

# Lorella Ceschini

## List of Publications by Year in descending order

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117  
papers

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126708

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3319  
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#	ARTICLE	IF	CITATIONS
1	Effect of selective laser melting (SLM) process parameters on microstructure and mechanical properties of 316L austenitic stainless steel. <i>Journal of Materials Processing Technology</i> , 2017, 249, 255-263.	3.1	672
2	Effect of friction stir welding on microstructure, tensile and fatigue properties of the AA7005/10 vol.%Al <sub>2</sub> O <sub>3</sub> composite. <i>Composites Science and Technology</i> , 2007, 67, 605-615.	3.8	227
3	Comparison of dry sliding friction and wear of Ti6Al4V alloy treated by plasma electrolytic oxidation and PVD coating. <i>Wear</i> , 2008, 264, 86-95.	1.5	131
4	Tensile and fatigue properties of the AA6061/20vol% Al <sub>2</sub> O <sub>3</sub> p and AA7005/10vol% Al <sub>2</sub> O <sub>3</sub> p composites. <i>Composites Science and Technology</i> , 2006, 66, 333-342.	3.8	112
5	Correlation between ultimate tensile strength and solidification microstructure for the sand cast A357 aluminium alloy. <i>Materials &amp; Design</i> , 2009, 30, 4525-4531.	5.1	112
6	Microstructure, tensile and fatigue properties of the Al-10%Si-2%Cu alloy with different Fe and Mn content cast under controlled conditions. <i>Journal of Materials Processing Technology</i> , 2009, 209, 5669-5679.	3.1	109
7	CoCr alloy processed by Selective Laser Melting (SLM): effect of Laser Energy Density on microstructure, surface morphology, and hardness. <i>Journal of Manufacturing Processes</i> , 2020, 52, 106-119.	2.8	108
8	Tensile properties and microstructural features of 304L austenitic stainless steel produced by wire-and-arc additive manufacturing. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 106, 3693-3705.	1.5	107
9	Microstructure, tensile and fatigue properties of AA6061/20vol.%Al <sub>2</sub> O <sub>3</sub> p friction stir welded joints. <i>Composites Part A: Applied Science and Manufacturing</i> , 2007, 38, 1200-1210.	3.8	106
10	PEO layers obtained from mixed aluminate-phosphate baths on Ti-6Al-4V: Dry sliding behaviour and influence of a PTFE topcoat. <i>Wear</i> , 2010, 269, 747-756.	1.5	102
11	Improving sliding and abrasive wear behaviour of cast A356 and wrought AA7075 aluminium alloys by plasma electrolytic oxidation. <i>Materials &amp; Design</i> , 2010, 31, 816-828.	5.1	95
12	Fabrication of Co-Cr-Mo endoprosthetic ankle devices by means of Selective Laser Melting (SLM). <i>Materials and Design</i> , 2016, 106, 60-68.	3.3	90
13	A comparative study of the tribological behaviour of PVD coatings on the Ti-6Al-4V alloy. <i>Tribology International</i> , 2011, 44, 297-308.	3.0	88
14	Tensile and impact behaviour of a microalloyed medium carbon steel: Effect of the cooling condition and corresponding microstructure. <i>Materials &amp; Design</i> , 2013, 45, 171-178.	5.1	86
15	The effect of hot isostatic pressing on the fatigue behaviour of sand-cast A356-T6 and A204-T6 aluminum alloys. <i>Journal of Materials Processing Technology</i> , 2008, 204, 231-238.	3.1	83
16	Fatigue properties of friction stir welded particulate reinforced aluminium matrix composites. <i>International Journal of Fatigue</i> , 2010, 32, 218-226.	2.8	79
17	Forging of the AA2618/20vol.% Al <sub>2</sub> O <sub>3</sub> p composite: Effects on microstructure and tensile properties. <i>Composites Science and Technology</i> , 2009, 69, 1783-1789.	3.8	69
18	Low-temperature carburised AISI 316L austenitic stainless steel: Wear and corrosion behaviour. <i>Materials &amp; Design</i> , 2012, 38, 154-160.	5.1	66

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19	Influence of friction stir processing on the microstructure and mechanical properties of a compocast AA2024-Al <sub>2</sub> O <sub>3</sub> nanocomposite. <i>Materials and Design</i> , 2016, 106, 273-284.	3.3	66
20	Thermal stability of the lightweight 2099 Al-Cu-Li alloy: Tensile tests and microstructural investigations after overaging. <i>Materials and Design</i> , 2017, 119, 54-64.	3.3	65
21	Mechanical and microstructural characterization of 2124Al/25vol.%SiCp joints obtained by linear friction welding (LFW). <i>Composites Part A: Applied Science and Manufacturing</i> , 2010, 41, 1028-1037.	3.8	52
22	Friction and wear behaviour of sintered steels submitted to sliding and abrasion tests. <i>Tribology International</i> , 2006, 39, 748-755.	3.0	49
23	Room and high temperature fatigue behaviour of the A354 and C355 (Al-Cu-Mg) alloys: Role of microstructure and heat treatment. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 653, 129-138.	2.6	49
24	Predictive equations of the tensile properties based on alloy hardness and microstructure for an A356 gravity die cast cylinder head. <i>Materials &amp; Design</i> , 2011, 32, 1367-1375.	5.1	48
25	Friction and wear behavior of composites under dry sliding conditions. <i>Wear</i> , 1998, 216, 229-238.	1.5	42
26	Fatigue behaviour of low temperature carburised AISI 316L austenitic stainless steel. <i>Surface and Coatings Technology</i> , 2008, 202, 1778-1784.	2.2	42
27	Effect of FSP parameters and tool geometry on microstructure, hardness, and wear properties of AA7075 with and without reinforcing B <sub>4</sub> C ceramic particles. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 102, 3945-3961.	1.5	42
28	Optimisation of heat treatment of Al-Cu-(Mg-Ag) cast alloys. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 139, 3427-3440.	2.0	42
29	Effect of Fe content and microstructural features on the tensile and fatigue properties of the Al-Si-Cu alloy. <i>Materials &amp; Design</i> , 2012, 36, 522-528.	5.1	41
30	Effect of thermal treatment and recycling on the tribological behaviour of an AlSiMg-SiCp composite. <i>Wear</i> , 2001, 251, 1377-1385.	1.5	38
31	Microstructural and mechanical properties characterization of heat treated and overaged cast A354 alloy with various SDAS at room and elevated temperature. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 648, 340-349.	2.6	38
32	Effects of powders and process parameters on density and hardness of A357 aluminum alloy fabricated by selective laser melting. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 106, 371-383.	1.5	38
33	Effect of microstructure and overaging on the tensile behavior at room and elevated temperature of C355-T6 cast aluminum alloy. <i>Materials and Design</i> , 2015, 83, 626-634.	3.3	35
34	Experimental observations of engine piston damage induced by knocking combustion. <i>Materials and Design</i> , 2017, 114, 312-325.	3.3	34
35	Role of Direct Aging and Solution Treatment on Hardness, Microstructure and Residual Stress of the A357 (AlSi7Mg0.6) Alloy Produced by Powder Bed Fusion. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2021, 52, 2484-2496.	1.0	33
36	Forging of the AA6061/23vol.%Al <sub>2</sub> O <sub>3</sub> p composite: Effects on microstructure and tensile properties. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009, 513-514, 176-184.	2.6	32

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37	Laser Remelting for Enhancing Tribological Performances of a Ductile Iron. <i>Procedia CIRP</i> , 2016, 41, 987-991.	1.0	32
38	A duplex treatment to improve the sliding behavior of AISI 316L: Low-temperature carburizing with a DLC (a-C:H) topcoat. <i>Wear</i> , 2013, 302, 899-908.	1.5	31
39	Effect of laser surface treatment on the dry sliding behaviour of the EN-GJS400-12 ductile cast iron. <i>Tribology International</i> , 2016, 104, 342-351.	3.0	29
40	Effect of thermal exposure on the residual hardness and tensile properties of the EN AW-2618A piston alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 639, 288-297.	2.6	28
41	Dry sliding behavior (block-on-ring tests) of AISI 420 martensitic stainless steel, surface hardened by low temperature plasma-assisted carburizing. <i>Tribology International</i> , 2016, 103, 555-565.	3.0	28
42	Effect of Heat Treatment Conditions on Retained Austenite and Corrosion Resistance of the X190CrVMo20-4-1 Stainless Steel. <i>Metals and Materials International</i> , 2020, 26, 1318-1328.	1.8	27
43	Mechanical and impact behaviour of (Al <sub>2</sub> O <sub>3</sub> ) <sub>p</sub> /2014 and (Al <sub>2</sub> O <sub>3</sub> ) <sub>p</sub> /6061 Al metal matrix composites in the 25-200°C range. <i>Applied Composite Materials</i> , 1997, 4, 173-185.	1.3	26
44	High temperature tribological behavior and microstructural modifications of the low-temperature carburized AISI 316L austenitic stainless steel. <i>Surface and Coatings Technology</i> , 2014, 258, 772-781.	2.2	26
45	Microstructure, Hardness and Impact Toughness of Heat-Treated Nanodispersed Surface and Friction Stir-Processed Aluminum Alloy AA7075. <i>Journal of Materials Engineering and Performance</i> , 2016, 25, 5087-5101.	1.2	26
46	Influence of the countermaterial on the dry sliding friction and wear behaviour of low temperature carburized AISI316L steel. <i>Tribology International</i> , 2013, 67, 36-43.	3.0	25
47	Mo Addition to the A354 (Al-Si-Cu-Mg) Casting Alloy: Effects on Microstructure and Mechanical Properties at Room and High Temperature. <i>Metals</i> , 2018, 8, 393.	1.0	23
48	Microstructure and mechanical properties of heavy section ductile iron castings: experimental and numerical evaluation of effects of cooling rates. <i>International Journal of Cast Metals Research</i> , 2015, 28, 365-374.	0.5	22
49	AA5083 (Al-Mg) plates produced by wire-and-arc additive manufacturing: effect of specimen orientation on microstructure and tensile properties. <i>Progress in Additive Manufacturing</i> , 2021, 6, 479-494.	2.5	22
50	Influence of Interlayer Forced Air Cooling on Microstructure and Mechanical Properties of Wire Arc Additively Manufactured 304L Austenitic Stainless Steel. <i>Steel Research International</i> , 2021, 92, 2100175.	1.0	22
51	Mechanical response of dot-by-dot wire-and-arc additively manufactured 304L stainless steel bars under tensile loading. <i>Construction and Building Materials</i> , 2022, 318, 125925.	3.2	22
52	Residual strains in AA2024/AlSiCp composite linear friction welds. <i>Materials &amp; Design</i> , 2010, 31, S117-S120.	5.1	20
53	Dry sliding behaviour of hydrogenated amorphous carbon (a-C:H) coatings on Ti-6Al-4V. <i>Wear</i> , 2011, 271, 2025-2036.	1.5	18
54	Martensite coarsening in low-temperature plasma carburizing. <i>Surface and Coatings Technology</i> , 2018, 350, 161-171.	2.2	18

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55	Effects of the Delay Between Quenching and Aging on Hardness and Tensile Properties of A356 Aluminum Alloy. <i>Journal of Materials Engineering and Performance</i> , 2013, 22, 200-205.	1.2	17
56	Interference fit effect on improving fatigue life of a holed single plate. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2013, 36, 689-698.	1.7	16
57	A Novel T6 Rapid Heat Treatment for AlSi10Mg Alloy Produced by Laser-Based Powder Bed Fusion: Comparison with T5 and Conventional T6 Heat Treatments. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2022, 53, 284-303.	1.0	16
58	Knock induced erosion on Al pistons: Examination of damage morphology and its causes. <i>Engineering Failure Analysis</i> , 2018, 92, 12-31.	1.8	15
59	Plasma arc cutting: Microstructural modifications of hafnium cathodes during first cycles. <i>Materials Chemistry and Physics</i> , 2012, 134, 858-866.	2.0	13
60	Dry sliding wear of an induction-hardened, high-silicon medium-carbon microalloyed steel. <i>Tribology International</i> , 2015, 92, 493-502.	3.0	12
61	High Temperature Tensile Tests of the Lightweight 2099 and 2055 Al-Cu-Li Alloy: A Comparison. <i>Jom</i> , 2018, 70, 2716-2725.	0.9	12
62	Influence of Sludge Particles on the Fatigue Behavior of Al-Si-Cu Secondary Aluminium Casting Alloys. <i>Metals</i> , 2018, 8, 268.	1.0	11
63	Effect of Zr Addition on Overaging and Tensile Behavior of 2618 Aluminum Alloy. <i>Metals</i> , 2019, 9, 130.	1.0	11
64	Effect of Scanning Strategy in the L-PBF Process of 18Ni300 Maraging Steel. <i>Metals</i> , 2021, 11, 826.	1.0	11
65	Effect of Cu addition on overaging behaviour, room and high temperature tensile and fatigue properties of A357 alloy. <i>Transactions of Nonferrous Metals Society of China</i> , 2020, 30, 2861-2878.	1.7	11
66	Discontinuously reinforced aluminium composites sliding against steel: study on wear behaviour. <i>Materials Science and Technology</i> , 1994, 10, 481-486.	0.8	10
67	Estimation of local fatigue behaviour in A356-T6 gravity die cast engine head based on solidification defects content. <i>International Journal of Cast Metals Research</i> , 2014, 27, 56-64.	0.5	10
68	Influence of Heat Treatment on Microstructure and Mechanical Properties of Rare Earth-Rich Magnesium Alloy. <i>International Journal of Metalcasting</i> , 2017, 11, 382-395.	1.5	10
69	Superplastic Behaviour of Fine-Grained IN-718 Superalloy. <i>Materials Science Forum</i> , 1994, 170-172, 351-358.	0.3	9
70	Improvement of wear resistance of components for hydraulic actuators: Dry sliding tests for coating selection and bench tests for final assessment. <i>Tribology International</i> , 2017, 115, 154-164.	3.0	9
71	Investigation of Knock Damage Mechanisms on a GDI TC Engine. , 0, , .		9
72	Influence of Plasma Electrolytic Oxidation on Fatigue Behaviour of ZK60A-T5 Magnesium Alloy. <i>Coatings</i> , 2020, 10, 1180.	1.2	9

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73	Fatigue Behavior of the Rare Earth Rich EV31A Mg Alloy: Influence of Plasma Electrolytic Oxidation. <i>Metals</i> , 2017, 7, 212.	1.0	8
74	Friction and Wear of Aluminum Alloys and Composites. , 2017, , 509-532.		8
75	A Study of Residual Stresses in Al/SiC<sub>p</sub> Linear Friction Weldment by Energy-Dispersive Neutron Diffraction. <i>Key Engineering Materials</i> , 2008, 385-387, 517-520.	0.4	7
76	Forming of Metal Matrix Composites. , 2014, , 159-186.		7
77	EN AW-4032 T6 Piston Alloy After High-Temperature Exposure: Residual Strength and Microstructural Features. <i>Journal of Materials Engineering and Performance</i> , 2017, 26, 3802-3812.	1.2	7
78	Relationship between microstructure, mechanical and magnetic properties of pure iron produced by laser powder bed fusion (L-PBF) in the as-built and stress relieved conditions. <i>Progress in Additive Manufacturing</i> , 2022, 7, 1195-1212.	2.5	7
79	Corrosion effect to the surface of stainless steel treated by two processes of low temperature carburization. <i>Surface and Interface Analysis</i> , 2014, 46, 731-734.	0.8	6
80	Influence of low-temperature carburising on metal release from AISI316L austenitic stainless steel in acetic acid. <i>Journal of Food Engineering</i> , 2014, 137, 7-15.	2.7	6
81	High strain rate superplasticity of hot extruded and hot rolled AA 6013/20 vol.-%SiCpcomposite. <i>Materials Science and Technology</i> , 2003, 19, 943-948.	0.8	5
82	High Temperature Behavior of the EN AW-2618A Piston Alloy Containing 0.12wt% Zr: Influence of Heat Treatment. <i>Materials Today: Proceedings</i> , 2015, 2, 5037-5044.	0.9	5
83	Microstructural characterization and hardness properties of electric resistance welding titanium joints for dental applications. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2015, 229, 429-438.	1.0	5
84	Sliding contacts for the pharmaceutical industry: failure analysis and dry sliding tests for the replacement of hard Cr on AISI 316L steel. <i>Tribology International</i> , 2015, 81, 248-257.	3.0	5
85	Replacement of Nitrided 33CrMoV Steel with ESR Hot Work Tool Steels for Motorsport Applications: Microstructural and Fatigue Characterization. <i>Journal of Materials Engineering and Performance</i> , 2018, 27, 3920-3931.	1.2	5
86	Title is missing!. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2003, 34, 370-374.	0.5	4
87	A Study on Similar and Dissimilar Linear Friction Welds of 2024 Al Alloy and 2124Al/SiC<sub>p</sub> Composite. <i>Advanced Materials Research</i> , 0, 89-91, 461-466.	0.3	4
88	Dry Sliding Behaviour of Peo (Plasma Electrolytic Oxidation) Treated AA 2618/20% Al<sub>2</sub>O<sub>3</sub> Composite. <i>Materials Science Forum</i> , 0, 678, 61-74.	0.3	4
89	Effect of Mo Addition on Room and High Temperature Tensile Behavior of Al-Si-Cu-Mg Alloy in As-Cast and Heat-Treated Conditions. <i>Advanced Materials Research</i> , 0, 1155, 71-79.	0.3	4
90	Aluminium bronze-steel sliding contact in packaging applications: Failure analysis and lab-scale tribological tests. <i>Engineering Failure Analysis</i> , 2020, 112, 104528.	1.8	4

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91	Superplastic Deformation of Twin Roll Cast AZ31 Magnesium Alloy. Materials Science Forum, 2008, 604-605, 267-277.	0.3	3
92	Gas-Liquid & In Situ Production of Ceramic Reinforced Aluminum Matrix Nanocomposites. Materials Science Forum, 0, 783-786, 2011-2015.	0.3	3
93	Production of AlSi12CuNiMg/Al <sub>2</sub> O <sub>3</sub> Micro/Nanodispersed Surface Composites Using Friction Stir Processing for Automotive Applications. Minerals, Metals and Materials Series, 2019, , 233-242.	0.3	3
94	Linear Friction Welding of a 2024 Al Alloy: Microstructural, Tensile and Fatigue Properties. , 2012, , 493-496.		3
95	Sliding behaviour of nanophased AISI M2 tool steel obtained by mechanomaking and hot isostatic pressing. Materials Science and Technology, 2001, 17, 976-982.	0.8	2
96	Microstructure and wear properties of AlSi-Al <sub>2</sub> O <sub>3</sub> and AlSi-SiC-Al <sub>2</sub> O <sub>3</sub> interpenetrating composites produce. International Journal of Materials and Product Technology, 2002, 17, 165.	0.1	2
97	Numerical and Experimental Study of Residual Stresses in a Linear Friction Welded Al-SiC Composite. Advanced Materials Research, 0, 89-91, 268-274.	0.3	2
98	Friction Welding of Particle Reinforced Aluminium Based Composites. Materials Science Forum, 0, 678, 85-93.	0.3	2
99	High Temperature Tensile Behaviour of the A354 Aluminum Alloy. Materials Science Forum, 0, 794-796, 443-448.	0.3	2
100	Effects of Casting Size on Microstructure and Mechanical Properties of Spheroidal and Compacted Graphite Cast Irons: Experimental Results and Comparison with International Standards. Journal of Materials Engineering and Performance, 2017, 26, 2583-2592.	1.2	2
101	Metal Matrix Nanocomposites: An Overview. Engineering Materials, 2017, , 1-17.	0.3	2
102	Steel components for packaging devices in sliding/rolling contact: Metallurgical failure analysis. Engineering Failure Analysis, 2019, 102, 338-350.	1.8	2
103	High strain rate superplasticity in aluminium matrix composites. , 0, .		2
104	Development and validation of a probabilistic model for notch fatigue strength prediction of tool steels based on surface defects. Fatigue and Fracture of Engineering Materials and Structures, 2022, 45, 113-132.	1.7	2
105	A study on the different reactivity of HF-pretreated and untreated Nicalon fibers with 6061 alloy. Materials Chemistry and Physics, 1995, 42, 285-290.	2.0	1
106	Reaction interfaces of Nicalon fiber/aluminum composite systems: the influence of fiber pretreatments and matrix composition. Materials Chemistry and Physics, 1997, 47, 17-22.	2.0	1
107	Wear properties of Fe-Fe <sub>3</sub> C nanophase white iron obtained by mechanosynthesis and hot isostatic pressing. Materials Science and Technology, 1998, 14, 445-451.	0.8	1
108	Friction Stir Welding of Aluminium Based Composites Reinforced with Al <sub>2</sub> O <sub>3</sub> Particles. Materials Science Forum, 2010, 638-642, 87-92.	0.3	1

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109	Tribological behavior of components for radial piston hydraulic motors: Bench tests, failure analysis and laboratory dry sliding tests. <i>Wear</i> , 2013, 305, 238-247.	1.5	1
110	Influence of SDAS on the High Temperature Tensile Behaviour of the C355 Al Alloy. <i>Materials Science Forum</i> , 0, 783-786, 228-233.	0.3	1
111	Cast Al-Based Nanocomposites Reinforced with Thermal Plasma-Synthesized Ceramic Nanoparticles. <i>Materials Science Forum</i> , 0, 783-786, 1567-1572.	0.3	1
112	Fatigue Life Improvement of Holed Plates Made of an Innovative Medium C Micro-Alloyed Steel by Local Plastic Deformation. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2016, 138, .	1.3	1
113	Effect of Different Heat Treatments on Tensile Properties and Unnotched and Notched Fatigue Strength of Cold Work Tool Steel Produced by Powder Metallurgy. <i>Metals</i> , 2022, 12, 900.	1.0	1
114	Mechanical Performance of Nodular Cast Irons After Prolonged High-Temperature Exposure. <i>Journal of Materials Engineering and Performance</i> , 2019, 28, 3864-3877.	1.2	0
115	Tribological Behavior and Corrosion Resistance of Kolsterized AISI316L Austenitic Stainless Steel: Existing Applications in the Automotive Industry. <i>Journal of ASTM International</i> , 2006, 3, 13884.	0.2	0
116	Microstructural refinement and superplasticity of IN-718 superalloy. <i>European Physical Journal Special Topics</i> , 1993, 03, C7-335-C7-338.	0.2	0
117	Early stages of sliding wear behaviour of Al <sub>2</sub> O <sub>3</sub> and SiC reinforced aluminium. <i>European Physical Journal Special Topics</i> , 1993, 03, C7-1845-C7-1848.	0.2	0