

# Christian Leithäuser

## List of Publications by Year in descending order

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Version: 2024-02-01

22  
papers

101  
citations

1478505

6  
h-index

1372567

10  
g-index

24  
all docs

24  
docs citations

24  
times ranked

54  
citing authors

#	ARTICLE	IF	CITATIONS
1	Validation of a mathematical model for laser-induced thermotherapy in liver tissue. <i>Lasers in Medical Science</i> , 2017, 32, 1399-1409.	2.1	20
2	Designing polymer spin packs by tailored shape optimization techniques. <i>Optimization and Engineering</i> , 2018, 19, 733-764.	2.4	11
3	Approximate controllability of linearized shape-dependent operators for flow problems. <i>ESAIM - Control, Optimisation and Calculus of Variations</i> , 2017, 23, 751-771.	1.3	10
4	Shape Optimization of a Polymer Distributor Using an Eulerian Residence Time Model. <i>SIAM Journal of Scientific Computing</i> , 2019, 41, B625-B648.	2.8	10
5	Mathematical modeling of vaporization during laser-induced thermotherapy in liver tissue. <i>Journal of Mathematics in Industry</i> , 2020, 10, .	1.2	8
6	Identification of the blood perfusion rate for laser-induced thermotherapy in the liver. <i>Journal of Mathematics in Industry</i> , 2020, 10, .	1.2	7
7	A thermometry software tool for monitoring laser-induced interstitial thermotherapy. <i>Biomedizinische Technik</i> , 2019, 64, 449-457.	0.8	6
8	Shape sensitivity analysis for a microchannel cooling system. <i>Journal of Mathematical Analysis and Applications</i> , 2020, 492, 124476.	1.0	6
9	Model hierarchy for the shape optimization of a microchannel cooling system. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2021, 101, e202000166.	1.6	6
10	Characterizing the image space of a shape-dependent operator for a potential flow problem. <i>Applied Mathematics Letters</i> , 2012, 25, 1959-1963.	2.7	5
11	Shape design for polymer spin packs: modeling, optimization and validation. <i>Journal of Mathematics in Industry</i> , 2018, 8, .	1.2	5
12	The Production of Filaments and Non-woven Materials: The Design of the Polymer Distributor. <i>Mathematics in Industry</i> , 2017, , 321-340.	0.3	3
13	Optimal control of the Sabatier process in microchannel reactors. <i>Journal of Engineering Mathematics</i> , 2021, 128, 1.	1.2	2
14	Shape Optimization for Stokes Flows using Conformal Metrics. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2010, 10, 581-582.	0.2	1
15	Energy-Efficient High Temperature Processes via Shape Optimization. <i>Mathematics in Industry</i> , 2021, , 123-143.	0.3	1
16	An Approach to Shape Optimization with State Constraints. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2012, 12, 685-686.	0.2	0
17	Residence time optimization of spin pack polymer distributors. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2018, 18, e201800025.	0.2	0
18	Shape optimization of a bended tube minimizing particle erosion. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2019, 19, e201900188.	0.2	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	Optimal Shape Design for Polymer Spin Packs. Mathematics in Industry, 2017, , 601-607.	0.3	0
21	Experimental Validation of a Mathematical Model for Laser-Induced Thermotherapy. Mathematics in Industry, 2019, , 231-237.	0.3	0
22	Shape Optimization of Liquid Polymer Distributors. Mathematics in Industry, 2019, , 429-436.	0.3	0