

Kuang-Hua Chang

List of Publications by Year in descending order

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53
papers

778
citations

623734

14
h-index

526287

27
g-index

53
all docs

53
docs citations

53
times ranked

486
citing authors

#	ARTICLE	IF	CITATIONS
1	A study of design velocity field computation for shape optimal design. Finite Elements in Analysis and Design, 1994, 15, 317-341.	3.2	128
2	Three-dimensional Modeling of Middle Ear Biomechanics and Its Applications. Otology and Neurotology, 2002, 23, 271-280.	1.3	93
3	Integration of topology and shape optimization for design of structural components. Structural and Multidisciplinary Optimization, 2001, 22, 65-82.	3.5	81
4	A Geometry-Based Parameterization Method for Shape Design of Elastic Solids*. Mechanics Based Design of Structures and Machines, 1992, 20, 215-252.	0.6	60
5	An advanced computer-aided geometric modeling and fabrication method for human middle ear. Medical Engineering and Physics, 2002, 24, 595-606.	1.7	55
6	Design Sensitivity Analysis and Optimization tool (DSO) for shape design applications. Computing Systems in Engineering: an International Journal, 1995, 6, 151-175.	0.5	41
7	Design parameterization and tool integration for CAD-based mechanism optimization. Advances in Engineering Software, 2006, 37, 779-796.	3.8	40
8	3D Shape Engineering and Design Parameterization. Computer-Aided Design and Applications, 2011, 8, 681-692.	0.6	38
9	SHAPE DESIGN SENSITIVITY ANALYSIS AND OPTIMIZATION FOR STRUCTURAL DURABILITY. International Journal for Numerical Methods in Engineering, 1997, 40, 1719-1743.	2.8	24
10	A Multilevel Product Model for Simulation-Based Design of Mechanical Systems. Concurrent Engineering Research and Applications, 1998, 6, 131-144.	3.2	20
11	Shape optimization of heavy load carrying components for structural performance and manufacturing cost. Structural and Multidisciplinary Optimization, 2006, 31, 344-354.	3.5	20
12	An Advanced Approach for Computer Modeling and Prototyping of the Human Tooth. Annals of Biomedical Engineering, 2003, 31, 621-631.	2.5	17
13	Shape Sensitivity Analysis for 2D Mixed Mode Fractures Using Extended FEM (XFEM) and Level Set Method (LSM)#. Mechanics Based Design of Structures and Machines, 2010, 38, 328-347.	4.7	16
14	An interactive post-processor for structural design sensitivity analysis and optimization: Sensitivity display and what-if study. Computers and Structures, 1990, 35, 1-13.	4.4	15
15	Design Parameterization for Concurrent Design and Manufacturing of Mechanical Systems. Concurrent Engineering Research and Applications, 2002, 10, 3-14.	3.2	14
16	Shape optimization for 2-D mixed-mode fracture using Extended FEM (XFEM) and Level Set Method (LSM). Structural and Multidisciplinary Optimization, 2011, 44, 165-181.	3.5	11
17	Shape Design Sensitivity and Optimization Using P-Version Design Modeling and Finite Element Analysis*. Mechanics Based Design of Structures and Machines, 1997, 25, 103-137.	0.6	10
18	Rapid Prototyping. , 2015, , 743-786.		8

#	ARTICLE	IF	CITATIONS
19	DESIGN FOR SAFETY OF RECREATIONAL WATER SLIDES*. Mechanics Based Design of Structures and Machines, 2001, 29, 261-294.	0.6	7
20	Concurrent design and manufacturing of aircraft torque tubes. Journal of Materials Processing Technology, 2004, 150, 151-162.	6.3	7
21	An Integrated Testbed for Reverse Engineering of Aging Systems and Components. Computer-Aided Design and Applications, 2006, 3, 21-30.	0.6	7
22	Continuum-based sensitivity analysis for coupled atomistic and continuum simulations for 2-D applications using bridging scale decomposition. Structural and Multidisciplinary Optimization, 2013, 47, 867-892.	3.5	7
23	Sensitivity Analysis for Coupled Atomistic and Continuum Simulations Using Bridging Scale Decomposition. Mechanics Based Design of Structures and Machines, 2012, 40, 292-333.	4.7	5
24	Probabilistic structural durability prediction. AIAA Journal, 1998, 36, 628-637.	2.6	5
25	Shape design optimization of hyperelastic structures using a meshless method. AIAA Journal, 1999, 37, 990-997.	2.6	5
26	Rapid Prototyping for Large-Scale and Complex Assemblies. Computer-Aided Design and Applications, 2011, 8, 357-371.	0.6	4
27	Continuum-Based Shape Sensitivity Analysis for 2D Coupled Atomistic/Continuum Simulations Using Bridging Scale Decomposition. Mechanics Based Design of Structures and Machines, 2015, 43, 232-264.	4.7	4
28	Rapid Prototyping. , 2013, , 191-235.		3
29	Fatigue and Fracture Analysis. , 2013, , 205-273.		3
30	Design Optimization. , 2015, , 907-1000.		3
31	Continuum shape sensitivity analysis and what-if study for two-dimensional multi-scale crack propagation problems using bridging scale decomposition. Structural and Multidisciplinary Optimization, 2015, 51, 59-87.	3.5	3
32	Structural Design Sensitivity Analysis. , 2015, , 211-323.		3
33	Shape Design Optimization of CAD-Based Flume Section. , 2006, , .		2
34	Computer-Aided Modeling and Simulation for Recreational Waterslides#. Mechanics Based Design of Structures and Machines, 2007, 35, 229-243.	4.7	2
35	Shape sensitivity analysis and design studies for CAD flume sections. Structural and Multidisciplinary Optimization, 2008, 37, 91-106.	3.5	2
36	Structural Analysis. , 2015, , 325-390.		2

#	ARTICLE	IF	CITATIONS
37	Motion Analysis. , 2015, , 391-462.		2
38	Fatigue and Fracture Analysis. , 2015, , 463-521.		2
39	Design Optimization. , 2015, , 103-210.		2
40	Green tricycle design through experiential learning “an open courseware enriching engineering curriculum and entrepreneurship. Computer-Aided Design and Applications, 2017, 14, 823-832.	0.6	2
41	Concurrent Shape Optimization of Structural Components. , 2006, , .		1
42	Structural Analysis. , 2013, , 43-119.		1
43	Evaluation of Sheet Forming Simulation for an Integrated Reverse Engineering System. Computer-Aided Design and Applications, 2013, 10, 767-777.	0.6	1
44	Design Parameterization. , 2014, , 233-263.		1
45	Geometric Modeling. , 2015, , 41-124.		1
46	Shape Design Optimization of B-Spline-Based Flume Sections. , 2007, , .		0
47	Motion Analysis. , 2013, , 121-204.		0
48	Geometric Modeling. , 2014, , 39-123.		0
49	Design Parameterization. , 2015, , 233-263.		0
50	Structural Design Sensitivity Analysis. , 2015, , 1001-1103.		0
51	Formability Investigation of a Thin-wall Part of Double Curvature Using an Integrated Reverse Engineering Environment. Computer-Aided Design and Applications, 2016, 13, 63-76.	0.6	0
52	Shape sensitivity analysis for non-differentiable performance measures in multiscale crack propagation simulation using regression hybrid method. Mechanics Based Design of Structures and Machines, 2018, 46, 123-137.	4.7	0
53	Design sensitivity analysis of hyperelastic structures using a meshless method. AIAA Journal, 1998, 36, 618-627.	2.6	0