

# Sheng Yang

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5404237/publications.pdf>

Version: 2024-02-01

20  
papers

760  
citations

759233

12  
h-index

1058476

14  
g-index

20  
all docs

20  
docs citations

20  
times ranked

555  
citing authors

#	ARTICLE	IF	CITATIONS
1	Additive manufacturing-enabled design theory and methodology: a critical review. <i>International Journal of Advanced Manufacturing Technology</i> , 2015, 80, 327-342.	3.0	246
2	A new part consolidation method to embrace the design freedom of additive manufacturing. <i>Journal of Manufacturing Processes</i> , 2015, 20, 444-449.	5.9	134
3	Understanding the sustainability potential of part consolidation design supported by additive manufacturing. <i>Journal of Cleaner Production</i> , 2019, 232, 722-738.	9.3	57
4	Expanding Poly(lactic acid) (PLA) and Polyhydroxyalkanoates (PHAs) Applications: A Review on Modifications and Effects. <i>Polymers</i> , 2021, 13, 4271.	4.5	44
5	Additive Manufacturing-Enabled Part Count Reduction: A Lifecycle Perspective. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2018, 140, .	2.9	40
6	Towards an automated decision support system for the identification of additive manufacturing part candidates. <i>Journal of Intelligent Manufacturing</i> , 2020, 31, 1917-1933.	7.3	40
7	A Generic Sustainability Assessment Model towards Consolidated Parts Fabricated by Additive Manufacturing Process. <i>Procedia Manufacturing</i> , 2017, 10, 831-844.	1.9	27
8	Towards a Numerical Approach of Finding Candidates for Additive Manufacturing-Enabled Part Consolidation. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2018, 140, .	2.9	27
9	A numerical-based part consolidation candidate detection approach with modularization considerations. <i>Research in Engineering Design - Theory, Applications, and Concurrent Engineering</i> , 2019, 30, 63-83.	2.1	24
10	Understanding the Role of Additive Manufacturing Knowledge in Stimulating Design Innovation for Novice Designers. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2019, 141, .	2.9	22
11	Manufacturability analysis of metal laser-based powder bed fusion additive manufacturing—a survey. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 110, 57-78.	3.0	21
12	Sustainable Design for Additive Manufacturing Through Functionality Integration and Part Consolidation. <i>Environmental Footprints and Eco-design of Products and Processes</i> , 2016, , 101-144.	1.1	19
13	Assembly-Level Design for Additive Manufacturing: Issues and Benchmark. , 2016, , .		15
14	Automated Candidate Detection for Additive Manufacturing: A Framework Proposal. <i>Proceedings of the Design Society International Conference on Engineering Design</i> , 2019, 1, 679-688.	0.6	12
15	Predictive manufacturability assessment system for laser powder bed fusion based on a hybrid machine learning model. <i>Additive Manufacturing</i> , 2021, 41, 101946.	3.0	12
16	Machine Learning Assisted Prediction of the Manufacturability of Laser-Based Powder Bed Fusion Process. , 2019, , .		10
17	Design Method for Conformal Lattice-Skin Structure Fabricated by AM Technologies. , 2016, , .		4
18	Understanding the Role of Additive Manufacturing Knowledge in Stimulating Design Innovation for Novice Designers. , 2018, , .		3

#	ARTICLE	IF	CITATIONS
19	A Comparative Study of Metal Additive Manufacturing Processes for Elevated Sustainability. , 2019, , .		2
20	Resilience Analysis of Additive Manufacturing-enabled Supply Chains: An Exploratory Study. , 2022, 2, .		1