Giuseppe Casalino

List of Publications by Year
in descending order

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85 papers	2,791 citations	147726 31 h-index	197736 49 g-index
88 all docs	88 docs citations	88 times ranked	2136 citing authors

#	Article	IF	Citations
1	Statistical modelling and optimization of nanosecond Nd:YAG Q-switched laser scarfing of carbon fiber reinforced polymer. Optics and Laser Technology, 2022, 147, 107599.	2.2	3
2	Laser-arc combined welding of aa5754 alloy. Materials Letters, 2021, 284, 128946.	1.3	2
3	On the laser scarfing of epoxy resin matrix composite with copper reinforcement. Manufacturing Letters, 2021, 27, 1-3.	1.1	1
4	Transfer mode effects on Ti6Al4V wall building in wire laser additive manufacturing. Manufacturing Letters, 2021, 28, 17-20.	1.1	10
5	Analysis of the Process Parameters, Post-Weld Heat Treatment and Peening Effects on Microstructure and Mechanical Performance of Tiâ€“Al Dissimilar Laser Weldings. Metals, 2021, 11, 1257.	1.0	13
6	Experimental Investigation of Material Properties in FSW Dissimilar Aluminum-Steel Lap Joints. Metals, 2021, 11, 1474.	1.0	9
7	On the feasibility of AISI 304 stainless steel laser welding with metal powder. Journal of Manufacturing Processes, 2020, 56, 96-105.	2.8	23
8	Thermo-Mechanical Simulation of Hybrid Welding of DP/AISI 316 and TWIP/AISI 316 Dissimilar Weld. Materials, 2020, 13, 2088.	1.3	8
9	Analysis of laser direct stainless steel powder deposition on Ti6Al4V substrate. Materials Letters, 2020, 274, 128064.	1.3	13
10	Recent Achievements in Rotary, Linear and Friction Stir Welding of Metals Alloys. Metals, 2020, 10, 80.	1.0	4
11	Laser Materials Fabrication and Joining. Materials, 2020, 13, 2800.	1.3	1
12	FEM model for TIG hybrid laser butt welding of 6 mm thick austenitic to martensitic stainless steels. Procedia CIRP, 2020, 88, 116-121.	1.0	7
13	On the Relevance of Volumetric Energy Density in the Investigation of Inconel 718 Laser Powder Bed Fusion. Materials, 2020, 13, 538.	1.3	66
14	Experimental and Numerical Study of AISI 4130 Steel Surface Hardening by Pulsed Nd:YAG Laser. Materials, 2019, 12, 3136.	1.3	31
15	Fiber laser-MAG hybrid welding of DP/AISI 316 and TWIP/AISI 316 dissimilar weld. Procedia CIRP, 2019, 79, 153-158.	1.0	8
16	Hybrid laser arc welding of dissimilar TWIP and DP high strength steel weld. Journal of Manufacturing Processes, 2019, 39, 233-240.	2.8	23
17	Low temperature heat treatments of AA5754-Ti6Al4V dissimilar laser welds: Microstructure evolution and mechanical properties. Optics and Laser Technology, 2018, 100, 109-118.	2.2	35
18	[INVITED] Computational intelligence for smart laser materials processing. Optics and Laser Technology, 2018, 100, 165-175.	2.2	36

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19	Weldability of TWIP and DP steel dissimilar joint by laser arc hybrid welding with austenitic filler. Procedia CIRP, 2018, 67, 607-611.	1.0	13
20	Off-Set and Focus Effects on Grade 5 Titanium to 6061 Aluminum Alloy Fiber Laser Weld. Materials, 2018, 11, 2337.	1.3	13
21	Repairing 2024 Aluminum Alloy via Electrospark Deposition Process: A Feasibility Study. Advances in Materials Science and Engineering, 2018, 2018, 1-11.	1.0	9
22	Effect of Cold Rolling on the Mechanical Properties and Formability of FSWed Sheets in AA5754-H114. Metals, 2018, 8, 223.	1.0	15
23	Study on the fiber laser/TIG weldability of AISI 304 and AISI 410 dissimilar weld. Journal of Manufacturing Processes, 2018, 35, 216-225.	2.8	35
24	Statistical analysis and optimization of direct metal laser deposition of 227-F Colmonoy nickel alloy. Optics and Laser Technology, 2017, 94, 138-145.	2.2	22
25	Mechanical and microstructure analysis of AA6061 and Ti6Al4V fiber laser butt weld. Optik, 2017, 148, 151-156.	1.4	22
26	Statistical Analysis and Modelling of an Yb: KGW Femtosecond Laser Micro-drilling Process. Procedia CIRP, 2017, 62, 275-280.	1.0	27
27	Laser offset welding of AZ31B magnesium alloy to 316 stainless steel. Journal of Materials Processing Technology, 2017, 242, 49-59.	3.1	75
28	Investigation on direct laser powder deposition of 18 Ni (300) marage steel using mathematical model and experimental characterisation. International Journal of Advanced Manufacturing Technology, 2017, 89, 885-895.	1.5	41
29	Influence of Process Parameters on the Vertical Forces Generated during Friction Stir Welding of AA6082-T6 and on the Mechanical Properties of the Joints. Metals, 2017, 7, 350.	1.0	23
30	Advances in Welding Metal Alloys, Dissimilar Metals and Additively Manufactured Parts. Metals, 2017, 7, 32.	1.0	13
31	Effects of Laser Offset and Hybrid Welding on Microstructure and IMC in Feâ€“Al Dissimilar Welding. Metals, 2017, 7, 282.	1.0	32
32	FEM Simulation of Dissimilar Aluminum Titanium Fiber Laser Welding Using 2D and 3D Gaussian Heat Sources. Metals, 2017, 7, 307.	1.0	36
33	Study of the Direct Metal Deposition of AA2024 by ElectroSpark for Coating and Reparation Scopes. Applied Sciences (Switzerland), 2017, 7, 945.	1.3	16
34	FEM Analysis of Fiber Laser Welding of Titanium and Aluminum. Procedia CIRP, 2016, 41, 992-997.	1.0	21
35	On the role of the Thermal Contact Conductance during the Friction Stir Welding of an AA5754-H111 butt joint. Applied Thermal Engineering, 2016, 104, 263-273.	3.0	25
36	ANN modelling to optimize manufacturing processes: the case of laser welding. IFAC-PapersOnLine, 2016, 49, 378-383.	0.5	29

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37	A FEM model to study the fiber laser welding of Ti6Al4V thin sheets. International Journal of Advanced Manufacturing Technology, 2016, 86, 1339-1346.	1.5	26
38	Modeling and experimental analysis of fiber laser offset welding of Al-Ti butt joints. International Journal of Advanced Manufacturing Technology, 2016, 83, 89-98.	1.5	66
39	Hybrid welding of AA5754 annealed alloy: Role of post weld heat treatment on microstructure and mechanical properties. Materials and Design, 2016, 90, 777-786.	3.3	29
40	Effect of power distribution on the weld quality during hybrid laser welding of an Alâ€“Mg alloy. Optics and Laser Technology, 2015, 73, 118-126.	2.2	90
41	Ytterbium fiber laser welding of Ti6Al4V alloy. Journal of Manufacturing Processes, 2015, 20, 250-256.	2.8	70
42	Microstructural Characteristics and Mechanical Properties of Ti6Al4V Alloy Fiber Laser Welds. Procedia CIRP, 2015, 33, 428-433.	1.0	36
43	Finite Element Model for Laser Welding of Titanium. Procedia CIRP, 2015, 33, 434-439.	1.0	20
44	Ybâ€“YAG laser offset welding of AA5754 and T40 butt joint. Journal of Materials Processing Technology, 2015, 223, 139-149.	3.1	101
45	Experimental investigation and statistical optimisation of the selective laser melting process of a maraging steel. Optics and Laser Technology, 2015, 65, 151-158.	2.2	327
46	Characterization of Thermo-Mechanical and Fracture Behaviors of Thermoplastic Polymers. Materials, 2014, 7, 375-398.	1.3	43
47	Laser-assisted friction stir welding of aluminum alloy lap joints: microstructural and microhardness characterizations. Proceedings of SPIE, 2014, , .	0.8	6
48	Analysis of the molten/solidified zone in selective laser melted parts. , 2014, , .		14
49	Mathematical Modeling of Weld Phenomena, Part 1. , 2014, , 101-109.		10
50	Influence of Shoulder Geometry and Coating of the Tool on the Friction Stir Welding of Aluminium Alloy Plates. Procedia Engineering, 2014, 69, 1541-1548.	1.2	38
51	Study on arc and laser powers in the hybrid welding of AA5754 Al-alloy. Materials & Design, 2014, 61, 191-198.	5.1	74
52	Laser-arc hybrid welding of wrought to selective laser molten stainless steel. International Journal of Advanced Manufacturing Technology, 2013, 68, 209-216.	1.5	74
53	An artificial neural network approach for the control of the laser milling process. International Journal of Advanced Manufacturing Technology, 2013, 66, 1777-1784.	1.5	43
54	Multi-objective optimization of laser milling of 5754 aluminum alloy. Optics and Laser Technology, 2013, 52, 48-56.	2.2	45

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55	Arc Leading Versus Laser Leading in the Hybrid Welding of Aluminium Alloy Using a Fiber Laser. Procedia CIRP, 2013, 12, 151-156.	1.0	38
56	Taguchi Optimization of the Surface Finish Obtained by Laser Ablation on Selective Laser Molten Steel Parts. Procedia CIRP, 2013, 12, 462-467.	1.0	41
57	Analysis and Comparison of Friction Stir Welding and Laser Assisted Friction Stir Welding of Aluminum Alloy. Materials, 2013, 6, 5923-5941.	1.3	72
58	Neuro-Fuzzy Model for the Prediction and Classification of the Fused Zone Levels of Imperfections in Ti6Al4V Alloy Butt Weld. Advances in Materials Science and Engineering, 2013, 2013, 1-7.	1.0	12
59	Optimization of Ni-Based WC/Co/Cr Composite Coatings Produced by Multilayer Laser Cladding. Advances in Materials Science and Engineering, 2013, 2013, 1-7.	1.0	21
60	Hybrid Welding of AA5754-H111 Alloy Using a Fiber Laser. Advanced Materials Research, 2012, 628, 193-198.	0.3	7
61	Analysis of the Material Removal Rate of Nanosecond Laser Ablation of Aluminium Using a Parallel Hatching Mode. Applied Mechanics and Materials, 2012, 201-202, 1159-1163.	0.2	2
62	Study of a fiber laser assisted friction stir welding process. Proceedings of SPIE, 2012, , .	0.8	10
63	A Methodology for Optimization of the Direct Laser Metal Deposition Process. Key Engineering Materials, 2011, 473, 75-82.	0.4	15
64	DOE Analysis of the Effects of Geometrical Parameters on the Self-Piercing Riveting of Aluminium Alloy AA6060T4. Key Engineering Materials, 2011, 473, 733-738.	0.4	3
65	Investigation on the effects of laser power and scanning speed on polypropylene diode transmission welds. International Journal of Advanced Manufacturing Technology, 2010, 50, 217-226.	1.5	27
66	Post Treatment Laser Irradiation For Recovery Of Deformation Induced By Surface Laser Hardening. AIP Conference Proceedings, 2009, , .	0.3	2
67	Laser diode transmission welding of polypropylene: Geometrical and microstructure characterisation of weld. Materials & Design, 2009, 30, 2745-2751.	5.1	73
68	Finite element simulation of high speed pulse welding of high specific strength metal alloys. Journal of Materials Processing Technology, 2008, 197, 301-305.	3.1	18
69	Numerical model of CO2 laser welding of thermoplastic polymers. Journal of Materials Processing Technology, 2008, 207, 63-71.	3.1	43
70	On the numerical modelling of the multiphysics self piercing riveting process based on the finite element technique. Advances in Engineering Software, 2008, 39, 787-795.	1.8	58
71	Investigation on the Residual Stress of AISI 4047 Low Alloy Steel Laser Welded. Key Engineering Materials, 2007, 344, 715-722.	0.4	2
72	Minimisation of the residual stress in the heat affected zone by means of numerical methods. Materials & Design, 2007, 28, 2295-2302.	5.1	46

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73	Statistical analysis of MIG-laser CO2 hybrid welding of Alâ€“Mg alloy. Journal of Materials Processing Technology, 2007, 191, 106-110.	3.1	52
74	Microstructural analysis of AISI 304 bars welded with high speed pulsed discharges. Journal of Materials Processing Technology, 2007, 191, 149-152.	3.1	8
75	An ANN and Taguchi algorithms integrated approach to the optimization of CO2 laser welding. Advances in Engineering Software, 2006, 37, 643-648.	1.8	102
76	Numerical Simulation of Multi-Point Capacitor Discharge Welding of AISI 304 Bars. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2006, 220, 647-655.	1.5	7
77	A technical note on the mechanical and physical characterization of selective laser sintered sand for rapid casting. Journal of Materials Processing Technology, 2005, 166, 1-8.	3.1	46
78	Investigation on Ti6Al4V laser welding using statistical and Taguchi approaches. Journal of Materials Processing Technology, 2005, 167, 422-428.	3.1	112
79	Characterisation of Al-Mg alloys mig-laser CO2 combined welding. , 2005, , .		2
80	Process parameters effects on Al-Mg alloys mig-laser CO2 welding. , 2005, , .		3
81	FEM simulation of metal sheets laser welding with wire filler material. , 2005, , .		4
82	A model for evaluation of laser welding efficiency and quality using an artificial neural network and fuzzy logic. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2004, 218, 641-646.	1.5	22
83	Deformation prediction and quality evaluation of the gas metal arc welding butt weld. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2003, 217, 1615-1622.	1.5	28
84	Parameter selection by an artificial neural network for a laser bending process. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2002, 216, 1517-1520.	1.5	18
85	An investigation of rapid prototyping of sand casting molds by selective laser sintering. Journal of Laser Applications, 2002, 14, 100-106.	0.8	24