

Steffen G Scholz

List of Publications by Year in descending order

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41
papers

552
citations

687363

13
h-index

677142

22
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48
all docs

48
docs citations

48
times ranked

548
citing authors

#	ARTICLE	IF	CITATIONS
1	Human Activity Recognition Using K-Nearest Neighbor Machine Learning Algorithm. <i>Smart Innovation, Systems and Technologies</i> , 2022, , 304-313.	0.6	23
2	Development of Correction Factors for FDM 3D Printers: Experimental Investigation and ANN Modelling. <i>Smart Innovation, Systems and Technologies</i> , 2022, , 314-326.	0.6	4
3	Additive Manufacturing in the Automotive Industry and the Potential for Driving the Green and Electric Transition. <i>Smart Innovation, Systems and Technologies</i> , 2022, , 339-346.	0.6	11
4	Elucidation of dross formation in laser powder bed fusion at down-facing surfaces: Phenomenon-oriented multiphysics simulation and experimental validation. <i>Additive Manufacturing</i> , 2022, 50, 102551.	3.0	6
5	Multiobjective Optimization of Laser Polishing of Additively Manufactured Ti-6Al-4V Parts for Minimum Surface Roughness and Heat-Affected Zone. <i>Materials</i> , 2022, 15, 3323.	2.9	5
6	Part Tailoring in Metal-Additive Manufacturing: A Step towards Functionally Graded Customized Stainless-Steel Components Using Laser Powder Bed Fusion. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 6193.	2.5	0
7	Effect of Process Parameters on the Performance of Drop-On-Demand 3D Inkjet Printing: Geometrical-Based Modeling and Experimental Validation. <i>Polymers</i> , 2022, 14, 2557.	4.5	12
8	In-Process Digital Monitoring of Additive Manufacturing: Proposed Machine Learning Approach and Potential Implications on Sustainability. <i>Smart Innovation, Systems and Technologies</i> , 2021, , 297-306.	0.6	10
9	Down-facing surfaces in laser powder bed fusion of Ti6Al4V: Effect of dross formation on dimensional accuracy and surface texture. <i>Additive Manufacturing</i> , 2021, 46, 102148.	3.0	11
10	Stakeholder-Driven Conceptualization of Open Innovation Approaches in the SYNERGY Project. <i>Smart Innovation, Systems and Technologies</i> , 2021, , 307-317.	0.6	2
11	Industry 4.0-Oriented Deep Learning Models for Human Activity Recognition. <i>IEEE Access</i> , 2021, 9, 150508-150521.	4.2	23
12	An Industry 4.0 framework for tooling production using metal additive manufacturing-based first-time-right smart manufacturing system. <i>Procedia CIRP</i> , 2020, 93, 32-37.	1.9	21
13	Experiment-Based Process Modeling and Optimization for High-Quality and Resource-Efficient FFF 3D Printing. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2899.	2.5	61
14	Advances in microcellular injection moulding. <i>Journal of Cellular Plastics</i> , 2020, 56, 646-674.	2.4	18
15	Eight Weeks Later—The Unprecedented Rise of 3D Printing during the COVID-19 Pandemic—A Case Study, Lessons Learned, and Implications on the Future of Global Decentralized Manufacturing. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4135.	2.5	19
16	Dimensional Errors Due to Overhanging Features in Laser Powder Bed Fusion Parts Made of Ti-6Al-4V. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2416.	2.5	25
17	Software Toolkit for Visualization and Process Selection for Modular Scalable Manufacturing of 3D Micro-Devices. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 160-172.	0.6	1
18	Total Cost of Ownership for Different State of the Art FDM Machines (3D Printers). <i>Smart Innovation, Systems and Technologies</i> , 2019, , 351-361.	0.6	3

#	ARTICLE	IF	CITATIONS
19	Safe By Design in 3D Printing. Smart Innovation, Systems and Technologies, 2019, , 341-350.	0.6	1
20	On the Assessment of Thermo-mechanical Degradability of Multi-recycled ABS Polymer for 3D Printing Applications. Smart Innovation, Systems and Technologies, 2019, , 363-373.	0.6	8
21	Effect of Process Parameters on the Generated Surface Roughness of Down-Facing Surfaces in Selective Laser Melting. Applied Sciences (Switzerland), 2019, 9, 1256.	2.5	109
22	Industrial Internet of Things Solution for Real-Time Monitoring of the Additive Manufacturing Process. Advances in Intelligent Systems and Computing, 2019, , 355-365.	0.6	6
23	A Knowledge-Based Decision Support System for Micro and Nano Manufacturing Process Chains. , 2018, , .		2
24	Replication of Overmolded Orthopedic Implants with a Functionalized Thin Layer of Biodegradable Polymer. Polymers, 2018, 10, 707.	4.5	11
25	Digital Detection and Correction of Errors in As-built Parts: a Step Towards Automated Quality Control of Additive Manufacturing. , 2018, , .		10
26	Process and parameter optimisation for micro structuring of 3D freeform metallic surfaces: a comparative study of short-pulse (nanosecond) and ultrafast (picosecond, femtosecond) laser ablation. , 2017, , .		0
27	Moulded Interconnect Devices. Springer Tracts in Mechanical Engineering, 2017, , 175-196.	0.3	1
28	Detection and Visual Inspection of Highly Obfuscated Plagiarisms. , 2016, , .		2
29	A modular flexible scalable and reconfigurable system for manufacturing of Microsystems based on additive manufacturing and e-printing. Robotics and Computer-Integrated Manufacturing, 2016, 40, 14-23.	9.9	29
30	Characterisation of demoulding parameters in micro-injection moulding. Microsystem Technologies, 2015, 21, 1677-1690.	2.0	17
31	2N Period submicron grating at the inner wall of a metal cylinder. Microsystem Technologies, 2014, 20, 1833-1837.	2.0	1
32	A modular flexible scalable and reconfigurable system for manufacturing of microsystems based on additive manufacturing and e-printing. , 2014, , .		1
33	Palladium or palladium hydride nanoparticles synthesized by laser ablation of a bulk palladium target in liquids. Journal of Colloid and Interface Science, 2013, 402, 307-311.	9.4	32
34	An Additive Manufacturing and E-Printing Based Approach for Flexible Scalable Manufacturing of Microsystems. , 2013, , .		1
35	Nanosecond and picosecond laser structuring of electrode materials for lithium-ion batteries. Materials Research Society Symposia Proceedings, 2012, 1388, 1.	0.1	1
36	Laser structuring of metallic mold inserts by using $\hat{1}$ / ₄ s, ns, and ps-laser ablation. Proceedings of SPIE, 2012, , .	0.8	0

#	ARTICLE	IF	CITATIONS
37	Process chain for serial manufacture of 3D micro- and nano-scale structures. CIRP Journal of Manufacturing Science and Technology, 2011, 4, 340-346.	4.5	13
38	Manufacturing routes for replicating micro and nano surface structures with bio-mimetic applications. CIRP Journal of Manufacturing Science and Technology, 2011, 4, 347-356.	4.5	28
39	Laser milling: Tool making capabilities. , 2011, , .		0
40	Laser-assisted surface engineering of thin film electrode materials for lithium-ion batteries. Materials Research Society Symposia Proceedings, 2011, 1365, 1.	0.1	1
41	Design and validation of a novel master-making process chain for organic and large area electronics on flexible substrates. Microelectronic Engineering, 2010, 87, 2139-2145.	2.4	18