

# Massimo Pellizzari

## List of Publications by Year in descending order

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68  
papers

2,115  
citations

279701

23  
h-index

254106

43  
g-index

70  
all docs

70  
docs citations

70  
times ranked

1546  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of deep cryogenic treatment on the mechanical properties of tool steels. <i>Journal of Materials Processing Technology</i> , 2001, 118, 350-355.	3.1	351
2	Heat treatment and properties of a hot work tool steel fabricated by additive manufacturing. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 753, 109-121.	2.6	129
3	Influence of shallow and deep cryogenic treatment on the residual state of stress of 4140 steel. <i>Journal of Materials Processing Technology</i> , 2011, 211, 396-401.	3.1	113
4	Influence of load and temperature on the dry sliding behaviour of Al-based metal-matrix-composites against friction material. <i>Wear</i> , 2004, 256, 754-763.	1.5	108
5	Tribological behaviour of hot rolling rolls. <i>Wear</i> , 2005, 259, 1281-1289.	1.5	98
6	Hot friction and wear behaviour of high speed steel and high chromium iron for rolls. <i>Wear</i> , 2009, 267, 467-475.	1.5	93
7	Thermal fatigue resistance of gas and plasma nitrided 41CrAlMo7 steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003, 352, 186-194.	2.6	66
8	Effect of sliding speed and contact pressure on the oxidative wear of austempered ductile iron. <i>Wear</i> , 2011, 270, 714-719.	1.5	57
9	High temperature wear and friction behaviour of nitrided, PVD-duplex and CVD coated tool steel against 6082 Al alloy. <i>Wear</i> , 2011, 271, 2089-2099.	1.5	53
10	Thermal fatigue resistance of plasma duplex-treated tool steel. <i>Surface and Coatings Technology</i> , 2001, 142-144, 1109-1115.	2.2	50
11	Corrosion behaviour of a surface-treated AISI H11 hot work tool steel in molten aluminium alloy. <i>Surface and Coatings Technology</i> , 2000, 126, 31-38.	2.2	45
12	Influence of processing parameters and particle size on the properties of hot work and high speed tool steels by Spark Plasma Sintering. <i>Materials &amp; Design</i> , 2011, 32, 1796-1805.	5.1	43
13	Microstructural study and densification analysis of hot work tool steel matrix composites reinforced with TiB <sub>2</sub> particles. <i>Materials Characterization</i> , 2013, 86, 69-79.	1.9	42
14	Influence of deep cryogenic treatment on the thermal decomposition of Fe-C martensite. <i>Journal of Materials Science</i> , 2014, 49, 8183-8191.	1.7	42
15	The phase stability in Cr-Ni and Cr-Mn duplex stainless steels. <i>Journal of Materials Science</i> , 2011, 46, 6916-6924.	1.7	39
16	Feasibility of laser surface treatment of pearlitic and bainitic ductile irons for hot rolls. <i>Journal of Materials Processing Technology</i> , 2012, 212, 989-1002.	3.1	37
17	Dry sliding wear of Cu-Be alloys. <i>Wear</i> , 2005, 259, 506-511.	1.5	36
18	Influence of laser hardening on the tribological properties of forged steel for hot rolls. <i>Wear</i> , 2011, 271, 2402-2411.	1.5	34

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19	Effects of building direction and defect sensitivity on the fatigue behavior of additively manufactured H13 tool steel. <i>Theoretical and Applied Fracture Mechanics</i> , 2020, 108, 102634.	2.1	32
20	Contamination during the high-energy milling of atomized copper powder and its effects on spark plasma sintering. <i>Powder Technology</i> , 2015, 275, 51-59.	2.1	30
21	Tribological properties of surface engineered hot work tool steel for aluminium extrusion dies. <i>Surface Engineering</i> , 2007, 23, 165-168.	1.1	29
22	Towards controlling intrinsic heat treatment of maraging steel during laser directed energy deposition. <i>Scripta Materialia</i> , 2021, 201, 113973.	2.6	27
23	Dry rolling-sliding wear of austempered cast iron. <i>Wear</i> , 2011, 271, 1602-1608.	1.5	26
24	H13 partially stabilized zirconia nanocomposites fabricated by high-energy mechanical milling and selective laser melting. <i>Materials and Design</i> , 2018, 146, 286-297.	3.3	25
25	Spark Plasma co-Sintering of hot work and high speed steel powders for fabrication of a novel tool steel with composite microstructure. <i>Powder Technology</i> , 2011, 214, 292-299.	2.1	24
26	A 3D-Printed Ultra-Low Young's Modulus Ti-Ti Alloy for Biomedical Applications. <i>Materials</i> , 2020, 13, 2792.	1.3	24
27	Thermal fatigue behaviour of WC-20Co and WC-30(CoNiCrFe) cemented carbide. <i>International Journal of Refractory Metals and Hard Materials</i> , 2016, 60, 118-124.	1.7	21
28	Tempering behavior of a direct laser deposited hot work tool steel: Influence of quenching on secondary hardening and microstructure. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 814, 141126.	2.6	21
29	Polymer-derived silicon nitride aerogels as shape stabilizers for low and high-temperature thermal energy storage. <i>Journal of the European Ceramic Society</i> , 2021, 41, 5484-5494.	2.8	21
30	Wear behaviour of diffusion and compound layers in nitrided steels. <i>Surface Engineering</i> , 1998, 14, 489-496.	1.1	19
31	Effect of three nitriding treatments on tribological performance of 42CrAlMo7 steel in boundary lubrication. <i>Wear</i> , 2002, 252, 870-879.	1.5	19
32	Tribological behaviour of Cu based materials produced by mechanical milling/alloying and spark plasma sintering. <i>Wear</i> , 2017, 376-377, 958-967.	1.5	19
33	Deep cryogenic treatment of AISI M2 high-speed steel. <i>International Journal of Microstructure and Materials Properties</i> , 2008, 3, 383.	0.1	18
34	Plasma nitriding of Fe-Cr-Mo sintered steels. <i>Powder Metallurgy</i> , 1999, 42, 119-125.	0.9	16
35	Damage Mechanisms in Duplex Treated Hot Work Tool Steel Under Thermal Cycling. <i>Surface Engineering</i> , 2002, 18, 289-298.	1.1	16
36	Development of a Hybrid Tool Steel Produced by Spark Plasma Sintering. <i>Materials and Manufacturing Processes</i> , 2009, 24, 873-878.	2.7	16

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37	Fracture toughness of a hot work tool steel-TiC composite produced by mechanical milling and spark plasma sintering. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 709, 152-159.	2.6	16
38	Strengthening mechanisms in an ultrafine grained powder metallurgical hot work tool steel produced by high energy mechanical milling and spark plasma sintering. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 743, 349-360.	2.6	16
39	Precipitation of secondary phases in super duplex stainless steel ZERON100 isothermally aged. <i>Materials Science and Technology</i> , 2011, 27, 928-932.	0.8	14
40	γ-Phase in Lean Duplex Stainless Steel Sheets. <i>Acta Metallurgica Sinica (English Letters)</i> , 2015, 28, 331-337.	1.5	13
41	Production of a Powder Metallurgical Hot Work Tool Steel with Harmonic Structure by Mechanical Milling and Spark Plasma Sintering. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017, 48, 1910-1920.	1.1	13
42	Investigation on Solid-State Phase Transformations in a 2510 Duplex Stainless Steel Grade. <i>Metals</i> , 2020, 10, 967.	1.0	13
43	Spark Plasma Sintering of Copper Matrix Composites Reinforced with TiB <sub>2</sub> Particles. <i>Materials</i> , 2020, 13, 2602.	1.3	13
44	Influence of particle size ratio on densification behaviour of AISI H13/AISI M3:2 powder mixture. <i>Powder Technology</i> , 2012, 228, 435-442.	2.1	12
45	Effect of cryogenic treatment on the hardness and tensile behaviour of AISI 4140 steel. <i>International Journal of Microstructure and Materials Properties</i> , 2011, 6, 366.	0.1	11
46	Production and characterization of a tool steel-PSZ composite by mechanical alloying and spark plasma sintering. <i>Journal of Alloys and Compounds</i> , 2017, 709, 742-751.	2.8	11
47	High speed steels for hot rolls with improved impact and thermal fatigue resistance. <i>Materials Science and Technology</i> , 2002, 18, 1574-1580.	0.8	10
48	Influence of deep cryogenic treatment on heat treatment of steel and Cu-Be alloy. <i>International Heat Treatment and Surface Engineering</i> , 2010, 4, 105-109.	0.2	10
49	Hot Deformation Behavior of Four Steels: A Comparative Study. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2018, 140, .	0.8	10
50	Architectural design of MWCNT reinforced AlSi10Mg matrix composites with comprehensive mechanical properties. <i>Composites Communications</i> , 2021, 25, 100716.	3.3	10
51	Effect of matrix microhardness on thermal fatigue behaviour of spincast high speed steels for hot rolls. <i>Materials Science and Technology</i> , 2005, 21, 352-356.	0.8	9
52	The Application-Oriented Heat Treatment of Tool Steels. <i>Materials and Manufacturing Processes</i> , 2009, 24, 723-728.	2.7	9
53	Differences of the microstructural evolution of Cu powder during continuous and interrupted mechanical milling. <i>Powder Metallurgy</i> , 2017, 60, 232-239.	0.9	9
54	Fracture Toughness of a Hot Work Tool Steel Fabricated by Laser Powder Bed Fusion Additive Manufacturing. <i>Steel Research International</i> , 2020, 91, 1900449.	1.0	9

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55	Effect of different coatings on thermal fatigue behaviour of AISI H11 hot work tool steel. International Journal of Materials and Product Technology, 2000, 15, 49.	0.1	8
56	Spark Plasma Co-Sintering of Mechanically Milled Tool Steel and High Speed Steel Powders. Materials, 2016, 9, 482.	1.3	8
57	Production and Characterization of a Modified Hot Work Tool Steel by Laser Powder Bed Fusion. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2022, 53, 2642-2651.	1.1	7
58	Behavior at Elevated Temperature of 55NiCrMoV7 Tool Steel. Materials and Manufacturing Processes, 2009, 24, 791-795.	2.7	6
59	Effect of the Austempering Process on the Microstructure and Mechanical Properties of 27MnCrB5-2 Steel. Archives of Metallurgy and Materials, 2017, 62, 643-651.	0.6	6
60	Friction and wear behaviour of an Al-based metal-matrix composite against automobile friction materials. International Journal of Materials and Product Technology, 2002, 17, 275.	0.1	5
61	Microstructure and impact behaviour of ASTM A105/AISI 304L friction weldments. Materials Science and Technology, 2004, 20, 634-640.	0.8	5
62	Interaction between WC and Inconel 625 under Solid and Liquid State Sintering Conditions. Metals, 2021, 11, 666.	1.0	4
63	Thermal fatigue properties of hot-work tool steels. International Journal of Microstructure and Materials Properties, 2008, 3, 363.	0.1	3
64	Influence of heat treatment and surface engineering on thermal fatigue behaviour of tool steel. International Heat Treatment and Surface Engineering, 2013, 7, 180-184.	0.2	3
65	Mechanical properties and tempering resistance of an ultrafine grained Tool Steel-PSZ composite fabricated by high energy mechanical milling and spark plasma sintering. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 786, 139428.	2.6	3
66	Properties of Laser Metal Fused AlSi10Mg Alloy Processed Using Different Heat Treatments. BHM-Zeitschrift Fuer Rohstoffe Geotechnik Metallurgie Werkstoffe Maschinen-Und Anlagentechnik, 2020, 165, 164-168.	0.4	3
67	Reprint of "Thermal fatigue behaviour of WC-20Co and WC-30(CoNiCrFe) cemented carbide". International Journal of Refractory Metals and Hard Materials, 2017, 62, 176-182.	1.7	2
68	Powder metallurgy opens new ways for tool steels. International Journal of Microstructure and Materials Properties, 2017, 12, 250.	0.1	1