

Klaus Dilger

List of Publications by Year in descending order

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183
papers

1,863
citations

331670

21
h-index

377865

34
g-index

200
all docs

200
docs citations

200
times ranked

1208
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Laser Surface Pre-Treatment of CFRP for Adhesive Bonding in Consideration of the Absorption Behaviour. <i>Journal of Adhesion</i> , 2012, 88, 350-363. | 3.0 | 108 |
| 2 | Wire and Arc Additive Manufacturing of Aluminum Components. <i>Metals</i> , 2019, 9, 608. | 2.3 | 90 |
| 3 | Design and Parameter Identification of Wire and Arc Additively Manufactured (WAAM) Steel Bars for Use in Construction. <i>Metals</i> , 2019, 9, 725. | 2.3 | 81 |
| 4 | Fatigue Behaviour of Welded High-Strength Steels after High Frequency Mechanical Post-Weld Treatments. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2009, 53, R322-R332. | 2.5 | 65 |
| 5 | Surface Structuring of CFRP by using Modern Excimer Laser Sources. <i>Physics Procedia</i> , 2012, 39, 154-160. | 1.2 | 52 |
| 6 | Fatigue assessment of welded joints using stress averaging and critical distance approaches. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2015, 59, 731-742. | 2.5 | 51 |
| 7 | UV-laser cleaning and surface characterization of an aerospace carbon fibre reinforced polymer. <i>International Journal of Adhesion and Adhesives</i> , 2018, 82, 50-59. | 2.9 | 49 |
| 8 | Residual stress in wire and arc additively manufactured aluminum components. <i>Journal of Manufacturing Processes</i> , 2021, 65, 97-111. | 5.9 | 49 |
| 9 | Analytical Characterization of CFRP Laser Treated by Excimer Laser Radiation. <i>Physics Procedia</i> , 2013, 41, 282-290. | 1.2 | 47 |
| 10 | Solid-state phase transformation and strain hardening on the residual stresses in S355 steel weldments. <i>Journal of Materials Processing Technology</i> , 2019, 265, 173-184. | 6.3 | 45 |
| 11 | Improved degassing in laser beam welding of aluminum die casting by an electromagnetic field. <i>Journal of Materials Processing Technology</i> , 2018, 253, 51-56. | 6.3 | 43 |
| 12 | Surface Modification with Laser: Pretreatment of Aluminium Alloys for Adhesive Bonding. <i>Plasma Processes and Polymers</i> , 2007, 4, S39-S43. | 3.0 | 33 |
| 13 | Mechanisms of Residual Stress Relaxation and Redistribution in Welded High-Strength Steel Specimens under Mechanical Loading. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2010, 54, R366-R374. | 2.5 | 31 |
| 14 | Geometry and Distortion Prediction of Multiple Layers for Wire Arc Additive Manufacturing with Artificial Neural Networks. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 4694. | 2.5 | 27 |
| 15 | Effects of residual stresses and compressive mean stresses on the fatigue strength of longitudinal fillet-welded gussets. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2016, 60, 267-281. | 2.5 | 26 |
| 16 | Influence of different zinc coatings on laser brazing of galvanized steel. <i>Journal of Materials Processing Technology</i> , 2017, 239, 75-82. | 6.3 | 26 |
| 17 | Effects of Thermal Cycling on Wire and Arc Additive Manufacturing of Al-5356 Components. <i>Metals</i> , 2020, 10, 952. | 2.3 | 26 |
| 18 | Comparative study of deposition patterns for DED-Arc additive manufacturing of Al-4046. <i>Materials and Design</i> , 2021, 210, 110122. | 7.0 | 26 |

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|----|---|-----|-----------|
| 19 | Residual Stress Calculations And Measurements – Review And Assessment Of The Iiw Round Robin Results. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2012, 56, 120-140. | 2.5 | 25 |
| 20 | Fatigue Strength Enhancement of Butt Welds by Means of Shot Peening and Clean Blasting. <i>Metals</i> , 2019, 9, 744. | 2.3 | 25 |
| 21 | Mechanical properties of wire and arc additively manufactured high-strength steel structures. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2022, 66, 395-407. | 2.5 | 25 |
| 22 | Residual Stress Relaxation of Quasi-Statically and Cyclically-Loaded Steel Welds. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2010, 54, R49-R60. | 2.5 | 21 |
| 23 | Three-beam laser brazing of zinc-coated steel. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 90, 317-328. | 3.0 | 21 |
| 24 | Capacity Distribution of Large Lithium-Ion Battery Pouch Cells in Context with Pilot Production Processes. <i>Energy Technology</i> , 2020, 8, 1900196. | 3.8 | 21 |
| 25 | Influence of ambient pressure on spattering and weld seam quality in laser beam welding with the solid-state laser. , 2011, , . | | 20 |
| 26 | On the effects of austenite phase transformation on welding residual stresses in non-load carrying longitudinal welds. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2015, 59, 179-190. | 2.5 | 20 |
| 27 | Study on the residual stress relaxation in girth-welded steel pipes under bending load using diffraction methods. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 688, 289-300. | 5.6 | 20 |
| 28 | Effects of heat source geometric parameters and arc efficiency on welding temperature field, residual stress, and distortion in thin-plate full-penetration welds. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 99, 497-515. | 3.0 | 20 |
| 29 | Fast Curing of Adhesives in the Field of CFRP. <i>Journal of Adhesion</i> , 2012, 88, 406-417. | 3.0 | 18 |
| 30 | On the occurrence of weld bead porosity during laser vacuum welding of high pressure aluminium die castings. <i>Procedia CIRP</i> , 2018, 74, 438-441. | 1.9 | 18 |
| 31 | Investigations on different fatigue design concepts using the example of a welded crossbeam connection from the underframe of a steel railcar body. <i>International Journal of Fatigue</i> , 2012, 34, 47-56. | 5.7 | 17 |
| 32 | Chemical pretreatment and adhesive bonding properties of high-pressure die cast aluminum alloy: AlSi10MnMg. <i>International Journal of Adhesion and Adhesives</i> , 2015, 61, 112-121. | 2.9 | 17 |
| 33 | Behavior of adhesively bonded coated steel for automotive applications under impact loads. <i>International Journal of Adhesion and Adhesives</i> , 2015, 56, 32-40. | 2.9 | 17 |
| 34 | Influence of Restraint Conditions on Welding Residual Stresses in H-Type Cracking Test Specimens. <i>Materials</i> , 2019, 12, 2700. | 2.9 | 16 |
| 35 | Influence of temperature- and phase-dependent yield strength on residual stresses in ultra-high strength steel S960 weldments. <i>Journal of Materials Research and Technology</i> , 2021, 15, 1854-1872. | 5.8 | 16 |
| 36 | Evaluation of the Separation Process for the Production of Electrode Sheets. <i>Energy Technology</i> , 2020, 8, 1900519. | 3.8 | 15 |

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| 37 | Investigation on fatigue strength of cut edges produced by various cutting methods for high-strength steels. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2020, 64, 545-561. | 2.5 | 14 |
| 38 | Stability and Relaxation of Welding Residual Stresses. <i>Materials Science Forum</i> , 0, 681, 55-60. | 0.3 | 13 |
| 39 | Fatigue assessment of arc welded automotive components using local stress approaches: Application to a track control arm. <i>International Journal of Fatigue</i> , 2012, 34, 57-64. | 5.7 | 13 |
| 40 | Engineering model for the quantitative consideration of residual stresses in fatigue design of welded components. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2017, 61, 997-1002. | 2.5 | 13 |
| 41 | Processing of Advanced Battery Materials – Laser Cutting of Pure Lithium Metal Foils. <i>Batteries</i> , 2018, 4, 37. | 4.5 | 13 |
| 42 | Micro bonding with non-viscous adhesives. <i>Microsystem Technologies</i> , 2006, 12, 676-679. | 2.0 | 12 |
| 43 | Adhesive Bonding in Steel Construction - Challenge and Innovation. <i>Procedia Engineering</i> , 2017, 172, 186-193. | 1.2 | 12 |
| 44 | Water uptake and interfacial delamination of an epoxy-coated galvanized steel: An electrochemical impedance spectroscopic study. <i>Progress in Organic Coatings</i> , 2019, 137, 105333. | 3.9 | 12 |
| 45 | Improvement of the adhesion of continuously manufactured multi-material joints by application of thermoplastic adhesive film. <i>International Journal of Adhesion and Adhesives</i> , 2019, 93, 102321. | 2.9 | 12 |
| 46 | Strengthening of fatigue cracks in steel bridges by means of adhesively bonded steel patches. <i>Journal of Adhesion</i> , 2022, 98, 827-853. | 3.0 | 12 |
| 47 | Sources and Consequences of Residual Stresses due to Welding. <i>Materials Science Forum</i> , 0, 783-786, 2777-2785. | 0.3 | 11 |
| 48 | Influence of residual stresses on fatigue strength of large-scale welded assembly joints. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2017, 61, 361-374. | 2.5 | 11 |
| 49 | Induction technique in manufacturing preforms. <i>Mechanics of Composite Materials</i> , 2008, 44, 523-530. | 1.4 | 10 |
| 50 | Process characteristics of laser beam welding at reduced ambient pressure. , 2013, , . | | 10 |
| 51 | Form-Flexible Handling and Joining Technology (FormHand) for the Forming and Assembly of Limp Materials. <i>Procedia CIRP</i> , 2014, 23, 206-211. | 1.9 | 10 |
| 52 | Welding residual stresses in thick steel plates – MAG-welded at low ambient temperature. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2015, 59, 597-610. | 2.5 | 10 |
| 53 | Composite Bonding Pre-Treatment with Laser Radiation of 3 Åµm Wavelength: Comparison with Conventional Laser Sources. <i>Materials</i> , 2018, 11, 1216. | 2.9 | 10 |
| 54 | Investigations on dual laser beam welding of aluminum high pressure die castings at reduced ambient pressure. <i>Journal of Laser Applications</i> , 2018, 30, 032420. | 1.7 | 10 |

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|----|--|-----|-----------|
| 55 | Influence of production based surface topography and release agent amount on bonding properties of CFRP. <i>Composite Structures</i> , 2019, 216, 104-111. | 5.8 | 10 |
| 56 | Influence of Laser-Generated Cutting Edges on the Electrical Performance of Large Lithium-Ion Pouch Cells. <i>Batteries</i> , 2019, 5, 73. | 4.5 | 10 |
| 57 | Influence of the fibre orientation on the lap shear strength and fracture behaviour of adhesively bonded composite metal joints at high strain rates. <i>International Journal of Adhesion and Adhesives</i> , 2020, 97, 102486. | 2.9 | 10 |
| 58 | Investigation of hybrid fusion bonds under varying manufacturing and operating procedures. <i>Composite Structures</i> , 2018, 202, 275-282. | 5.8 | 9 |
| 59 | Active Thermography for Quality Assurance of joints in automobile manufacturing. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2011, 55, 90-97. | 2.5 | 8 |
| 60 | Novel form-flexible handling and joining tool for automated preforming. <i>Science and Engineering of Composite Materials</i> , 2015, 22, 199-213. | 1.4 | 8 |
| 61 | Challenges in joining conductive adhesives in structural application – Effects of tolerances and temperature. <i>International Journal of Adhesion and Adhesives</i> , 2016, 67, 49-53. | 2.9 | 8 |
| 62 | An Initial Study of a Lightweight Die Casting Die Using a Modular Design Approach. <i>International Journal of Metalcasting</i> , 2018, 12, 870-883. | 1.9 | 8 |
| 63 | Robust joining point design for semi-tubular self-piercing rivets. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 98, 431-440. | 3.0 | 8 |
| 64 | Remanufacturing of die casting dies made of hot-work steels by using the wire-based electron-beam welding with an in situ heat treatment. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2019, 63, 1669-1679. | 2.5 | 8 |
| 65 | Combined deep drawing and fusion bonding of structural FRP-metal hybrid parts. <i>Procedia Manufacturing</i> , 2019, 29, 296-304. | 1.9 | 8 |
| 66 | Electrochemical Behavior and Interfacial Delamination of a Polymer-Coated Galvanized Steel System in Acid Media. <i>ACS Omega</i> , 2021, 6, 20331-20340. | 3.5 | 8 |
| 67 | Application of the Local Fatigue Strength Concept for the Evaluation of Post Weld Treatments. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2007, 51, 65-75. | 2.5 | 7 |
| 68 | Selecting the right joint design and fabrication techniques. , 2010, , 295-315. | | 7 |
| 69 | Experimental Investigation of Fatigue Crack Propagation in Residual Stress Fields. <i>Procedia Engineering</i> , 2015, 133, 244-254. | 1.2 | 7 |
| 70 | The impact of prepreg aging on its processability and the postcure mechanical properties of epoxy-based carbon-fiber reinforced plastics. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2017, 231, 62-72. | 1.1 | 7 |
| 71 | Optical spectroscopic and electrochemical characterization of oxide films on a ferritic stainless steel. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2020, 71, 440-450. | 1.5 | 7 |
| 72 | Laser welding of 16MnCr5 butt welds with gap: resulting weld quality and fatigue strength assessment. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2022, 66, 1867-1881. | 2.5 | 7 |

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| 73 | Induction-Excited Thermography – a Method to Visualize Defects in Semi-Structural Adhesive Bonds of Car Body Structures. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2012, 56, 126-132. | 2.5 | 6 |
| 74 | Residual stresses in multi-pass butt-welded ferritic-pearlitic steel pipes. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2015, 59, 555-563. | 2.5 | 6 |
| 75 | Adhesion of continuously manufactured fusion bonded multi-material structures consisting of steel and carbon fibre reinforced Polyamide 6. <i>International Journal of Adhesion and Adhesives</i> , 2017, 79, 73-82. | 2.9 | 6 |
| 76 | CFRP-Part Quality as the Result of Release Agent Application – Demoldability, Contamination Level, Bondability. <i>Procedia CIRP</i> , 2017, 66, 33-38. | 1.9 | 6 |
| 77 | A contribution to the qualification process of surface pretreatment methods: Sensitivity of mechanical tests to adhesion and delamination. <i>Journal of Adhesion</i> , 2018, 94, 294-312. | 3.0 | 6 |
| 78 | Bonding performance after aging of fusion bonded hybrid joints. <i>International Journal of Adhesion and Adhesives</i> , 2019, 93, 102331. | 2.9 | 6 |
| 79 | Effects of Reduced Ambient Pressure and Beam Oscillation on Gap Bridging Ability during Solid-State Laser Beam Welding. <i>Journal of Manufacturing and Materials Processing</i> , 2020, 4, 40. | 2.2 | 6 |
| 80 | Tool wear behaviour and the influence of wear-resistant coatings during refill friction stir spot welding of aluminium alloys. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2021, 65, 243-250. | 2.5 | 6 |
| 81 | Metallurgical investigation of electron beam welded duplex stainless steel X2CrNiMoN22-5-3 with plasma nitrided weld edge surfaces. <i>Materialpruefung/Materials Testing</i> , 2018, 60, 577-582. | 2.2 | 6 |
| 82 | Influence of strain-hardening models and slopes on the predicted residual stresses in structural steel S235 weldments. <i>Journal of Materials Research and Technology</i> , 2022, 19, 4044-4062. | 5.8 | 6 |
| 83 | Relaxation of welding residual stresses – Part I: under quasi-static loading. <i>International Journal of Microstructure and Materials Properties</i> , 2012, 7, 3. | 0.1 | 5 |
| 84 | Adhesive bonding of textiles: applications. , 2013, , 275-308. | | 5 |
| 85 | Carbon black nanoparticle alignment using magnetic particles creating local percolation spots for electrical conductivity in structural adhesives. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2015, 229, 166-172. | 1.1 | 5 |
| 86 | Determination of cure-dependent properties of adhesives by thermal analysis using reaction kinetics and a novel experimental apparatus. <i>International Journal of Adhesion and Adhesives</i> , 2016, 68, 411-417. | 2.9 | 5 |
| 87 | Local displacement measurements within adhesives using particle tracking and <i>In Situ</i> computed tomography. <i>Journal of Adhesion</i> , 2017, 93, 531-549. | 3.0 | 5 |
| 88 | Simplified residual stress and distortion calculations of multi-pass welds and their possible influence on result quality. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2019, 63, 1291-1301. | 2.5 | 5 |
| 89 | Fatigue strength of thermal cut edges – influence of ISO 9013 quality groups. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2019, 63, 349-363. | 2.5 | 5 |
| 90 | Increased accuracy of calculated fatigue resistance of welds through consideration of the statistical size effect within the notch stress concept. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2020, 64, 1725-1736. | 2.5 | 5 |

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| 91 | Structural sandwich composites out of wood foam core and textile reinforced concrete sheets for versatile and sustainable use in the building industry. <i>Materials Today: Proceedings</i> , 2020, 31, S296-S302. | 1.8 | 5 |
| 92 | Linear Elastic FE-Analysis of Porous, Laser Welded, Heat Treatable, Aluminium High Pressure Die Castings Based on X-Ray Computed Tomography Data. <i>Materials</i> , 2020, 13, 1420. | 2.9 | 5 |
| 93 | Welding Residual Stresses in Tubular Joints. <i>Materials Science Forum</i> , 0, 768-769, 605-612. | 0.3 | 4 |
| 94 | Residual Stresses in Multi-Pass Butt-Welded Tubular Joints. <i>Advanced Materials Research</i> , 0, 996, 488-493. | 0.3 | 4 |
| 95 | Kinetic analysis for the determination of cure-dependent mechanical properties of adhesives. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2014, 228, 92-99. | 1.1 | 4 |
| 96 | Adhesive Bonding of Attachments on Alternate Car Shell Surfaces in Automotive Final Assembly Lines. <i>Procedia CIRP</i> , 2014, 18, 180-185. | 1.9 | 4 |
| 97 | 1. Laser material machining of CFRP – an option for damage-free and flexible CFRP processing?. , 0, , 1-30. | | 4 |
| 98 | Finite Element Modelling of Cure-dependent Mechanical Properties by Model-free Kinetic Analysis Using a Cohesive Zone Approach. <i>Journal of Adhesion</i> , 2016, 92, 572-585. | 3.0 | 4 |
| 99 | Consideration of manufacturing effects on fatigue design for welded chassis components. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2016, 60, 71-81. | 2.5 | 4 |
| 100 | Laser transmission welding of thermoplastic fasteners: Influence of temperature distribution in a scanning based process. <i>Procedia CIRP</i> , 2018, 74, 533-537. | 1.9 | 4 |
| 101 | Investigations on the fatigue strength of beam-welded butt joints taking the weld quality into account. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2019, 63, 1303-1313. | 2.5 | 4 |
| 102 | Thermomechanical characterization and modeling of fast-curing polyurethane adhesives. <i>Continuum Mechanics and Thermodynamics</i> , 2020, 32, 421-432. | 2.2 | 4 |
| 103 | Sequence effect of p(1/3) spectrum loading on service fatigue strength of as-welded and high-frequency mechanical impact (HFMI)-treated transverse stiffeners of mild steel. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2021, 65, 1821-1839. | 2.5 | 4 |
| 104 | Utilization of additively manufactured lattice structures for increasing adhesive bonding using material extrusion. <i>Journal of Adhesion</i> , 2024, 100, 340-361. | 3.0 | 4 |
| 105 | Improvement of the Fatigue Strength of Steel Bridges by Adhesively Bonded Steel Patches – Adhesives and Processes. , 2022, , 96-127. | | 4 |
| 106 | Determination of Residual Stresses in Welded Structural Steels with Help of Micromagnetic Measurements. <i>Materials Science Forum</i> , 0, 681, 194-201. | 0.3 | 3 |
| 107 | Withstanding frequent steam sterilisation: Innovative technique to bond glass and stainless steel composites in biotechnology and endoscopic medicine. <i>International Journal of Adhesion and Adhesives</i> , 2012, 33, 15-25. | 2.9 | 3 |
| 108 | Clean and reliable. <i>Adhesion Adhesives and Sealants</i> , 2013, 10, 34-39. | 0.1 | 3 |

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| 109 | Load induced inhomogeneous plastic deformations in welded aluminium joints. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2014, 58, 529-538. | 2.5 | 3 |
| 110 | Fracture Toughness of Electron Beam Welded Fine Grain Steels. <i>Procedia Structural Integrity</i> , 2016, 2, 3523-3530. | 0.8 | 3 |
| 111 | Enhanced Comprehension of the Continuous Fusion Bonding Process of Multi-Material Structures. <i>Materials Science Forum</i> , 0, 939, 197-204. | 0.3 | 3 |
| 112 | Print-On Strategies to Bond Injection Molded Parts with Structures Produced by Fused-Deposition-Modeling. <i>Proceedings of the Design Society International Conference on Engineering Design</i> , 2019, 1, 819-828. | 0.6 | 3 |
| 113 | Bonding behavior of fusion bonded hybrid joints with press hardened steel and glass mat reinforced thermoplastic. <i>Journal of Adhesion</i> , 2020, 96, 113-129. | 3.0 | 3 |
| 114 | Capability of martensitic low transformation temperature welding consumables for increasing the fatigue strength of high strength steel joints. <i>Materialpruefung/Materials Testing</i> , 2020, 62, 891-900. | 2.2 | 3 |
| 115 | Modeling the curing behavior of a toughened hot curing epoxide adhesive during the paint drying process. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 2020, 234, 406-414. | 2.5 | 3 |
| 116 | Experimental analysis and modelling of temperature- and humidity-controlled curing. <i>Journal of Rubber Research (Kuala Lumpur, Malaysia)</i> , 2021, 24, 281-300. | 1.1 | 3 |
| 117 | Electron beam welding of rectangular copper wires applied in electrical drives. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2021, 65, 2077-2091. | 2.5 | 3 |
| 118 | Residual Stressâ€‘Based Fatigue Design of Welded Structures. <i>Materials Performance and Characterization</i> , 2018, 7, 630-642. | 0.3 | 3 |
| 119 | Sequence effect of as-welded and HFMI-treated transverse attachments under variable loading with linear spectrum. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 0, , 1. | 2.5 | 3 |
| 120 | Relaxation of welding residual stresses Â– Part II: under cyclic loading. <i>International Journal of Microstructure and Materials Properties</i> , 2012, 7, 16. | 0.1 | 2 |
| 121 | Effects of Residual Stresses on the Fatigue Performance of Welded Steels with Longitudinal Stiffeners. <i>Materials Science Forum</i> , 2013, 768-769, 636-643. | 0.3 | 2 |
| 122 | On Welding Residual Stresses Near Fatigue Crack Tips. <i>Advanced Materials Research</i> , 0, 996, 801-807. | 0.3 | 2 |
| 123 | Structural Electrically Conductive Adhesives. <i>Journal of the Adhesion Society of Japan</i> , 2015, 51, 274-278. | 0.0 | 2 |
| 124 | Simplified construction of fuel cells. <i>Adhesion Adhesives and Sealants</i> , 2015, 12, 30-35. | 0.1 | 2 |
| 125 | Adhesive bonding techniques for advanced high-strength steels (AHSS). , 2015, , 167-179. | | 2 |
| 126 | Surface treatment with small laser spots: an approach for the comparison of process parameters. <i>Proceedings of SPIE</i> , 2016, , . | 0.8 | 2 |

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|-----|---|-----|-----------|
| 127 | High-tensile joints of continuously fusion bonded hybrid structures. Composite Structures, 2018, 202, 111-118. | 5.8 | 2 |
| 128 | Optical absorption and redox kinetics of YBa ₂ Cu ₃ O _{7-δ} thin films studied by optical in-situ spectroscopy. Solid State Ionics, 2018, 315, 98-101. | 2.7 | 2 |
| 129 | Laser transmission joining of thermoplastic fasteners: Application for thermoset CFRP. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2018, , 146442071880457. | 1.1 | 2 |
| 130 | Injection bonding of structural components with fast-curing two-component PUR-systems. Applied Adhesion Science, 2018, 6, . | 1.5 | 2 |
| 131 | Modeling of adhesive layers with temperature-dependent cohesive zone elements for predicting adhesive failure during the drying process of cathodic dip painting. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2018, , 146442071880600. | 1.1 | 2 |
| 132 | Investigations on the impact and fracture toughness of beam welded structural steels with yield strengths from 355 to 960MPa. Welding in the World, Le Soudage Dans Le Monde, 2019, 63, 87-95. | 2.5 | 2 |
| 133 | Deformation measurement within adhesive bonds of aluminium and CFRP using advanced fibre optic sensors. Manufacturing Review, 2020, 7, 14. | 1.5 | 2 |
| 134 | Influence of competing notches on the fatigue strength of cut plate edges. Welding in the World, Le Soudage Dans Le Monde, 2021, 65, 1791-1803. | 2.5 | 2 |
| 135 | Residual Stresses and Fatigue Behavior of High Strength Structural Steels with Fillet Welded Longitudinal Stiffeners. HTM - Journal of Heat Treatment and Materials, 2014, 69, 14-23. | 0.2 | 2 |
| 136 | Adhesive Method for Rapidly Bonded Wood Panel Joints of Prefab House Construction Joints. , 2015, , 265-296. | | 2 |
| 137 | Characterization of Fast Adhesive Curing Reactions – A Novel Experimental Setup. Proceedings in Engineering Mechanics, 2021, , 53-68. | 0.5 | 2 |
| 138 | Consideration of manufacturing induced adhesive damage in automotive simulations. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 0, , 095440892210800. | 2.5 | 2 |
| 139 | Wirtschaftliche Herstellung modularer Rahmenstrukturen. Adhaesion Kleben Und Dichten, 2011, 55, 42-47. | 0.0 | 1 |
| 140 | Gluing instead of stapling or nailing. Adhesion Adhesives and Sealants, 2013, 10, 30-33. | 0.1 | 1 |
| 141 | Possibilities of improving weld seam quality in laser welding of aluminum die cast. , 2014, , . | | 1 |
| 142 | Thermische Massenstrommessung von hochviskosen, nichtnewtonschen Polymeren. Chemie-Ingenieur-Technik, 2014, 86, 1241-1248. | 0.8 | 1 |
| 143 | Study on the near-surface residual stress state in butt-welded pipes of austenitic steel using X-ray diffraction. Welding in the World, Le Soudage Dans Le Monde, 2016, 60, 1169-1179. | 2.5 | 1 |
| 144 | CFRP bonding pre-treatment with laser radiation of 3 ¼m wavelength: laser/material interaction. , 2016, , . | | 1 |

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| 145 | Bonding Strength of Hot-Formed Steel with an AlSi Coating and Approaches to Improve It by Laser Surface Engineering. <i>Advanced Structured Materials</i> , 2017, , 389-398. | 0.5 | 1 |
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