

# Marialaura Tocci

## List of Publications by Year in descending order

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Version: 2024-02-01

32  
papers

778  
citations

471371

17  
h-index

552653

26  
g-index

32  
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32  
docs citations

32  
times ranked

694  
citing authors

#	ARTICLE	IF	CITATIONS
1	Study of heat treatment parameters for additively manufactured AlSi10Mg in comparison with corresponding cast alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 739, 317-328.	2.6	168
2	Microstructure and Properties of Semi-Solid Aluminum Alloys: A Literature Review. <i>Metals</i> , 2018, 8, 181.	1.0	77
3	Review of Microstructures and Properties of Zinc Alloys. <i>Metals</i> , 2020, 10, 253.	1.0	68
4	Evaluation of the impact behaviour of AlSi10Mg alloy produced using laser additive manufacturing. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 748, 38-51.	2.6	52
5	NO <sub>2</sub> adsorption at ambient temperature on urea-modified ordered mesoporous carbon. <i>Carbon</i> , 2013, 63, 283-293.	5.4	40
6	Effect of Cr and Mn addition and heat treatment on AlSi3Mg casting alloy. <i>Materials Characterization</i> , 2017, 123, 75-82.	1.9	35
7	Rheological Characterization of Semi-Solid Metals: A Review. <i>Metals</i> , 2018, 8, 245.	1.0	35
8	Effect of different heat-treatment routes on the impact properties of an additively manufactured AlSi10Mg alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 802, 140671.	2.6	34
9	Investigation of cavitation erosion resistance of AlSi10Mg alloy for additive manufacturing. <i>Wear</i> , 2018, 402-403, 124-136.	1.5	30
10	Influence of Ultrasound Treatment on Cavitation Erosion Resistance of AlSi7 Alloy. <i>Materials</i> , 2017, 10, 256.	1.3	28
11	Investigation on fatigue strength of sand-blasted DMLS-AlSi10Mg alloy. <i>Procedia Structural Integrity</i> , 2019, 18, 119-128.	0.3	27
12	Wear and Cavitation Erosion Resistance of an AlMgSc Alloy Produced by DMLS. <i>Metals</i> , 2019, 9, 308.	1.0	26
13	Effect of the T6 heat treatment on corrosion behavior of additive manufactured and gravity cast AlSi10Mg alloy. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2019, 70, 1808-1816.	0.8	26
14	Optimization of heat treatment parameters for additive manufacturing and gravity casting AlSi10Mg alloy. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 264, 012016.	0.3	24
15	Cavitation erosion behaviour of an innovative aluminium alloy for Hybrid Aluminium Forging. <i>Wear</i> , 2018, 394-395, 1-10.	1.5	19
16	Characterization of a New Aluminium Alloy for the Production of Wheels by Hybrid Aluminium Forging. <i>Procedia Engineering</i> , 2015, 109, 303-311.	1.2	18
17	Wear Behavior of AlSi10Mg Alloy Produced by Laser-Based Powder Bed Fusion and Gravity Casting. <i>Advanced Engineering Materials</i> , 2021, 23, 2100147.	1.6	17
18	Effect of a New High-Pressure Heat Treatment on Additively Manufactured AlSi10Mg Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020, 51, 4799-4811.	1.1	14

#	ARTICLE	IF	CITATIONS
19	Rheological Investigation of Semisolid AlSi7 Alloy by Means of Oscillation Experiments. Solid State Phenomena, 0, 285, 385-390.	0.3	6
20	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
21	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.	1.2	5
22	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.	2.8	4
23	Dispersion hardening of an AlSi3Mg alloy with Cr and Mn addition. Materials Today: Proceedings, 2019, 10, 319-326.	0.9	4
24	Tensile behavior and impact toughness of an AlSi3MgCr alloy. Procedia Structural Integrity, 2017, 3, 517-525.	0.3	3
25	Evaluation of cavitation erosion resistance of Al-Si casting alloys: effect of eutectic and intermetallic phases. Frattura Ed Integrita Strutturale, 2018, 12, 218-230.	0.5	3
26	Investigation of mechanical properties of AlSi3Cr alloy. Frattura Ed Integrita Strutturale, 2017, 11, 337-351.	0.5	2
27	Properties of Semisolid Parts: Comparison with Conventional and Innovative Manufacturing Technologies. Solid State Phenomena, 0, 327, 197-206.	0.3	2
28	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.	1.2	2
29	Rheological Properties of Liquid Metals and Semisolid Materials at Low Solid Fraction. Solid State Phenomena, 0, 256, 133-138.	0.3	1
30	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
31	Visco-Elastic Properties of Semi-Solid Alloys. Solid State Phenomena, 0, 327, 119-126.	0.3	1
32	Damaging of Ultrasonic Horn for Semisolid Feedstock Production. Solid State Phenomena, 2019, 285, 240-246.	0.3	0