

# Andreas Mark

## List of Publications by Year in descending order

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Version: 2024-02-01

35  
papers

430  
citations

1040056

9  
h-index

752698

20  
g-index

35  
all docs

35  
docs citations

35  
times ranked

420  
citing authors

#	ARTICLE	IF	CITATIONS
1	Derivation and validation of a novel implicit second-order accurate immersed boundary method. <i>Journal of Computational Physics</i> , 2008, 227, 6660-6680.	3.8	108
2	Simulations of 3D bioprinting: predicting bioprintability of nanofibrillar inks. <i>Biofabrication</i> , 2018, 10, 034105.	7.1	93
3	An immersed boundary based dynamic contact angle framework for handling complex surfaces of mixed wettabilities. <i>International Journal of Multiphase Flow</i> , 2018, 109, 164-177.	3.4	45
4	Optimisation of robotised sealing stations in paint shops by process simulation and automatic path planning. <i>International Journal of Manufacturing Research</i> , 2014, 9, 4.	0.2	20
5	A finite volume method for electrostatic three species negative corona discharge simulations with application to externally charged powder bells. <i>Journal of Electrostatics</i> , 2015, 74, 27-36.	1.9	14
6	Multiphase simulation of fiber suspension flows using immersed boundary methods. <i>Nordic Pulp and Paper Research Journal</i> , 2012, 27, 184-191.	0.7	14
7	A domain decomposition method for three species modeling of multi-electrode negative corona discharge " With applications to electrostatic precipitators. <i>Journal of Electrostatics</i> , 2015, 77, 139-146.	1.9	13
8	Process Simulation and Automatic Path Planning of Adhesive Joining. <i>Procedia CIRP</i> , 2016, 44, 298-303.	1.9	11
9	A Lagrangian-Eulerian framework for simulation of transient viscoelastic fluid flow. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2019, 266, 20-32.	2.4	10
10	Microstructure simulation of early paper forming using immersed boundary methods. <i>Tappi Journal</i> , 2011, 11, 23-30.	0.5	9
11	Simulation of the spherical orientation probability distribution of paper fibers in an entire suspension using immersed boundary methods. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2016, 229, 1-7.	2.4	8
12	Computationally efficient viscoelastic flow simulation using a Lagrangian-Eulerian method and GPU-acceleration. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2020, 279, 104264.	2.4	8
13	Simulation of a highly elastic structure interacting with a two-phase flow. <i>Journal of Mathematics in Industry</i> , 2014, 4, .	1.2	7
14	Multiobjective Optimization of a Heat-Sink Design Using the Sandwiching Algorithm and an Immersed Boundary Conjugate Heat Transfer Solver. <i>Journal of Heat Transfer</i> , 2018, 140, .	2.1	6
15	A continuum-based multiphase DNS method for studying the Brownian dynamics of soot particles in a rarefied gas. <i>Chemical Engineering Science</i> , 2019, 210, 115229.	3.8	6
16	Multi-scale simulation of paperboard edge wicking using a fiber-resolving virtual paper model. <i>Tappi Journal</i> , 2012, 11, 9-16.	0.5	6
17	Modeling and simulation of paperboard edge wicking. <i>Nordic Pulp and Paper Research Journal</i> , 2012, 27, 397-402.	0.7	5
18	Math-Based Algorithms and Software for Virtual Product Realization Implemented in Automotive Paint Shops. <i>Mathematics in Industry</i> , 2017, , 231-251.	0.3	5

#	ARTICLE	IF	CITATIONS
19	A Simulation Study on the Effect of Particle Size Distribution on the Printed Geometry in Selective Laser Melting. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2022, 144, .	2.2	5
20	A multi-scale simulation method for the prediction of edge wicking in multi-ply paperboard. Nordic Pulp and Paper Research Journal, 2015, 30, 640-650.	0.7	4
21	A Backwards-Tracking Lagrangian-Eulerian Method for Viscoelastic Two-Fluid Flows. Applied Sciences (Switzerland), 2021, 11, 439.	2.5	4
22	Multicriteria Optimization of an Oven With a Novel $\hat{\mu}$ -Constraint-Based Sandwiching Method. Journal of Heat Transfer, 2021, 143, .	2.1	4
23	The Knudsen Paradox in Micro-Channel Poiseuille Flows with a Symmetric Particle. Applied Sciences (Switzerland), 2021, 11, 351.	2.5	4
24	Simulation of viscoelastic squeeze flows for adhesive joining applications. Journal of Non-Newtonian Fluid Mechanics, 2022, 300, 104722.	2.4	4
25	Design and biofabrication of a leaf-inspired vascularized cell-delivery device. Bioprinting, 2022, 26, e00199.	5.8	4
26	Improved Spray Paint Thickness Calculation From Simulated Droplets Using Density Estimation. , 2012, , .		3
27	A virtual framework for simulation of complex viscoelastic flows. Procedia CIRP, 2018, 72, 392-397.	1.9	2
28	Assessment of hindered diffusion in arbitrary geometries using a multiphase DNS framework. Chemical Engineering Science, 2021, 230, 116074.	3.8	2
29	A hydrodynamic basis for off-axis Brownian diffusion under intermediate confinements in micro-channels. International Journal of Multiphase Flow, 2021, 143, 103772.	3.4	2
30	Simulation of a Rubber Beam Interacting with a Two-Phase Flow in a Rolling Tank. Mathematics in Industry, 2014, , 157-165.	0.3	2
31	Simulation of Spray Painting in Automotive Industry. , 2010, , 771-779.		1
32	Efficient Simulation of Convective Ovens in Automotive Paintshops. Journal of Heat Transfer, 2022, 144, .	2.1	1
33	Numerical investigation of upstream cylinder flow and characterization of forming fabrics. Nordic Pulp and Paper Research Journal, 2019, 34, 371-393.	0.7	0
34	Simulation of jet printing of solder paste for surface mounted technology. Soldering and Surface Mount Technology, 2021, 33, 266-273.	1.5	0
35	Microstructure Simulation of Paper Forming. Mathematics in Industry, 2014, , 135-138.	0.3	0