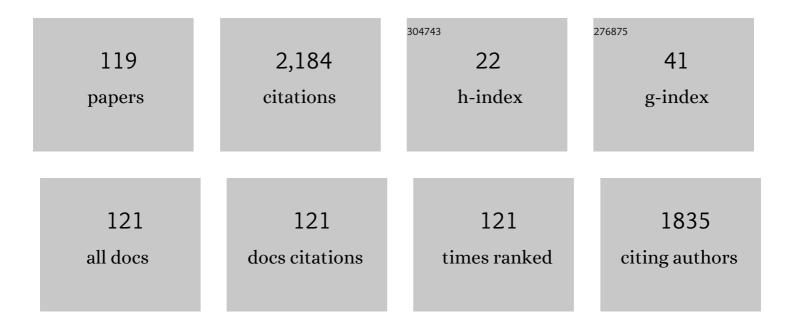
Torgeir Welo

List of Publications by Year in descending order

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TORCEIR WEIO

#	Article	IF	CITATIONS
1	The concept of sustainable manufacturing and its definitions: A content-analysis based literature review. Journal of Cleaner Production, 2017, 166, 744-755.	9.3	209
2	Analytical modelling of residual stress in additive manufacturing. Fatigue and Fracture of Engineering Materials and Structures, 2017, 40, 971-978.	3.4	124
3	A Holistic approach to corporate sustainability assessment: Incorporating sustainable development goals into sustainable manufacturing performance evaluation. Journal of Manufacturing Systems, 2019, 50, 53-68.	13.9	117
4	Fatigue of additively manufactured 316L stainless steel: The influence of porosity and surface roughness. Fatigue and Fracture of Engineering Materials and Structures, 2019, 42, 2043-2052.	3.4	114
5	Additive manufacturing of fine-grained and dislocation-populated CrMnFeCoNi high entropy alloy by laser engineered net shaping. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 761, 138056.	5.6	94
6	Environmental assessment of solid state recycling routes for aluminium alloys: Can solid state processes significantly reduce the environmental impact of aluminium recycling?. CIRP Annals - Manufacturing Technology, 2015, 64, 37-40.	3.6	90
7	The effects of voids on structural properties of fused deposition modelled parts: a probabilistic approach. International Journal of Advanced Manufacturing Technology, 2018, 97, 3607-3618.	3.0	82
8	EMS and sustainability: experiences with ISO 14001 and Eco-Lighthouse in Norwegian metal processing SMEs. Journal of Cleaner Production, 2014, 64, 194-204.	9.3	62
9	Conceptualizing resilience in engineering systems: An analysis of the literature. Systems Engineering, 2020, 23, 3-13.	2.7	62
10	Application of numerical simulation in the bending of aluminium-alloy profiles. Journal of Materials Processing Technology, 1996, 58, 274-285.	6.3	56
11	Cross-sectional deformations of rectangular hollow sections in bending: Part II — analytical models. International Journal of Mechanical Sciences, 2001, 43, 131-152.	6.7	56
12	Analytical springback assessment in flexible stretch bending of complex shapes. International Journal of Machine Tools and Manufacture, 2021, 160, 103653.	13.4	49
13	Multiple instability-constrained tube bending limits. Journal of Materials Processing Technology, 2014, 214, 445-455.	6.3	48
14	On the Applicability of Sustainability Assessment Tools in Manufacturing. Procedia CIRP, 2015, 29, 621-626.	1.9	42
15	Cross-sectional deformations of rectangular hollow sections in bending: Part I — experiments. International Journal of Mechanical Sciences, 2001, 43, 109-129.	6.7	40
16	On the application of lean principles in Product Development: a commentary on models and practices. International Journal of Product Development, 2011, 13, 316.	0.2	38
17	A design method for prediction of dimensions of rectangular hollow sections formed in stretch bending. Journal of Materials Processing Technology, 2002, 128, 48-66.	6.3	32
18	Development of Manufacturing Sustainability Assessment Using Systems Thinking. Sustainability, 2016, 8, 5.	3.2	31

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19	Exploring the hybrid metal extrusion and bonding process for butt welding of Al–Mg–Si alloys. International Journal of Advanced Manufacturing Technology, 2018, 98, 1059-1065.	3.0	30
20	Prototyping in New Product Development: Strategy Considerations. Procedia CIRP, 2016, 50, 117-122.	1.9	28
21	The behaviour of thin-walled, aluminium alloy profiles in rotary draw bending—A comparison between numerical and experimental results. Journal of Materials Processing Technology, 1994, 45, 173-180.	6.3	25
22	Using contrast material techniques to determine metal flow in screw extrusion of aluminium. Journal of Materials Processing Technology, 2013, 213, 1007-1018.	6.3	25
23	Prediction of residual stress regeneration in multi-pass milling. International Journal of Advanced Manufacturing Technology, 2016, 83, 1153-1160.	3.0	25
24	Hybrid Metal Extrusion & Bonding (HYB) - a new technology for solid-state additive manufacturing of aluminium components. Procedia Manufacturing, 2018, 26, 782-789.	1.9	24
25	A design method for rectangular hollow sections in bending. Journal of Materials Processing Technology, 2001, 113, 699-704.	6.3	20
26	Maximizing Product Innovation through Adaptive Application of User-Centered Methods for Defining Customer Value. Journal of Technology Management and Innovation, 2011, 6, 172-192.	0.7	20
27	Enhancing Integrative Capabilities through Lean Product and Process Development. Procedia CIRP, 2016, 54, 221-226.	1.9	20
28	Surface Friction of Rapidly Prototyped Wheels from 3D-Printed Thermoplastic Elastomers: An Experimental Study. Procedia CIRP, 2017, 60, 247-252.	1.9	20
29	Managing exploratory projects: A repertoire of approaches and their shared underpinnings. International Journal of Project Management, 2020, 38, 75-84.	5.6	20
30	A new method for assessing anisotropy in fused deposition modeled parts using computed tomography data. International Journal of Advanced Manufacturing Technology, 2019, 105, 47-65.	3.0	19
31	The Role of Early Prototypes in Concept Development: Insights from the Automotive Industry. Procedia CIRP, 2014, 21, 491-496.	1.9	17
32	Precision bending of high-quality components for volume applications. Transactions of Nonferrous Metals Society of China, 2010, 20, 2100-2110.	4.2	15
33	Dimensional accuracy of threads manufactured by fused deposition modeling. Procedia Manufacturing, 2018, 26, 763-773.	1.9	15
34	On the mechanical integrity of AA6082 3D structures deposited by hybrid metal extrusion & bonding additive manufacturing. Journal of Materials Processing Technology, 2020, 282, 116684.	6.3	15
35	The impact of thermo-mechanical processing routes on product quality in integrated aluminium tube bending process. Journal of Manufacturing Processes, 2021, 67, 503-512.	5.9	15
36	Approaching lean product development using system dynamics: investigating front-load effects. Advances in Manufacturing, 2014, 2, 130-140.	6.1	14

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37	Lean Systems Engineering (LSE): Hands-on Experiences in Applying LSE to a Student Eco-Car Build Project. Procedia Computer Science, 2013, 16, 492-501.	2.0	13
38	Investigating Lean Development Practices in SE Companies: A Comparative Study Between Sectors. Procedia Computer Science, 2015, 44, 234-243.	2.0	13
39	Leveraging prototypes to generate value in the concept-to-production process: a qualitative study of the automotive industry. International Journal of Production Research, 2016, 54, 3006-3018.	7.5	13
40	Beyond Waste Elimination: Assessing Lean Practices in Product Development. Procedia CIRP, 2016, 50, 179-185.	1.9	13
41	An overview and evaluation of alternative forming processes for complex aluminium products. Procedia Manufacturing, 2020, 48, 82-89.	1.9	13
42	Fatigue Strength Assessment of Steel Rollers: On the Reliability of the Strain Energy Density Approach on Real Components. Applied Sciences (Switzerland), 2018, 8, 1015.	2.5	12
43	Flexible 3D stretch bending of aluminium alloy profiles: an experimental and numerical study. Procedia Manufacturing, 2020, 50, 37-44.	1.9	12
44	On the evaluation of dimensional accuracy in rotary stretch bending. International Journal of Material Forming, 2009, 2, 849-852.	2.0	11
45	Bridging the Gap between High and Low-volume Production through Enhancement of Integrative Capabilities. Procedia Manufacturing, 2016, 5, 26-40.	1.9	11
46	Testing and Verification of a New Corporate Sustainability Assessment Method for Manufacturing: A Multiple Case Research Study. Sustainability, 2018, 10, 4121.	3.2	11
47	First demonstration of a new additive manufacturing process based on metal extrusion and solid-state bonding. International Journal of Advanced Manufacturing Technology, 2019, 105, 2523-2530.	3.0	11
48	In-line Springback Measurement for Tube Bending Using a Laser System. Procedia Manufacturing, 2020, 47, 766-773.	1.9	11
49	Protobooth: gathering and analyzing data on prototyping in early-stage engineering design projects by digitally capturing physical prototypes. Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM, 2021, 35, 65-80.	1.1	11
50	A new testing machine to determine the behaviour of aluminium granulate under combined pressure and shear. International Journal of Material Forming, 2013, 6, 199-208.	2.0	10
51	FROM LEAN PRODUCT DEVELOPMENT TO LEAN INNOVATION: SEARCHING FOR A MORE VALID APPROACH FOR PROMOTING UTILITARIAN AND EMOTIONAL VALUE. International Journal of Innovation and Technology Management, 2014, 11, 1450008.	1.4	10
52	Improving Friction Drilling and Joining through Controlled Material Flow. Procedia Manufacturing, 2018, 26, 663-670.	1.9	10
53	Assessment of the Mechanical Integrity of a 2 mm AA6060-T6 Butt Weld Produced Using the Hybrid Metal Extrusion & Bonding (HYB) Process – Part II: Tensile Test Results. Procedia Structural Integrity, 2019, 17, 632-642.	0.8	10
54	Local strain energy density to assess the multiaxial fatigue strength of titanium alloys. Frattura Ed Integrita Strutturale, 2016, 10, 69-79.	0.9	10

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55	A new adaptive bending method using closed loop feedback control. Transactions of Nonferrous Metals Society of China, 2010, 20, 2111-2117.	4.2	9
56	ENHANCING PRODUCT INNOVATION THROUGH A CUSTOMER-CENTERED, LEAN FRAMEWORK. International Journal of Innovation and Technology Management, 2012, 09, 1250041.	1.4	9
57	Microstructure Texture Prediction in Machining Processes. Procedia CIRP, 2016, 46, 595-598.	1.9	9
58	Finite element modelling of the filler wire feeding in the hybrid metal extrusion & bonding (HYB) process. Journal of Advanced Joining Processes, 2020, 1, 100006.	2.7	9
59	Product portfolio map: a visual tool for supporting product variant discovery and structuring. Advances in Manufacturing, 2014, 2, 179-191.	6.1	8
60	Knowledge based development practices in systems engineering companies: A comparative study. , 2015, , ,		8
61	Prototype Experiments: Strategies and Trade-offs. Procedia CIRP, 2017, 60, 554-559.	1.9	8
62	Assessment of the Mechanical Integrity of a 2 mm AA6060-T6 Butt Weld Produced Using the Hybrid Metal Extrusion & Bonding (HYB) Process – Part I: Bend Test Results. Procedia Manufacturing, 2019, 34, 147-153.	1.9	8
63	Fatigue properties of AA6060â€T6 butt welds made by hybrid metal extrusion & bonding. Fatigue and Fracture of Engineering Materials and Structures, 2020, 43, 2349-2358.	3.4	8
64	Comparison of two commercial FEM codes in cold extrusion simulation. Journal of Materials Processing Technology, 1994, 42, 137-146.	6.3	7
65	Local flange buckling and its relation to elastic springback in forming of aluminium extrusions. Journal of Materials Processing Technology, 1996, 60, 149-154.	6.3	7
66	A new testing machine to determine the behaviour of aluminium granulate under combined pressure and shear. International Journal of Material Forming, 2010, 3, 861-864.	2.0	7
67	Using prototypes to leverage knowledge in product development: Examples from the automotive industry. , 2016, , .		7
68	Resilience in Product Design and Development Processes: A Risk Management Viewpoint. Procedia CIRP, 2019, 84, 412-418.	1.9	7
69	On the fatigue properties of a third generation aluminium-steel butt weld made by Hybrid Metal Extrusion & Bonding (HYB). International Journal of Fatigue, 2022, 155, 106586.	5.7	7
70	Need Finding for the Development of a Conceptional, Engineering- Driven Framework for Improved Product Documentation. Procedia Computer Science, 2013, 16, 423-432.	2.0	6
71	Effortless capture of design output a prerequisite for building a design repository with quantified design output. , 2017, , .		6
72	The product development learning process and its relation to performance indicators. Procedia Manufacturing, 2018, 26, 107-116.	1.9	6

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73	Efforts on Capturing Prototyping and Design Activity in Engineering Design Research. Procedia CIRP, 2019, 84, 566-571.	1.9	6
74	Exploring the Influence of Pre/Post-Aging on Springback in Al-Mg-Si Alloy Tube Bending. Procedia Manufacturing, 2020, 47, 774-780.	1.9	6
75	Wrong, but not failed? A study of unexpected events and project performance in 21 engineering projects. International Journal of Managing Projects in Business, 2021, 14, 1290-1313.	2.5	6
76	Investigating the Use of Set-Based Concurrent Engineering in Product Manufacturing Companies. Procedia CIRP, 2019, 84, 43-48.	1.9	5
77	Using set-based design for developing a 3D metal forming process. Procedia CIRP, 2019, 84, 149-154.	1.9	5
78	Planning unplanned design iterations using risk management and learning strategies. Journal of Engineering Design, 2022, 33, 120-143.	2.3	5
79	A strategy for on-machine springback measurement in rotary draw bending using digital image-based laser tracking. International Journal of Advanced Manufacturing Technology, 2022, 119, 705-718.	3.0	5
80	Adaptive Bending of Aluminium Extrusions Using an Automated Closed-Loop Feedback Approach. International Journal of Material Forming, 2008, 1, 197-200.	2.0	4
81	System of systems thinking in product development: A system dynamic approach. , 2012, , .		4
82	Analysis of residual stress-induced distortions of thin sheet structures in multi-step milling. AIP Conference Proceedings, 2016, , .	0.4	4
83	Learning in Product Development: Proposed Industry Experiment Using Reflective Prototyping. Procedia CIRP, 2016, 50, 454-459.	1.9	4
84	Knowledge management of university-industry collaboration in the learning economy. , 2017, , .		4
85	The Cost of Learning from Failures and Mistakes in Product Design: Reviewing the Literature. Proceedings of the Design Society International Conference on Engineering Design, 2019, 1, 1653-1662.	0.6	4
86	Rapid prototyping and physical modelling in the development of a new additive manufacturing process for aluminium alloys. Procedia Manufacturing, 2019, 34, 489-496.	1.9	4
87	A new mechanical calibration strategy for U-channel extrusions. International Journal of Advanced Manufacturing Technology, 2020, 110, 241-253.	3.0	4
88	Multiaxial fatigue strength of titanium alloys. Frattura Ed Integrita Strutturale, 2017, 11, 79-89.	0.9	4
89	Cold forging and grain size control in an Al-1.2wt%Si alloy. Journal of Materials Processing Technology, 1992, 34, 533-539.	6.3	3
90	A New Method for Reducing Dimensional Variability of Extruded Hollow Sections. AIP Conference Proceedings, 2007, , .	0.4	3

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91	Design for Automated Assembly of Large and Complex Products: Experiences from a Marine Company Operating in Norway. Procedia Computer Science, 2015, 44, 254-265.	2.0	3
92	Learning and Knowledge Systems in Product Development Environments. Procedia CIRP, 2016, 57, 49-54.	1.9	3
93	On the use of product portfolio and variant maps as visualization tools to support platform-based development strategies. Concurrent Engineering Research and Applications, 2016, 24, 211-226.	3.2	3
94	A framework for integrating reliability and systems engineering: proofâ€ofâ€oncept experiences. Incose International Symposium, 2016, 26, 1059-1073.	0.6	3
95	Evaluation of undesirable deformations in complex, hollow aluminium extrusions due to roll bending. AIP Conference Proceedings, 2016, , .	0.4	3
96	A heuristic approach for early-stage product development in extreme environments. , 2017, , .		3
97	Investigating Organizational Knowledge Transformation Capabilities in Integrated Manufacturing and Product Development Companies. Procedia CIRP, 2018, 70, 150-155.	1.9	3
98	Investigating the Mechanics of Hybrid Metal Extrusion and Bonding Additive Manufacturing by FEA. Metals, 2019, 9, 811.	2.3	3
99	A feasibility study of continuous grain refinement of sheet metal. Procedia Manufacturing, 2020, 48, 379-387.	1.9	3
100	Deformation Characteristics in a Stretch-Based Dimensional Correction Method for Open, Thin-Walled Extrusions. Metals, 2021, 11, 1786.	2.3	3
101	Bridging the â€~Valley of Death': Can Agile Principles Be Applied in Industry-Academia Research and Innovation Projects?. Journal of the Knowledge Economy, 2022, 13, 3172-3194.	4.4	3
102	Prototyping to Leverage Learning in Product Manufacturing Environments. Procedia CIRP, 2016, 54, 233-238.	1.9	2
103	Design of a Modular Extrusion-based Aluminum Monorail System for Highly Accurate Car Positioning. Procedia CIRP, 2017, 60, 8-13.	1.9	2
104	Applicability of lean product development to a company in the marine sector. , 2017, , .		2
105	An experimental study on interference friction welding process. Procedia Manufacturing, 2019, 41, 1149-1155.	1.9	2
106	Using Lean to Transform the Product Development Process in a Marine Company: A Case Study. Procedia CIRP, 2022, 109, 623-628.	1.9	2
107	Springback Control in Industrial Bending Operations: Assessing the Accuracy of Three Commercial FEA Codes. AIP Conference Proceedings, 2011, , .	0.4	1
108	Stabilizing New-product Development Processes – A Prerequisite or a Barrier to Satisfy Customer Wants and Needs?. Procedia CIRP, 2014, 21, 206-211.	1.9	1

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109	Considering BPR and CE for faster product delivery: a case study in manufacturing firms. International Journal of Productivity and Quality Management, 2014, 13, 349.	0.2	1
110	Newness and Outcomes in Commodity-Driven New-Product Development Projects: A Survey in the Norwegian Manufacturing Industry. Procedia CIRP, 2019, 84, 749-754.	1.9	1
111	INFLUENCE OF INNOVATION, COMPLEXITY AND NEWNESS ON SUCCESS IN NEW PRODUCT DEVELOPMENT PROJECTS: A SURVEY IN NORWEGIAN MANUFACTURING INDUSTRY. Proceedings of the Design Society DESIGN Conference, 2020, 1, 511-520.	0.8	1
112	Parameters Controlling Dimensional Accuracy of Aluminum Extrusions Formed in Stretch Bending. AIP Conference Proceedings, 2007, , .	0.4	0
113	A new method for 3D forming of extrusion-based sheets for light-weight hull applications. International Journal of Material Forming, 2010, 3, 841-844.	2.0	Ο
114	On Knowledge-based Development: How Documentation Practice Represents a Strategy for Closing Tolerance Engineering Loops. Procedia CIRP, 2014, 21, 318-323.	1.9	0
115	FE simulation of soft wing impactor for aviation mast frangibility testing – sensitivity to model assumptions. International Journal of Crashworthiness, 2016, 21, 435-451.	1.9	0
116	Modelling and fatigue assessment of steel rollers with failure occurring at the weld root based on the local strain energy. Procedia Structural Integrity, 2016, 2, 3475-3482.	0.8	0
117	A physics-based approach to relate grinding process parameters to tribological behavior of ground surfaces. International Journal of Advanced Manufacturing Technology, 2017, 91, 4151-4161.	3.0	Ο
118	Influence of deformation prior to ageing on fatigue behavior of extruded AA6082-T6 profiles. International Journal of Fatigue, 2022, 162, 106990.	5.7	0
119	Rapid Manufacturing of Die-casting Tools - a Case Study. Procedia CIRP, 2022, 107, 1565-1570.	1.9	0