Abdelkhalak El Hami

List of Publications by Year
in descending order

68	554	759233	794594
papers	citations	12 h-index	19 g-index

81	81	81	291
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A robust method for the reliability-based design optimization of shape memory alloy actuator. Mechanics Based Design of Structures and Machines, 2023, 51, 1563-1581.	4.7	4
2	An efficient reliability-based design optimization study for PCM-based heat-sink used for cooling electronic devices. Mechanics of Advanced Materials and Structures, 2022, 29, 1661-1673.	2.6	21
3	Parametric Study for PCM-Based Heat Sinks: A Numerical Investigation. Applied Condition Monitoring, 2022, , 87-95.	0.4	0
4	Uncertainty Analysis Based on Kriging Meta-Model for Acoustic-Structural Problems. Applied Sciences (Switzerland), 2022, 12, 1503.	2.5	6
5	Advanced Reliability Analysis of Mechatronic Packagings coupling ANSYS^{Â©} and R. International Journal for Simulation and Multidisciplinary Design Optimization, 2022, 13, 7.	1.1	3
6	Uncertainty analysis using generalized Polynomial Chaos for the identification of structural constraining fixtures. Journal of Sound and Vibration, 2022, 530, 116929.	3.9	1
7	Optimal reliable design of brake disk using a Kriging surrogate model. Mechanics of Advanced Materials and Structures, 2022, 29, 7569-7578.	2.6	6
8	A novel approach based on meta-modeling technique and time transformation function for reliability analysis of upgraded automotive components. Reliability Engineering and System Safety, 2021, 207, 107357.	8.9	1
9	Thermal reliability-based design optimization using Kriging model of PCM based pin fin heat sink. International Journal of Heat and Mass Transfer, 2021, 166, 120745.	4.8	48
10	An approach for the reliability-based design optimization of shape memory alloy structure. Mechanics Based Design of Structures and Machines, 2021, 49, 155-171.	4.7	15
11	Reliability based design optimization applied to the high electron mobility transistor (HEMT). Microelectronics Reliability, 2021, 124, 114299.	1.7	9
12	An efficient optimization based on the robust hybrid method for the coupled acousticâ€“structural system. Mechanics of Advanced Materials and Structures, 2020, 27, 1816-1826.	2.6	23
13	Design optimization of PCM-based finned heat sinks for mechatronic components: A numerical investigation and parametric study. Journal of Energy Storage, 2020, 32, 101960.	8.1	36
14	Multiobjective aerodynamic shape optimization of NACA0012 airfoil based mesh morphing. International Journal for Simulation and Multidisciplinary Design Optimization, 2020, 11, 11.	1.1	6
15	Multi-objective reliability based design optimization using Kriging surrogate model for cementless hip prosthesis. Computer Methods in Biomechanics and Biomedical Engineering, 2020, 23, 854-867.	1.6	18
16	Surrogate models for uncertainty analysis of micro-actuator. Microsystem Technologies, 2020, 26, 2589-2600.	2.0	10
17	Dynamic response analysis of Darrieus wind turbine geared transmission system with unsteady wind inflow. Renewable Energy, 2019, 131, 482-493.	8.9	10
18	Multi-objective reliability based design optimization of coupled acoustic-structural system. Engineering Structures, 2019, 197, 109389.	5.3	15

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19	An Approach to Systems-of-Systems Structural Analysis through Interoperability Assessment: Application on Moroccan Case. International Journal of Engineering Research in Africa, 2019, 41, 175-189.	0.7	1
20	Reliability analysis of tape based chip-scale packages based metamodel. Microelectronics Reliability, 2019, 102, 113445.	1.7	7
21	CFD Analysis and Shape Optimization of NACA0012 Airfoil for Different Mach Numbers. , 2019, , .		1
22	Metamodel assisted evolution strategies for global optimization of solder joints reliability in embedded mechatronic devices. Microsystem Technologies, 2019, 25, 3801-3812.	2.0	5
23	A study of an adaptive approach for systems-of-systems integration. International Journal of System of Systems Engineering, 2019, 9, 1.	0.5	0
24	Optimization of solder joints in embedded mechatronic systems via Kriging-assisted CMA-ES algorithm. International Journal for Simulation and Multidisciplinary Design Optimization, 2019, 10, A3.	1.1	10
25	Resilience assessment as a foundation for systems-of-systems safety evaluation: Application to an economic infrastructure. Safety Science, 2019, 115, 446-456.	4.9	10
26	Reliability-based Design Optimization. , 2019, , 1-27.		0
27	Multi-objective Optimization in Fluidâ€“Structure Interaction. , 2019, , 217-249.		0
28	Reliability Based Design Optimization of Shape Memory Alloy. Applied Condition Monitoring, 2019, , 247-256.	0.4	0
29	A Numerical Parametric Analysis for the Distribution of Fins Using Phase Change Material (PCM). Applied Condition Monitoring, 2019, , 129-135.	0.4	0
30	Uncertainty of shape memory alloy micro-actuator using generalized polynomial chaos method. Microsystem Technologies, 2019, 25, 1505-1517.	2.0	2
31	Effect of number of blades on the dynamic behavior of a Darrieus turbine geared transmission system. Mechanical Systems and Signal Processing, 2019, 121, 562-578.	8.0	21
32	Uncertainty analysis of an actuator for a shape memory alloy micro-pump with uncertain parameters. Advances in Engineering Software, 2018, 122, 22-30.	3.8	12
33	Cooling of Circuit Boards Using Natural Convection. Lecture Notes in Mechanical Engineering, 2018, , 969-973.	0.4	0
34	A deterministic approach for systems-of-systems resilience quantification. International Journal of Critical Infrastructures, 2018, 14, 80.	0.2	11
35	A new methodology to design a reliable product based on warranty financial data. , 2018, , .		0
36	Unstructured Peer-to-Peer Systems: Towards Swift Routing. International Journal of Engineering and Technology(UAE), 2018, 7, 33.	0.3	12

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37	CMA evolution strategy assisted by kriging model and approximate ranking. Applied Intelligence, 2018, 48, 4288-4304.	5.3	18
38	A Polynomial Chaos Method for the Analysis of the Dynamic Response of a Gear Friction System. Lecture Notes in Mechanical Engineering, 2018, , 893-898.	0.4	1
39	Optimization of the Solder Joints of an Electronic Card Using Heuristic Algorithm. International Journal of Engineering Research in Africa, 2017, 30, 39-48.	0.7	0
40	Metamodel-based inverse method for parameter identification: elasticâ€“plastic damage model. Engineering Optimization, 2017, 49, 633-653.	2.6	11
41	Dynamic vibrations in wind energy systems: Application to vertical axis wind turbine. Mechanical Systems and Signal Processing, 2017, 85, 396-414.	8.0	43
42	Vibratory Reliability Analysis of an Aircraftâ€™s Wing via Fluidâ€“Structure Interactions. Aerospace, 2017, 4, 40.	2.2	6
43	Study on the Thermomechanical Fatigue of Electronic Power Modules for Traction Applications in Electric and Hybrid Vehicles (IGBT). , 2017, , 213-251.		3
44	Estimation of Fatigue Damage of a Control Board Subjected to Random Vibration. , 2017, , 187-211.		1
45	Edge Effect on Nanoparticles of an Interconnect Alloy from the ABV Model. Journal of Physics: Conference Series, 2017, 936, 012053.	0.4	0
46	RBDO analysis of the aircraft wing based aerodynamic behavior. Structural Engineering and Mechanics, 2017, 61, 441-451.	1.0	4
47	Backtracking search algorithm for multi-objective design optimisation. International Journal of Mathematical Modelling and Numerical Optimisation, 2017, 8, 93.	0.2	2
48	Vers des systÃ¨mes de systÃ¨mes robustes. Incertitudes Et FiabilitÃ© Des SystÃ¨mes Multiphysiques, 2017, 17, .	0.3	1
49	Uncertainty analysis of one stage gear system using interval analysis method. , 2016, , .		4
50	Backtracking search optimization algorithm for fluid-structure interaction problems. , 2016, , .		0
51	Uncertainty analysis of deep drawing using surrogate model based probabilistic method. International Journal of Advanced Manufacturing Technology, 2016, 86, 3229-3240.	3.0	39
52	Measurements and Stochastic FEA with Application in Thermomechanical Characterization of Electronic Packages. Journal of Engineering and Technological Sciences, 2016, 48, 700-714.	0.6	3
53	A New Hybrid Simulated Annealing Algorithm for Large Scale Global Optimization. International Journal of Manufacturing, Materials, and Mechanical Engineering, 2015, 5, 24-36.	0.4	0
54	Electrostriction study for single-walled carbon nanotubes-based composite. Advanced Composite Materials, 2015, 24, 399-410.	1.9	3

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55	Random Material's Characteristics to Study Fluidâ€Structure Interaction. Macromolecular Symposia, 2014, 340, 9-17.	0.7	1
56	WSN's modeling for a smart building application. , 2014, , .		6
57	Mechanical Properties Investigation of Single-Walled Carbon Nanotube Using Finite Element Method. Key Engineering Materials, 2013, 550, 179-187.	0.4	1
58	Nanoscale Numerical and Reliability Method for Nano-Cantilever. Key Engineering Materials, 2013, 550, 189-195.	0.4	0
59	Correlating Piezoelectric Polymer/Carbon Nanotubes Nanocomposite Strain Sensor with Reliability and Optimization Tools. Applied Mechanics and Materials, 2011, 146, 137-146.	0.2	1
60	Stochastic and reliability analysis of fluidâ€structure interaction problems using finite element models. Multidiscipline Modeling in Materials and Structures, 2010, 6, 6-22.	1.3	7
61	Stochastic and reliability analysis of a propeller with model reduction. European Journal of Computational Mechanics, 2009, 18, 195-215.	0.6	6
62	Vibroacoustic Analysis of Cyclic Structures by Using Dofâ€™s Size Reduction and Holographic Measurements. Shock and Vibration, 2006, 13, 355-366.	0.6	5
63	Holographic vibration measurement and numerical modelling of immersed structures. , 2006, , .		1
64	Predicting the Reliability of Aligned Carbon Nanotube Bundles in Mechanical Structures. Applied Mechanics and Materials, 0, 146, 124-129.	0.2	1
65	Safety and Reliability of Carbon Nanotubes in Nanoactuator Application. Applied Mechanics and Materials, 0, 146, 130-136.	0.2	0
66	Reliability Based Design Optimization for Selective Excitation of the Vibration Modes of a Cantilever Spring. Key Engineering Materials, 0, 498, 102-114.	0.4	0
67	Hybrid Evolutionary Optimization Algorithm for Structures. Advanced Materials Research, 0, 1099, 102-109.	0.3	3
68	Dynamic response of a spur gear system with uncertain parameters. Journal of Theoretical and Applied Mechanics, 0, , 1039.	0.5	6