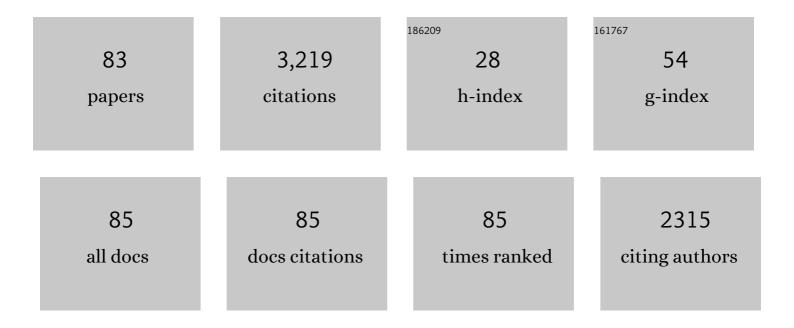
List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/1951214/publications.pdf Version: 2024-02-01



| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Current Status and Perspectives on Wire and Arc Additive Manufacturing (WAAM). Materials, 2019, 12, 1121. | 1.3 | 391 |
| 2 | Revisiting fundamental welding concepts to improve additive manufacturing: From theory to practice. Progress in Materials Science, 2020, 107, 100590. | 16.0 | 390 |
| 3 | Mechanical and metallurgical characterization of friction stir welding joints of AA6061-T6 with AA6082-T6. Materials & Design, 2009, 30, 180-187. | 5.1 | 183 |
| 4 | Wire and arc additive manufacturing of HSLA steel: Effect of thermal cycles on microstructure and mechanical properties. Additive Manufacturing, 2019, 27, 440-450. | 1.7 | 137 |
| 5 | Non-destructive testing application of radiography and ultrasound for wire and arc additive manufacturing. Additive Manufacturing, 2018, 21, 298-306. | 1.7 | 121 |
| 6 | Steel-copper functionally graded material produced by twin-wire and arc additive manufacturing (T-WAAM). Materials and Design, 2022, 213, 110270. | 3.3 | 120 |
| 7 | Advanced technique for non-destructive testing of friction stir welding of metals. Measurement: Journal of the International Measurement Confederation, 2010, 43, 1021-1030. | 2.5 | 94 |
| 8 | Effect of milling parameters on HSLA steel parts produced by Wire and Arc Additive Manufacturing (WAAM). Journal of Manufacturing Processes, 2020, 59, 739-749. | 2.8 | 94 |
| 9 | Microstructural modification and ductility enhancement of surfaces modified by FSP in aluminium alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 506, 16-22. | 2.6 | 83 |
| 10 | Reinforcement strategies for producing functionally graded materials by friction stir processing in aluminium alloys. Journal of Materials Processing Technology, 2013, 213, 1609-1615. | 3.1 | 82 |
| 11 | Friction Stir Welding assisted by electrical Joule effect. Journal of Materials Processing Technology, 2014, 214, 2127-2133. | 3.1 | 74 |
| 12 | Ultracold-Wire and arc additive manufacturing (UC-WAAM). Journal of Materials Processing Technology, 2021, 296, 117196. | 3.1 | 67 |
| 13 | Production of Al/NiTi composites by friction stir welding assisted by electrical current. Materials and Design, 2017, 113, 311-318. | 3.3 | 61 |
| 14 | A differential planar eddy currents probe: Fundamentals, modeling and experimental evaluation. NDT and E International, 2012, 51, 85-93. | 1.7 | 57 |
| 15 | In-situ strengthening of a high strength low alloy steel during Wire and Arc Additive Manufacturing (WAAM). Additive Manufacturing, 2020, 34, 101200. | 1.7 | 57 |
| 16 | Phased Array Ultrasonic Inspection of Metal Additive Manufacturing Parts. Journal of Nondestructive Evaluation, 2019, 38, 1. | 1.1 | 47 |
| 17 | Effect of contaminations on the acoustic emissions during wire and arc additive manufacturing of 316L stainless steel. Additive Manufacturing, 2022, 51, 102585. | 1.7 | 45 |
| 18 | Contactless high-speed eddy current inspection of unidirectional carbon fiber reinforced polymer. Composites Part B: Engineering, 2019, 168, 226-235. | 5.9 | 44 |

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Electrical conductivity field analysis for evaluation of FSW joints in AA6013 and AA7075 alloys. Journal of Materials Processing Technology, 2011, 211, 174-180. | 3.1 | 43 |
| 20 | Geometric optimization of a differential planar eddy currents probe for non-destructive testing. Sensors and Actuators A: Physical, 2013, 197, 96-105. | 2.0 | 43 |
| 21 | Non-destructive microstructural analysis by electrical conductivity: Comparison with hardness measurements in different materials. Journal of Materials Science and Technology, 2019, 35, 360-368. | 5.6 | 42 |
| 22 | Effect of heat treatments on 316 stainless steel parts fabricated by wire and arc additive manufacturing : Microstructure and synchrotron X-ray diffraction analysis. Additive Manufacturing, 2021, 48, 102428. | 1.7 | 42 |
| 23 | Hot forging wire and arc additive manufacturing (HF-WAAM). Additive Manufacturing, 2020, 35, 101193. | 1.7 | 40 |
| 24 | In Situ Monitoring of Additive Manufacturing Using Digital Image Correlation: A Review. Materials, 2021, 14, 1511. | 1.3 | 40 |
| 25 | Advances in NDT and Materials Characterization by Eddy Currents. Procedia CIRP, 2013, 7, 359-364. | 1.0 | 33 |
| 26 | Novel eddy current probes for pipes: Application in austenitic round-in-square profiles of ITER. NDT and E International, 2017, 87, 111-118. | 1.7 | 33 |
| 27 | Surface reinforcement of AA5083-H111 by friction stir processing assisted by electrical current. Journal of Materials Processing Technology, 2015, 216, 375-380. | 3.1 | 31 |
| 28 | Modification of electrical conductivity by friction stir processing of aluminum alloys. International Journal of Advanced Manufacturing Technology, 2011, 57, 511-519. | 1.5 | 29 |
| 29 | Comparison of deposited surface area of airborne ultrafine particles generated from two welding processes. Inhalation Toxicology, 2012, 24, 774-781. | 0.8 | 29 |
| 30 | Microstructural mapping of friction stir welded AA 7075-T6 and AlMgSc alloys using electrical conductivity. Science and Technology of Welding and Joining, 2011, 16, 630-635. | 1.5 | 28 |
| 31 | Influence of thermal debinding on the final properties of Fe–Si soft magnetic alloys for metal injection molding (MIM). Journal of Magnetism and Magnetic Materials, 2016, 416, 342-347. | 1.0 | 28 |
| 32 | FSW of aluminum AA5754 to steel DX54 with innovative overlap joint. Welding in the World, Le Soudage Dans Le Monde, 2017, 61, 257-268. | 1.3 | 28 |
| 33 | A new dual driver planar eddy current probe with dynamically controlled induction pattern. NDT and E International, 2015, 70, 29-37. | 1.7 | 27 |
| 34 | High-speed inspection of delamination defects in unidirectional CFRP by non-contact eddy current testing. Composites Part B: Engineering, 2021, 224, 109167. | 5.9 | 27 |
| 35 | Wire and Arc Additive Manufacturing of Highâ€Strength Lowâ€Alloy Steel: Microstructure and Mechanical Properties. Advanced Engineering Materials, 2021, 23, 2001036. | 1.6 | 25 |
| 36 | Magnetic pulse welding on the cutting edge of industrial applications. Soldagem E Inspecao, 2014, 19, 69-81. | 0.6 | 25 |

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Benchmarking of Nondestructive Testing for Additive Manufacturing. 3D Printing and Additive Manufacturing, 2021, 8, 263-270. | 1.4 | 24 |
| 38 | Effect of processing temperatures on the properties of a high-strength steel welded by FSW. Welding in the World, Le Soudage Dans Le Monde, 2018, 62, 1173-1185. | 1.3 | 23 |
| 39 | Simulation and validation of thermography inspection for components produced by additive manufacturing. Applied Thermal Engineering, 2019, 159, 113872. | 3.0 | 23 |
| 40 | Influence of processing parameters on the density of 316L stainless steel parts manufactured through laser powder bed fusion. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2020, 234, 1246-1257. | 1.5 | 23 |
| 41 | Analysis of copper sheets welded by fiber laser with beam oscillation. Optics and Laser Technology, 2021, 133, 106563. | 2.2 | 23 |
| 42 | Characterization of airborne particles generated from metal active gas welding process. Inhalation Toxicology, 2014, 26, 345-352. | 0.8 | 21 |
| 43 | A new NDT technique based on bacterial cells to detect micro surface defects. NDT and E International, 2014, 63, 43-49. | 1.7 | 21 |
| 44 | Evaluation of Different Non-destructive Testing Methods to Detect Imperfections in Unidirectional Carbon Fiber Composite Ropes. Journal of Nondestructive Evaluation, 2019, 38, 1. | 1.1 | 20 |
| 45 | Continuous wave terahertz imaging for NDT: Fundamentals and experimental validation. Measurement: Journal of the International Measurement Confederation, 2021, 172, 108904. | 2.5 | 20 |
| 46 | Magnetic pulse welding: machine optimisation for aluminium tubular joints production. Science and Technology of Welding and Joining, 2018, 23, 172-179. | 1.5 | 19 |
| 47 | Fabrication of a biodegradable and cytocompatible magnesium/nanohydroxyapatite/fluorapatite composite by upward friction stir processing for biomedical applications. Journal of the Mechanical Behavior of Biomedical Materials, 2022, 129, 105137. | 1.5 | 18 |
| 48 | Embedded Fiber Sensors to Monitor Temperature and Strain of Polymeric Parts Fabricated by Additive Manufacturing and Reinforced with NiTi Wires. Sensors, 2020, 20, 1122. | 2.1 | 16 |
| 49 | Non-destructive testing for wire + arc additive manufacturing of aluminium parts. Additive Manufacturing, 2019, 29, 100782. | 1.7 | 15 |
| 50 | New directions for inline inspection of automobile laser welds using non-destructive testing. International Journal of Advanced Manufacturing Technology, 2022, 118, 1183-1195. | 1.5 | 15 |
| 51 | Mechanical characterization and fatigue assessment of wire and arc additively manufactured HSLA steel parts. International Journal of Fatigue, 2022, 164, 107146. | 2.8 | 14 |
| 52 | Shaping Eddy Currents for Non-Destructive Testing Using Additive Manufactured Magnetic Substrates. Journal of Nondestructive Evaluation, 2022, 41, . | 1.1 | 13 |
| 53 | A reconfigurable digital signal processing system for eddy currents non-destructive testing. , 2010, , . | | 12 |
| 54 | Analyzing mechanical properties and nondestructive characteristics of brazed joints of NiTi shape memory alloys to carbon steel rods. International Journal of Advanced Manufacturing Technology, 2013, 66, 787-793. | 1.5 | 12 |

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Multisensor Inspection of Laser-Brazed Joints in the Automotive Industry. Sensors, 2021, 21, 7335. | 2.1 | 12 |
| 56 | Reliability and NDT Methods. Advanced Structured Materials, 2020, , 265-295. | 0.3 | 11 |
| 57 | Friction Stir Welding Assisted by Electrical Joule Effect to Overcome Lack of Penetration in Aluminium Alloys. Key Engineering Materials, 0, 611-612, 763-772. | 0.4 | 10 |
| 58 | Double active transient thermography. NDT and E International, 2022, 125, 102566. | 1.7 | 10 |
| 59 | Micro wire and arc additive manufacturing (µ-WAAM). Additive Manufacturing Letters, 2022, 2, 100032. | 0.9 | 10 |
| 60 | Data fusion in non destructive testing using fuzzy logic to evaluate friction stir welding. Welding International, 2008, 22, 826-833. | 0.3 | 9 |
| 61 | Application Of Eddy Current Techniques To Inspect Friction Spot Welds In Aluminium Alloy Aa2024 And A Composite Material. Welding in the World, Le Soudage Dans Le Monde, 2011, 55, 12-18. | 1.3 | 9 |
| 62 | Computational Tools for Modelling FSW and an Improved Tool for NDT. Welding in the World, Le Soudage Dans Le Monde, 2009, 53, R99-R108. | 1.3 | 8 |
| 63 | Functionalized material production via multi-stack Upward Friction Stir Processing (UFSP). Materials and Manufacturing Processes, 2022, 37, 11-24. | 2.7 | 7 |
| 64 | Emission of Nanoparticles During Friction Stir Welding (FSW) of Aluminium Alloys. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2014, 77, 924-930. | 1.1 | 6 |
| 65 | Production and characterization of functionally graded NiTi shape memory alloys by Joule effect. Journal of Materials Processing Technology, 2020, 285, 116803. | 3.1 | 6 |
| 66 | Effects of voltage on the components of surface integrity of Al ₂ O ₃ ceramic coatings on AA2024 by plasma electrolytic oxidation. Journal of Adhesion Science and Technology, 2020, 34, 1971-1981. | 1.4 | 6 |
| 67 | Orthogonal cutting of Wire and Arc Additive Manufactured parts. International Journal of Advanced Manufacturing Technology, 2022, 119, 4439-4459. | 1.5 | 5 |
| 68 | Nova Técnica de END Baseada em Células Bacterianas para Detecção de Micro e Nano Defeitos Superficiais. Soldagem E Inspecao, 2015, 20, 253-259. | 0.6 | 4 |
| 69 | Developments in micro- and nano-defects detection using bacterial cells. NDT and E International, 2016, 78, 20-28. | 1.7 | 4 |
| 70 | Using Biotechnology to Solve Engineering Problems: Non-Destructive Testing of Microfabrication Components. Materials, 2017, 10, 788. | 1.3 | 4 |
| 71 | In Situ Structural Characterization of Functionally Graded Ni–Ti Shape Memory Alloy During Tensile Loading. Shape Memory and Superelasticity, 2019, 5, 457-467. | 1.1 | 4 |
| 72 | INNOVATIVE EDDY CURRENT PROBE FOR MICRO DEFECTS. AIP Conference Proceedings, 2010, , . | 0.3 | 3 |

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 73 | Surface discontinuity detection using bacterial suspensions. Welding in the World, Le Soudage Dans Le Monde, 2015, 59, 723-730. | 1.3 | 3 |
| 74 | A Non-Conventional Technique for Evaluating Welded Joints Based on the Electrical Conductivity. Key Engineering Materials, 2014, 611-612, 671-676. | 0.4 | 2 |
| 75 | Innovative concept and application of EC probe for inspection of friction stir welds. International Journal of Microstructure and Materials Properties, 2014, 9, 314. | 0.1 | 2 |
| 76 | Local magnetic flux density measurements for temperature control of transient and non-homogeneous processing of steels. Scientific Reports, 2019, 9, 17900. | 1.6 | 2 |
| 77 | In situ monitoring of wire and arc additive manufacturing by digital image correlation: a case study. Procedia Structural Integrity, 2022, 37, 33-40. | 0.3 | 2 |
| 78 | In-situ hot forging directed energy deposition-arc of CuAl8 alloy. Additive Manufacturing, 2022, 55, 102847. | 1.7 | 2 |
| 79 | Characterization of FSP by electrical conductivity. , 2014, , 153-176. | | 1 |
| 80 | Application of Eddy Currents in Processed Materials Structural Evaluation. Materials Science Forum, 2012, 730-732, 715-720. | 0.3 | 0 |
| 81 | New method employing the electrical impedance for monitoring mechanical damage evolution in glass-reinforced: Applications to riveted joints. Materials & Design, 2012, 42, 25-31. | 5.1 | 0 |
| 82 | Nondestructive testing in microfabrication using bacteria. Ciência & Tecnologia Dos Materiais, 2017, 29, e262-e264. | 0.5 | 0 |
| 83 | Process Developments in FSW Advances in Intelligent Systems and Computing 2014 1015-1021 | 0.5 | 0 |