Tim Grunwald

List of Publications by Year
in descending order

18 papers	138 citations	1307594 7 h-index	1281871 11 g-index
19 all docs	19 docs citations	19 times ranked	89 citing authors

#	Article	IF	Citations
1	Modeling nonequilibrium thermoviscoelastic material behaviors of glass in nonisothermal glass molding. Journal of the American Ceramic Society, 2022, 105, 6799-6815.	3.8	5
2	Reprint of: Application cases of biological transformation in manufacturing technology. CIRP Journal of Manufacturing Science and Technology, 2021, 34, 95-95.	4.5	2
3	Machine learning-based predictive modeling of contact heat transfer. International Journal of Heat and Mass Transfer, 2021, 174, 121300.	4.8	23
4	Numerical and experimental determinations of contact heat transfer coefficients in nonisothermal glass molding. Journal of the American Ceramic Society, 2020, 103, 1258-1269.	3.8	10
5	Modeling of thermoâ€viscoelastic material behavior of glass over a wide temperature range in glass compression molding. Journal of the American Ceramic Society, 2020, 103, 2791-2807.	3.8	17
6	Application cases of biological transformation in manufacturing technology. CIRP Journal of Manufacturing Science and Technology, 2020, 31, 68-77.	4.5	15
7	Thermo-viscoelastic Modeling of Nonequilibrium Material Behavior of Glass in Nonisothermal Glass Molding. Procedia Manufacturing, 2020, 47, 1561-1568.	1.9	6
8	PtIr protective coating system for precision glass molding tools: Design, evaluation and mechanism of degradation. Surface and Coatings Technology, 2020, 385, 125378.	4.8	19
9	Vibration-Assisted Face Grinding of Mould Steel. Lecture Notes in Mechanical Engineering, 2020, , 291-303.	0.4	5
10	Precision glass molding of infrared optics with anti-reflective microstructures. , 2020, , .		2
11	Experimental investigation of contact heat transfer coefficients in nonisothermal glass molding by infrared thermography. Journal of the American Ceramic Society, 2019, 102, 2116-2134.	3.8	11
12	Influence of Glassy Carbon Surface Finishing on Its Wear Behavior during Precision Glass Moulding of Fused Silica. Materials, 2019, 12, 692.	2.9	10
13	Evaluation of mold materials for precision glass molding. , 2019, , .		1
14	Replicative manufacturing of glass optics with functional microstructures. , 2019, , .		2
15	Molded anti-reflective structures of chalcogenide glasses for infrared optics by precision glass molding. , 2019, , .		4
16	Approaches and methodologies for process development of thin glass forming. , 2019, , .		3
17	Analysis of form deviation in non-isothermal glass molding. , 2018, , .		2
18	Scalability of the precision glass molding process for an efficient optics production. , 2018, , .		1