

# Annalisa Pola

## List of Publications by Year in descending order

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76  
papers

1,127  
citations

430754

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454834

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g-index

76  
all docs

76  
docs citations

76  
times ranked

930  
citing authors

#	ARTICLE	IF	CITATIONS
1	Design and Validation of a Block-on-Ring Test Bench. Lecture Notes in Mechanical Engineering, 2022, , 729-738.	0.3	1
2	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
3	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.	2.6	34
4	Wear Behavior of AlSi10Mg Alloy Produced by Laser-Based Powder Bed Fusion and Gravity Casting. Advanced Engineering Materials, 2021, 23, 2100147.	1.6	17
5	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.	1.1	14
6	Review of Microstructures and Properties of Zinc Alloys. Metals, 2020, 10, 253.	1.0	68
7	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
8	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
9	Correlation between Microstructure and Properties of Semi-Solid Products. Solid State Phenomena, 2019, 285, 12-23.	0.3	4
10	Investigation on fatigue strength of sand-blasted DMLS-AlSi10Mg alloy. Procedia Structural Integrity, 2019, 18, 119-128.	0.3	27
11	Dispersion hardening of an AlSi3Mg alloy with Cr and Mn addition. Materials Today: Proceedings, 2019, 10, 319-326.	0.9	4
12	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.	2.6	52
13	Wear and Cavitation Erosion Resistance of an AlMgSc Alloy Produced by DMLS. Metals, 2019, 9, 308.	1.0	26
14	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.	0.8	26
15	Effect of heat treatment on microstructure and erosion resistance of white cast irons for slurry pumping applications. Wear, 2019, 428-429, 438-448.	1.5	23
16	Damaging of Ultrasonic Horn for Semisolid Feedstock Production. Solid State Phenomena, 2019, 285, 240-246.	0.3	0
17	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.	2.6	168
18	Evaluation on the fatigue behavior of sand-blasted AlSi10Mg obtained by DMLS. Frattura Ed Integrita Strutturale, 2019, 13, 775-790.	0.5	14

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19	Investigation of cavitation erosion resistance of AlSi10Mg alloy for additive manufacturing. <i>Wear</i> , 2018, 402-403, 124-136.	1.5	30
20	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
21	Cavitation erosion behaviour of an innovative aluminium alloy for Hybrid Aluminium Forging. <i>Wear</i> , 2018, 394-395, 1-10.	1.5	19
22	Microstructure and Properties of Semi-Solid Aluminum Alloys: A Literature Review. <i>Metals</i> , 2018, 8, 181.	1.0	77
23	Rheological Characterization of Semi-Solid Metals: A Review. <i>Metals</i> , 2018, 8, 245.	1.0	35
24	Evaluation of cavitation erosion resistance of Al-Si casting alloys: effect of eutectic and intermetallic phases. <i>Frattura Ed Integrita Strutturale</i> , 2018, 12, 218-230.	0.5	3
25	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
26	Tensile behavior and impact toughness of an AlSi3MgCr alloy. <i>Procedia Structural Integrity</i> , 2017, 3, 517-525.	0.3	3
27	Effect of Cr and Mn addition and heat treatment on AlSi3Mg casting alloy. <i>Materials Characterization</i> , 2017, 123, 75-82.	1.9	35
28	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
29	Influence of Cr and Mn Addition and Heat Treatment on the Corrosion Behaviour of an AlSi3Mg Alloy. <i>Key Engineering Materials</i> , 2017, 754, 11-14.	0.4	1
30	Influence of Ultrasound Treatment on Cavitation Erosion Resistance of AlSi7 Alloy. <i>Materials</i> , 2017, 10, 256.	1.3	28
31	Effect of Shrinkage Porosity and Degenerated Graphite on Fatigue Crack Initiation in Ductile Cast Iron. <i>Key Engineering Materials</i> , 2017, 754, 95-98.	0.4	1
32	Investigation of mechanical properties of AlSi3Cr alloy. <i>Frattura Ed Integrita Strutturale</i> , 2017, 11, 337-351.	0.5	2
33	Investigation on Microblasting Applied to CrN Coatings. <i>Advances in Materials Science and Engineering</i> , 2016, 2016, 1-7.	1.0	3
34	Comprehensive Numerical Simulation of Filling and Solidification of Steel Ingots. <i>Materials</i> , 2016, 9, 769.	1.3	7
35	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
36	Fatigue design of heavy section ductile irons: Influence of chunky graphite. <i>Materials and Design</i> , 2016, 111, 353-361.	3.3	30

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37	Crystallization and Ripening Phenomena in Semi-Solid Steels. Solid State Phenomena, 2016, 256, 25-30.	0.3	0
38	Comparison of the sliding wear of a novel Zn alloy with that of two commercial Zn alloys against bearing steel and leaded brass. Wear, 2016, 368-369, 445-452.	1.5	21
39	Micromilling of Lamellar Ti6Al4V: Cutting Force Analysis. Materials and Manufacturing Processes, 2016, 31, 919-925.	2.7	15
40	SIMULATION OF PRECIPITATION IN V-CONTAINING HSLA STEEL FOR THE STRENGTHENING ENHANCEMENT. , 2016, , .		1
41	Casting Simulation of an Austrian Bronze Age Sword Hilt. Jom, 2015, 67, 1637-1645.	0.9	1
42	Characterization of a New Aluminium Alloy for the Production of Wheels by Hybrid Aluminium Forging. Procedia Engineering, 2015, 109, 303-311.	1.2	18
43	Wear Behavior of Zn-15Al-1Cu-Mg Alloy after Aging. Procedia Engineering, 2015, 109, 228-233.	1.2	3
44	Improvement of Fatigue Resistance of a Tool Steel by Surface Treatments. Procedia Engineering, 2015, 109, 154-161.	1.2	11
45	Advanced Casting Methodologies. , 2014, , 39-67.		18
46	Semisolid Metals: A Suspension with Non-Newtonian Liquid Matrix. Solid State Phenomena, 2014, 217-218, 166-173.	0.3	1
47	Computational Model For Spray Quenching Of A Heavy Forging. , 2014, , .		1
48	The Effect Of Initial Estimated Points On Objective Functions For Optimization. , 2014, , .		1
49	Simulation and validation of spray quenching applied to heavy forgings. Journal of Materials Processing Technology, 2013, 213, 2247-2253.	3.1	17
50	Influence of Material Microstructures in Micromilling of Ti6Al4V Alloy. Materials, 2013, 6, 4268-4283.	1.3	60
51	Effect of microblasting on cathodic arc evaporation CrN coatings. Surface Engineering, 2013, 29, 683-688.	1.1	8
52	Investigation of Correlations between Shear History and Microstructure of Semi-Solid Alloys. Solid State Phenomena, 2012, 192-193, 251-256.	0.3	5
53	Wall Slip Effect in Couette Rheometers. Solid State Phenomena, 2012, 192-193, 353-358.	0.3	0
54	Semisolid Processing of Al-Sn-Cu Alloys for Bearing Applications. Solid State Phenomena, 2012, 192-193, 562-568.	0.3	6

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55	Failure analysis of an electric arc furnace off-gas system. Engineering Failure Analysis, 2012, 25, 42-48.	1.8	5
56	Fracture toughness and corrosion resistance of semisolid AlSi5 alloy. , 2011, , .		0
57	New Zinc alloys for semisolid applications. International Journal of Material Forming, 2010, 3, 743-746.	0.9	5
58	Effect of ultrasound treatment of AlSi5 liquid alloy on corrosion resistance. Materials and Corrosion - Werkstoffe Und Korrosion, 2010, 61, 218-221.	0.8	8
59	Modeling of shear induced coarsening effects in semi-solid alloys. Transactions of Nonferrous Metals Society of China, 2010, 20, 1696-1701.	1.7	9
60	Semisolid lead-antimony alloys for cars batteries. Transactions of Nonferrous Metals Society of China, 2010, 20, 1774-1779.	1.7	8
61	Study of annealing temperature effect on stress-corrosion cracking of aluminum brass heat-exchangers tubes by microdiffraction experiments. Engineering Failure Analysis, 2008, 15, 54-61.	1.8	10
62	Primary and steady state creep deformation in Zamak5 die-casting alloy at 80Å°C. Materials Characterization, 2008, 59, 1747-1752.	1.9	4
63	Rheological Characterization of a New Alloy for Thixoforming. Solid State Phenomena, 2008, 141-143, 301-306.	0.3	9
64	Thixo-Extrusion of 5182 Aluminium Alloy. Solid State Phenomena, 2008, 141-143, 115-120.	0.3	17
65	Design and Production of New Aluminum Thixotropic Alloys for the Manufacture of Structural Components by Semisolid Die Casting. Solid State Phenomena, 2006, 116-117, 58-63.	0.3	4
66	Microstructural and Mechanical Properties of Zinc Die Casting Alloys. Advanced Engineering Materials, 2004, 6, 818-822.	1.6	12
67	Analysis and design of a low-noise railway wheel. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2001, 215, 179-192.	1.3	21
68	Effect of Ultrasounds Treatment on Alloys for Semisolid Application. Solid State Phenomena, 0, 141-143, 481-486.	0.3	5
69	Thixoforging of Ultrasound Treated 6060 Aluminum Alloy. Key Engineering Materials, 0, 554-557, 572-581.	0.4	1
70	Corrosion and Wear Behavior of CAE Deposited CrN-PVD Coatings. Key Engineering Materials, 0, 577-578, 641-644.	0.4	1
71	Aluminum Segregation in ZA27 Rheocast Alloy. Solid State Phenomena, 0, 217-218, 75-82.	0.3	3
72	Rheological Properties of Liquid Metals and Semisolid Materials at Low Solid Fraction. Solid State Phenomena, 0, 256, 133-138.	0.3	1

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73	Experimental Investigations on the Formation of Rosettes during Shear. Solid State Phenomena, 0, 256, 199-204.	0.3	0
74	Effect of Globular Microstructure on Cavitation Erosion Resistance of Aluminium Alloys. Solid State Phenomena, 0, 256, 51-57.	0.3	9
75	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
76	Properties of Semisolid Parts: Comparison with Conventional and Innovative Manufacturing Technologies. Solid State Phenomena, 0, 327, 197-206.	0.3	2