

Hongbing Fang

List of Publications by Year in descending order

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33
papers

1,220
citations

394286

19
h-index

434063

31
g-index

33
all docs

33
docs citations

33
times ranked

956
citing authors

#	ARTICLE	IF	CITATIONS
1	Global response approximation with radial basis functions. <i>Engineering Optimization</i> , 2006, 38, 407-424.	1.5	189
2	An Efficient Non-dominated Sorting Method for Evolutionary Algorithms. <i>Evolutionary Computation</i> , 2008, 16, 355-384.	2.3	94
3	Multiobjective crashworthiness optimization design of functionally graded foam-filled tapered tube based on dynamic ensemble metamodel. <i>Materials & Design</i> , 2014, 55, 747-757.	5.1	91
4	Modeling and optimization of foam-filled thin-walled columns for crashworthiness designs. <i>Finite Elements in Analysis and Design</i> , 2010, 46, 698-709.	1.7	89
5	Optimal crashworthiness design of a spot-welded thin-walled hat section. <i>Finite Elements in Analysis and Design</i> , 2006, 42, 846-855.	1.7	88
6	Crashworthiness design of horsetail-bionic thin-walled structures under axial dynamic loading. <i>International Journal of Mechanics and Materials in Design</i> , 2016, 12, 563-576.	1.7	79
7	Finite element analysis of the Advanced Combat Helmet under various ballistic impacts. <i>International Journal of Impact Engineering</i> , 2018, 112, 125-143.	2.4	59
8	Reliability analysis of tunnels using a metamodeling technique based on augmented radial basis functions. <i>Tunnelling and Underground Space Technology</i> , 2016, 56, 45-53.	3.0	42
9	Reliability analysis of tunnels using an adaptive RBF and a first-order reliability method. <i>Computers and Geotechnics</i> , 2018, 98, 144-152.	2.3	40
10	Multi-objective robust optimization of foam-filled tapered multi-cell thin-walled structures. <i>Structural and Multidisciplinary Optimization</i> , 2015, 52, 1051-1067.	1.7	37
11	Design optimization of a MASH TL-3 concrete barrier using RBF-based metamodels and nonlinear finite element simulations. <i>Engineering Structures</i> , 2016, 114, 122-134.	2.6	34
12	On a multi-scale finite element model for evaluating ballistic performance of multi-ply woven fabrics. <i>Composite Structures</i> , 2019, 207, 488-508.	3.1	32
13	A numerical study of steel and hybrid armor plates under ballistic impacts. <i>International Journal of Solids and Structures</i> , 2018, 136-137, 279-294.	1.3	31
14	An adaptive RBF-based multi-objective optimization method for crashworthiness design of functionally graded multi-cell tube. <i>Structural and Multidisciplinary Optimization</i> , 2016, 53, 129-144.	1.7	28
15	On the effectiveness of assessing model accuracy at design points for radial basis functions. <i>Communications in Numerical Methods in Engineering</i> , 2006, 24, 219-235.	1.3	27
16	Design optimization of a new W-beam guardrail for enhanced highway safety performance. <i>Advances in Engineering Software</i> , 2017, 112, 154-164.	1.8	27
17	Crash analysis and evaluation of cable median barriers on sloped medians using an efficient finite element model. <i>Advances in Engineering Software</i> , 2015, 82, 1-13.	1.8	26
18	On the ensemble of metamodels with multiple regional optimized weight factors. <i>Structural and Multidisciplinary Optimization</i> , 2018, 58, 245-263.	1.7	26

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19	An efficient FE model of slender members for crash analysis of cable barriers. <i>Engineering Structures</i> , 2013, 52, 240-256.	2.6	24
20	A numerical study of occupant responses and injuries in vehicular crashes into roadside barriers based on finite element simulations. <i>Advances in Engineering Software</i> , 2015, 90, 22-40.	1.8	21
21	A constitutive model of aluminum foam for crash simulations. <i>International Journal of Non-Linear Mechanics</i> , 2017, 90, 124-136.	1.4	20
22	Nitsche's method for non-conforming multipatch coupling in hyperelastic isogeometric analysis. <i>Computational Mechanics</i> , 2020, 65, 687-710.	2.2	20
23	Application of Micro-GA for optimal cost base isolation design of bridges subject to transient earthquake loads. <i>Structural and Multidisciplinary Optimization</i> , 2010, 41, 765-777.	1.7	19
24	Crash analysis and evaluation of vehicular impacts on W-beam guardrails placed on sloped medians using finite element simulations. <i>Advances in Engineering Software</i> , 2017, 112, 88-100.	1.8	19
25	A numerical and experimental study of woven fabric material under ballistic impacts. <i>Advances in Engineering Software</i> , 2016, 96, 14-28.	1.8	15
26	Crash analysis and evaluation of vehicular impacts on W-beam guardrails placed behind curbs using finite element simulations. <i>Advances in Engineering Software</i> , 2017, 114, 85-97.	1.8	13
27	HiPPO: An Object-Oriented Framework for General-Purpose Design Optimization. <i>Journal of Aerospace Computing, Information, and Communication</i> , 2005, 2, 490-506.	0.8	10
28	An adaptive high-dimensional model representation method for reliability analysis of geotechnical engineering problems. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2020, 44, 1705-1723.	1.7	8
29	Identification of material parameters for McGinty's model using adaptive RBFs and optimization. <i>Structural and Multidisciplinary Optimization</i> , 2010, 42, 233-242.	1.7	4
30	A numerical study of strong-post double-faced W-beam and Thrie-beam guardrails under impacts of vehicles of multiple size classes. <i>Accident Analysis and Prevention</i> , 2021, 159, 106286.	3.0	4
31	Reliability analysis of concrete barriers under vehicular crashes using augmented RBFs. <i>Structural and Multidisciplinary Optimization</i> , 2020, 61, 1215-1228.	1.7	3
32	A Probability-Based Approach for Assessment of Concrete Median Barriers. , 2018, , .		1
33	Reliability Based Design Optimization of a MASH TL-3 Concrete Barrier. , 2018, , .		0