

# Huan-Xiong Xia

## List of Publications by Year in descending order

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29  
papers

484  
citations

933447

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h-index

677142

22  
g-index

29  
all docs

29  
docs citations

29  
times ranked

333  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fully resolved numerical simulations of fused deposition modeling. Part I: fluid flow. Rapid Prototyping Journal, 2018, 24, 463-476.	3.2	88
2	A numerical study of the effect of viscoelastic stresses in fused filament fabrication. Computer Methods in Applied Mechanics and Engineering, 2019, 346, 242-259.	6.6	60
3	Fully resolved numerical simulations of fused deposition modeling. Part II: solidification, residual stresses and modeling of the nozzle. Rapid Prototyping Journal, 2018, 24, 973-987.	3.2	58
4	Simulations of microstructure coupling with moving molten pool by selective laser melting using a cellular automaton. Materials and Design, 2020, 185, 108230.	7.0	41
5	Modeling and numerical studies of selective laser melting: Multiphase flow, solidification and heat transfer. Materials and Design, 2020, 196, 109115.	7.0	36
6	Effects of surface treatment and adhesive thickness on the shear strength of precision bonded joints. Polymer Testing, 2021, 94, 107063.	4.8	29
7	Simulations of fused filament fabrication using a front tracking method. International Journal of Heat and Mass Transfer, 2019, 138, 1310-1319.	4.8	26
8	A review of techniques for modeling flexible cables. CAD Computer Aided Design, 2020, 122, 102826.	2.7	21
9	Parametric study and residual gas analysis of large-area silicon-nitride thin-film deposition by plasma-enhanced chemical vapor deposition. Vacuum, 2019, 165, 172-178.	3.5	18
10	Multi-model simulation of 300 mm silicon-nitride thin-film deposition by PECVD and experimental verification. Surface and Coatings Technology, 2016, 297, 1-10.	4.8	11
11	A numerical study of particle-laden flow around an obstacle: flow evolution and Stokes number effects. Applied Mathematical Modelling, 2022, 103, 287-307.	4.2	11
12	A numerical study of irregular eutectic in Al-Si alloys under a large undercooling. Computational Materials Science, 2021, 186, 110049.	3.0	10
13	Effect of surface morphology characteristic parameters on the shear strength of aluminum bonded joints. International Journal of Solids and Structures, 2022, 238, 111420.	2.7	10
14	Effects of loading rate, temperature, and thickness on the tensile strength of precision adhesive joints. Polymer Testing, 2022, 109, 107528.	4.8	10
15	Experimental study of the effects of showerhead configuration on large-area silicon-nitride thin film by plasma-enhanced chemical vapor deposition. Thin Solid Films, 2017, 638, 1-8.	1.8	9
16	Effects of assembly errors and bonding defects on the centroid drift of a precision sleeve structure. Advances in Manufacturing, 2021, 9, 509-519.	6.1	8
17	Simulation-Based Optimization of a Vector Showerhead System for the Control of Flow Field Profile in a Vertical Reactor Chamber. Advances in Mechanical Engineering, 2014, 6, 525102.	1.6	6
18	Evaluation of the Equivalent Mechanical Properties of Lattice Structures Based on the Finite Element Method. Materials, 2022, 15, 2993.	2.9	6

#	ARTICLE	IF	CITATIONS
19	A predictionâ€“correction method for fast and accurate initial displacement field estimation in digital image correlation. <i>Measurement Science and Technology</i> , 2022, 33, 105201.	2.6	6
20	A Numerical Study on the Mesoscopic Characteristics of Ti-6Al-4V by Selective Laser Melting. <i>Materials</i> , 2022, 15, 2850.	2.9	5
21	A review of cable layout design and assembly simulation in virtual environments. <i>Virtual Reality &amp; Intelligent Hardware</i> , 2019, 1, 543-557.	3.2	4
22	A reduced-order model based on finite element method for fast prediction of thermal performance of lattice structures. <i>International Communications in Heat and Mass Transfer</i> , 2021, 126, 105347.	5.6	4
23	New simulation-based approach for the profile control in a process chamber: Fluid, thermal, and plasma profile. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 2017, 231, 565-580.	2.5	3
24	The segmented non-uniform dielectric module design for uniformity control of plasma profile in a capacitively coupled plasma chamber. <i>AIP Advances</i> , 2014, 4, .	1.3	2
25	The array-control heater and non-uniform resistance module design for regulating the temperature profile in a reactor chamber. <i>Journal of Mechanical Science and Technology</i> , 2015, 29, 593-604.	1.5	1
26	The effect of particles on the dynamics of fluid flows around an obstacle. <i>AIP Conference Proceedings</i> , 2022, , .	0.4	1
27	Direct Numerical Simulation of Particle-laden Flow Around an Obstacle at Different Reynolds Numbers. <i>Journal of Physics: Conference Series</i> , 2021, 1877, 012035.	0.4	0
28	A numerical study of dendrite growth and microstructure transition in a non-equilibrium solidification. <i>Journal of Physics: Conference Series</i> , 2021, 1939, 012018.	0.4	0
29	A new analytical model for the growth rate of dendrite tips. <i>IOP Conference Series: Earth and Environmental Science</i> , 2021, 772, 012067.	0.3	0