

# Huan-Xiong Xia

## List of Publications by Year in descending order

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29  
papers

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citations

933447

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h-index

677142

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docs citations

29  
times ranked

333  
citing authors

#	ARTICLE	IF	CITATIONS
1	A numerical study of particle-laden flow around an obstacle: flow evolution and Stokes number effects. <i>Applied Mathematical Modelling</i> , 2022, 103, 287-307.	4.2	11
2	Effect of surface morphology characteristic parameters on the shear strength of aluminum bonded joints. <i>International Journal of Solids and Structures</i> , 2022, 238, 111420.	2.7	10
3	The effect of particles on the dynamics of fluid flows around an obstacle. <i>AIP Conference Proceedings</i> , 2022, , .	0.4	1
4	Effects of loading rate, temperature, and thickness on the tensile strength of precision adhesive joints. <i>Polymer Testing</i> , 2022, 109, 107528.	4.8	10
5	A Numerical Study on the Mesoscopic Characteristics of Ti-6Al-4V by Selective Laser Melting. <i>Materials</i> , 2022, 15, 2850.	2.9	5
6	Evaluation of the Equivalent Mechanical Properties of Lattice Structures Based on the Finite Element Method. <i>Materials</i> , 2022, 15, 2993.	2.9	6
7	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
8	A numerical study of irregular eutectic in Al-Si alloys under a large undercooling. <i>Computational Materials Science</i> , 2021, 186, 110049.	3.0	10
9	Effects of assembly errors and bonding defects on the centroid drift of a precision sleeve structure. <i>Advances in Manufacturing</i> , 2021, 9, 509-519.	6.1	8
10	Effects of surface treatment and adhesive thickness on the shear strength of precision bonded joints. <i>Polymer Testing</i> , 2021, 94, 107063.	4.8	29
11	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
12	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
13	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
14	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
15	Simulations of microstructure coupling with moving molten pool by selective laser melting using a cellular automaton. <i>Materials and Design</i> , 2020, 185, 108230.	7.0	41
16	Modeling and numerical studies of selective laser melting: Multiphase flow, solidification and heat transfer. <i>Materials and Design</i> , 2020, 196, 109115.	7.0	36
17	A review of techniques for modeling flexible cables. <i>CAD Computer Aided Design</i> , 2020, 122, 102826.	2.7	21
18	Simulations of fused filament fabrication using a front tracking method. <i>International Journal of Heat and Mass Transfer</i> , 2019, 138, 1310-1319.	4.8	26

#	ARTICLE	IF	CITATIONS
19	Parametric study and residual gas analysis of large-area silicon-nitride thin-film deposition by plasma-enhanced chemical vapor deposition. <i>Vacuum</i> , 2019, 165, 172-178.	3.5	18
20	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
21	A numerical study of the effect of viscoelastic stresses in fused filament fabrication. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 346, 242-259.	6.6	60
22	Fully resolved numerical simulations of fused deposition modeling. Part I: fluid flow. <i>Rapid Prototyping Journal</i> , 2018, 24, 463-476.	3.2	88
23	Fully resolved numerical simulations of fused deposition modeling. Part II “ solidification, residual stresses and modeling of the nozzle. <i>Rapid Prototyping Journal</i> , 2018, 24, 973-987.	3.2	58
24	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
25	Experimental study of the effects of showerhead configuration on large-area silicon-nitride thin film by plasma-enhanced chemical vapor deposition. <i>Thin Solid Films</i> , 2017, 638, 1-8.	1.8	9
26	Multi-model simulation of 300 mm silicon-nitride thin-film deposition by PECVD and experimental verification. <i>Surface and Coatings Technology</i> , 2016, 297, 1-10.	4.8	11
27	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
28	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
29	Simulation-Based Optimization of a Vector Showerhead System for the Control of Flow Field Profile in a Vertical Reactor Chamber. <i>Advances in Mechanical Engineering</i> , 2014, 6, 525102.	1.6	6