Marialaura Tocci

List of Publications by Year
in descending order

32 papers	778 citations	471509 17 h-index	552781 26 g-index
32 all docs	32 docs citations	32 times ranked	694 citing authors

#	Article	IF	Citations
1	On the Anisotropic Impact Behavior of an Additively Manufactured AlSi10Mg Alloy in Different Heat Treatment Conditions. Journal of Materials Engineering and Performance, 2022, 31, 6806-6818.	2.5	2
2	Effect of different heat-treatment routes on the impact properties of an additively manufactured AlSi10Mg alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 802, 140671.	5.6	34
3	Wear Behavior of AlSi10Mg Alloy Produced by Laserâ€Based Powder Bed Fusion and Gravity Casting. Advanced Engineering Materials, 2021, 23, 2100147.	3.5	17
4	Effect of a New High-Pressure Heat Treatment on Additively Manufactured AlSi10Mg Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2020, 51, 4799-4811.	2.2	14
5	Review of Microstructures and Properties of Zinc Alloys. Metals, 2020, 10, 253.	2.3	68
6	Tensile Properties of a Cast Al-Si-Mg Alloy with Reduced Si Content and Cr Addition at High Temperature. Journal of Materials Engineering and Performance, 2019, 28, 7097-7108.	2.5	5
7	Investigation on fatigue strength of sand-blasted DMLS-AlSi10Mg alloy. Procedia Structural Integrity, 2019, 18, 119-128.	0.8	27
8	Dispersion hardening of an AlSi3Mg alloy with Cr and Mn addition. Materials Today: Proceedings, 2019, 10, 319-326.	1.8	4
9	Evaluation of the impact behaviour of AlSi10Mg alloy produced using laser additive manufacturing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 748, 38-51.	5.6	52
10	Wear and Cavitation Erosion Resistance of an AlMgSc Alloy Produced by DMLS. Metals, 2019, 9, 308.	2.3	26
11	Effect of the T6 heat treatment on corrosion behavior of additive manufactured and gravity cast AlSi10Mg alloy. Materials and Corrosion - Werkstoffe Und Korrosion, 2019, 70, 1808-1816.	1.5	26
12	Damaging of Ultrasonic Horn for Semisolid Feedstock Production. Solid State Phenomena, 2019, 285, 240-246.	0.3	0
13	Study of heat treatment parameters for additively manufactured AlSi10Mg in comparison with corresponding cast alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 739, 317-328.	5.6	168
14	Investigation of cavitation erosion resistance of AlSi10Mg alloy for additive manufacturing. Wear, 2018, 402-403, 124-136.	3.1	30
15	Experimental investigation on the formation of Cr-containing dispersoids in an AlSi3 alloy by X-ray synchrotron radiation. Journal of Alloys and Compounds, 2018, 742, 555-562.	5.5	4
16	Cavitation erosion behaviour of an innovative aluminium alloy for Hybrid Aluminium Forging. Wear, 2018, 394-395, 1-10.	3.1	19
17	Microstructure and Properties of Semi-Solid Aluminum Alloys: A Literature Review. Metals, 2018, 8, 181.	2.3	77
18	Rheological Characterization of Semi-Solid Metals: A Review. Metals, 2018, 8, 245.	2.3	35

#	ARTICLE	IF	CITATIONS
19	Evaluation of cavitation erosion resistance of Al-Si casting alloys: effect of eutectic and intermetallic phases. Frattura Ed Integrita Strutturale, 2018, 12, 218-230.	0.9	3
20	Tensile behavior and impact toughness of an AlSi3MgCr alloy. Procedia Structural Integrity, 2017, 3, 517-525.	0.8	3
21	Optimization of heat treatment parameters for additive manufacturing and gravity casting AlSi10Mg alloy. IOP Conference Series: Materials Science and Engineering, 2017, 264, 012016.	0.6	24
22	Effect of Cr and Mn addition and heat treatment on AlSi3Mg casting alloy. Materials Characterization, 2017, 123, 75-82.	4.4	35
23	Influence of Cr and Mn Addition and Heat Treatment on the Corrosion Behaviour of an AlSi3Mg Alloy. Key Engineering Materials, 2017, 754, 11-14.	0.4	1
24	Influence of Ultrasound Treatment on Cavitation Erosion Resistance of AlSi7 Alloy. Materials, 2017, 10, 256.	2.9	28
25	Investigation of mechanical properties of AlSi3Cr alloy. Frattura Ed Integrita Strutturale, 2017, 11, 337-351.	0.9	2
26	Characterization of a New Aluminium Alloy for the Production of Wheels by Hybrid Aluminium Forging. Procedia Engineering, 2015, 109, 303-311.	1.2	18
27	NO2 adsorption at ambient temperature on urea-modified ordered mesoporous carbon. Carbon, 2013, 63, 283-293.	10.3	40
28	Rheological Properties of Liquid Metals and Semisolid Materials at Low Solid Fraction. Solid State Phenomena, 0, 256, 133-138.	0.3	1
29	Rheological Investigation of Semisolid AlSi7 Alloy by Means of Oscillation Experiments. Solid State Phenomena, 0, 285, 385-390.	0.3	6
30	Study of High Temperature Properties of AlSi10Mg Alloy Produced by Laser-Based Powder Bed Fusion. Materials Science Forum, 0, 1016, 1485-1491.	0.3	6
31	Properties of Semisolid Parts: Comparison with Conventional and Innovative Manufacturing Technologies. Solid State Phenomena, 0, 327, 197-206.	0.3	2
32	Visco-Elastic Properties of Semi-Solid Alloys. Solid State Phenomena, 0, 327, 119-126.	0.3	1