder bed fusion (LPBF). Journal of Alloys and Compounds, 2022, 905, 164213.	2.8	12
4	Production of Dense Cu-10Sn Part by Laser Powder Bed Fusion with Low Surface Roughness and High Dimensional Accuracy. Materials, 2022, 15, 3352.	1.3	1
5	Redesigning a flexural joint for metal-based additive manufacturing. Procedia CIRP, 2021, 100, 469-475.	1.0	1
6	3D Printing of a Monolithic K/Ka-Band Dual-Circular Polarization Antenna-Feeding Network. IEEE Access, 2021, 9, 88243-88255.	2.6	11
7	Experimental validation of laser powder bed fusion simulation. IOP Conference Series: Materials Science and Engineering, 2021, 1091, 012048.	0.3	2
8	Failure mode analysis on compression of lattice structures with internal cooling channels produced by laser powder bed fusion. Advances in Manufacturing, 2021, 9, 403-413.	3.2	3
9	Optimizing Quality Inspection and Control in Powder Bed Metal Additive Manufacturing: Challenges and Research Directions. Proceedings of the IEEE, 2021, 109, 326-346.	16.4	18
10	Effect of the build orientation on the mechanical performance of polymeric parts produced by multi jet fusion and selective laser sintering. Journal of Manufacturing Processes, 2021, 65, 271-282.	2.8	34
11	Experimental testing of 3D printed polymeric heat exchangers. IOP Conference Series: Materials Science and Engineering, 2021, 1136, 012047.	0.3	2
12	Experimental assessment of compensated distortion in selective laser melting of Ti6Al4V parts. IOP Conference Series: Materials Science and Engineering, 2021, 1136, 012048.	0.3	2
13	Enhanced Efficiency and Reduced Side Lobe Level Convex Conformal Reflectarray. Applied Sciences (Switzerland), 2021, 11, 9893.	1.3	5
14	Very High Q-Factor Bandpass Filter Using Additive Manufacturing. , 2021, , .		6
15	Design and characterization of trabecular structures for an anti-icing sandwich panel produced by additive manufacturing. Journal of Sandwich Structures and Materials, 2020, 22, 1111-1131.	2.0	13
16	Understanding Friction and Wear Behavior at the Nanoscale of Aluminum Matrix Composites Produced by Laser Powder Bed Fusion. Advanced Engineering Materials, 2020, 22, 1900815.	1.6	6
17	Investigation of the Mechanical Properties of a Carbon Fibre-Reinforced Nylon Filament for 3D Printing. Machines, 2020, 8, 52.	1.2	52
18	Disclosing the build-up mechanisms of multi jet fusion: Experimental insight into the characteristics of starting materials and finished parts. Journal of Manufacturing Processes, 2020, 57, 244-253.	2.8	15

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19	Accuracy of down-facing surfaces in complex internal channels produced by laser powder bed fusion (L-PBF). <i>Procedia CIRP</i> , 2020, 88, 423-426.	1.0	4
20	Comparison of dimensional tolerance grades for metal AM processes. <i>Procedia CIRP</i> , 2020, 88, 399-404.	1.0	14
21	Comparing geometric tolerance capabilities of additive manufacturing systems for polymers. <i>Additive Manufacturing</i> , 2020, 32, 101103.	1.7	35
22	Additive Manufacturing (AM) of Metallic Alloys. <i>Crystals</i> , 2020, 10, 704.	1.0	2
23	Accuracy of complex internal channels produced by laser powder bed fusion process. <i>Journal of Manufacturing Processes</i> , 2020, 54, 48-53.	2.8	18
24	Additive Manufacturing Redesigning of Metallic Parts for High Precision Machines. <i>Crystals</i> , 2020, 10, 161.	1.0	13
25	Ti-6Al-4V lattice structures produced by EBM: Heat treatment and mechanical properties. <i>Procedia CIRP</i> , 2020, 88, 411-416.	1.0	13
26	A357 Alloy by LPBF for Industry Applications. <i>Materials</i> , 2020, 13, 1488.	1.3	14
27	Evaluation of Corrosion Resistance of Alloy 625 Obtained by Laser Powder Bed Fusion. <i>Journal of the Electrochemical Society</i> , 2019, 166, C3399-C3408.	1.3	24
28	Influence of Process Parameters on the Porosity, Accuracy, Roughness, and Support Structures of Hastelloy X Produced by Laser Powder Bed Fusion. <i>Materials</i> , 2019, 12, 3178.	1.3	21
29	High-performance microwave waveguide devices produced by laser powder bed fusion process. <i>Procedia CIRP</i> , 2019, 79, 85-88.	1.0	11
30	A methodology for evaluating the aesthetic quality of 3D printed parts. <i>Procedia CIRP</i> , 2019, 79, 95-100.	1.0	14
31	Machining induced residual stresses in AlSi10Mg component produced by Laser Powder Bed Fusion (L-PBF). <i>Procedia CIRP</i> , 2019, 79, 101-106.	1.0	14
32	Texture and Microstructural Features at Different Length Scales in Inconel 718 Produced by Selective Laser Melting. <i>Materials</i> , 2019, 12, 1293.	1.3	58
33	Microstructure and Selective Corrosion of Alloy 625 Obtained by Means of Laser Powder Bed Fusion. <i>Materials</i> , 2019, 12, 1742.	1.3	16
34	Design of Additively Manufactured Structures for Biomedical Applications: A Review of the Additive Manufacturing Processes Applied to the Biomedical Sector. <i>Journal of Healthcare Engineering</i> , 2019, 1-6.	1.1	54
35	Statistical approach for electrochemical evaluation of the effect of heat treatments on the corrosion resistance of AlSi10Mg alloy by laser powder bed fusion. <i>Electrochimica Acta</i> , 2019, 305, 459-466.	2.6	39
36	Corrosion behavior of AlSi10Mg alloy produced by laser powder bed fusion under chloride exposure. <i>Corrosion Science</i> , 2019, 152, 101-108.	3.0	41

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37	Electromagnetic and mechanical analyses of a 3D-printed ka-band integrated twist and orthomode transducer. , 2019, , .		6
38	Integration of Microwave Components through Selective Laser Melting. , 2019, , .		0
39	A Metal Powder Bed Fusion Process in Industry: Qualification Considerations. Machines, 2019, 7, 72.	1.2	29
40	Corrosion resistance in chloride solution of the AlSi10Mg alloy obtained by means of LPBF. Surface and Interface Analysis, 2019, 51, 1159-1164.	0.8	15
41	An integrated design methodology for components produced by laser powder bed fusion (L-PBF) process. Virtual and Physical Prototyping, 2018, 13, 191-202.	5.3	66
42	Manufacturing of thin wall structures in AlSi10Mg alloy by laser powder bed fusion through process parameters. Journal of Materials Processing Technology, 2018, 255, 773-783.	3.1	52
43	Additive manufacturing of titanium alloys in the biomedical field: processes, properties and applications. Journal of Applied Biomaterials and Functional Materials, 2018, 16, 57-67.	0.7	136
44	Investigation of the accuracy and roughness in the laser powder bed fusion process. Virtual and Physical Prototyping, 2018, 13, 97-104.	5.3	121
45	TiO ₂ nanotube-based smart 3D electrodes by anodic oxidation of additively manufactured Ti6Al4V structures. Materials Today Communications, 2018, 15, 165-170.	0.9	4
46	Integration of an π -Plane Bend, a Twist, and a Filter in Ku/K-Band Through Additive Manufacturing. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 2210-2219.	2.9	46
47	Single scan track analyses on aluminium based powders. Journal of Materials Processing Technology, 2018, 255, 17-25.	3.1	70
48	Additive Manufacturing Technology for High Performances Feed Horn. , 2018, , .		1
49	3D Printing of Ka band Orthomode Transducers. , 2018, , .		7
50	Solution Treatment Study of Inconel 718 Produced by SLM Additive Technique in View of the Oxidation Resistance. Advanced Engineering Materials, 2018, 20, 1800351.	1.6	41
51	Influence of heat treatments on microstructure evolution and mechanical properties of Inconel 625 processed by laser powder bed fusion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 729, 64-75.	2.6	171
52	3-D Printing of High-Performance Feed Horns From Ku- to V-Bands. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 2036-2040.	2.4	32
53	Additive Manufacturing of Ka-Band Dual-Polarization Waveguide Components. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 3589-3596.	2.9	42
54	Corrosion Behavior of Heat-Treated AlSi10Mg Manufactured by Laser Powder Bed Fusion. Materials, 2018, 11, 1051.	1.3	54

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55	Development and Characterisation of Aluminium Matrix Nanocomposites AlSi10Mg/MgAl2O4 by Laser Powder Bed Fusion. <i>Metals</i> , 2018, 8, 175.	1.0	24
56	Laser Powder Bed Fusion of a High Strength Al-Si-Zn-Mg-Cu Alloy. <i>Metals</i> , 2018, 8, 300.	1.0	33
57	Investigation of accuracy and dimensional limits of part produced in aluminum alloy by selective laser melting. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 88, 451-458.	1.5	69
58	A study of the microstructure and the mechanical properties of Al Si Ni alloy produced via selective laser melting. <i>Journal of Alloys and Compounds</i> , 2017, 695, 1470-1478.	2.8	72
59	Microstructural and Mechanical Characterization of Aluminum Matrix Composites Produced by Laser Powder Bed Fusion. <i>Advanced Engineering Materials</i> , 2017, 19, 1700180.	1.6	31
60	Study of graphene oxide-based 3D printable composites: Effect of the in situ reduction. <i>Composites Part B: Engineering</i> , 2017, 124, 9-15.	5.9	98
61	Selective Laser Melting Manufacturing of Microwave Waveguide Devices. <i>Proceedings of the IEEE</i> , 2017, 105, 620-631.	16.4	108
62	Overview on Additive Manufacturing Technologies. <i>Proceedings of the IEEE</i> , 2017, 105, 593-612.	16.4	402
63	Characterization and Comparison of Inconel 625 Processed by Selective Laser Melting and Laser Metal Deposition. <i>Advanced Engineering Materials</i> , 2017, 19, 1600635.	1.6	128
64	Application of selective laser melting to the manufacturing of antenna-feed chain components. , 2017, , .		1
65	Manufacturing of waveguide components for SatCom through selective laser melting. , 2017, , .		6
66	Integration of RF functionalities in microwave waveguide components through 3D metal printing. , 2017, , .		10
67	Laser powder bed fusion of aluminum, titanium and nickel based alloys: Materials and design investigations. , 2017, , .		1
68	Feed system optimization for convex conformal reflectarray antennas. , 2017, , .		4
69	Additive manufacturing of antenna-feed chains. , 2017, , .		3
70	Experimental research activity on additive manufacturing of microwave passive waveguide components. , 2017, , .		5
71	On the Selective Laser Melting (SLM) of the AlSi10Mg Alloy: Process, Microstructure, and Mechanical Properties. <i>Materials</i> , 2017, 10, 76.	1.3	323
72	Effect of Process and Post-Process Conditions on the Mechanical Properties of an A357 Alloy Produced via Laser Powder Bed Fusion. <i>Metals</i> , 2017, 7, 68.	1.0	67

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73	A Robust Multifunctional Sandwich Panel Design with Trabecular Structures by the Use of Additive Manufacturing Technology for a New De-Icing System. <i>Technologies</i> , 2017, 5, 35.	3.0	25
74	Additive manufacturing of Ku/K _a -band waveguide filters: a comparative analysis among selective laser melting and stereolithography. <i>IET Microwaves, Antennas and Propagation</i> , 2017, 11, 1936-1942.	0.7	42
75	In Situ Thermal Generation of Silver Nanoparticles in 3D Printed Polymeric Structures. <i>Materials</i> , 2016, 9, 589.	1.3	69
76	Corrosion resistance of direct metal laser sintering AlSiMg alloy. <i>Surface and Interface Analysis</i> , 2016, 48, 818-826.	0.8	50
77	3D Printing of Conductive Complex Structures with In Situ Generation of Silver Nanoparticles. <i>Advanced Materials</i> , 2016, 28, 3712-3717.	11.1	200
78	3D Printing: 3D Printing of Conductive Complex Structures with In Situ Generation of Silver Nanoparticles (Adv. Mater. 19/2016). <i>Advanced Materials</i> , 2016, 28, 3711-3711.	11.1	7
79	Study of Internal Channel Surface Roughnesses Manufactured by Selective Laser Melting in Aluminum and Titanium Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016, 47, 3837-3844.	1.1	48
80	Effect of heat treatment on corrosion resistance of DMLS AlSi10Mg alloy. <i>Electrochimica Acta</i> , 2016, 206, 346-355.	2.6	105
81	Tribological Behavior of Aluminum Alloy AlSi10Mg-TiB ₂ Composites Produced by Direct Metal Laser Sintering (DMLS). <i>Journal of Materials Engineering and Performance</i> , 2016, 25, 3152-3160.	1.2	44
82	Microstructural investigation of as-fabricated and heat-treated Inconel 625 and Inconel 718 fabricated by direct metal laser sintering: contribution of Politecnico di Torino and Istituto Italiano di Tecnologia (IIT) di Torino. <i>Metal Powder Report</i> , 2016, 71, 273-278.	0.3	34
83	Passive heat transfer enhancement by 3D printed Pitot tube based heat sink. <i>International Communications in Heat and Mass Transfer</i> , 2016, 74, 36-39.	2.9	45
84	3D Printed PEG-Based Hybrid Nanocomposites Obtained by Sol-Gel Technique. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 5627-5633.	4.0	81
85	Abrasive Fluidized Bed (AFB) finishing of AlSi10Mg substrates manufactured by Direct Metal Laser Sintering (DMLS). <i>Additive Manufacturing</i> , 2016, 10, 15-23.	1.7	56
86	Additive Manufacturing of a Microbial Fuel Cell—A detailed study. <i>Scientific Reports</i> , 2015, 5, 17373.	1.6	71
87	A customer oriented methodology for reverse engineering software selection in the computer aided inspection scenario. <i>Computers in Industry</i> , 2015, 67, 54-71.	5.7	23
88	Additive manufacturing for agile legged robots with hydraulic actuation. , 2015, , .		30
89	Enhanced Topology of TE_{10} Plane Resonators for High-Power Satellite Applications. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2015, 63, 3361-3373.	2.9	41
90	Direct Fabrication of Joints based on Direct Metal Laser Sintering in Aluminum and Titanium Alloys. <i>Procedia CIRP</i> , 2014, 21, 129-132.	1.0	46

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91	Rough surfaces with enhanced heat transfer for electronics cooling by direct metal laser sintering. International Journal of Heat and Mass Transfer, 2014, 75, 58-74.	2.5	159
92	On the effect of process parameters on properties of AlSi10Mg parts produced by DMLS. Rapid Prototyping Journal, 2014, 20, 449-458.	1.6	101
93	Design optimization of supports for overhanging structures in aluminum and titanium alloys by selective laser melting. Materials & Design, 2014, 64, 203-213.	5.1	355
94	Combined reverse engineering and CAD approach for mould modelling in casting simulation. International Journal of Cast Metals Research, 2014, 27, 213-220.	0.5	3
95	A sensor for direct measurement of small convective heat fluxes: Validation and application to micro-structured surfaces. Experimental Thermal and Fluid Science, 2014, 55, 42-53.	1.5	23
96	Heat Transfer Enhancement by Finned Heat Sinks with Micro-structured Roughness. Journal of Physics: Conference Series, 2014, 494, 012009.	0.3	16
97	Studies on electrodischarge drilling of an Al ₂ O ₃ â€“TiC composite. International Journal of Advanced Manufacturing Technology, 2013, 66, 1757.	1.5	16
98	Influence of process parameters on surface roughness of aluminum parts produced by DMLS. International Journal of Advanced Manufacturing Technology, 2013, 67, 2743-2751.	1.5	372
99	From Powders to Dense Metal Parts: Characterization of a Commercial AlSiMg Alloy Processed through Direct Metal Laser Sintering. Materials, 2013, 6, 856-869.	1.3	257
100	Aluminium matrix composites (AMCs) by DMLS. , 2013, , 249-253.		0
101	Electro-discharge drilling on DMLS parts in Co-Cr-Mo alloy. , 2013, , 237-242.		0
102	Electrodischarge drilling performance on parts produced by DMLS. International Journal of Advanced Manufacturing Technology, 2012, 58, 1003-1018.	1.5	8
103	A Morphological Methodology for Three-dimensional Human Face Soft-tissue Landmarks Extraction: A Preliminary Study. Aesthetic Plastic Surgery, 2011, 35, 289-302.	0.5	10
104	Soft Tissue Diagnosis in Maxillofacial Surgery: A Preliminary Study on Three-Dimensional Face Geometrical Features-Based Analysis. Aesthetic Plastic Surgery, 2010, 34, 200-211.	0.5	25
105	Computer-aided morphological analysis for maxillo-facial diagnostic: a preliminary study. Journal of Plastic, Reconstructive and Aesthetic Surgery, 2010, 63, 218-226.	0.5	22
106	Additive Manufacturing of Al Alloys and Aluminium Matrix Composites (AMCs). , 0, , .		66
107	Experimental Study on Forces and Surface Roughness in Peripheral Grinding of an Aluminum Alloy. SAE International Journal of Materials and Manufacturing, 0, 12, .	0.3	0
108	Proposal of an Innovative Benchmark for the Evaluation of 3D Printing Accuracy for Photopolymers. Materials Science Forum, 0, 1048, 279-290.	0.3	1

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109	Additive Manufacturing of RF Waveguide Components. , 0, , .		3