

Raphaël Comminal

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

728
citations

687335

13
h-index

794568

19
g-index

24
all docs

24
docs citations

24
times ranked

545
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical modeling of the strand deposition flow in extrusion-based additive manufacturing. Additive Manufacturing, 2018, 20, 68-76.	3.0	135
2	Modelling of 3D concrete printing based on computational fluid dynamics. Cement and Concrete Research, 2020, 138, 106256.	11.0	83
3	Experimental validation of a numerical model for the strand shape in material extrusion additive manufacturing. Additive Manufacturing, 2018, 24, 145-153.	3.0	79
4	Motion planning and numerical simulation of material deposition at corners in extrusion additive manufacturing. Additive Manufacturing, 2019, 29, 100753.	3.0	50
5	Numerical simulations of the mesostructure formation in material extrusion additive manufacturing. Additive Manufacturing, 2019, 28, 419-429.	3.0	48
6	Robust simulations of viscoelastic flows at high Weissenberg numbers with the streamfunction/log-conformation formulation. Journal of Non-Newtonian Fluid Mechanics, 2015, 223, 37-61.	2.4	40
7	Numerical simulation of the planar extrudate swell of pseudoplastic and viscoelastic fluids with the streamfunction and the VOF methods. Journal of Non-Newtonian Fluid Mechanics, 2018, 252, 1-18.	2.4	39
8	Numerical modeling of the polymer flow through the hot-end in filament-based material extrusion additive manufacturing. Additive Manufacturing, 2020, 36, 101454.	3.0	39
9	Experimental and analytical study of the polymer melt flow through the hot-end in material extrusion additive manufacturing. Additive Manufacturing, 2020, 32, 100997.	3.0	37
10	Cellwise conservative unsplit advection for the volume of fluid method. Journal of Computational Physics, 2015, 283, 582-608.	3.8	36
11	Vortex behavior of the Oldroyd-B fluid in the 4-1 planar contraction simulated with the streamfunction-log-conformation formulation. Journal of Non-Newtonian Fluid Mechanics, 2016, 237, 1-15.	2.4	32
12	Multiphysics modelling of manufacturing processes: A review. Advances in Mechanical Engineering, 2018, 10, 168781401876618.	1.6	25
13	Numerical simulation of multi-layer 3D concrete printing. RILEM Technical Letters, 0, 6, 119-123.	0.0	20
14	Influence of Processing Parameters on the Layer Geometry in 3D Concrete Printing: Experiments and Modelling. RILEM Bookseries, 2020, , 852-862.	0.4	15
15	Viscoelastic simulation and optimisation of the polymer flow through the hot-end during filament-based material extrusion additive manufacturing. Virtual and Physical Prototyping, 2022, 17, 205-219.	10.4	14
16	Stability and deformations of deposited layers in material extrusion additive manufacturing. Additive Manufacturing, 2021, 46, 102193.	3.0	10
17	Three-dimensional cellwise conservative unsplit geometric VOF schemes. Journal of Computational Physics, 2021, 442, 110479.	3.8	8
18	Integrating Reinforcement with 3D Concrete Printing: Experiments and Numerical Modelling. RILEM Bookseries, 2022, , 379-384.	0.4	5

#	ARTICLE	IF	CITATIONS
19	Estimations of Interlayer Contacts in Extrusion Additive Manufacturing Using a CFD Model. , 2021, , 241-250.		4
20	Numerical Predictions of Bottom Layer Stability in Material Extrusion Additive Manufacturing. Jom, 2022, 74, 1096-1101.	1.9	4
21	A Two-Phase Flow Solver for Incompressible Viscous Fluids, Using a Pure Streamfunction Formulation and the Volume of Fluid Technique. Defect and Diffusion Forum, 2014, 348, 9-19.	0.4	3
22	Rheological Characterization of Green Sand Flow. , 2016, , .		1
23	Influence of Fibers on the Flow Through the Hot-End in Material Extrusion Additive Manufacturing. , 2021, , 251-267.		1
24	A new numerical framework to simulate viscoelastic free-surface flows with the finite-volume method. Journal of Physics: Conference Series, 2015, 602, 012022.	0.4	0