

Casper Schousboe Andreassen

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

1,323
citations

567144

15
h-index

642610

23
g-index

24
all docs

24
docs citations

24
times ranked

838
citing authors

#	ARTICLE	IF	CITATIONS
1	How to determine composite material properties using numerical homogenization. Computational Materials Science, 2014, 83, 488-495.	1.4	285
2	Topology optimisation for natural convection problems. International Journal for Numerical Methods in Fluids, 2014, 76, 699-721.	0.9	149
3	A Review of Topology Optimisation for Fluid-Based Problems. Fluids, 2020, 5, 29.	0.8	138
4	Topology optimization of microfluidic mixers. International Journal for Numerical Methods in Fluids, 2009, 61, 498-513.	0.9	120
5	An explicit parameterization for casting constraints in gradient driven topology optimization. Structural and Multidisciplinary Optimization, 2011, 44, 875-881.	1.7	95
6	A "poor man's" approach to topology optimization of cooling channels based on a Darcy flow model. International Journal of Heat and Mass Transfer, 2018, 116, 1108-1123.	2.5	89
7	Topology optimization of fluid-structure-interaction problems in poroelasticity. Computer Methods in Applied Mechanics and Engineering, 2013, 258, 55-62.	3.4	51
8	Level set topology and shape optimization by density methods using cut elements with length scale control. Structural and Multidisciplinary Optimization, 2020, 62, 685-707.	1.7	49
9	On the realization of the bulk modulus bounds for two-phase viscoelastic composites. Journal of the Mechanics and Physics of Solids, 2014, 63, 228-241.	2.3	48
10	A "poor man's" approach to topology optimization of natural convection problems. Structural and Multidisciplinary Optimization, 2019, 59, 1105-1124.	1.7	46
11	Topology optimization of two fluid heat exchangers. International Journal of Heat and Mass Transfer, 2020, 163, 120543.	2.5	43
12	Revisiting density-based topology optimization for fluid-structure-interaction problems. Structural and Multidisciplinary Optimization, 2018, 58, 969-995.	1.7	42
13	Interactive topology optimization on hand-held devices. Structural and Multidisciplinary Optimization, 2013, 47, 1-6.	1.7	41
14	A "poor man's" approach for high-resolution three-dimensional topology design for natural convection problems. Advances in Engineering Software, 2020, 140, 102736.	1.8	35
15	Saturated poroelastic actuators generated by topology optimization. Structural and Multidisciplinary Optimization, 2011, 43, 693-706.	1.7	20
16	A framework for topology optimization of inertial microfluidic particle manipulators. Structural and Multidisciplinary Optimization, 2020, 61, 2481-2499.	1.7	13
17	Aerodynamic Shape Optimization of Aircraft Wings Using Panel Methods. AIAA Journal, 2020, 58, 3765-3776.	1.5	12
18	Hydraulic pitch control system for wind turbines: Advanced modeling and verification of an hydraulic accumulator. Simulation Modelling Practice and Theory, 2017, 79, 1-22.	2.2	11

#	ARTICLE	IF	CITATIONS
19	On approaches for avoiding low-stiffness regions in variable thickness sheet and homogenization-based topology optimization. Structural and Multidisciplinary Optimization, 2021, 64, 39-52.	1.7	11
20	Length scale control for high-resolution three-dimensional level set-based topology optimization. Structural and Multidisciplinary Optimization, 2021, 64, 1127-1139.	1.7	9
21	Aeroelastic Optimization of Aircraft Wings Using a Coupled Three-Dimensional Panel-Beam Model. AIAA Journal, 2021, 59, 1374-1386.	1.5	6
22	Topology optimization of inertia driven dosing units. Structural and Multidisciplinary Optimization, 2017, 55, 1301-1309.	1.7	4
23	Aerodynamic Shape Optimization of Highly Nonplanar Raised and Drooped Wings. Journal of Aircraft, 0, , 1-13.	1.7	3
24	Aeroelastic shape optimization of solid foam core wings subject to large deformations. Structural and Multidisciplinary Optimization, 2022, 65, .	1.7	3