

Kari MÃ¤ntyjÃ¤rvi

List of Publications by Year in descending order

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56
papers

285
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1307594

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1125743

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56
all docs

56
docs citations

56
times ranked

203
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Laser welding of duplex stainless steel with nitrogen as shielding gas. Journal of Materials Processing Technology, 2015, 216, 381-384. | 6.3 | 61 |
| 2 | Laser welding of AlSi10Mg aluminium-based alloy produced by Selective Laser Melting (SLM). Procedia Manufacturing, 2019, 36, 88-94. | 1.9 | 25 |
| 3 | Effect of High Porosity on Bending Fatigue Properties of 3D Printed AISI 316L Steel. Procedia Manufacturing, 2019, 36, 33-41. | 1.9 | 16 |
| 4 | Laser-Assisted Bending. Key Engineering Materials, 2007, 344, 235-241. | 0.4 | 12 |
| 5 | Bendability of Ultra-High-Strength Steel. Key Engineering Materials, 2009, 410-411, 611-620. | 0.4 | 11 |
| 6 | Tensile and fatigue properties of laser-welded ultra-high-strength stainless spring steel lap joints. Procedia Manufacturing, 2019, 36, 131-137. | 1.9 | 11 |
| 7 | Effect of Convex Sheared Punch Geometry on Cutting Force of Ultra-High-Strength Steel. Key Engineering Materials, 0, 504-506, 1359-1364. | 0.4 | 10 |
| 8 | UHS Steel Formability in Flexible Roll Forming. Key Engineering Materials, 2009, 410-411, 661-668. | 0.4 | 9 |
| 9 | Cutting method influence on the fatigue resistance of ultra-high-strength steel. International Journal of Material Forming, 2009, 2, 547-550. | 2.0 | 9 |
| 10 | Identifying residual stresses in laser welds by fatigue crack growth acceleration measurement. Journal of Laser Applications, 2015, 27, . | 1.7 | 9 |
| 11 | Design for Additive Manufacturing in Extended DFMA Process. Key Engineering Materials, 0, 786, 342-347. | 0.4 | 9 |
| 12 | Grid patterns by laser for forming strain analysis. International Journal of Material Forming, 2008, 1, 249-252. | 2.0 | 8 |
| 13 | Punching Force Reduction with Wave-Formed Tools. Key Engineering Materials, 2007, 344, 209-216. | 0.4 | 7 |
| 14 | Mechanical Properties of a Metal Sandwich Panel Manufactured Using Longitudinally Laminated Forming Tools. Key Engineering Materials, 0, 611-612, 781-785. | 0.4 | 7 |
| 15 | Microstructure and mechanical properties of laser-welded high-strength AISI 301LN steel in reversion-treated and temper-rolled conditions. Procedia Manufacturing, 2019, 36, 216-223. | 1.9 | 7 |
| 16 | Passive Laser Assisted Bending of Ultra-High Strength Steels. Advanced Materials Research, 0, 418-420, 1542-1547. | 0.3 | 5 |
| 17 | Mechanical Properties of Laser Heat Treated 6 mm Thick UHSS-Steel. , 2011, , . | | 5 |
| 18 | Cutting Edge and its Influence on the Fatigue Life of High Strength CrMn-Austenitic Stainless Steel. Key Engineering Materials, 0, 554-557, 1967-1975. | 0.4 | 5 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Exploitation of forming of the 3D printed materials. AIP Conference Proceedings, 2019, , . | 0.4 | 5 |
| 20 | Disk Laser Assisted Surface Heat Treatments Of AlSi10Mg Parts Produced By Selective Laser Melting (SLM). Procedia Manufacturing, 2019, 36, 95-100. | 1.9 | 5 |
| 21 | FEM - Modeling of Bendability of Ultra-High Strength Steel. Key Engineering Materials, 2013, 549, 333-339. | 0.4 | 4 |
| 22 | Designing and Manufacturing of a Flexible Longitudinally Laminated Sandwich Panel Forming Tool. Key Engineering Materials, 2014, 611-612, 786-793. | 0.4 | 4 |
| 23 | A Novel Heat Treatment Line for Processing of Tailored Small Batch Steels. Key Engineering Materials, 2014, 611-612, 804-810. | 0.4 | 3 |
| 24 | Forming and formability of 3D printed thermoplastics. , 2019, , . | | 3 |
| 25 | Yb:YAG Disc Laser Welding of Austenitic Stainless Steel Without Filler Material. Key Engineering Materials, 0, 410-411, 87-96. | 0.4 | 2 |
| 26 | The Low-Cycle Fatigue Strength of Laser-Welded Ultra-High-Strength Steel. Key Engineering Materials, 2011, 473, 281-289. | 0.4 | 2 |
| 27 | Incremental Bending of Ultra-High-Strength Steels. Key Engineering Materials, 2011, 473, 53-60. | 0.4 | 2 |
| 28 | Influence of Predetermined Surface Defect to the Bendability of Ultra-High-Strength Steel. Key Engineering Materials, 0, 504-506, 901-906. | 0.4 | 2 |
| 29 | Quality Assurance of Laser Welded Axisymmetric Sandwich Structure. Key Engineering Materials, 2013, 549, 529-534. | 0.4 | 2 |
| 30 | The Influence of the Shielding Gas to the Static and Dynamic Strength Properties of Laser Welded Workhardened Nitrogen Alloyed Austenitic Stainless Steel. Key Engineering Materials, 0, 549, 471-476. | 0.4 | 2 |
| 31 | Rapid Manufacturing of Shaped Die and Draw Punch Tools for Presses. Key Engineering Materials, 0, 554-557, 1814-1818. | 0.4 | 2 |
| 32 | Mechanical Properties of a "Simple Panel Structure" Manufactured of an Ultra High Strength Stainless Steel. Key Engineering Materials, 0, 786, 319-324. | 0.4 | 2 |
| 33 | Design Process of Durable and Lightweight Rally Car Frame from Ultra-High Strength Stainless Steel. Key Engineering Materials, 0, 786, 325-332. | 0.4 | 2 |
| 34 | Comparison of the formability of austenitic reversion-treated and temper-rolled 17Cr-7Ni steels. AIP Conference Proceedings, 2019, , . | 0.4 | 2 |
| 35 | The effect of processing parameters on formability of 3D printed AISI 316L. AIP Conference Proceedings, 2019, , . | 0.4 | 2 |
| 36 | The normal and shear strength properties of laser lap weld. Procedia Manufacturing, 2019, 36, 224-231. | 1.9 | 2 |

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|----|---|-----|-----------|
| 37 | Laser-Assisted Bending. Key Engineering Materials, 0, , 235-241. | 0.4 | 2 |
| 38 | DFAM Based Multi-Material 3D Printing Using Conductive and Flexible Filaments. Key Engineering Materials, 0, 786, 364-370. | 0.4 | 2 |
| 39 | Laser Assisted Cutting of Abrasion Resistant Steel. Key Engineering Materials, 2012, 504-506, 1371-1376. | 0.4 | 1 |
| 40 | The Influence of Shielding Gas Configurations on Formability of the Ferritic Stainless Steel Laser Weld. Physics Procedia, 2017, 89, 80-88. | 1.2 | 1 |
| 41 | The Influence of Shielding Gas on Strength of the Laser Welded Thin Sheet Lap Welds. Key Engineering Materials, 2018, 786, 98-103. | 0.4 | 1 |
| 42 | Bending Strength of Laser-Welded Sandwich Steel Panels of Ultra-High Strength Steel. Key Engineering Materials, 0, 786, 286-292. | 0.4 | 1 |
| 43 | Formability of selective laser melted AlSi10Mg. AIP Conference Proceedings, 2019, , . | 0.4 | 1 |
| 44 | Punching Force Reduction with Wave-Formed Tools. Key Engineering Materials, 0, , 209-216. | 0.4 | 1 |
| 45 | Iterative Weight Reduction Process. Journal of Ship Production and Design, 2018, 34, 329-334. | 0.4 | 1 |
| 46 | Methods for Determination of Residual Stress of a Formed Plate Using Laser Ablation, Wire EDM and Milling. Key Engineering Materials, 2011, 473, 368-375. | 0.4 | 0 |
| 47 | The Effects of Notch Manufacturing Method and Tolerance on Impact Test Results of UHS Steels. Key Engineering Materials, 2011, 473, 412-419. | 0.4 | 0 |
| 48 | Small Batch Laser Welding Using Light Fasteners and Laser Tack Welding. Key Engineering Materials, 2011, 473, 267-272. | 0.4 | 0 |
| 49 | Optimization of Local Laser Heat Treatment Process Using a Simple FE-Model. Materials Science Forum, 0, 762, 360-367. | 0.3 | 0 |
| 50 | State of the Art: Prototyping of the Roll Bending Machine. Key Engineering Materials, 0, 549, 76-83. | 0.4 | 0 |
| 51 | Measuring the influence of laser welding on fatigue crack propagation in high strength steel. , 2013, , . | | 0 |
| 52 | A Short Glance on Metal 3D AM. Key Engineering Materials, 0, 786, 348-355. | 0.4 | 0 |
| 53 | Buckling Tests for Laser-Welded Single Corrugated Core. Key Engineering Materials, 2018, 786, 269-275. | 0.4 | 0 |
| 54 | In Implementing a Metal 3D AM Machine. Key Engineering Materials, 0, 786, 356-363. | 0.4 | 0 |

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|----|---|-----|-----------|
| 55 | The geometrical fine adjustment of circular honeycomb structure using laser welding. AIP Conference Proceedings, 2019, , . | 0.4 | 0 |
| 56 | Mechanical testing of friction drilled and form tapped bolt joints for abrasion resistant steel applications. AIP Conference Proceedings, 2019, , . | 0.4 | 0 |