Michael MÃ¼ller

List of Publications by Year
in descending order

		1307594	1281871
29 papers	**156** citations	**7** h-index	**11** g-index
31 all docs	**31** docs citations	**31** times ranked	**75** citing authors

#	Article	IF	Citations
1	Towards the efficient modelling of trapped air pockets during squeeze flow. Experimental and Computational Multiphase Flow, 2023, 5, 29-52.	3.9	4
2	Development and validation of a compression flow model of non-Newtonian adhesives. Journal of Adhesion, 2022, 98, 1260-1297.	3.0	7
3	Experimental validation of a compression flow model of Non-Newtonian adhesives. Journal of Adhesion, 2022, 98, 2295-2324.	3.0	3
4	Investigation and Simulation of the Surface Contact Characteristics of Sinter-Joined Binder Jetting Components. Applied Sciences (Switzerland), 2022, 12, 3478.	2.5	3
5	A mortar-based cavitation formulation using NURBS-based isogeometric analysis. Computer Methods in Applied Mechanics and Engineering, 2022, 398, 115263.	6.6	4
6	A case study on the observability of cutting fluid flow and the associated contact mechanics in scaled rough surfaces. SN Applied Sciences, 2021, 3, 1.	2.9	1
7	Investigations on the dynamic influence of the contact angle on frictional sliding processes between rough surfaces using NURBS and mortar-based augmented Lagrangian method. Tribology International, 2021, 158, 106889.	5.9	8
8	Studies on the Pressure Buildup and Shear Flow Factors in the Cavitation Regime. Lubricants, 2020, 8, 82.	2.9	5
9	A Cellular Automaton Model as a First Model-Based Assessment of Interacting Mechanisms for Insulin Granule Transport in Beta Cells. Cells, 2020, 9, 1487.	4.1	2
10	Challenges of order reduction techniques for problems involving polymorphic uncertainty. GAMM Mitteilungen, 2019, 42, e201900011.	5.5	5
11	Stability Analysis with an NVH Minimal Model for Brakes under Consideration of Polymorphic Uncertainty of Friction. Vibration, 2019, 2, 135-156.	1.9	4
12	Analysis of polymorphic data uncertainties in engineering applications. GAMM Mitteilungen, 2019, 42, e201900010.	5.5	3
13	Transformation of tribological modelling of squeeze flows to simulate the flow of highly viscous adhesives and sealants in manufacturing processes. Proceedings in Applied Mathematics and Mechanics, 2019, 19, e201900056.	0.2	3
14	On the Lubricant Flow and the Friction Coefficient in Partially Filled Gaps. Proceedings in Applied Mathematics and Mechanics, 2019, 19, e201900078.	0.2	1
15	Experimental Studies of Lubricant Flow and Friction in Partially Filled Gaps. Lubricants, 2018, 6, 110.	2.9	13
16	An efficient numerical model for the evaluation of compression flow of high-viscosity adhesives. International Journal of Adhesion and Adhesives, 2018, 85, 251-262.	2.9	13
17	On the influence of fluid dynamics and elastic deformations on pressure buildup in partially filled gaps. Tribology International, 2017, 105, 345-359.	5.9	17
18	The Boundary Layer Machine. Proceedings in Applied Mathematics and Mechanics, 2017, 17, 159-160.	0.2	0

#	ARTICLE	IF	CITATIONS
19	Measurements of partially lubricated contacts on different scales. Proceedings in Applied Mathematics and Mechanics, 2017, 17, 629-630.	0.2	6
20	Simulative studies of tribological interfaces with partially filled gaps. Tribology International, 2014, 78, 195-209.	5.9	18
21	A model describing pressure buildup in rough surfaces with partially filled gaps. Proceedings in Applied Mathematics and Mechanics, 2014, 14, 599-600.	0.2	0
22	A contribution to the modeling of tribological processes under starved lubrication. Tribology International, 2013, 64, 135-147.	5.9	24
23	A model for fluid flow in non-fully filled tribological interfaces - Part 2: Simulations. Proceedings in Applied Mathematics and Mechanics, 2013, 13, 291-292.	0.2	0
24	A model for fluid flow in non-fully filled tribological interfaces - Part 1: Basics and Numerics. Proceedings in Applied Mathematics and Mechanics, 2013, 13, 289-290.	0.2	0
25	Modeling of the Wear Particle Flow in Tribological Contacts. Proceedings in Applied Mathematics and Mechanics, 2013, 13, 123-124.	0.2	0
26	Grundlagen zur Beschreibung der Wärmeleitung mit Zellulären Automaten. Proceedings in Applied Mathematics and Mechanics, 2008, 8, 10377-10378.	0.2	2
27	A Cellular Automaton Model for Tribological Problems. Lecture Notes in Computer Science, 2008, , 92-99.	1.3	0
28	Ein Ansatz zur Beschreibung der dreidimensionalen Topographiedynamik bei Bremsvorgängen. Proceedings in Applied Mathematics and Mechanics, 2007, 7, 4050033-4050034.	0.2	0
29	Towards an Explicit Computation of Wear in Brake Materials. , 0, , .		5