

Norbert Enzinger

List of Publications by Year in descending order

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Version: 2024-02-01

100
papers

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361413

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| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Electron beam and metal active gas welding of ultra-high-strength steel S1100MC: influence of heat input. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 119, 587-598. | 3.0 | 8 |
| 2 | Application of Electron Beam Welding Technique for Joining Ultrafine-Grained Aluminum Plates. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2022, 53, 18-24. | 2.2 | 4 |
| 3 | Residual Stresses, Microstructure, and Mechanical Properties of Electron Beam Welded Thick S1100 Steel. <i>Journal of Materials Engineering and Performance</i> , 2022, 31, 2136-2146. | 2.5 | 4 |
| 4 | Mechanical and microstructural characterization of solid wire undermatched multilayer welded S1100MC in different positions. <i>Journal of Manufacturing Processes</i> , 2022, 73, 849-860. | 5.9 | 10 |
| 5 | Tailoring the alloy composition for wire arc additive manufacturing utilizing metal-cored wires in the cold metal transfer process. <i>Materials and Design</i> , 2022, 215, 110453. | 7.0 | 6 |
| 6 | Mechanical and microstructural properties of S1100 UHSS welds obtained by EBW and MAG welding. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2022, 66, 1199-1211. | 2.5 | 10 |
| 7 | Influence of Beam Figure on Porosity of Electron Beam Welded Thin-Walled Aluminum Plates. <i>Materials</i> , 2022, 15, 3519. | 2.9 | 4 |
| 8 | Undermatched Welding of Ultra-High-Strength Steel S1100 with Metal-Cored Wire: Influence of Welding Positions on Mechanical Properties. <i>Journal of Materials Engineering and Performance</i> , 2022, 31, 7068-7079. | 2.5 | 5 |
| 9 | Manufacturing of coarse and ultrafine-grained aluminum matrix composites reinforced with Al ₂ O ₃ nanoparticles via friction stir processing. <i>Journal of Manufacturing Processes</i> , 2022, 80, 359-373. | 5.9 | 19 |
| 10 | Wire-based electron beam additive manufacturing of tungsten. <i>International Journal of Refractory Metals and Hard Materials</i> , 2022, 108, 105917. | 3.8 | 9 |
| 11 | Friction welding of conventional Ti-6Al-4V alloy with a Ti-6Al-4V based metal matrix composite reinforced by TiC. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2021, 65, 415-428. | 2.5 | 7 |
| 12 | Contactless temperature measurement in wire-based electron beam additive manufacturing Ti-6Al-4V. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2021, 65, 1307-1322. | 2.5 | 10 |
| 13 | Assessment of the chemical composition of LTT fillers on residual stresses, microstructure, and mechanical properties of 410 AISI welded joints. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2021, 65, 807-823. | 2.5 | 2 |
| 14 | The electron beam freeform fabrication of NiTi shape memory alloys. Part I: Microstructure and physical-chemical behavior. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2021, 235, 709-716. | 1.1 | 2 |
| 15 | Local changes in the microstructure, mechanical and electrochemical properties of friction stir welded joints from aluminium of varying grain size. <i>Journal of Materials Research and Technology</i> , 2021, 15, 5968-5987. | 5.8 | 3 |
| 16 | Investigation of Al-B4C Metal Matrix Composites Produced by Friction Stir Additive Processing. <i>Metals</i> , 2021, 11, 2020. | 2.3 | 7 |
| 17 | Basic alloy development of low-transformation-temperature fillers for AISI 410 martensitic stainless steel. <i>Science and Technology of Welding and Joining</i> , 2020, 25, 243-250. | 3.1 | 6 |
| 18 | Fatigue crack growth in full-scale railway axles – Influence of secondary stresses and load sequence effects. <i>International Journal of Fatigue</i> , 2020, 132, 105360. | 5.7 | 20 |

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|----|---|------|-----------|
| 19 | Wire-Based Additive Manufacturing of Ti-6Al-4V Using Electron Beam Technique. <i>Materials</i> , 2020, 13, 3310. | 2.9 | 32 |
| 20 | Similar and dissimilar welds of ultrafine grained aluminium obtained by friction stir welding. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 777, 139076. | 5.6 | 21 |
| 21 | Microstructure investigation of duplex stainless steel welds using arc heat treatment technique. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2020, 64, 1135-1147. | 2.5 | 15 |
| 22 | The influence of process parameters in linear friction welded 30CrNiMo8 small cross-section: a modelling approach. <i>Science and Technology of Welding and Joining</i> , 2019, 24, 121-129. | 3.1 | 7 |
| 23 | Layered Structures of Ti-6Al-4V Alloy and Metal Matrix Composites on Its Base Joint by Diffusion Bonding and Friction Welding. <i>Microscopy and Microanalysis</i> , 2019, 25, 812-813. | 0.4 | 3 |
| 24 | CMT Additive Manufacturing of a High Strength Steel Alloy for Application in Crane Construction. <i>Metals</i> , 2019, 9, 650. | 2.3 | 45 |
| 25 | Methods for the measurement of ferrite content in multipass duplex stainless steel welds. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2019, 63, 1075-1086. | 2.5 | 25 |
| 26 | Microstructure development of molybdenum during rotary friction welding. <i>Materials Characterization</i> , 2019, 151, 506-518. | 4.4 | 28 |
| 27 | Influence of the focus wobbling technique on the integrity and the properties of electron beam welded MarBN steel. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2019, 63, 715-724. | 2.5 | 2 |
| 28 | Thermo-metallurgically coupled numerical simulation and validation of multi-layer gas metal arc welding of high strength pearlitic rails. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2019, 63, 63-73. | 2.5 | 10 |
| 29 | Improving the integrity and the microstructural features of electron beam welds of a creep-resistant martensitic steel by local (de-)alloying. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2019, 63, 575-582. | 2.5 | 0 |
| 30 | An analytical solution for temperature distribution in fillet arc welding based on an adaptive function. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2019, 63, 409-419. | 2.5 | 8 |
| 31 | Non-destructive microstructural analysis by electrical conductivity: Comparison with hardness measurements in different materials. <i>Journal of Materials Science and Technology</i> , 2019, 35, 360-368. | 10.7 | 42 |
| 32 | Powerful analytical solution to heat flow problem in welding. <i>International Journal of Thermal Sciences</i> , 2019, 135, 601-612. | 4.9 | 17 |
| 33 | Welding of S960MC with undermatching filler material. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2018, 62, 801-809. | 2.5 | 38 |
| 34 | Wire-based additive manufacturing using an electron beam as heat source. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2018, 62, 267-275. | 2.5 | 64 |
| 35 | Rotary friction welding of molybdenum components. <i>International Journal of Refractory Metals and Hard Materials</i> , 2018, 73, 79-84. | 3.8 | 22 |
| 36 | Residual stresses in 18CrNiMo7-6 linear friction welded high strength steel chains. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 96, 3703-3710. | 3.0 | 3 |

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|----|---|-----|-----------|
| 37 | Influence of Nickel on the Properties of P91 Flux Cored Wire Weld Metal. , 2018, , 349-358. | | 0 |
| 38 | Influence of static strength on the fatigue resistance of welds. MATEC Web of Conferences, 2018, 165, 13010. | 0.2 | 6 |
| 39 | Hydrogen-induced plasticity in nanoporous palladium. Beilstein Journal of Nanotechnology, 2018, 9, 3013-3024. | 2.8 | 3 |
| 40 | Electron beam welding of copper using plasma spraying for filler metal deposition. Welding in the World, Le Soudage Dans Le Monde, 2018, 62, 1341-1350. | 2.5 | 6 |
| 41 | Effect of Ti Addition on the Microstructure and Mechanical Properties of Weld Metals in HSLA Steels. Journal of Materials Engineering and Performance, 2018, 27, 6058-6068. | 2.5 | 13 |
| 42 | Surface treatment for effective bonding in the sports industry. Materialpruefung/Materials Testing, 2018, 60, 128-133. | 2.2 | 1 |
| 43 | Thermo-mechanical testing of TiO ₂ functional coatings using friction stir processing. Materialpruefung/Materials Testing, 2018, 60, 818-824. | 2.2 | 3 |
| 44 | Increasing of toughness of brittle type S690 HSS weld metal by application of reversible temper embrittlement (RTE). Welding in the World, Le Soudage Dans Le Monde, 2017, 61, 75-79. | 2.5 | 1 |
| 45 | Effect of tempering time on the mechanical properties of P91 flux cored wire weld metal. Welding in the World, Le Soudage Dans Le Monde, 2017, 61, 11-19. | 2.5 | 1 |
| 46 | Influence of Ti on the toughness of the FGHAZ and the CGHAZ of high-strength microalloyed S700MC steels. Welding in the World, Le Soudage Dans Le Monde, 2017, 61, 1117-1131. | 2.5 | 11 |
| 47 | Modelling the flash formation of linear friction welded 30CrNiMo8 high strength steel chains. International Journal of Advanced Manufacturing Technology, 2017, 92, 2479-2486. | 3.0 | 15 |
| 48 | Toughness evaluation of EB welds. Welding in the World, Le Soudage Dans Le Monde, 2017, 61, 463-471. | 2.5 | 5 |
| 49 | Electron beam welding of thick-walled copper components. Science and Technology of Welding and Joining, 2017, 22, 127-132. | 3.1 | 10 |
| 50 | 3D Modelling of Flash Formation in Linear Friction Welded 30CrNiMo8 Steel Chain. Metals, 2017, 7, 449. | 2.3 | 5 |
| 51 | In situ characterization of hydrogen absorption in nanoporous palladium produced by dealloying. Beilstein Journal of Nanotechnology, 2016, 7, 1197-1201. | 2.8 | 9 |
| 52 | Influence of Surface Roughness in Electron Beam Welding. IOP Conference Series: Materials Science and Engineering, 2016, 119, 012008. | 0.6 | 3 |
| 53 | Electron Beam Welding of TZM Sheets. Materials Science Forum, 2016, 879, 1865-1869. | 0.3 | 13 |
| 54 | Systematic Investigation of the Temperature Field in Atmospheric Plasma Processing (APP). Materials Science Forum, 2016, 879, 1870-1875. | 0.3 | 0 |

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|----|---|-----|-----------|
| 55 | Temperature Field Evolution during Flash Butt Welding of Railway Rails. Materials Science Forum, 2016, 879, 2088-2093. | 0.3 | 34 |
| 56 | Influence of Cross Section on the Parameters for Linear Friction Welding of High-Strength Chains. Materials Science Forum, 2016, 879, 508-513. | 0.3 | 0 |
| 57 | Evaluation of Weldability of Titanium Alloy Ti-6Al-4V and Aluminum Alloy 6061 Produced by Electron Beam Welding. Materials Science Forum, 2016, 879, 714-719. | 0.3 | 6 |
| 58 | Dissimilar Electron Beam Welds of Nickel Base Alloy A625 with a 9% Cr-Steel for High Temperature Applications. Materials Science Forum, 2016, 879, 2100-2106. | 0.3 | 0 |
| 59 | Fracture analysis of a low pressure steam turbine blade. Case Studies in Engineering Failure Analysis, 2016, 5-6, 39-50. | 1.2 | 21 |
| 60 | Considerations for Sound Parameter Studies in Electron Beam Welding of Thick Walled Components. , 2016, , 87-99. | | 0 |
| 61 | FRACTURE ANGLE SEARCH WITH PUCK'S 3D INTERFIBER FRACTURE CRITERION USING THE DAMPED NEWTON'S METHOD. Composites: Mechanics, Computations, Applications, 2016, 7, 319-339. | 0.3 | 1 |
| 62 | Experimental and numerical investigations on the punching failure of carbon fiber-reinforced plastics. Materialpruefung/Materials Testing, 2016, 58, 617-621. | 2.2 | 5 |
| 63 | Evaluation of the factors influencing the strength of HSLA steel weld joint with softened HAZ. Welding in the World, Le Soudage Dans Le Monde, 2015, 59, 809-822. | 2.5 | 56 |
| 64 | Dissimilar welding of the creep resistant steels CB2 and P92 with flux cored wires. Welding in the World, Le Soudage Dans Le Monde, 2015, 59, 655-665. | 2.5 | 6 |
| 65 | Development, Experiences and Qualification of Steel Grades for Hydro Power Conduits. Wasserwirtschaft, 2015, 105, 109-113. | 0.3 | 2 |
| 66 | Influence of the soft zone on the strength of welded modern HSLA steels. Zavarivanje I Zavarene Konstrukcije, 2015, 60, 21-36. | 0.1 | 0 |
| 67 | Adhesive tensile testing of atmospheric plasma sprayed zinc coating on a 1.4301 substrate. Materialpruefung/Materials Testing, 2015, 57, 717-722. | 2.2 | 1 |
| 68 | Dissimilar Electron Beam Welding of Nickel Base Alloy 625 and 9% Cr Steel. Procedia Engineering, 2014, 86, 184-194. | 1.2 | 15 |
| 69 | Friction Stir Welding of Aluminum Metal Matrix Composite Containers for Electric Components. Key Engineering Materials, 2014, 611-612, 1445-1451. | 0.4 | 4 |
| 70 | Properties of a creep resistant 9Cr-1.5Mo-1Co cast steel joint welded with a matching flux-cored wire. Welding in the World, Le Soudage Dans Le Monde, 2014, 58, 565-575. | 2.5 | 3 |
| 71 | Calculation of hardness distribution in the HAZ of micro-alloyed steel. Welding in the World, Le Soudage Dans Le Monde, 2014, 58, 763-770. | 2.5 | 17 |
| 72 | Electron beam surface structuring of AA6016 aluminum alloy. Welding in the World, Le Soudage Dans Le Monde, 2014, 58, 795-803. | 2.5 | 7 |

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|----|---|-----|-----------|
| 73 | Creep investigation and simulation of CB2 joints using similar rutile CB2 flux-cored wire. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2014, 58, 903-913. | 2.5 | 8 |
| 74 | FE modelling of microstructure evolution during friction stir spot welding in AA6082-T6. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2013, 57, 895-902. | 2.5 | 24 |
| 75 | Mechanical Testing of Flow Drill Screw Joints Between Fibre-Reinforced Plastics and Metals. <i>Materialprüfung/Materials Testing</i> , 2013, 55, 737-742. | 2.2 | 35 |
| 76 | Development, experience and qualification of steel grades for hydropower conduits. <i>Steel Construction</i> , 2013, 6, 265-270. | 0.8 | 4 |
| 77 | Study of Physical and Mechanical Properties of Aluminum 6092/SiC25p/t6 friction Stir Welded Plate. <i>Asian Journal of Scientific Research</i> , 2013, 6, 555-563. | 0.1 | 3 |
| 78 | Friction stir welding of multilayered steel. <i>Science and Technology of Welding and Joining</i> , 2012, 17, 244-253. | 3.1 | 16 |
| 79 | Analysis of Plastic Flow during Friction Stir Spot Welding Using Finite Element Modelling. <i>Key Engineering Materials</i> , 2012, 504-506, 419-424. | 0.4 | 5 |
| 80 | Electron Beam Welding Of Atmcp Steel With 700 Mpa Yield Strength. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2012, 56, 85-94. | 2.5 | 29 |
| 81 | Influence of the Soft Zone on The Strength of Welded Modern Hsla Steels. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2012, 56, 77-85. | 2.5 | 95 |
| 82 | Loss of Ductility Caused by AlN Precipitation in Hadfield Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012, 43, 1132-1139. | 2.2 | 4 |
| 83 | Influences on ARC Stability in Welding of Aluminum Pin-Structures. , 2012, , 795-800. | | 3 |
| 84 | Investigation of Friction Stir Welding of Stainless Steel Using a Stop-Action-Technique. <i>Advanced Materials Research</i> , 2011, 409, 293-298. | 0.3 | 0 |
| 85 | Vibration Stress Relief Treatment of welded high-strength martensitic steel. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2011, 55, 86-93. | 2.5 | 14 |
| 86 | Joining of Aluminum and Steel in Car Body Manufacturing. <i>Physics Procedia</i> , 2011, 12, 150-156. | 1.2 | 42 |
| 87 | Characterisation of interface of steel/magnesium FSW. <i>Science and Technology of Welding and Joining</i> , 2011, 16, 100-107. | 3.1 | 57 |
| 88 | The estimation of the contact interface temperature during resistance spot welding of zinc coated steels using numerical technique. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2010, 41, 925-930. | 0.9 | 3 |
| 89 | Thermo-Mechanical Investigations during Friction Stir Spot Welding (FSSW) of AA6082-T6. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2010, 54, R134-R146. | 2.5 | 24 |
| 90 | Microstructural and mechanical characterisation of friction stir welded 15-5PH steel. <i>Science and Technology of Welding and Joining</i> , 2009, 14, 210-215. | 3.1 | 39 |

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| 91 | Friction Stir Spot Welds between Aluminium and Steel Automotive Sheets: Influence of Welding Parameters on Mechanical Properties and Microstructure. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2009, 53, R13-R23. | 2.5 | 51 |
| 92 | Investigation of Watergas Welded Joints for Future Decisions Concerning Old Hydropower Stations. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2009, 53, R52-R56. | 2.5 | 1 |
| 93 | Influence of plastic anisotropy on the mechanical behavior of clinched joint of different coated thin steel sheets. <i>International Journal of Material Forming</i> , 2008, 1, 273-276. | 2.0 | 36 |
| 94 | Optical 2D Displacement and Strain Sensor for Creep Testing of Material Samples in Transparent Fluids. , 2008, , . | | 2 |
| 95 | Untersuchung der wassergasgeschweiÃŸten Druckrohrleitung Kaprun. <i>Materialpruefung/Materials Testing</i> , 2008, 50, 477-488. | 2.2 | 0 |
| 96 | Characterisation of Cracks in High Strength Steel Weldments. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2007, 51, 29-33. | 2.5 | 3 |
| 97 | Investigation of cracks in original material of Cleuson-Dixence shaft. <i>Science and Technology of Welding and Joining</i> , 2006, 11, 347-351. | 3.1 | 5 |
| 98 | Fracture mechanical investigation of steel grade S890 used in Cleusonâ€™Dixence hydropower plant shaft. <i>Science and Technology of Welding and Joining</i> , 2006, 11, 422-428. | 3.1 | 3 |
| 99 | Calculation of the Influence of the Weld Pattern on the Final Residual Stress State and Deformation. <i>Materials Science Forum</i> , 2002, 404-407, 147-152. | 0.3 | 1 |
| 100 | Physical and Numerical Simulations of the Microstructure Evolution in AA6082 during Friction Stir Processing by Means of Hot Torsion and FEM. <i>Materials Science Forum</i> , 0, 762, 590-595. | 0.3 | 2 |