

Milton Lima

List of Publications by Year in descending order

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90
papers

1,435
citations

394421

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377865

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90
all docs

90
docs citations

90
times ranked

1461
citing authors

#	ARTICLE	IF	CITATIONS
1	Reduced Coefficient of Friction of Laser Surface Hardened AISI 4130 Steel Substrates. Material Design and Processing Communications, 2022, 2022, 1-9.	0.9	0
2	Fatigue Performance of Laser Welds in Heavy-Gage Press Hardening Steels. Metals, 2022, 12, 580.	2.3	2
3	Effect of the initial substrate temperature on heat transfer and related phenomena in austenitic stainless steel parts fabricated by additive manufacturing using direct energy deposition. Journal of Materials Research and Technology, 2022, 18, 5267-5279.	5.8	12
4	Fiber laser welding of hot stamping steel: effect of in situ annealing on the microstructure and mechanical properties. Welding in the World, Le Soudage Dans Le Monde, 2021, 65, 57-65.	2.5	0
5	Experimental and Simulation Analysis of Effects of Laser Bending on Microstructures Applied to Advanced Metallic Alloys. Metals, 2021, 11, 362.	2.3	0
6	Effect of laser welding heat input on fatigue crack growth and CTOD fracture toughness of HSLA steel joints. Journal of Materials Research and Technology, 2021, 11, 801-810.	5.8	15
7	Heat treatment effects on the hardness and wear behavior of laser-welded AISI40 martensitic steel plates. International Journal of Advanced Manufacturing Technology, 2021, 114, 1155-1163.	3.0	1
8	Influence of Laser Beam Power and Scanning Speed on the Macrostructural Characteristics of AISI 316L and AISI 431 Stainless Steel Depositions Produced by Laser Cladding Process. Journal of Materials Engineering and Performance, 2021, 30, 3298-3312.	2.5	16
9	Improvement weldability of dissimilar joints (Ti6Al4V/Al6013) for aerospace industry by laser beam welding. International Journal of Advanced Manufacturing Technology, 2021, 116, 1053-1070.	3.0	9
10	Pulsed laser damage threshold evaluation of a carbon fiber composite skin and its effects on internal substrates. Optics and Laser Technology, 2021, 143, 107304.	4.6	5
11	Effect of laser welding on microstructure and mechanical behaviour of dual phase 600 steel sheets. Heliyon, 2021, 7, e08601.	3.2	9
12	Investigation of Laser Treatment as a Method for Fatigue Crack Growth Retardation in Aluminum Alloy 2198-T851. Metals, 2021, 11, 2034.	2.3	3
13	Comparing the weldability of AA6013-T4 aluminium alloy on DP600 dual-phase steel with laser welding and resistance spot welding. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2020, 42, 1.	1.6	5
14	Laser beam welding of DP980 dual phase steel at high temperatures. Optics and Laser Technology, 2020, 124, 105964.	4.6	11
15	Scratch resistances of compacted graphite iron with plasma nitriding, laser hardening, and duplex surface treatments. Tribology International, 2020, 143, 106081.	5.9	22
16	Weldability and mechanical behavior of laser-welded TRIP 750 steel sheets. International Journal of Advanced Manufacturing Technology, 2020, 107, 2807-2815.	3.0	1
17	A Comparative Study of Abbreviated Heat Treatments for SAE 4130 Steel After Laser Welding. Materials Research, 2020, 23, .	1.3	3
18	Corrosion Susceptibility and Functionally Graded Properties of Ti-35Nb-4Sn Alloy Processed by Laser Remelting. Materials Research, 2020, 23, .	1.3	0

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19	Mechanical behavior and microstructure of a fiber laser-welded TWIP steel. International Journal of Advanced Manufacturing Technology, 2019, 104, 1245-1250.	3.0	6
20	Weldability of a zirconium alloy comparing resistance and pulsed laser methods. Nuclear Materials and Energy, 2019, 20, 100693.	1.3	6
21	Fatigue crack growth behavior of laser-shock processed aluminum alloy 2024-T3. Procedia Structural Integrity, 2019, 17, 324-330.	0.8	4
22	Effect of Different Forms of Application of a Laser Surface Treatment on Fatigue Crack Growth of an AA6013-T4 Aluminum Alloy. Journal of Materials Engineering and Performance, 2019, 28, 5832-5842.	2.5	3
23	Fiber Laser Surface Melting of a NiTi Superelastic Alloy: Influence on Structural and Mechanical Properties. Metals, 2019, 9, 1268.	2.3	5
24	Assessment of the Fatigue Behavior of Ti-6Al-4V ELI Alloy with Surface Treated by Nd:YAG Laser Irradiation. Materials Research, 2019, 22, .	1.3	4
25	Laser beam welding of dual-phase DP1000 steel. Journal of Materials Processing Technology, 2018, 252, 498-510.	6.3	47
26	Formability of in-situ Austempered Transformation-induced Plasticity Steels After Laser Beam Welding. Soldagem E Inspecao, 2018, 23, 402-412.	0.6	3
27	Laser-induced heating for enhanced fatigue life of aerospace aluminum alloys. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2018, 40, 1.	1.6	5
28	Characterization of Phase Transformations and Microstructural Changes in an API 5CT L80 Steel Grade During Ni Alloy Laser Cladding. Materials Research, 2018, 21, .	1.3	2
29	Microstructure and wear behaviour of laser hardened SAE 4130 steels. International Journal of Surface Science and Engineering, 2018, 12, 161.	0.4	2
30	A crack propagation study on T-joints of AA6013-T4 aluminum alloy welded by an Yb: fiber laser. International Journal of Advanced Manufacturing Technology, 2017, 92, 2831-2841.	3.0	5
31	A multi-objective green UAV routing problem. Computers and Operations Research, 2017, 88, 306-315.	4.0	127
32	The influence of laser surface treatment on the fatigue crack growth of AA 2024-T3 aluminum alloy alclad sheet. Surface and Coatings Technology, 2017, 329, 244-249.	4.8	14
33	Laser surface treatment for enhanced titanium to carbon fiber-reinforced polymer adhesion. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2017, 39, 2917-2924.	1.6	10
34	Discontinuity Detection in the Shield Metal Arc Welding Process. Sensors, 2017, 17, 1082.	3.8	9
35	ITO Obtained by Spray Pyrolysis and Coating on Glass Substrate. Journal of the Brazilian Chemical Society, 2017, , .	0.6	3
36	Surface Modification of Ti6Al4V Alloy by Pulsed Lasers: Microstructure and Hydrophobic Behavior. Materials Research, 2017, 20, 8-14.	1.3	7

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37	Experimental Development of Dual Phase Steel Laser-arc Hybrid Welding and its Comparison to Laser and Gas Metal Arc Welding. Soldagem E Inspecao, 2016, 21, 379-386.	0.6	8
38	Non-contact sheet forming using lasers applied to a high strength aluminum alloy. Journal of Materials Research and Technology, 2016, 5, 275-281.	5.8	6
39	Surface stiffness gradient in Ti parts obtained by laser surface alloying with Cu and Nb. Surface and Coatings Technology, 2016, 297, 34-42.	4.8	19
40	Fatigue in laser welded titanium tubes intended for use in aircraft pneumatic systems. International Journal of Fatigue, 2016, 90, 47-56.	5.7	27
41	Comparing mechanical behaviour of aluminium welds produced by laser beam welding (LBW), friction stir welding (FSW), and riveting for aeronautical structures. Welding International, 2016, 30, 497-503.	0.7	14
42	Development of laser beam welding of advanced high-strength steels. International Journal of Advanced Manufacturing Technology, 2016, 83, 1967-1977.	3.0	17
43	Surface Characterization in a 300 M Bainitic Steel Laser Carburizing. Procedia Engineering, 2015, 114, 322-329.	1.2	4
44	Mechanical and Corrosion Properties of a Duplex Steel Welded using Micro-Arc or Laser. Materials Research, 2015, 18, 723-731.	1.3	9
45	Laser texturing of substrate of coated tools " Performance during machining and in adhesion tests. Surface and Coatings Technology, 2015, 276, 485-501.	4.8	40
46	An Analysis of the Mechanical Behavior of AISI 4130 Steel after TIG and Laser Welding Process. Procedia Engineering, 2015, 114, 181-188.	1.2	19
47	Comparison of Mechanical and Microstructural Characteristics in Maraging 300 Steel Welded by three Different Processes: LASER, PLASMA and TIG. Procedia Engineering, 2015, 114, 291-297.	1.2	22
48	One-sided laser beam welding of autogenous T-joints for 6013-T4 aluminium alloy. Materials & Design, 2015, 65, 726-736.	5.1	35
49	Mechanical and microstructural characterization of laser-welded joints of 6013-T4 aluminum alloy. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2015, 37, 133-140.	1.6	22
50	Microstructure and mechanical behavior of laser additive manufactured AISI 316 stainless steel stringers. Materials & Design, 2014, 55, 526-532.	5.1	143
51	Comparaço das propriedades mecnicas de juntas de alumnio obtidas por soldagem a laser (LBW), por friction stir welding (FSW) e rebitadas para aplicaço em estruturas aeronuticas. Soldagem E Inspecao, 2014, 19, 145-151.	0.6	0
52	Laser Processing of Carbon Fiber Reinforced Polymer Composite for Optical Fiber Guidelines. Physics Procedia, 2013, 41, 572-580.	1.2	19
53	A novel proposal to manipulate the properties of titanium parts by laser surface alloying. Scripta Materialia, 2013, 68, 471-474.	5.2	25
54	Microstructural analyses and wear behavior of the cemented carbide tools after laser surface treatment and PVD coating. Applied Surface Science, 2013, 282, 680-688.	6.1	64

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55	Study of Laser Welding and Heat Treatments Done in Different High Strength Steels: 4340, 300M, Maraging 300. , 2013, , .		1
56	Soldagem do aço inoxidável AISI 316 com laser a fibra de alta potência: influência dos parâmetros operacionais na micro dureza e na susceptibilidade à corrosão eletrolítica dos cordões de solda. Revista Materia, 2013, 18, 1338-1349.	0.2	0
57	Phase transformations in an AISI 410S stainless steel observed in directional and laser-induced cooling regimes. Materials Research, 2012, 15, 32-40.	1.3	8
58	Occurrence of defects in laser beam welded Al-Cu-Li sheets with t-joint configuration. Journal of Aerospace Technology and Management, 2012, 4, 421-429.	0.3	6
59	Simulating the damage accumulation in aircraft bleed system ducts joined by laser and arc welding processes. Procedia Engineering, 2011, 10, 1321-1326.	1.2	3
60	Machining performance of laser surface micro-textured drilling tools. International Journal of Surface Science and Engineering, 2011, 5, 98.	0.4	10
61	Surface Hardening of an AISI D6 Cold Work Steel Using a Fiber Laser. Journal of ASTM International, 2011, 8, 1-9.	0.2	20
62	Cemented carbide surface modifications using laser treatment and its effects on hard coating adhesion. Surface and Coatings Technology, 2010, 204, 2410-2416.	4.8	21
63	Wear performance of laser precoating treated cemented carbide milling tools. Wear, 2010, 268, 1329-1336.	3.1	22
64	Influence of laser surface texturing on surface microstructure and mechanical properties of adhesive joined steel sheets. Surface Engineering, 2009, 25, 180-186.	2.2	17
65	Characterization of a laser-soldered avionic component using lead-free paste. Optics and Laser Technology, 2009, 41, 159-164.	4.6	7
66	Laser beam welding aerospace aluminum using fiber lasers. Proceedings of SPIE, 2008, , .	0.8	4
67	Laser surface remelting and hardening of an automotive shaft using a high-power fiber laser. Materials Research, 2007, 10, 461-467.	1.3	19
68	Microstructural analyses of the nanoparticles obtained after laser irradiation of Ti and W in ethanol. Applied Surface Science, 2006, 252, 4420-4424.	6.1	31
69	Efficiency of the laser texturing on the adhesion of the coated twist drills. Journal of Materials Processing Technology, 2006, 179, 139-145.	6.3	48
70	Optimization of titanium cutting by factorial analysis of the pulsed Nd:YAG laser parameters. Journal of Materials Processing Technology, 2006, 179, 105-110.	6.3	86
71	Microstructure and surface properties of laser-remelted titanium nitride coatings on titanium. Surface and Coatings Technology, 2005, 199, 83-91.	4.8	45
72	Laser beam welding of titanium nitride coated titanium using pulse-shaping. Materials Research, 2005, 8, 323-328.	1.3	12

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73	Microstructural changes due to laser ablation of oxidized surfaces on an AISI M2 tool steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003, 344, 1-9.	5.6	10
74	Cracking susceptibility of aluminum alloys during laser welding. <i>Materials Research</i> , 2003, 6, 273-278.	1.3	16
75	Elimination of Lubricants from Aluminum Cold Rolled Products Using Short Laser Pulses. <i>Materials Research</i> , 2002, 5, 205-208.	1.3	0
76	Massive transformation and absolute stability. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2002, 33, 2337-2345.	2.2	18
77	Structure of laser remelted surface of cast irons. <i>Surface Engineering</i> , 2000, 16, 127-130.	2.2	15
78	Morphological instability of the austenite growth front in a laser remelted iron-carbon-silicon alloy. <i>Journal of Crystal Growth</i> , 2000, 208, 709-716.	1.5	14
79	Absorption of Nd:YAG laser beam by metallic alloys. <i>Journal of Materials Science Letters</i> , 2000, 19, 2095-2097.	0.5	16
80	Low-velocity growth in laser resolidified Fe-C-Si alloys. <i>International Journal of Cast Metals Research</i> , 1999, 11, 273-277.	1.0	3
81	Determinación de la absorción de haz láser en ensayos de fusión en régimen continuo. <i>Revista De Metalurgia</i> , 1998, 34, 131-134.	0.5	3
82	Microstructure and mechanical properties of Ni-Al and Ni-Al-B alloys produced by rapid solidification technique. <i>Intermetallics</i> , 1996, 4, 85-90.	3.9	50
83	Embedded atom computer simulation of lattice distortion and dislocation core structure and mobility in Fe-Cr alloys. <i>Acta Materialia</i> , 1996, 44, 409-419.	7.9	48
84	Numerical Simulation and Experimental Analysis of Laser Surface Remelting of AISI 304 Stainless Steel Samples. <i>Materials Science Forum</i> , 0, 636-637, 1119-1124.	0.3	1
85	Coated Steel Surfaces with WC by Lasers Action. <i>Materials Science Forum</i> , 0, 727-728, 345-348.	0.3	0
86	Comparison of High Cycle Fatigue in 4340 and 300M Steel Welded with Fiber Laser. <i>Advanced Materials Research</i> , 0, 891-892, 1507-1512.	0.3	2
87	High Cycle Fatigue Behavior and Microstructural Characterization of 6013-T4 Aluminum Alloy Laser Welded Joints. <i>Advanced Materials Research</i> , 0, 891-892, 1767-1772.	0.3	0
88	A Comparative Study of the Heat Input During Laser Welding of Aeronautical Aluminum Alloy AA6013-T4. <i>Journal of Aerospace Technology and Management</i> , 0, 10, .	0.3	10
89	Phase Separation and Development of the Microstructure for Stainless Steel to Copper Alloy Weld Joints Using a Fiber Laser. <i>Journal of Aerospace Technology and Management</i> , 0, , .	0.3	0
90	Determination of Tensile Shear Strength and Corrosion Behavior of Circular Bead Produced by a Laser Beam for Overlapped AISI 304 Steel Sheets. <i>Soldagem E Inspecao</i> , 0, 26, .	0.6	0