

Annalisa Pola

List of Publications by Year in descending order

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76
papers

1,127
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430754

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#	ARTICLE	IF	CITATIONS
1	Study of heat treatment parameters for additively manufactured AlSi10Mg in comparison with corresponding cast alloy. <i>Materials Science & 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	Influence of Material Microstructures in Micromilling of Ti6Al4V Alloy. <i>Materials</i> , 2013, 6, 4268-4283.	1.3	60
5	Evaluation of the impact behaviour of AlSi10Mg alloy produced using laser additive manufacturing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 748, 38-51.	2.6	52
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 & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 802, 140671.	2.6	34
9	Fatigue design of heavy section ductile irons: Influence of chunky graphite. <i>Materials and Design</i> , 2016, 111, 353-361.	3.3	30
10	Investigation of cavitation erosion resistance of AlSi10Mg alloy for additive manufacturing. <i>Wear</i> , 2018, 402-403, 124-136.	1.5	30
11	Influence of Ultrasound Treatment on Cavitation Erosion Resistance of AlSi7 Alloy. <i>Materials</i> , 2017, 10, 256.	1.3	28
12	Investigation on fatigue strength of sand-blasted DMLS-AlSi10Mg alloy. <i>Procedia Structural Integrity</i> , 2019, 18, 119-128.	0.3	27
13	Wear and Cavitation Erosion Resistance of an AlMgSc Alloy Produced by DMLS. <i>Metals</i> , 2019, 9, 308.	1.0	26
14	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
15	Effect of heat treatment on microstructure and erosion resistance of white cast irons for slurry pumping applications. <i>Wear</i> , 2019, 428-429, 438-448.	1.5	23
16	Fatigue Characterization and Optimization of the Production Process of Heavy Section Ductile Iron Castings. <i>International Journal of Metalcasting</i> , 2017, 11, 33-43.	1.5	22
17	Analysis and design of a low-noise railway wheel. <i>Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit</i> , 2001, 215, 179-192.	1.3	21
18	Comparison of the sliding wear of a novel Zn alloy with that of two commercial Zn alloys against bearing steel and leaded brass. <i>Wear</i> , 2016, 368-369, 445-452.	1.5	21

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19	Cavitation erosion behaviour of an innovative aluminium alloy for Hybrid Aluminium Forging. <i>Wear</i> , 2018, 394-395, 1-10.	1.5	19
20	Advanced Casting Methodologies. , 2014, , 39-67.		18
21	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
22	Thixo-Extrusion of 5182 Aluminium Alloy. <i>Solid State Phenomena</i> , 2008, 141-143, 115-120.	0.3	17
23	Simulation and validation of spray quenching applied to heavy forgings. <i>Journal of Materials Processing Technology</i> , 2013, 213, 2247-2253.	3.1	17
24	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
25	Micromilling of Lamellar Ti6Al4V: Cutting Force Analysis. <i>Materials and Manufacturing Processes</i> , 2016, 31, 919-925.	2.7	15
26	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
27	Evaluation on the fatigue behavior of sand-blasted AlSi10Mg obtained by DMLS. <i>Frattura Ed Integrita Strutturale</i> , 2019, 13, 775-790.	0.5	14
28	Microstructural and Mechanical Properties of Zinc Die Casting Alloys. <i>Advanced Engineering Materials</i> , 2004, 6, 818-822.	1.6	12
29	Improvement of Fatigue Resistance of a Tool Steel by Surface Treatments. <i>Procedia Engineering</i> , 2015, 109, 154-161.	1.2	11
30	Study of annealing temperature effect on stress-corrosion cracking of aluminum brass heat-exchangers tubes by microdiffraction experiments. <i>Engineering Failure Analysis</i> , 2008, 15, 54-61.	1.8	10
31	Rheological Characterization of a New Alloy for Thixoforming. <i>Solid State Phenomena</i> , 2008, 141-143, 301-306.	0.3	9
32	Modeling of shear induced coarsening effects in semi-solid alloys. <i>Transactions of Nonferrous Metals Society of China</i> , 2010, 20, 1696-1701.	1.7	9
33	Effect of Globular Microstructure on Cavitation Erosion Resistance of Aluminium Alloys. <i>Solid State Phenomena</i> , 0, 256, 51-57.	0.3	9
34	Effect of ultrasound treatment of AlSi5 liquid alloy on corrosion resistance. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2010, 61, 218-221.	0.8	8
35	Semisolid lead-antimony alloys for cars batteries. <i>Transactions of Nonferrous Metals Society of China</i> , 2010, 20, 1774-1779.	1.7	8
36	Effect of microblasting on cathodic arc evaporation CrN coatings. <i>Surface Engineering</i> , 2013, 29, 683-688.	1.1	8

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37	Effect of Titanium on the Mechanical Properties and Microstructure of Gray Cast Iron for Automotive Applications. <i>Journal of Materials Engineering and Performance</i> , 2016, 25, 3896-3903.	1.2	8
38	Comprehensive Numerical Simulation of Filling and Solidification of Steel Ingots. <i>Materials</i> , 2016, 9, 769.	1.3	7
39	Semisolid Processing of Al-Sn-Cu Alloys for Bearing Applications. <i>Solid State Phenomena</i> , 2012, 192-193, 562-568.	0.3	6
40	Effect of aging on microstructure and mechanical properties of ZnAl15Cu1 alloy for wrought applications. <i>International Journal of Materials Research</i> , 2017, 108, 447-454.	0.1	6
41	Study of High Temperature Properties of AlSi10Mg Alloy Produced by Laser-Based Powder Bed Fusion. <i>Materials Science Forum</i> , 0, 1016, 1485-1491.	0.3	6
42	Effect of Ultrasounds Treatment on Alloys for Semisolid Application. <i>Solid State Phenomena</i> , 0, 141-143, 481-486.	0.3	5
43	New Zinc alloys for semisolid applications. <i>International Journal of Material Forming</i> , 2010, 3, 743-746.	0.9	5
44	Investigation of Correlations between Shear History and Microstructure of Semi-Solid Alloys. <i>Solid State Phenomena</i> , 2012, 192-193, 251-256.	0.3	5
45	Failure analysis of an electric arc furnace off-gas system. <i>Engineering Failure Analysis</i> , 2012, 25, 42-48.	1.8	5
46	Tensile Properties of a Cast Al-Si-Mg Alloy with Reduced Si Content and Cr Addition at High Temperature. <i>Journal of Materials Engineering and Performance</i> , 2019, 28, 7097-7108.	1.2	5
47	Design and Production of New Aluminum Thixotropic Alloys for the Manufacture of Structural Components by Semisolid Die Casting. <i>Solid State Phenomena</i> , 2006, 116-117, 58-63.	0.3	4
48	Primary and steady state creep deformation in Zamak5 die-casting alloy at 80°C. <i>Materials Characterization</i> , 2008, 59, 1747-1752.	1.9	4
49	Experimental investigation on the formation of Cr-containing dispersoids in an AlSi3 alloy by X-ray synchrotron radiation. <i>Journal of Alloys and Compounds</i> , 2018, 742, 555-562.	2.8	4
50	Correlation between Microstructure and Properties of Semi-Solid Products. <i>Solid State Phenomena</i> , 2019, 285, 12-23.	0.3	4
51	Dispersion hardening of an AlSi3Mg alloy with Cr and Mn addition. <i>Materials Today: Proceedings</i> , 2019, 10, 319-326.	0.9	4
52	Aluminum Segregation in ZA27 Rheocast Alloy. <i>Solid State Phenomena</i> , 0, 217-218, 75-82.	0.3	3
53	Wear Behavior of Zn-15Al-1Cu-Mg Alloy after Aging. <i>Procedia Engineering</i> , 2015, 109, 228-233.	1.2	3
54	Investigation on Microblasting Applied to CrN Coatings. <i>Advances in Materials Science and Engineering</i> , 2016, 2016, 1-7.	1.0	3

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55	Tensile behavior and impact toughness of an AlSi3MgCr alloy. Procedia Structural Integrity, 2017, 3, 517-525.	0.3	3
56	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
57	Investigation of mechanical properties of AlSi3Cr alloy. Frattura Ed Integrita Strutturale, 2017, 11, 337-351.	0.5	2
58	Properties of Semisolid Parts: Comparison with Conventional and Innovative Manufacturing Technologies. Solid State Phenomena, 0, 327, 197-206.	0.3	2
59	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
60	Thixoforging of Ultrasound Treated 6060 Aluminum Alloy. Key Engineering Materials, 0, 554-557, 572-581.	0.4	1
61	Corrosion and Wear Behavior of CAE Deposited CrN-PVD Coatings. Key Engineering Materials, 0, 577-578, 641-644.	0.4	1
62	Semisolid Metals: A Suspension with Non-Newtonian Liquid Matrix. Solid State Phenomena, 2014, 217-218, 166-173.	0.3	1
63	Casting Simulation of an Austrian Bronze Age Sword Hilt. Jom, 2015, 67, 1637-1645.	0.9	1
64	Rheological Properties of Liquid Metals and Semisolid Materials at Low Solid Fraction. Solid State Phenomena, 0, 256, 133-138.	0.3	1
65	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
66	Effect of Shrinkage Porosity and Degenerated Graphite on Fatigue Crack Initiation in Ductile Cast Iron. Key Engineering Materials, 2017, 754, 95-98.	0.4	1
67	Corrosion and mechanical properties of age-hardened UNS N06625 forged bars for oil and gas applications. Materials and Corrosion - Werkstoffe Und Korrosion, 2019, 70, 1755-1763.	0.8	1
68	Computational Model For Spray Quenching Of A Heavy Forging. , 2014, , .		1
69	SIMULATION OF PRECIPITATION IN V-CONTAINING HSLA STEEL FOR THE STRENGTHENING ENHANCEMENT. , 2016, , .		1
70	The Effect Of Initial Estimated Points On Objective Functions For Optimization. , 2014, , .		1
71	Design and Validation of a Block-on-Ring Test Bench. Lecture Notes in Mechanical Engineering, 2022, , 729-738.	0.3	1
72	Fracture toughness and corrosion resistance of semisolid AlSi5 alloy. , 2011, , .		0

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73	Wall Slip Effect in Couette Rheometers. Solid State Phenomena, 2012, 192-193, 353-358.	0.3	0
74	Experimental Investigations on the Formation of Rosettes during Shear. Solid State Phenomena, 0, 256, 199-204.	0.3	0
75	Crystallization and Ripening Phenomena in Semi-Solid Steels. Solid State Phenomena, 2016, 256, 25-30.	0.3	0
76	Damaging of Ultrasonic Horn for Semisolid Feedstock Production. Solid State Phenomena, 2019, 285, 240-246.	0.3	0