

# Umberto Prisco

## List of Publications by Year in descending order

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52  
papers

949  
citations

430874

18  
h-index

501196

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docs citations

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times ranked

894  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of welding parameters on morphology and mechanical properties of Ti-6Al-4V laser beam welded butt joints. <i>Journal of Materials Processing Technology</i> , 2012, 212, 427-436.	6.3	174
2	Overview of current CAT systems. <i>Integrated Computer-Aided Engineering</i> , 2002, 9, 373-387.	4.6	83
3	A comparison between wet and cryogenic drilling of CFRP/Ti stacks. <i>Materials and Manufacturing Processes</i> , 2018, 33, 1354-1360.	4.7	54
4	Friction-stir welding of AA 2198 butt joints: mechanical characterization of the process and of the welds through DOE analysis. <i>International Journal of Advanced Manufacturing Technology</i> , 2011, 53, 505-516.	3.0	44
5	Size-dependent distributions of particle velocity and temperature at impact in the cold-gas dynamic-spray process. <i>Journal of Materials Processing Technology</i> , 2015, 216, 302-314.	6.3	33
6	Dimensional errors in longitudinal turning based on the unified generalized mechanics of cutting approach.. <i>International Journal of Machine Tools and Manufacture</i> , 2002, 42, 1509-1515.	13.4	32
7	Friction stir welding of AA2198-T3 butt joints for aeronautical applications. <i>International Journal of Material Forming</i> , 2010, 3, 1079-1082.	2.0	32
8	Thermal conductivity of flat-pressed wood plastic composites at different temperatures and filler content. <i>Science and Engineering of Composite Materials</i> , 2014, 21, 197-204.	1.4	28
9	Dimensional errors in longitudinal turning based on the unified generalized mechanics of cutting approach.. <i>International Journal of Machine Tools and Manufacture</i> , 2002, 42, 1517-1525.	13.4	27
10	LBW of Similar and Dissimilar Skin-Stringer Joints Part I: Process Optimization and Mechanical Characterization. <i>Advanced Materials Research</i> , 0, 38, 306-319.	0.3	26
11	Influence of welding parameters and post-weld aging on tensile properties and fracture location of AA2139-T351 friction-stir-welded joints. <i>Materials Research</i> , 2013, 16, 1106-1112.	1.3	25
12	Influence of processing parameters on microstructure and roughness of electron beam melted Ti-6Al-4V titanium alloy. <i>Materials and Manufacturing Processes</i> , 2019, 34, 1753-1760.	4.7	25
13	Three-Dimensional CFD Simulation of Two-Phase Flow Inside the Abrasive Water Jet Cutting Head. <i>International Journal for Computational Methods in Engineering Science and Mechanics</i> , 2008, 9, 300-319.	2.1	23
14	Effect of Process Parameters in Copper-Wire Drawing. <i>Metals</i> , 2020, 10, 105.	2.3	21
15	Friction Stir Welding of AlSi10Mg Plates Produced by Selective Laser Melting. <i>Metallography, Microstructure, and Analysis</i> , 2018, 7, 457-463.	1.0	20
16	Linear friction welding of Ti-6Al-4V parts produced by electron beam melting. <i>Materials and Manufacturing Processes</i> , 2019, 34, 201-207.	4.7	20
17	Selective laser melting of Cu-inconel 718 powder mixtures. <i>Journal of Manufacturing Processes</i> , 2020, 59, 679-689.	5.9	19
18	Experimental Evaluation of Properties of Cross-Linked Polyethylene. <i>Materials and Manufacturing Processes</i> , 2003, 18, 135-144.	4.7	18

#	ARTICLE	IF	CITATIONS
19	Effect of filler content and temperature on steady-state shear flow of wood/high density polyethylene composites. <i>Polymer Composites</i> , 2011, 32, 796-809.	4.6	18
20	Peck drilling of CFRP/titanium stacks: effect of tool wear on hole dimensional and geometrical accuracy. <i>Production Engineering</i> , 2019, 13, 529-538.	2.3	16
21	Residue-specific immobilization of protein molecules by size-selected clusters. <i>Journal of the Royal Society Interface</i> , 2005, 2, 169-175.	3.4	15
22	The estimation of the diameter error in bar turning: a comparison among three cutting force models. <i>International Journal of Advanced Manufacturing Technology</i> , 2003, 22, 465-474.	3.0	13
23	Repairing of an Engine Block Through the Cold Gas Dynamic Spray Technology. <i>Materials Research</i> , 2016, 19, 1226-1231.	1.3	13
24	Influence of filler material on micro- and macro-mechanical behaviour of laser-beam-welded T-joint for aerospace applications. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2009, 223, 103-115.	1.1	12
25	On the critical technological issues of friction stir welding lap joints of dissimilar aluminum alloys. <i>Surface and Interface Analysis</i> , 2013, 45, 1643-1648.	1.8	11
26	Case microstructure in induction surface hardening of steels: an overview. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 98, 2619-2637.	3.0	11
27	Mechanical characterization by DOE analysis of AA6156-T4 friction stir welded joints in as-welded and post-weld aged condition. <i>Materialprüfung/Materials Testing</i> , 2015, 57, 192-199.	2.2	11
28	FSW of AA 2139 Plates: Influence of the Temper State on the Mechanical Properties. <i>Key Engineering Materials</i> , 0, 554-557, 1065-1074.	0.4	10
29	Optimization of friction stir welds of aluminium alloys. , 2006, , 247-252.		9
30	Morphology of titanium coatings deposited through single pass cold spraying. <i>Materials and Manufacturing Processes</i> , 2018, 33, 123-129.	4.7	9
31	NONDESTRUCTIVE CONTROL OF POLYETHYLENE BLANKET INSULATION BY MEANS OF LOCK-IN THERMOGRAPHY. <i>Research in Nondestructive Evaluation</i> , 2004, 15, 55-63.	1.1	7
32	Deposition of ferromagnetic particles using a magnetic assisted cold spray process. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 103, 29-36.	3.0	7
33	Flatness, Cylindricity and Sphericity Assessment Based on the Seven Classes of Symmetry of the Surfaces. <i>Advances in Mechanical Engineering</i> , 2010, 2, 154287.	1.6	7
34	Analysis of Composites with Infrared Thermography. <i>Macromolecular Symposia</i> , 2005, 228, 273-286.	0.7	6
35	Evaluation of drilling parameters effects on machinability of PM materials using ANOVA. <i>Powder Metallurgy</i> , 2009, 52, 164-171.	1.7	6
36	Effects of Cr3C2 Addition on Wear Behaviour of WC-Co Based Cemented Carbides. <i>Metals</i> , 2018, 8, 895.	2.3	6

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37	Tensile Properties of a Hot Stretch Formed Ti-6Al-4V Alloy Component for Aerospace Applications. Manufacturing Technology, 2017, 17, 141-147.	1.4	6
38	Monotonic and fatigue behaviour of chopped-strand-mat/polyester composites with rigid and flexibilised matrix. Composites Part A: Applied Science and Manufacturing, 2007, 38, 234-243.	7.6	5
39	Mechanical Properties Optimization of Friction Stir Welded Lap Joints in Aluminium Alloy. Advances in Materials Science and Engineering, 2019, 2019, 1-9.	1.8	5
40	The influences of the variable speed and internal die geometry on the performance of two commercial soluble oils in the drawing process of pure copper fine wire. International Journal of Advanced Manufacturing Technology, 2022, 118, 3749-3760.	3.0	5
41	Merging Neural Network Material Rheological Behaviour Modelling with FEM Simulation of Orthogonal Metal Cutting. Machining Science and Technology, 2003, 7, 401-417.	2.5	4
42	Influence of the flexibiliser content on the monotonic and fatigue behaviour of a polyester resin for composites. Composites Part A: Applied Science and Manufacturing, 2004, 35, 1081-1089.	7.6	4
43	Characterization of NiTiInol under torsional loads through a numerical implementation of the Boydâ€“Lagoudas constitutive model and comparison of the results with experimental data. Smart Materials and Structures, 2007, 16, 76-82.	3.5	4
44	A Comparison Between Mechanical And Electrochemical Tests on Ti6Al4V Welded By LBW. , 2011, , .		4
45	Microstructure of a Hot Forged Ti 5-5-5-3 Aeronautical Component. Metallography, Microstructure, and Analysis, 2016, 5, 207-216.	1.0	4
46	Effect of die pressure on the lubricating regimes achieved in wire drawing. Production Engineering, 2020, 14, 667-676.	2.3	4
47	Shape of the melt pool produced by a moving Gaussian heat source. Welding in the World, Le Soudage Dans Le Monde, 2021, 65, 2105-2118.	2.5	3
48	Tensile Properties of AA6156-T4 Friction Stir Welded Joints in As-Welded and Post-Weld Aged Condition. Manufacturing Technology, 2016, 16, 786-792.	1.4	3
49	Selective electrochemical machining of the steel molds in hot isostatic pressing of Ti6Al4V powder. Materials and Manufacturing Processes, 2018, 33, 1587-1593.	4.7	2
50	Strain Hardening of Carbon Steel During Wire Drawing. Materials Research, 2018, 21, .	1.3	2
51	On control of Young's modulus of iron sintered part through steam oxidation treatment. Powder Metallurgy, 2003, 46, 15-20.	1.7	1
52	Simulation of Chip Formation in an Orthogonal Cutting Process Using Fem. , 2002, , 167-177.		1