

# Shouyu Cai

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2362915/publications.pdf>

Version: 2024-02-01

10  
papers

296  
citations

1478505

6  
h-index

1588992

8  
g-index

10  
all docs

10  
docs citations

10  
times ranked

231  
citing authors

#	ARTICLE	IF	CITATIONS
1	Stress constrained shape and topology optimization with fixed mesh: A B-spline finite cell method combined with level set function. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2014, 278, 361-387.	6.6	88
2	Topology optimization with closed B-splines and Boolean operations. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2017, 315, 652-670.	6.6	69
3	Stress constrained topology optimization with free-form design domains. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2015, 289, 267-290.	6.6	68
4	Shape optimization of Dirichlet boundaries based on weighted B-spline finite cell method and level-set function. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2015, 294, 359-383.	6.6	27
5	An adaptive bubble method for structural shape and topology optimization. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 360, 112778.	6.6	27
6	Micromechanical modeling of the effect of phase distribution topology on the plastic behavior of dual-phase steels. <i>Computational Materials Science</i> , 2019, 158, 243-254.	3.0	13
7	Fixed-grid hole-shape optimization for opening structures using smoothly deformable implicit curve. <i>Advances in Mechanical Engineering</i> , 2019, 11, 168781401982667.	1.6	2
8	Isogeometric Shape Optimization Method with Patch Removal for Holed Structures. <i>Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering</i> , 2013, 49, 150.	0.5	2
9	Isogeometric Analysis and Shape Optimization of Holed Structures via the Patch Removing Technique. <i>CMES - Computer Modeling in Engineering and Sciences</i> , 2020, 124, 787-806.	1.1	0
10	An Integrated Approach of Model Reconstruction, Stress Analysis and Optimization Design via Smoothly Deformable Implicit Curves. <i>Jisuanji Fuzhu Sheji Yu Tuxingxue Xuebao/Journal of Computer-Aided Design and Computer Graphics</i> , 2018, 30, 1765.	0.2	0