Norbert Enzinger

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/7205810/publications.pdf

Version: 2024-02-01

100	1,311	361413	434195
papers	citations	20 h-index	31 g-index

102	102	102	909
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Influence of the Soft Zone on The Strength of Welded Modern Hsla Steels. Welding in the World, Le Soudage Dans Le Monde, 2012, 56, 77-85.	2.5	95
2	Wire-based additive manufacturing using an electron beam as heat source. Welding in the World, Le Soudage Dans Le Monde, 2018, 62, 267-275.	2.5	64
3	Characterisation of interface of steel/magnesium FSW. Science and Technology of Welding and Joining, 2011, 16, 100-107.	3.1	57
4	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
5	Friction Stir Spot Welds between Aluminium and Steel Automotive Sheets: Influence of Welding Parameters on Mechanical Properties and Microstructure. Welding in the World, Le Soudage Dans Le Monde, 2009, 53, R13-R23.	2.5	51
6	CMT Additive Manufacturing of a High Strength Steel Alloy for Application in Crane Construction. Metals, 2019, 9, 650.	2.3	45
7	Joining of Aluminum and Steel in Car Body Manufacturing. Physics Procedia, 2011, 12, 150-156.	1.2	42
8	Non-destructive microstructural analysis by electrical conductivity: Comparison with hardness measurements in different materials. Journal of Materials Science and Technology, 2019, 35, 360-368.	10.7	42
9	Microstructural and mechanical characterisation of friction stir welded 15-5PH steel. Science and Technology of Welding and Joining, 2009, 14, 210-215.	3.1	39
10	Welding of S960MC with undermatching filler material. Welding in the World, Le Soudage Dans Le Monde, 2018, 62, 801-809.	2.5	38
11	Influence of plastic anisotropy on the mechanical behavior of clinched joint of different coated thin steel sheets. International Journal of Material Forming, 2008, 1, 273-276.	2.0	36
12	Mechanical Testing of Flow Drill Screw Joints Between Fibre-Reinforced Plastics and Metals. Materialpruefung/Materials Testing, 2013, 55, 737-742.	2.2	35
13	Temperature Field Evolution during Flash Butt Welding of Railway Rails. Materials Science Forum, 2016, 879, 2088-2093.	0.3	34
14	Wire-Based Additive Manufacturing of Ti-6Al-4V Using Electron Beam Technique. Materials, 2020, 13, 3310.	2.9	32
15	Electron Beam Welding Of Atmcp Steel With 700 Mpa Yield Strength. Welding in the World, Le Soudage Dans Le Monde, 2012, 56, 85-94.	2.5	29
16	Microstructure development of molybdenum during rotary friction welding. Materials Characterization, 2019, 151, 506-518.	4.4	28
17	Methods for the measurement of ferrite content in multipass duplex stainless steel welds. Welding in the World, Le Soudage Dans Le Monde, 2019, 63, 1075-1086.	2.5	25
18	Thermo-Mechanical Investigations during Friction Stir Spot Welding (FSSW) of AA6082-T6. Welding in the World, Le Soudage Dans Le Monde, 2010, 54, R134-R146.	2.5	24

#	Article	IF	Citations
19	FE modelling of microstructure evolution during friction stir spot welding in AA6082-T6. Welding in the World, Le Soudage Dans Le Monde, 2013, 57, 895-902.	2.5	24
20	Rotary friction welding of molybdenum components. International Journal of Refractory Metals and Hard Materials, 2018, 73, 79-84.	3.8	22
21	Fracture analysis of a low pressure steam turbine blade. Case Studies in Engineering Failure Analysis, 2016, 5-6, 39-50.	1.2	21
22	Similar and dissimilar welds of ultrafine grained aluminium obtained by friction stir welding. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 777, 139076.	5.6	21
23	Fatigue crack growth in full-scale railway axles â€“ Influence of secondary stresses and load sequence effects. International Journal of Fatigue, 2020, 132, 105360.	5.7	20
24	Manufacturing of coarse and ultrafine-grained aluminum matrix composites reinforced with Al2O3 nanoparticles via friction stir processing. Journal of Manufacturing Processes, 2022, 80, 359-373.	5.9	19
25	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
26	Powerful analytical solution to heat flow problem in welding. International Journal of Thermal Sciences, 2019, 135, 601-612.	4.9	17
27	Friction stir welding of multilayered steel. Science and Technology of Welding and Joining, 2012, 17, 244-253.	3.1	16
28	Dissimilar Electron Beam Welding of Nickel Base Alloy 625 and 9% Cr Steel. Procedia Engineering, 2014, 86, 184-194.	1.2	15
29	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
30	Microstructure investigation of duplex stainless steel welds using arc heat treatment technique. Welding in the World, Le Soudage Dans Le Monde, 2020, 64, 1135-1147.	2.5	15
31	Vibration Stress Relief Treatment of welded high-strength martensitic steel. Welding in the World, Le Soudage Dans Le Monde, 2011, 55, 86-93.	2.5	14
32	Electron Beam Welding of TZM Sheets. Materials Science Forum, 2016, 879, 1865-1869.	0.3	13
33	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
34	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
35	Electron beam welding of thick-walled copper components. Science and Technology of Welding and Joining, 2017, 22, 127-132.	3.1	10
36	Thermo-metallurgically coupled numerical simulation and validation of multi-layer gas metal arc welding of high strength pearlitic rails. Welding in the World, Le Soudage Dans Le Monde, 2019, 63, 63-73.	2.5	10

#	Article	IF	Citations
37	Contactless temperature measurement in wire-based electron beam additive manufacturing Ti-6Al-4V. Welding in the World, Le Soudage Dans Le Monde, 2021, 65, 1307-1322.	2.5	10
38	Mechanical and microstructural characterization of solid wire undermatched multilayer welded S1100MC in different positions. Journal of Manufacturing Processes, 2022, 73, 849-860.	5.9	10
39	Mechanical and microstructural properties of S1100 UHSS welds obtained by EBW and MAG welding. Welding in the World, Le Soudage Dans Le Monde, 2022, 66, 1199-1211.	2.5	10
40	In situ characterization of hydrogen absorption in nanoporous palladium produced by dealloying. Beilstein Journal of Nanotechnology, 2016, 7, 1197-1201.	2.8	9
41	Wire-based electron beam additive manufacturing of tungsten. International Journal of Refractory Metals and Hard Materials, 2022, 108, 105917.	3.8	9
42	Creep investigation and simulation of CB2 joints using similar rutile CB2 flux-cored wire. Welding in the World, Le Soudage Dans Le Monde, 2014, 58, 903-913.	2.5	8
43	An analytical solution for temperature distribution in fillet arc welding based on an adaptive function. Welding in the World, Le Soudage Dans Le Monde, 2019, 63, 409-419.	2.5	8
44	Electron beam and metal active gas welding of ultra-high-strength steel S1100MC: influence of heat input. International Journal of Advanced Manufacturing Technology, 2022, 119, 587-598.	3.0	8
45	Electron beam surface structuring of AA6016 aluminum alloy. Welding in the World, Le Soudage Dans Le Monde, 2014, 58, 795-803.	2.5	7
46	The influence of process parameters in linear friction welded 30CrNiMo8 small cross-section: a modelling approach. Science and Technology of Welding and Joining, 2019, 24, 121-129.	3.1	7
47	Friction welding of conventional Ti-6Al-4V alloy with a Ti-6Al-4V based metal matrix composite reinforced by TiC. Welding in the World, Le Soudage Dans Le Monde, 2021, 65, 415-428.	2.5	7
48	Investigation of Al-B4C Metal Matrix Composites Produced by Friction Stir Additive Processing. Metals, 2021, 11, 2020.	2.3	7
49	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
50	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
51	Influence of static strength on the fatigue resistance of welds. MATEC Web of Conferences, 2018, 165, 13010.	0.2	6
52	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
53	Basic alloy development of low-transformation-temperature fillers for AISI 410 martensitic stainless steel. Science and Technology of Welding and Joining, 2020, 25, 243-250.	3.1	6
54	Tailoring the alloy composition for wire arc additive manufacturing utilizing metal-cored wires in the cold metal transfer process. Materials and Design, 2022, 215, 110453.	7.0	6

#	Article	IF	Citations
55	Investigation of cracks in original material of Cleuson-Dixence shaft. Science and Technology of Welding and Joining, 2006, 11, 347-351.	3.1	5
56	Analysis of Plastic Flow during Friction Stir Spot Welding Using Finite Element Modelling. Key Engineering Materials, 2012, 504-506, 419-424.	0.4	5
57	Toughness evaluation of EB welds. Welding in the World, Le Soudage Dans Le Monde, 2017, 61, 463-471.	2.5	5
58	3D Modelling of Flash Formation in Linear Friction Welded 30CrNiMo8 Steel Chain. Metals, 2017, 7, 449.	2.3	5
59	Experimental and numerical investigations on the punching failure of carbon fiber-reinforced plastics. Materialpruefung/Materials Testing, 2016, 58, 617-621.	2.2	5
60	Undermatched Welding of Ultra-High-Strength Steel S1100 with Metal-Cored Wire: Influence of Welding Positions on Mechanical Properties. Journal of Materials Engineering and Performance, 2022, 31, 7068-7079.	2.5	5
61	Loss of Ductility Caused by AlN Precipitation in Hadfield Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 1132-1139.	2.2	4
62	Development, experience and qualification of steel grades for hydropower conduits. Steel Construction, 2013, 6, 265-270.	0.8	4
63	Friction Stir Welding of Aluminum Metal Matrix Composite Containers for Electric Components. Key Engineering Materials, 2014, 611-612, 1445-1451.	0.4	4
64	Application of Electron Beam Welding Technique for Joining Ultrafine-Grained Aluminum Plates. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2022, 53, 18-24.	2.2	4
65	Residual Stresses, Microstructure, and Mechanical Properties of Electron Beam Welded Thick S1100 Steel. Journal of Materials Engineering and Performance, 2022, 31, 2136-2146.	2.5	4
66	Influence of Beam Figure on Porosity of Electron Beam Welded Thin-Walled Aluminum Plates. Materials, 2022, 15, 3519.	2.9	4
67	Fracture mechanical investigation of steel grade S890 used in Cleusonâ€“Dixence hydropower plant shaft. Science and Technology of Welding and Joining, 2006, 11, 422-428.	3.1	3
68	Characterisation of Cracks in High Strength Steel Weldments. Welding in the World, Le Soudage Dans Le Monde, 2007, 51, 29-33.	2.5	3
69	The estimation of the contact interface temperature during resistance spot welding of zinc coated steels using numerical technique. Materialwissenschaft Und Werkstofftechnik, 2010, 41, 925-930.	0.9	3
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	Influence of Surface Roughness in Electron Beam Welding. IOP Conference Series: Materials Science and Engineering, 2016, 119, 012008.	0.6	3
72	Residual stresses in 18CrNiMo7-6 linear friction welded high strength steel chains. International Journal of Advanced Manufacturing Technology, 2018, 96, 3703-3710.	3.0	3

#	Article	IF	Citations
73	Hydrogen-induced plasticity in nanoporous palladium. Beilstein Journal of Nanotechnology, 2018, 9, 3013-3024.	2.8	3
74	Layered Structures of Ti-6Al-4V Alloy and Metal Matrix Composites on Its Base Joint by Diffusion Bonding and Friction Welding. Microscopy and Microanalysis, 2019, 25, 812-813.	0.4	3
75	Study of Physical and Mechanical Properties of Aluminum 6092/SiC25p/t6 friction Stir Welded Plate. Asian Journal of Scientific Research, 2013, 6, 555-563.	0.1	3
76	Influences on ARC Stability in Welding of Aluminum Pin-Structures. , 2012, , 795-800.		3
77	Thermo-mechanical testing of TiO₂ functional coatings using friction stir processing. Materialpruefung/Materials Testing, 2018, 60, 818-824.	2.2	3
78	Local changes in the microstructure, mechanical and electrochemical properties of friction stir welded joints from aluminium of varying grain size. Journal of Materials Research and Technology, 2021, 15, 5968-5987.	5.8	3
79	Optical 2D Displacement and Strain Sensor for Creep Testing of Material Samples in Transparent Fluids. , 2008, , .		2
80	Physical and Numerical Simulations of the Microstructure Evolution in AA6082 during Friction Stir Processing by Means of Hot Torsion and FEM. Materials Science Forum, 0, 762, 590-595.	0.3	2
81	Influence of the focus wobbling technique on the integrity and the properties of electron beam welded MarBN steel. Welding in the World, Le Soudage Dans Le Monde, 2019, 63, 715-724.	2.5	2
82	Assessment of the chemical composition of LTT fillers on residual stresses, microstructure, and mechanical properties of 410 AISI welded joints. Welding in the World, Le Soudage Dans Le Monde, 2021, 65, 807-823.	2.5	2
83	Development, Experiences and Qualification of Steel Grades for Hydro Power Conduits. Wasserwirtschaft, 2015, 105, 109-113.	0.3	2
84	The electron beam freeform fabrication of NiTi shape memory alloys. Part I: Microstructure and physicalâ€“chemical behavior. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2021, 235, 709-716.	1.1	2
85	Calculation of the Influence of the Weld Pattern on the Final Residual Stress State and Deformation. Materials Science Forum, 2002, 404-407, 147-152.	0.3	1
86	Investigation of Watergas Welded Joints for Future Decisions Concerning Old Hydropower Stations. Welding in the World, Le Soudage Dans Le Monde, 2009, 53, R52-R56.	2.5	1
87	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
88	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
89	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
90	Adhesive tensile testing of atmospheric plasma sprayed zinc coating on a 1.4301 substrate. Materialpruefung/Materials Testing, 2015, 57, 717-722.	2.2	1

#	Article	IF	Citations
91	Surface treatment for effective bonding in the sports industry. Materialpruefung/Materials Testing, 2018, 60, 128-133.	2.2	1
92	Investigation of Friction Stir Welding of Stainless Steel Using a Stop-Action-Technique. Advanced Materials Research, 2011, 409, 293-298.	0.3	0
93	Systematic Investigation of the Temperature Field in Atmospheric Plasma Processing (APP). Materials Science Forum, 2016, 879, 1870-1875.	0.3	0
94	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
95	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
96	Considerations for Sound Parameter Studies in Electron Beam Welding of Thick Walled Components. , 2016, , 87-99.		0
97	Influence of Nickel on the Properties of P91 Flux Cored Wire Weld Metal. , 2018, , 349-358.		0
98	Improving the integrity and the microstructural features of electron beam welds of a creep-resistant martensitic steel by local (de-)alloying. Welding in the World, Le Soudage Dans Le Monde, 2019, 63, 575-582.	2.5	0
99	Untersuchung der wassergasgeschweiÃŸten Druckrohrleitung Kaprun. Materialpruefung/Materials Testing, 2008, 50, 477-488.	2.2	0
100	Influence of the soft zone on the strength of welded modern HSLA steels. Zavarivanje I Zavarene Konstrukcije, 2015, 60, 21-36.	0.1	0