

Tim Grunwald

List of Publications by Year in descending order

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Version: 2024-02-01

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	Machine learning-based predictive modeling of contact heat transfer. International Journal of Heat and Mass Transfer, 2021, 174, 121300.	4.8	23
2	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
3	Modeling of thermo-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
4	Application cases of biological transformation in manufacturing technology. CIRP Journal of Manufacturing Science and Technology, 2020, 31, 68-77.	4.5	15
5	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
6	Influence of Glassy Carbon Surface Finishing on Its Wear Behavior during Precision Glass Moulding of Fused Silica. Materials, 2019, 12, 692.	2.9	10
7	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
8	Thermo-viscoelastic Modeling of Nonequilibrium Material Behavior of Glass in Nonisothermal Glass Molding. Procedia Manufacturing, 2020, 47, 1561-1568.	1.9	6
9	Vibration-Assisted Face Grinding of Mould Steel. Lecture Notes in Mechanical Engineering, 2020, , 291-303.	0.4	5
10	Modeling nonequilibrium thermoviscoelastic material behaviors of glass in nonisothermal glass molding. Journal of the American Ceramic Society, 2022, 105, 6799-6815.	3.8	5
11	Molded anti-reflective structures of chalcogenide glasses for infrared optics by precision glass molding. , 2019, , .		4
12	Approaches and methodologies for process development of thin glass forming. , 2019, , .		3
13	Reprint of: Application cases of biological transformation in manufacturing technology. CIRP Journal of Manufacturing Science and Technology, 2021, 34, 95-95.	4.5	2
14	Analysis of form deviation in non-isothermal glass molding. , 2018, , .		2
15	Replicative manufacturing of glass optics with functional microstructures. , 2019, , .		2
16	Precision glass molding of infrared optics with anti-reflective microstructures. , 2020, , .		2
17	Scalability of the precision glass molding process for an efficient optics production. , 2018, , .		1
18	Evaluation of mold materials for precision glass molding. , 2019, , .		1