

# Christian Leithäuser

## List of Publications by Year in descending order

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22  
papers

101  
citations

1478505

6  
h-index

1372567

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g-index

24  
all docs

24  
docs citations

24  
times ranked

54  
citing authors

#	ARTICLE	IF	CITATIONS
1	Model hierarchy for the shape optimization of a microchannel cooling system. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2021, 101, e202000166.	1.6	6
2	Energy-Efficient High Temperature Processes via Shape Optimization. Mathematics in Industry, 2021, , 123-143.	0.3	1
3	Optimal control of the Sabatier process in microchannel reactors. Journal of Engineering Mathematics, 2021, 128, 1.	1.2	2
4	Shape sensitivity analysis for a microchannel cooling system. Journal of Mathematical Analysis and Applications, 2020, 492, 124476.	1.0	6
5	Mathematical modeling of vaporization during laser-induced thermotherapy in liver tissue. Journal of Mathematics in Industry, 2020, 10, .	1.2	8
6	Identification of the blood perfusion rate for laser-induced thermotherapy in the liver. Journal of Mathematics in Industry, 2020, 10, .	1.2	7
7	Shape Optimization of a Polymer Distributor Using an Eulerian Residence Time Model. SIAM Journal of Scientific Computing, 2019, 41, B625-B648.	2.8	10
8	Shape optimization of a bended tube minimizing particle erosion. Proceedings in Applied Mathematics and Mechanics, 2019, 19, e201900188.	0.2	0
9	A thermometry software tool for monitoring laser-induced interstitial thermotherapy. Biomedizinische Technik, 2019, 64, 449-457.	0.8	6
10	Experimental Validation of a Mathematical Model for Laser-Induced Thermotherapy. Mathematics in Industry, 2019, , 231-237.	0.3	0
11	Shape Optimization of Liquid Polymer Distributors. Mathematics in Industry, 2019, , 429-436.	0.3	0
12	Residence time optimization of spin pack polymer distributors. Proceedings in Applied Mathematics and Mechanics, 2018, 18, e201800025.	0.2	0
13	Shape design for polymer spin packs: modeling, optimization and validation. Journal of Mathematics in Industry, 2018, 8, .	1.2	5
14	Designing polymer spin packs by tailored shape optimization techniques. Optimization and Engineering, 2018, 19, 733-764.	2.4	11
15	Validation of a mathematical model for laser-induced thermotherapy in liver tissue. Lasers in Medical Science, 2017, 32, 1399-1409.	2.1	20
16	Approximate controllability of linearized shape-dependent operators for flow problems. ESAIM - Control, Optimisation and Calculus of Variations, 2017, 23, 751-771.	1.3	10
17	The Production of Filaments and Non-woven Materials: The Design of the Polymer Distributor. Mathematics in Industry, 2017, , 321-340.	0.3	3
18	Optimal Shape Design for Polymer Spin Packs. Mathematics in Industry, 2017, , 601-607.	0.3	0

#	ARTICLE	IF	CITATIONS
19	Homogenization Strategies for Fiber Curtains and Bundles in Air Flows. Mathematics in Industry, 2016, , 971-978.	0.3	0
20	An Approach to Shape Optimization with State Constraints. Proceedings in Applied Mathematics and Mechanics, 2012, 12, 685-686.	0.2	0
21	Characterizing the image space of a shape-dependent operator for a potential flow problem. Applied Mathematics Letters, 2012, 25, 1959-1963.	2.7	5
22	Shape Optimization for Stokes Flows using Conformal Metrics. Proceedings in Applied Mathematics and Mechanics, 2010, 10, 581-582.	0.2	1