

# Peter Plapper

## List of Publications by Year in descending order

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65  
papers

927  
citations

567144

15  
h-index

526166

27  
g-index

68  
all docs

68  
docs citations

68  
times ranked

585  
citing authors

#	ARTICLE	IF	CITATIONS
1	Agent-based, hybrid control architecture for optimized and flexible production scheduling and control in remanufacturing. <i>Journal of Remanufacturing</i> , 2024, 14, 17-43.	1.6	2
2	Laser welding of copper to aluminum with spiral trajectory and identification of excessive aluminum melting. <i>Journal of Laser Applications</i> , 2022, 34, .	0.8	3
3	Retrofitting of legacy machines in the context of Industrial Internet of Things (IIoT). <i>Procedia Computer Science</i> , 2022, 200, 62-70.	1.2	11
4	Analytical Study on the Low-Frequency Vibrations Isolation System for Vehicle’s Seats Using Quasi-Zero-Stiffness Isolator. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 2418.	1.3	8
5	Using Artificial Intelligence to Facilitate Assembly Automation in High-Mix Low-Volume Production Scenario. <i>Procedia CIRP</i> , 2022, 107, 1029-1034.	1.0	2
6	Adaptive model to increase resilience for emerging supply chains within the circular economy – “Zirkelmesser” an innovative case study. <i>Procedia CIRP</i> , 2022, 107, 788-793.	1.0	0
7	Intrabody Molecular Communication via Blood-Tissue Barrier for Internet of Bio-Nano Things. <i>IEEE Internet of Things Journal</i> , 2022, 9, 21802-21810.	5.5	5
8	Digital Twin for Human-Robot Interactions by Means of Industry 4.0 Enabling Technologies. <i>Sensors</i> , 2022, 22, 4950.	2.1	27
9	Modeling and Control of Layer Height in Laser Wire Additive Manufacturing. <i>Materials</i> , 2022, 15, 4479.	1.3	6
10	Value Stream Mapping (VSM) to Evaluate and Visualize Interrelated Process-Chains Regarding Circular Economy. <i>IFIP Advances in Information and Communication Technology</i> , 2021, , 534-542.	0.5	2
11	Evaluation of the joint based on different surface conditions for aluminum-polyamide laser welding. <i>Journal of Laser Applications</i> , 2021, 33, 012036.	0.8	1
12	Correlation of optical signal during laser fusion welding of copper to aluminum. <i>Journal of Laser Applications</i> , 2021, 33, .	0.8	8
13	An Innovative Strategy Allowing a Holistic System Change towards Circular Economy within Supply-Chains. <i>Energies</i> , 2021, 14, 4375.	1.6	9
14	Failure mechanism analysis based on laser-based surface treatments for aluminum-polyamide laser joining. <i>Journal of Materials Processing Technology</i> , 2021, 298, 117318.	3.1	15
15	Artificial neural network to predict the weld status in laser welding of copper to aluminum. <i>Procedia CIRP</i> , 2021, 103, 61-66.	1.0	6
16	Entropy of complex manufacturing networks as a metric of flexibility. <i>Journal of Industrial Information Integration</i> , 2021, , 100285.	4.3	0
17	Comparing software frameworks of Augmented Reality solutions for manufacturing. <i>Procedia Manufacturing</i> , 2021, 55, 312-318.	1.9	5
18	Binding Mechanisms Between Laser-Welded Polyamide-6.6 and Native Aluminum Oxide. <i>ACS Omega</i> , 2021, 6, 33482-33497.	1.6	8

#	ARTICLE	IF	CITATIONS
19	Human-Robot Interaction using Mixed Reality. , 2021, , .		4
20	Bead Geometry Prediction in Laser-Wire Additive Manufacturing Process Using Machine Learning: Case of Study. Applied Sciences (Switzerland), 2021, 11, 11949.	1.3	20
21	A Survey of Information Entropy Metrics for Complex Networks. Entropy, 2020, 22, 1417.	1.1	33
22	Pre and post-treatments to improve weldability and mechanical properties of aluminum-polyamide laser welded specimens. Procedia CIRP, 2020, 94, 537-541.	1.0	4
23	Laser joining of titanium alloy to polyamide: influence of process parameters on the joint strength and quality. International Journal of Advanced Manufacturing Technology, 2020, 107, 2917-2925.	1.5	14
24	Robotic trajectory tracking: Bio-inspired position and torque control. Procedia CIRP, 2020, 88, 618-623.	1.0	2
25	Creation of an ISO Standard at the Example of Value Stream Management Method. Advances in Standardization Research, 2020, , 1-26.	0.2	1
26	Knowledge Management for Manufacturing SMEs using Industrial IoT. , 2019, , .		1
27	Survey: The Evolution of the Usage of Augmented Reality in Industry 4.0. IOP Conference Series: Materials Science and Engineering, 2019, 521, 012017.	0.3	14
28	Business analytics in manufacturing: Current trends, challenges and pathway to market leadership. Operations Research Perspectives, 2019, 6, 100127.	1.2	18
29	Deriving essential components of lean and industry 4.0 assessment model for manufacturing SMEs. Procedia CIRP, 2019, 81, 753-758.	1.0	50
30	Laser welding of dissimilar copper and aluminum sheets by shaping the laser pulses. Procedia Manufacturing, 2019, 36, 154-162.	1.9	33
31	Maximum Flow of Complex Manufacturing Networks. Procedia CIRP, 2019, 86, 245-250.	1.0	4
32	Influence of Aluminum Laser Ablation on Interfacial Thermal Transfer and Joint Quality of Laser Welded Aluminum-Polyamide Assemblies. Coatings, 2019, 9, 768.	1.2	11
33	Metallographic Studies of Dissimilar Al-Cu Laser-Welded Joints Using Various Etchants. Metallography, Microstructure, and Analysis, 2019, 8, 3-11.	0.5	10
34	Dissimilar Laser Micro-Welding of Nickel Wire to CuSn6 Bronze Terminal. Transactions of the Indian Institute of Metals, 2019, 72, 27-34.	0.7	3
35	Lessons from social network analysis to Industry 4.0. Manufacturing Letters, 2018, 15, 97-100.	1.1	6
36	Composition and phases in laser welded Al-Cu joints by synchrotron x-ray microdiffraction. Procedia CIRP, 2018, 74, 27-32.	1.0	15

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37	Aluminum pretreatment by a laser ablation process: influence of processing parameters on the joint strength of laser welded aluminum " polyamide assemblies. <i>Procedia CIRP</i> , 2018, 74, 495-499.	1.0	17
38	Spectroscopic Studies of Dissimilar Al-Cu Laser Welding. , 2018, , .		7
39	Learning-While Controlling RBF-NN for Robot Dynamics Approximation in Neuro-Inspired Control of Switched Nonlinear Systems. <i>Lecture Notes in Computer Science</i> , 2018, , 717-727.	1.0	0
40	CILAP-Architecture for Simultaneous Position- and Force-Control in Constrained Manufacturing Tasks. , 2018, , .		0
41	Cross-enterprise value stream assessment. <i>Journal of Advances in Management Research</i> , 2017, 14, 182-193.	1.6	5
42	Neuro-inspired reward-based tracking control for robotic manipulators with unknown dynamics. , 2017, , .		2
43	An Intelligent Agent-Controlled and Robot-Based Disassembly Assistant. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 235, 012005.	0.3	7
44	Standardized Value Stream Management Method to Visualize, Analyze and Optimize Cross-Enterprise Value Stream Data. <i>International Journal of Standardization Research</i> , 2017, 15, 25-36.	0.7	2
45	Safe and Automated Assembly Process using Vision Assisted Robot Manipulator. <i>Procedia CIRP</i> , 2016, 41, 771-776.	1.0	32
46	Evaluation of Laser Braze-welded Dissimilar Al-Cu Joints. <i>Physics Procedia</i> , 2016, 83, 506-514.	1.2	34
47	Design rules for autofrettage of an aluminium valve body. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2016, 39, 68-78.	1.7	7
48	Acoustic-Emission-Analysis of Dissimilar Laser-welds of Aluminium and Polyamide 6.6. <i>Universal Journal of Materials Science</i> , 2016, 4, 119-124.	0.3	1
49	Improved design of threaded connections by autofrettage in aluminium compounds for cyclic high pressure loading: design calculations and experimental verification. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2015, 38, 714-729.	1.7	4
50	Generation of safe tool-path for 2.5D milling/drilling machine-tool using 3D ToF sensor. <i>CIRP Journal of Manufacturing Science and Technology</i> , 2015, 10, 84-91.	2.3	13
51	Adaptive sliding mode fuzzy control for unknown robots with arbitrarily-switched constraints. <i>Mechatronics</i> , 2015, 30, 174-186.	2.0	14
52	Value Stream Management in the "Lean Manufacturing Laboratory". <i>Procedia CIRP</i> , 2015, 32, 144-149.	1.0	21
53	Human-Robot Collaboration: Twofold Strategy Algorithm to Avoid Collisions Using ToF Sensor. <i>International Journal of Materials Mechanics and Manufacturing</i> , 2015, 4, 144-147.	0.2	6
54	Thermal and electrical aging of laser braze-welded aluminum" copper interconnects. <i>Translational Materials Research</i> , 2014, 1, 015001.	1.2	17

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55	Contact-state Modeling of Robotic Assembly Tasks Using Gaussian Mixture Models. <i>Procedia CIRP</i> , 2014, 23, 229-234.	1.0	19
56	Laser Assisted Joining of Hybrid Polyamide-aluminum Structures. <i>Physics Procedia</i> , 2014, 56, 845-853.	1.2	38
57	Electrical performance of laser braze-welded aluminum-copper interconnects. <i>Journal of Manufacturing Processes</i> , 2014, 16, 183-189.	2.8	93
58	Contact-state monitoring of force-guided robotic assembly tasks using expectation maximization-based Gaussian mixtures models. <i>International Journal of Advanced Manufacturing Technology</i> , 2014, 73, 623-633.	1.5	43
59	Safe and Automated Tool-Path Generation for Multi-Axis Production Machines. , 2014, , .		1
60	Position Identification in Force-Guided Robotic Peg-in-Hole Assembly Tasks. <i>Procedia CIRP</i> , 2014, 23, 217-222.	1.0	54
61	Mechanical characteristics of laser braze-welded aluminium-copper connections. <i>Optics and Laser Technology</i> , 2013, 54, 249-256.	2.2	94
62	Advanced Manufacturing Technologies for General Assembly. , 2011, , .		4
63	Industry First: Roller Hemming of Sunroofs. <i>AutoTechnology</i> , 2003, 3, 68-71.	0.1	3
64	Process Robustness of Laser Braze-Welded Al/Cu Connectors. <i>SAE International Journal of Alternative Powertrains</i> , 0, 5, 195-204.	0.8	14
65	Comparing Effectiveness of Paper Based and Augmented Reality Instructions for Manual Assembly and Training Tasks. <i>SSRN Electronic Journal</i> , 0, , .	0.4	8