

Silva, R H G

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Metallurgical characterization of the 5083H116 aluminum alloy welded with the cold metal transfer process and two different wire-electrodes (5183 and 5087). <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2015, 59, 797-807.	1.3	37
2	TIG welding process with dynamic feeding: a characterization approach. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 96, 4467-4475.	1.5	24
3	A new approach for MIG/MAG cladding with Inconel 625. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2016, 60, 1201-1209.	1.3	19
4	Effect of dynamic wire in the GTAW process. <i>Journal of Materials Processing Technology</i> , 2019, 269, 91-101.	3.1	16
5	AC-GTAW of aluminium – new perspective for evaluation of role of positive polarity time. <i>Science and Technology of Welding and Joining</i> , 2010, 15, 632-637.	1.5	14
6	Two-dimensional arc stagnation pressure measurements for the double-electrode GTAW process. <i>Science and Technology of Welding and Joining</i> , 2016, 21, 275-280.	1.5	13
7	Assessing the effects of solid wire electrode extension (stick out) increase in MIG/MAG welding. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2018, 40, 1.	0.8	13
8	Performing higher speeds with dynamic feeding gas tungsten arc welding (GTAW) for pipeline applications. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2019, 41, 1.	0.8	13
9	New methodology for AC-pulsed GMAW parameterization applied to aluminum shipbuilding. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2016, 38, 99-107.	0.8	12
10	High-performance GMAW process for deep penetration applications. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2020, 64, 999-1009.	1.3	12
11	Soldagem TIG de elevada produtividade: influência dos gases de proteção na velocidade limite para formação de defeitos. <i>Soldagem E Inspecao</i> , 2011, 16, 333-340.	0.6	11
12	Melting and welding power characteristics of MIG-CMT versus conventional MIG for aluminium 5183. <i>Welding International</i> , 2015, 29, 181-186.	0.3	11
13	Design of a wire measurement system for dynamic feeding TIG welding using instantaneous angular speed. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 101, 1651-1660.	1.5	11
14	Tribological comparison of Inconel 625 coatings deposited via laser metal deposition and tungsten inert gas welding process. <i>Journal of Laser Applications</i> , 2020, 32, .	0.8	11
15	Influence of welding position and parameters in orbital tig welding applied to low-carbon steel pipes. <i>Welding International</i> , 2017, 31, 583-590.	0.3	10
16	Evaluation of toptig technology applied to robotic orbital welding of 304L pipes. <i>International Journal of Pressure Vessels and Piping</i> , 2020, 188, 104229.	1.2	10
17	Evaluation of thermal and geometric properties of martensitic stainless steel thin walls built by additive manufacturing cold metal transfer (CMT) processes. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 120, 2151-2165.	1.5	10
18	Uma Análise Comparativa entre Diferentes Versões de Variantes Modernas do Processo MIG/MAG para o Passe de Raiz em Soldagem Orbital. <i>Soldagem E Inspecao</i> , 2017, 22, 442-452.	0.6	9

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19	Arc characteristic evaluation of the double-electrode GTAW process using high current values. International Journal of Advanced Manufacturing Technology, 2018, 98, 929-936.	1.5	9
20	Control of the diffusible hydrogen content in different steel phases through the targeted use of different welding consumables in underwater wet welding. Materials and Corrosion - Werkstoffe Und Korrosion, 2021, 72, 504-516.	0.8	9
21	Development of a flexible robotic welding system for weld overlay cladding of thermoelectrical plants's boiler tube walls. Mechatronics, 2014, 24, 416-425.	2.0	8
22	Study of keyhole TIG welding by comparative analysis of two high-productivity torches for joining medium-thickness carbon steel plates. Welding International, 2017, 31, 337-347.	0.3	8
23	First Results of Cavitation Erosion Behavior of Plasma Nitrided Niobium: Surface Modification. Materials Research, 2015, 18, 1242-1250.	0.6	7
24	Effect of dynamic wire feeding on deposition quality in laser cladding process. Journal of Laser Applications, 2020, 32, .	0.8	7
25	Analysis of Interlayer Idle Time as a Temperature Control Technique in Additive Manufacturing of Thick Walls by Means of CMT and CMT Pulse Welding Processes. Soldagem E Inspecao, 0, 25, .	0.6	7
26	Scientific and technological fundamentals for the development of the controlled short circuiting MIG/MAG welding process (CCC) – A review of the literature. Part 3 of 3: principles of controlled current short circuiting MIG/MAG systems. Welding International, 2009, 23, 251-260.	0.3	6
27	Processo PTA-P - Uma revisão da literatura como base para inovações: parte 2 de 2: comportamento térmico e cinemático do pó, parâmetros e consumíveis do processo. Soldagem E Inspecao, 2012, 17, 173-183.	0.6	6
28	A comparison between LBW and hybrid laser-GMAW processes based on microstructure and weld geometry for hardenable steels. International Journal of Advanced Manufacturing Technology, 2020, 110, 2801-2814.	1.5	6
29	Keyhole GTAW with Dynamic Wire Feeding Applied to Orbital Welding of 304L SS Pipes. Soldagem E Inspecao, 0, 24, .	0.6	6
30	Effect of dynamic wire in the GTAW process: Microstructure and corrosion resistance. Journal of Materials Processing Technology, 2020, 285, 116758.	3.1	6
31	Effect of wire electrode and shielding gas compositions on the mechanical properties of DOMEX 700 steel welded by the GMAW-P process. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2018, 40, 1.	0.8	5
32	An adaptive orbital system based on laser vision sensor for pipeline GMAW welding. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2021, 43, 1.	0.8	5
33	Effects of the Rotating Arc Technique on the GMA Welding Process. Soldagem E Inspecao, 0, 25, .	0.6	5
34	Scientific and technological fundamentals for the development of the controlled short-circuiting MIG/MAG welding process: a review of the literature. Part 2 of 3. Metal droplet formation, shield gases, penetration mechanisms, heat input and economical aspects. Welding International, 2009, 23, 141-149.	0.3	4
35	MIG/MAG – short-circuit metal transfer – control of the current wave form – fundamentals of the CCC and STT systems. Welding International, 2009, 23, 181-185.	0.3	4
36	Consonâncias e dissonâncias interpretativas no inter-relacionamento das variáveis da corrente pulsada aplicada à soldagem com arame de alumínio 4043. Soldagem E Inspecao, 2012, 17, 201-209.	0.6	4

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37	Características de fusão e potência de soldagem com a transferência MIG - CMT versus MIG convencional para Alumínio 5183. Soldagem E Inspecao, 2013, 18, 12-18.	0.6	4
38	Electric arc shape and weld bead geometry analysis under the electromagnetic constriction and expansion effect. International Journal of Advanced Manufacturing Technology, 2022, 118, 1689-1701.	1.5	4
39	Multiple output analysis for advanced waveform and controlled short-circuit MIG/MAG variants. Welding in the World, Le Soudage Dans Le Monde, 2021, 65, 2267-2282.	1.3	4
40	Analysis of current pulse during short-circuit phase in CMT version of GMAW process under a view of additive manufacturing. Welding in the World, Le Soudage Dans Le Monde, 0, , 1.	1.3	4
41	Processo PTA-P - uma revisão da literatura como base para inovações. Parte 1 de 2: elementos construtivos. Soldagem E Inspecao, 2012, 17, 76-85.	0.6	3
42	Switch back technique enhances the productivity of the TIG welding process. Welding in the World, Le Soudage Dans Le Monde, 2017, 61, 971-977.	1.3	2
43	Welding Joint Features Extraction Algorithm for Laser Triangulation Sensors Applied to Root Pass Control. Soldagem E Inspecao, 2017, 22, 14-23.	0.6	2
44	Double-Sided Welding as an Alternative for Joining Internally Clad Pipes. Journal of Pipeline Systems Engineering and Practice, 2020, 11, .	0.9	2
45	Development and Evaluation of the Internal Cladding Process of API 5L X70 Risers with Nickel-based superalloy 625 via PTA Welding. Revista Materia, 2021, 26, .	0.1	2
46	Limitations of the Schlieren technique for shielding gas flow visualization in arc welding processes. Welding in the World, Le Soudage Dans Le Monde, 2021, 65, 1097-1105.	1.3	2
47	Contributions of the High Frequency Dynamic Wire Feeding in the GTAW Process for Increased Robustness. Soldagem E Inspecao, 0, 24, .	0.6	2
48	A didactic computational tool for monitoring and control of arc welding processes – Teaching and research. Computer Applications in Engineering Education, 2012, 20, 239-246.	2.2	1
49	Desenvolvimento e Validação de Algoritmos para Emprego de Sensores na Soldagem Robótica Orbital do Passe de Raiz de Tubulações. Soldagem E Inspecao, 2015, 20, 391-402.	0.6	1
50	Estudo da Técnica Tig Keyhole por Meio do Análise Comparativo entre Duas Tochas de Alta Produtividade na União de Chapas de Aço Carbono de Meia Espessura. Soldagem E Inspecao, 2015, 20, 262-274.	0.6	1
51	An Efficient Alternative for Joining Internally Clad Pipes Using Innovative Welding Techniques and Equipment. , 2020, , .		1
52	A New Interpretative Basis for the High Performance GMAW Process. Soldagem E Inspecao, 0, 26, .	0.6	1
53	Scientific and technological fundamentals for the development of the controlled short circuiting MIG/MAG welding process (CCC)-A literature review. Part 1 of 3: History and wire-electrode melting aspects. Welding International, 2008, 22, 847-852.	0.3	0
54	Development of a Powder-feed Device and Procedures for the Application of an Experimental Alloy in Overhead PTA-P Welding. Soldagem E Inspecao, 2015, 20, 412-422.	0.6	0

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55	Influência da Posição e dos Parâmetros de Soldagem na Soldagem TIG Orbital Aplicada a Tubulações de Aço Baixo Carbono. Soldagem E Inspecao, 2015, 20, 446-455.	0.6	0
56	Welding Processes and Automation - Modern Variants of Classical Technologies. Soldagem E Inspecao, 2015, 20, 261-261.	0.6	0
57	Soldagem Autôgena de Grande Penetração a Laser: Aço SAE 1020 como Material de Parametrização de Processo para ASTM A516 gr.70. , 2017, , .		0
58	CARACTERIZAÇÃO OPERACIONAL DE UM SISTEMA DE ALIMENTAÇÃO DE PÁ“ TIPO DISCO HORIZONTAL. , 2017, , .		0
59	Metallic Droplet, Weld Pool Temperatures Evaluation and Pulsed Wave Formulation in the Pulsed GMAW. Materials Research, 2020, 23, .	0.6	0
60	On Orbital GTA Root-Pass Welding: Evaluation of AVC Performance, Bevel Geometry Influence and Wire Feed Technique. Soldagem E Inspecao, 0, 27, .	0.6	0