

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	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
2	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
3	Clinching of inductively heated aluminum die casting. <i>Production Engineering</i> , 2022, 16, 223.	2.3	0
4	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
5	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
6	Improvement of the Fatigue Strength of Steel Bridges by Adhesively Bonded Steel Patches – Adhesives and Processes. , 2022, , 96-127.		4
7	Durability of Adhesively Bonded Timber-Concrete-Composite Constructions Joined by Fast Heated Structural Adhesive Bond Lines. , 2022, , 128-151.		0
8	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
9	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
10	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
11	Influence of competing notches on the fatigue strength of cut plate edges. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2021, 65, 1791-1803.	2.5	2
12	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
13	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
14	Residual stress in wire and arc additively manufactured aluminum components. <i>Journal of Manufacturing Processes</i> , 2021, 65, 97-111.	5.9	49
15	Evaluating Techniques for Joining Piezo-Electric Elements on Test Structures for Performing Vibration-Based Measurement Methods. <i>Engineering Proceedings</i> , 2021, 6, .	0.4	0
16	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
17	A Near-Surface Layer Heat Treatment of Die Casting Dies by Means of Electron-Beam Technology. <i>Metals</i> , 2021, 11, 1236.	2.3	1
18	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

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19	Comparative study of deposition patterns for DED-Arc additive manufacturing of Al-4046. <i>Materials and Design</i> , 2021, 210, 110122.	7.0	26
20	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
21	Eingehende Darstellung der erzielten Ergebnisse. <i>Zukunftstechnologien Für Den Multifunktionalen Leichtbau</i> , 2021, , 31-180.	0.1	0
22	Wood Foam and Textile Reinforced Concrete in Sandwich Elements and Self-Supporting Modules to Modernize Intermediate Ceilings in Old-Building Renovation. , 2021, , 76-93.		0
23	Characterization of Fast Adhesive Curing Reactions – A Novel Experimental Setup. <i>Proceedings in Engineering Mechanics</i> , 2021, , 53-68.	0.5	2
24	Thermomechanical characterization and modeling of fast-curing polyurethane adhesives. <i>Continuum Mechanics and Thermodynamics</i> , 2020, 32, 421-432.	2.2	4
25	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
26	Evaluation of various standards of adhesion properties between fused-layer-modeling parts and injection molded parts. <i>Journal of Adhesion</i> , 2020, 96, 13-32.	3.0	0
27	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
28	Evaluation of the Separation Process for the Production of Electrode Sheets. <i>Energy Technology</i> , 2020, 8, 1900519.	3.8	15
29	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
30	Effects of Thermal Cycling on Wire and Arc Additive Manufacturing of Al-5356 Components. <i>Metals</i> , 2020, 10, 952.	2.3	26
31	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
32	Capability of martensitic low transformation temperature welding consumables for increasing the fatigue strength of high strength steel joints. <i>Materialprüfung/Materials Testing</i> , 2020, 62, 891-900.	2.2	3
33	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
34	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
35	Advanced analytics of elastic adhesive bonds by means of in situ computed tomography. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 2020, 234, 465-476.	2.5	1
36	Experimental analysis of zero-gap laser welding of zinccoated steels in a lap joint configuration. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2020, 234, 658-664.	1.1	0

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37	Deformation measurement within adhesive bonds of aluminium and CFRP using advanced fibre optic sensors. <i>Manufacturing Review</i> , 2020, 7, 14.	1.5	2
38	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
39	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
40	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
41	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
42	Laservorbehandlung zur Haftungsverbesserung bei Metall-Faserverbund-Hybridstrukturen. <i>Zukunftstechnologien Für Den Multifunktionalen Leichtbau</i> , 2020, , 121-129.	0.1	0
43	Investigations on the impact and fracture toughness of beam welded structural steels with yield strengths from 355 to 960MPa. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2019, 63, 87-95.	2.5	2
44	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
45	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
46	Fatigue Strength Enhancement of Butt Welds by Means of Shot Peening and Clean Blasting. <i>Metals</i> , 2019, 9, 744.	2.3	25
47	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
48	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
49	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
50	Influence of Restraint Conditions on Welding Residual Stresses in H-Type Cracking Test Specimens. <i>Materials</i> , 2019, 12, 2700.	2.9	16
51	Combined deep drawing and fusion bonding of structural FRP-metal hybrid parts. <i>Procedia Manufacturing</i> , 2019, 29, 296-304.	1.9	8
52	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
53	Extracting a characteristic value concerning metal-composite-hybrids – identification of the relevant testing method. <i>Journal of Adhesion</i> , 2019, 95, 558-576.	3.0	1
54	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

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55	Wire and Arc Additive Manufacturing of Aluminum Components. <i>Metals</i> , 2019, 9, 608.	2.3	90
56	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
57	Bonding performance after aging of fusion bonded hybrid joints. <i>International Journal of Adhesion and Adhesives</i> , 2019, 93, 102331.	2.9	6
58	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
59	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
60	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
61	High-tensile joints of continuously fusion bonded hybrid structures. <i>Composite Structures</i> , 2018, 202, 111-118.	5.8	2
62	Optical absorption and redox kinetics of YBa ₂ Cu ₃ O _{7-δ} thin films studied by optical in-situ spectroscopy. <i>Solid State Ionics</i> , 2018, 315, 98-101.	2.7	2
63	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
64	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
65	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
66	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
67	Laser transmission joining of thermoplastic fasteners: Application for thermoset CFRP. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2018, , 146442071880457.	1.1	2
68	Injection bonding of structural components with fast-curing two-component PUR-systems. <i>Applied Adhesion Science</i> , 2018, 6, .	1.5	2
69	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
70	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
71	On the effect of weld defects on the fatigue strength of beam welded butt joints. <i>Procedia Structural Integrity</i> , 2018, 13, 2053-2058.	0.8	1
72	Modeling of adhesive layers with temperature-dependent cohesive zone elements for predicting adhesive failure during the drying process of cathodic dip painting. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2018, , 146442071880600.	1.1	2

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73	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
74	Investigation of hybrid fusion bonds under varying manufacturing and operating procedures. <i>Composite Structures</i> , 2018, 202, 275-282.	5.8	9
75	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
76	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
77	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
78	Processing of Advanced Battery Materialsâ€”Laser Cutting of Pure Lithium Metal Foils. <i>Batteries</i> , 2018, 4, 37.	4.5	13
79	Automotive Industry. , 2018, , 1333-1366.		1
80	Residual Stressâ€”Based Fatigue Design of Welded Structures. <i>Materials Performance and Characterization</i> , 2018, 7, 630-642.	0.3	3
81	Vorbehandlung von Kunststoffen. , 2018, , 45-121.		1
82	Bauteilverbindungen. , 2018, , 430-484.		0
83	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
84	Adhesive Bonding and Sealing of Additional Equipment on Foundations of Large-Scale Offshore Wind-Energy Turbines Withstanding Pile-Driving Operations. , 2018, , 122-148.		0
85	Untersuchungen zur verlÃsslichen Messung der HÃrte nach dem UCI â€” Verfahren (Ultrasonic Contact) Tj ETQq1 1,0.784314 rgBT /C	2.2	1
86	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
87	A numerical illustration of the fusion bonding process. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2017, 231, 224-236.	1.1	0
88	Adhesive Bonding in Steel Construction - Challenge and Innovation. <i>Procedia Engineering</i> , 2017, 172, 186-193.	1.2	12
89	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
90	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

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91	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
92	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
93	Three-beam laser brazing of zinc-coated steel. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 90, 317-328.	3.0	21
94	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
95	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
96	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
97	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
98	Laser cutting of pure lithium metal anodes - Effects of atmospheric conditions. , 2017, , .		1
99	A qualitative, process-parameter-based model for the release agent transfer during CFRP-part production: an approach to increase the initial bondability. <i>Applied Adhesion Science</i> , 2017, 5, .	1.5	0
100	The Production-Related Influence of Iron Oxides on Steel Surfaces on the Adhesion of Fusion-Bonded Hybrid Structures. <i>Advanced Structured Materials</i> , 2017, , 363-376.	0.5	1
101	Fracture Toughness of Electron Beam Welded Fine Grain Steels. <i>Procedia Structural Integrity</i> , 2016, 2, 3523-3530.	0.8	3
102	Study on the near-surface residual stress state in butt-welded pipes of austenitic steel using X-ray diffraction. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2016, 60, 1169-1179.	2.5	1
103	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
104	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
105	CFRP bonding pre-treatment with laser radiation of 3 ¼m wavelength: laser/material interaction. , 2016, , .		1
106	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
107	Surface treatment with small laser spots: an approach for the comparison of process parameters. <i>Proceedings of SPIE</i> , 2016, , .	0.8	2
108	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

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109	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
110	Adhesively Bonded Blanks for Local Reinforcements in Body-in-White Manufacturing. <i>Journal of Adhesion</i> , 2016, 92, 698-721.	3.0	0
111	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
112	Adhesive bonding of measurement equipment on impact-driven offshore monopile foundations. <i>Applied Adhesion Science</i> , 2015, 3, .	1.5	0
113	High-speed Mass Flow Measurement in Highly Viscous Adhesives by Constant Temperature Anemometry. <i>Journal of the Adhesion Society of Japan</i> , 2015, 51, 269-273.	0.0	0
114	Structural Electrically Conductive Adhesives. <i>Journal of the Adhesion Society of Japan</i> , 2015, 51, 274-278.	0.0	2
115	Experimental Investigation of Fatigue Crack Propagation in Residual Stress Fields. <i>Procedia Engineering</i> , 2015, 133, 244-254.	1.2	7
116	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
117	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
118	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
119	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
120	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
121	Simplified construction of fuel cells. <i>Adhesion Adhesives and Sealants</i> , 2015, 12, 30-35.	0.1	2
122	Adhesive bonding techniques for advanced high-strength steels (AHSS). , 2015, , 167-179.		2
123	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
124	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
125	Adhesive Method for Rapidly Bonded Wood Panel Joints of Prefab House Construction Joints. , 2015, , 265-296.		2
126	Possibilities of improving weld seam quality in laser welding of aluminum die cast. , 2014, , .		1

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127	Thermische Massenstrommessung von hochviskosen, nichtnewtonschen Polymeren. Chemie-Ingenieur-Technik, 2014, 86, 1241-1248.	0.8	1
128	Form-Flexible Handling and Joining Technology (FormHand) for the Forming and Assembly of Limp Materials. Procedia CIRP, 2014, 23, 206-211.	1.9	10
129	Kinetic analysis for the determination of cure-dependent mechanical properties of adhesives. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2014, 228, 92-99.	1.1	4
130	Load induced inhomogeneous plastic deformations in welded aluminium joints. Welding in the World, Le Soudage Dans Le Monde, 2014, 58, 529-538.	2.5	3
131	Adhesive Bonding of Attachments on Alternate Car Shell Surfaces in Automotive Final Assembly Lines. Procedia CIRP, 2014, 18, 180-185.	1.9	4
132	Residual Stresses in Large Scale Structures Welded at Low Ambient Temperatures. Advanced Materials Research, 2014, 996, 814-819.	0.3	0
133	An elegant solution for stress cracks. Adhesion Adhesives and Sealants, 2014, 11, 10-15.	0.1	0
134	Comparison of mechanical properties. Adhesion Adhesives and Sealants, 2014, 11, 26-30.	0.1	0
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	Untersuchung des inhomogenen plastischen Verformungszustands geschweiÄyter Aluminiumlegierungen unter Verwendung von Beugungsmethoden. HTM - Journal of Heat Treatment and Materials, 2014, 69, 24-31.	0.2	0
137	Gluing instead of stapling or nailing. Adhesion Adhesives and Sealants, 2013, 10, 30-33.	0.1	1
138	Clean and reliable. Adhesion Adhesives and Sealants, 2013, 10, 34-39.	0.1	3
139	Analytical Characterization of CFRP Laser Treated by Excimer Laser Radiation. Physics Procedia, 2013, 41, 282-290.	1.2	47
140	Process characteristics of laser beam welding at reduced ambient pressure. , 2013, , .		10
141	Effects of Residual Stresses on the Fatigue Performance of Welded Steels with Longitudinal Stiffeners. Materials Science Forum, 2013, 768-769, 636-643.	0.3	2
142	Adhesive bonding of textiles: applications. , 2013, , 275-308.		5
143	Laser Surface Pre-Treatment of CFRP for Adhesive Bonding in Consideration of the Absorption Behaviour. Journal of Adhesion, 2012, 88, 350-363.	3.0	108
144	Fast Curing of Adhesives in the Field of CFRP. Journal of Adhesion, 2012, 88, 406-417.	3.0	18

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145	Relaxation of welding residual stresses – Part I: under quasi-static loading. International Journal of Microstructure and Materials Properties, 2012, 7, 3.	0.1	5
146	Relaxation of welding residual stresses – Part II: under cyclic loading. International Journal of Microstructure and Materials Properties, 2012, 7, 16.	0.1	2
147	Surface Structuring of CFRP by using Modern Excimer Laser Sources. Physics Procedia, 2012, 39, 154-160.	1.2	52
148	Residual Stress Calculations And Measurements – Review And Assessment Of The Iiiv Round Robin Results. Welding in the World, Le Soudage Dans Le Monde, 2012, 56, 120-140.	2.5	25
149	Induction-Excited Thermography – a Method to Visualize Defects in Semi-Structural Adhesive Bonds of Car Body Structures. Welding in the World, Le Soudage Dans Le Monde, 2012, 56, 126-132.	2.5	6
150	Withstanding frequent steam sterilisation: Innovative technique to bond glass and stainless steel composites in biotechnology and endoscopic medicine. International Journal of Adhesion and Adhesives, 2012, 33, 15-25.	2.9	3
151	Investigations on different fatigue design concepts using the example of a welded crossbeam connection from the underframe of a steel railcar body. International Journal of Fatigue, 2012, 34, 47-56.	5.7	17
152	Fatigue assessment of arc welded automotive components using local stress approaches: Application to a track control arm. International Journal of Fatigue, 2012, 34, 57-64.	5.7	13
153	Active Thermography for Quality Assurance of joints in automobile manufacturing. Welding in the World, Le Soudage Dans Le Monde, 2011, 55, 90-97.	2.5	8
154	Wirtschaftliche Herstellung modularer Rahmenstrukturen. Adhaesion Kleben Und Dichten, 2011, 55, 42-47.	0.0	1
155	Influence of ambient pressure on spattering and weld seam quality in laser beam welding with the solid-state laser. , 2011, , .		20
156	Welding simulation of complex structures – possibilities and limits. Frontiers of Materials Science, 2011, 5, 196-202.	2.2	0
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