

# Abdelkhalak El Hami

## List of Publications by Year in descending order

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68  
papers

554  
citations

759233

12  
h-index

794594

19  
g-index

81  
all docs

81  
docs citations

81  
times ranked

291  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Dynamic vibrations in wind energy systems: Application to vertical axis wind turbine. Mechanical Systems and Signal Processing, 2017, 85, 396-414.	8.0	43
3	Uncertainty analysis of deep drawing using surrogate model based probabilistic method. International Journal of Advanced Manufacturing Technology, 2016, 86, 3229-3240.	3.0	39
4	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
5	An efficient optimization based on the robust hybrid method for the coupled acoustic-structural system. Mechanics of Advanced Materials and Structures, 2020, 27, 1816-1826.	2.6	23
6	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
7	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
8	CMA evolution strategy assisted by kriging model and approximate ranking. Applied Intelligence, 2018, 48, 4288-4304.	5.3	18
9	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
10	Multi-objective reliability based design optimization of coupled acoustic-structural system. Engineering Structures, 2019, 197, 109389.	5.3	15
11	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
12	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
13	Unstructured Peer-to-Peer Systems: Towards Swift Routing. International Journal of Engineering and Technology(UAE), 2018, 7, 33.	0.3	12
14	Metamodel-based inverse method for parameter identification: elastic-plastic damage model. Engineering Optimization, 2017, 49, 633-653.	2.6	11
15	A deterministic approach for systems-of-systems resilience quantification. International Journal of Critical Infrastructures, 2018, 14, 80.	0.2	11
16	Dynamic response analysis of Darrieus wind turbine geared transmission system with unsteady wind inflow. Renewable Energy, 2019, 131, 482-493.	8.9	10
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	Surrogate models for uncertainty analysis of micro-actuator. <i>Microsystem Technologies</i> , 2020, 26, 2589-2600.	2.0	10
20	Reliability based design optimization applied to the high electron mobility transistor (HEMT). <i>Microelectronics Reliability</i> , 2021, 124, 114299.	1.7	9
21	Stochastic and reliability analysis of fluid-structure interaction problems using finite element models. <i>Multidiscipline Modeling in Materials and Structures</i> , 2010, 6, 6-22.	1.3	7
22	Reliability analysis of tape based chip-scale packages based metamodel. <i>Microelectronics Reliability</i> , 2019, 102, 113445.	1.7	7
23	Stochastic and reliability analysis of a propeller with model reduction. <i>European Journal of Computational Mechanics</i> , 2009, 18, 195-215.	0.6	6
24	WSN's modeling for a smart building application. , 2014, , .		6
25	Vibratory Reliability Analysis of an Aircraft's Wing via Fluid-Structure Interactions. <i>Aerospace</i> , 2017, 4, 40.	2.2	6
26	Multiobjective aerodynamic shape optimization of NACA0012 airfoil based mesh morphing. <i>International Journal for Simulation and Multidisciplinary Design Optimization</i> , 2020, 11, 11.	1.1	6
27	Dynamic response of a spur gear system with uncertain parameters. <i>Journal of Theoretical and Applied Mechanics</i> , 0, , 1039.	0.5	6
28	Uncertainty Analysis Based on Kriging Meta-Model for Acoustic-Structural Problems. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 1503.	2.5	6
29	Optimal reliable design of brake disk using a Kriging surrogate model. <i>Mechanics of Advanced Materials and Structures</i> , 2022, 29, 7569-7578.	2.6	6
30	Vibroacoustic Analysis of Cyclic Structures by Using DoF's Size Reduction and Holographic Measurements. <i>Shock and Vibration</i> , 2006, 13, 355-366.	0.6	5
31	Metamodel assisted evolution strategies for global optimization of solder joints reliability in embedded mechatronic devices. <i>Microsystem Technologies</i> , 2019, 25, 3801-3812.	2.0	5
32	Uncertainty analysis of one stage gear system using interval analysis method. , 2016, , .		4
33	A robust method for the reliability-based design optimization of shape memory alloy actuator. <i>Mechanics Based Design of Structures and Machines</i> , 2023, 51, 1563-1581.	4.7	4
34	RBDO analysis of the aircraft wing based aerodynamic behavior. <i>Structural Engineering and Mechanics</i> , 2017, 61, 441-451.	1.0	4
35	Hybrid Evolutionary Optimization Algorithm for Structures. <i>Advanced Materials Research</i> , 0, 1099, 102-109.	0.3	3
36	Electrostriction study for single-walled carbon nanotubes-based composite. <i>Advanced Composite Materials</i> , 2015, 24, 399-410.	1.9	3

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37	Study on the Thermomechanical Fatigue of Electronic Power Modules for Traction Applications in Electric and Hybrid Vehicles (IGBT). , 2017, , 213-251.		3
38	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
39	Advanced Reliability Analysis of Mechatronic Packagings coupling ANSYS <sup>®</sup> and R. International Journal for Simulation and Multidisciplinary Design Optimization, 2022, 13, 7.	1.1	3
40	Uncertainty of shape memory alloy micro-actuator using generalized polynomial chaos method. Microsystem Technologies, 2019, 25, 1505-1517.	2.0	2
41	Backtracking search algorithm for multi-objective design optimisation. International Journal of Mathematical Modelling and Numerical Optimisation, 2017, 8, 93.	0.2	2
42	Holographic vibration measurement and numerical modelling of immersed structures. , 2006, , .		1
43	Correlating Piezoelectric Polymer/Carbon Nanotubes Nanocomposite Strain Sensor with Reliability and Optimization Tools. Applied Mechanics and Materials, 2011, 146, 137-146.	0.2	1
44	Predicting the Reliability of Aligned Carbon Nanotube Bundles in Mechanical Structures. Applied Mechanics and Materials, 0, 146, 124-129.	0.2	1
45	Mechanical Properties Investigation of Single-Walled Carbon Nanotube Using Finite Element Method. Key Engineering Materials, 2013, 550, 179-187.	0.4	1
46	Random Material's Characteristics to Study Fluid-Structure Interaction. Macromolecular Symposia, 2014, 340, 9-17.	0.7	1
47	Estimation of Fatigue Damage of a Control Board Subjected to Random Vibration. , 2017, , 187-211.		1
48	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
49	CFD Analysis and Shape Optimization of NACA0012 Airfoil for Different Mach Numbers. , 2019, , .		1
50	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
51	Vers des systÃmes de systÃmes robustes. Incertitudes Et FiabilitÃ Des SystÃmes Multiphysiques, 2017, 17, .	0.3	1
52	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
53	Uncertainty analysis using generalized Polynomial Chaos for the identification of structural constraining fixtures. Journal of Sound and Vibration, 2022, 530, 116929.	3.9	1
54	Safety and Reliability of Carbon Nanotubes in Nanoactuator Application. Applied Mechanics and Materials, 0, 146, 130-136.	0.2	0

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55	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
56	Nanoscale Numerical and Reliability Method for Nano-Cantilever. Key Engineering Materials, 2013, 550, 189-195.	0.4	0
57	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
58	Backtracking search optimization algorithm for fluid-structure interaction problems. , 2016, , .		0
59	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
60	Edge Effect on Nanoparticles of an Interconnect Alloy from the ABV Model. Journal of Physics: Conference Series, 2017, 936, 012053.	0.4	0
61	Cooling of Circuit Boards Using Natural Convection. Lecture Notes in Mechanical Engineering, 2018, , 969-973.	0.4	0
62	A new methodology to design a reliable product based on warranty financial data. , 2018, , .		0
63	A study of an adaptive approach for systems-of-systems integration. International Journal of System of Systems Engineering, 2019, 9, 1.	0.5	0
64	Reliability-based Design Optimization. , 2019, , 1-27.		0
65	Multi-objective Optimization in Fluid-Structure Interaction. , 2019, , 217-249.		0
66	Reliability Based Design Optimization of Shape Memory Alloy. Applied Condition Monitoring, 2019, , 247-256.	0.4	0
67	A Numerical Parametric Analysis for the Distribution of Fins Using Phase Change Material (PCM). Applied Condition Monitoring, 2019, , 129-135.	0.4	0
68	Parametric Study for PCM-Based Heat Sinks: A Numerical Investigation. Applied Condition Monitoring, 2022, , 87-95.	0.4	0