Rafic Younes

List of Publications by Year
in descending order

100 papers	2,143 citations	279701 23 h-index	265120 42 g-index
105 all docs	105 docs citations	105 times ranked	2200 citing authors

#	Article	IF	Citations
1	Review of performance optimization techniques applied to wind turbines. Applied Energy, 2015, 142, 361-388.	5.1	270
2	Review and comparative study of analytical modeling for the elastic properties of textile composites. Composites Part B: Engineering, 2013, 50, 22-31.	5.9	112
3	A survey of landmine detection using hyperspectral imaging. ISPRS Journal of Photogrammetry and Remote Sensing, 2017, 124, 40-53.	4.9	112
4	Study and design of a hybrid wind–diesel-compressed air energy storage system for remote areas. Applied Energy, 2010, 87, 1749-1762.	5.1	98
5	Review of water-heating systems: General selection approach based on energy and environmental aspects. Building and Environment, 2014, 72, 259-286.	3.0	96
6	Improved analytical model to predict the effective elastic properties of 2.5D interlock woven fabrics composite. Composite Structures, 2012, 94, 3009-3028.	3.1	82
7	Smart Building: Use of the Artificial Neural Network Approach for Indoor Temperature Forecasting. Energies, 2018, 11, 395.	1.6	79
8	Optimization of diesel engine performances for a hybrid wind–diesel system with compressed air energy storage. Energy, 2011, 36, 3079-3091.	4.5	75
9	Air source heat pump water heater: Dynamic modeling, optimal energy management and mini-tubes condensers. Energy, 2014, 64, 1102-1116.	4.5	68
10	Review of recent trends in gas sensing technologies and their miniaturization potential. Sensor Review, 2014, 34, 24-35.	1.0	66
11	Hybrid cooling systems: A review and an optimized selection scheme. Renewable and Sustainable Energy Reviews, 2016, 65, 57-80.	8.2	52
12	Dimensionality reduction on hyperspectral images: A comparative review based on artificial datas. , 2011, , .		46
13	The effects of reflection coefficient of the harbour sidewall on the performance of floating breakwaters. Ocean Engineering, 2008, 35, 1102-1112.	1.9	45
14	A Constraint-Handling Technique for Genetic Algorithms using a Violation Factor. Journal of Computer Science, 2016, 12, 350-362.	0.5	45
15	Review of Optimization Methods for Cancer Chemotherapy Treatment Planning. Journal of Computer Science and Systems Biology, 2015, 8, .	0.0	40
16	Analytical and numerical modeling of mechanical properties of orthogonal 3D CFRP. Composites Science and Technology, 2009, 69, 111-116.	3.8	37
17	Electricity of Lebanon: Problems and Recommendations. Energy Procedia, 2012, 19, 310-320.	1.8	37
18	Energy status in Lebanon and electricity generation reform plan based on cost and pollution optimization. Renewable and Sustainable Energy Reviews, 2013, 20, 255-278.	8.2	36

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19	Optimal Control of a Variable Geometry Turbocharged Diesel Engine Using Neural Networks: Applications on the ETC Test Cycle. IEEE Transactions on Control Systems Technology, 2009, 17, 380-393.	3.2	33
20	Optimal management of compressed air energy storage in a hybrid wind-pneumatic-diesel system for remote area's power generation. Energy, 2015, 84, 267-278.	4.5	30
21	Study of a Hybrid Wind-Diesel System with Compressed Air Energy Storage. , 2007, , .		27
22	A Selection Process for Genetic Algorithm Using Clustering Analysis. Algorithms, 2017, 10, 123.	1.2	27
23	Review of Vibration Control Methods for Wind Turbines. Energies, 2021, 14, 3058.	1.6	27
24	Structural reliability software and calculation tools: a review. Innovative Infrastructure Solutions, 2020, 5, 1.	1.1	26
25	Oriented review to potential simulator for faults modeling in diesel engine. Journal of Marine Science and Technology, 2016, 21, 533-551.	1.3	23
26	Potential of a Hybrid Wind-Diesel-Compressed air system for Nordic Remote Canadian Areas. Energy Procedia, 2011, 6, 795-804.	1.8	22
27	Pneumatic hybridization of a diesel engine using compressed air storage for wind-diesel energy generation. Energy, 2012, 38, 264-275.	4.5	22
28	Optimal weaving for 2.5D interlocks. Composite Structures, 2011, 93, 1255-1264.	3.1	20
29	Optimization of coastal structures: Application on detached breakwaters in ports. Ocean Engineering, 2013, 63, 35-43.	1.9	19
30	Hyperspectral imaging applied for the detection of wind turbine blade damage and icing. Remote Sensing Applications: Society and Environment, 2020, 18, 100291.	0.8	19
31	Optimal management proposal for hybrid water heating system. Energy and Buildings, 2014, 75, 342-357.	3.1	18
32	A new hybrid pneumatic combustion engine to improve fuel consumption of windâ€"Diesel power system for non-interconnected areas. Applied Energy, 2012, 96, 459-476.	5.1	17
33	Complete modeling for systems of a marine diesel engine. Journal of Marine Science and Application, 2015, 14, 93-104.	0.7	17
34	Muscle force estimation using data fusion from high-density SEMG grid. , 2013, , .		16
35	Forces, activation and displacement prediction during free movement in the hand and forearm. Journal of Field Robotics, 2005, 22, 653-660.	0.7	14
36	Design optimization of floating breakwaters with an interdisciplinary fluidâ€"solid structural problem. Canadian Journal of Civil Engineering, 2009, 36, 1732-1743.	0.7	14

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37	On the design of a preshaped curved beam bistable mechanism. Mechanism and Machine Theory, 2019, 131, 204-217.	2.7	14
38	Neural networks for real‐time nonlinear control of a variable geometry turbocharged diesel engine. International Journal of Robust and Nonlinear Control, 2008, 18, 1209-1229.	2.1	13
39	Multi-variable optimization for future electricity-plan scenarios in Lebanon. Energy Policy, 2013, 58, 49-56.	4.2	12
40	Modeling with Fault Integration of the Cooling and the Lubricating Systems in Marine Diesel Engine: Experimental validation. IFAC-PapersOnLine, 2016, 49, 570-575.	0.5	12
41	Wind turbine blade defect detection using hyperspectral imaging. Remote Sensing Applications: Society and Environment, 2021, 22, 100522.	0.8	12
42	Fuel consumption evaluation of an optimized new hybrid pneumatic€"combustion vehicle engine on several driving cycles. International Journal of Engine Research, 2012, 13, 253-273.	1.4	11
43	OPTIMAL DESIGN FOR A COMPOSITE WIND TURBINE BLADE WITH FATIGUE AND FAILURE CONSTRAINTS. Transactions of the Canadian Society for Mechanical Engineering, 2015, 39, 171-186.	0.3	11
44	On the use of COMSOL Multiphysics for seawater intrusion in fractured coastal aquifers. E3S Web of Conferences, 2018, 54, 00020.	0.2	11
45	Hydro-pneumatic storage for wind-diesel electricity generation in remote sites. Applied Energy, 2018, 231, 1159-1178.	5.1	11
46	Progress in Experimental and Theoretical Evaluation Methods for Textile Permeability. Journal of Composites Science, 2019, 3, 73.	1.4	11
47	Survey of research on the optimal design of sea harbours. International Journal of Naval Architecture and Ocean Engineering, 2017, 9, 460-472.	1.0	10
48	Wind Turbine Design: Multi‐Objective Optimization. , 0, , .		9
49	Modeling and simulation of the thermodynamic cycle of the Diesel Engine using Neural Networks. IFAC-PapersOnLine, 2016, 49, 221-226.	0.5	9
50	Progress to global strategy for management of energy systems. Journal of Building Engineering, 2018, 20, 303-316.	1.6	9
51	Parametrical and Motion Analysis of a Moored Rectangular Floating Breakwater. Journal of Offshore Mechanics and Arctic Engineering, 2009, 131, .	0.6	8
52	New Indicated Mean Effective Pressure (IMEP) model for predicting crankshaft movement. Energy Conversion and Management, 2011, 52, 3376-3382.	4.4	8
53	Proposition, identification, and experimental evaluation of an inverse dynamic neuromusculoskeletal model for the human finger. Computers in Biology and Medicine, 2015, 63, 64-73.	3.9	8
54	Genetic Algorithm for Dynamic Calibration of Engine's Actuators. , 2007, , .		7

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55	Required time response of a variable valve actuator equiping a hybrid pneumaticâ€"combustion engine. International Journal of Engine Research, 2012, 13, 514-528.	1.4	7
56	On the formulation of optimization problems under uncertainty in mechanical design. International Journal on Interactive Design and Manufacturing, 2019, 13, 75-87.	1.3	7
57	Stability of Dimensionality Reduction Methods Applied on Artificial Hyperspectral Images. Lecture Notes in Computer Science, 2012, , 465-474.	1.0	6
58	Macro Flat-Plate Solar Thermal Collector With Rectangular Channels. Journal of Solar Energy Engineering, Transactions of the ASME, 2018, 140, .	1.1	6
59	Optimized Active Control of a Smart Cantilever Beam Using Genetic Algorithm. Designs, 2022, 6, 36.	1.3	6
60	Evaluation of Longitudinal and Transversal Youngâ€™s Moduli for Unidirectional Composite Material with Long Fibers. Advanced Materials Research, 0, 324, 189-192.	0.3	5
61	New Optical Gas Sensor for Gas Concentration Measurement Using Digital Image Processing. Sensors and Actuators B: Chemical, 2015, 207, 321-329.	4.0	5
62	Multicriteria classification method for dimensionality reduction adapted to hyperspectral images. Journal of Applied Remote Sensing, 2017, 11, 025001.	0.6	5
63	PHYSIOLOGICAL AND BIOMECHANICAL APPROACH FOR HUMAN FINGER MOVEMENT: MODELING, SIMULATION AND EXPERIMENTAL VALIDATION. Journal of Mechanics in Medicine and Biology, 2014, 14, 1450040.	0.3	4
64	Speed control of automotive diesel engines. International Journal of Control, 2014, 87, 812-826.	1.2	4
65	Determination of the Optimal Order of Grey-Box Models for Short-Time Prediction of Buildingsâ€™ Thermal Behavior. Buildings, 2019, 9, 198.	1.4	4
66	Numerical Simulation of Solar Absorption Machine. Energy Procedia, 2011, 6, 130-135.	1.8	3
67	Proposal for preservation criteria to rare event. Application on multispectral/hyperspectral images. , 2013, , .		3
68	Progress in energy generation for Canadian remote sites. AIP Conference Proceedings, 2016, , .	0.3	3
69	Classification algorithms for landmine detection using hyperspectral imaging. , 2017, , .		3
70	Homogenization Method to Calculate the Stiffness Matrix of Laminated Composites. Eng, 2021, 2, 416-434.	1.2	3
71	New Geometrical Modelling for 2D Fabric and 2.5D Interlock Composites. Textiles, 2022, 2, 142-161.	1.8	3
72	Optimisation du tissage de composites orthogonaux 3D. Comptes Rendus - Mecanique, 2008, 336, 704-713.	2.1	2

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73	A linear approach with &#x03BC;-analysis control adaptation for a complete-model diesel-engine diagnosis. , 2009, , .		2
74	Optimal Design of an Hybrid Wind-Diesel System with Compressed Air Energy Storage for Canadian Remote Areas. , 0, , .		2
75	Potential of hybridization methods to reducing the dimensionality for multispectral biological images. , 2013, 2013, 6458-61.		2
76	Landmines. , 2017, , .		2
77	Improved Model for Calculating Instantaneous Efficiency of Flat-Plate Solar Thermal Collector. Journal of Heat Transfer, 2018, 140, .	1.2	2
78	Improvement in failure prediction algorithm for textile composites. International Journal of Damage Mechanics, 2018, 27, 3-31.	2.4	2
79	Use of genetic optimization in parameter identification of reinforced concrete bridge girders. Innovative Infrastructure Solutions, 2020, 5, 1.	1.1	2
80	Landmine detection in hyperspectral images based on pixel intensity. Remote Sensing Applications: Society and Environment, 2021, 21, 100468.	0.8	2
81	Optimisation of Breakwaters Design to Protect Offshore Terminal Area. , 2014, , .		2
82	Numerical Modelling of Floating Breakwaters and Shape Optimization Using a Nonlinear Programming Method. , 2007, , 235.		1
83	Optimization of the In-Air Cylinders Filling for Emissions Reduction in Diesel Engines. , 2008, , .		1
84	Comparative study of the optimization theory for cancer treatment. , 2011, , .		1
85	A new multi-hybrid power sytem for grid-disconnected areas Wind — Diesel — Compressed Air Energy Storage. , 2012, , .		1
86	Improvement of Galtonâ€"Watson Branching Process (GWBP) for Mathematical Optimization of Cancer Treatment. APCBEE Procedia, 2013, 7, 182-188.	0.5	1
87	Dimension reduction of hyperspectral image with rare event preserving. , 2015, , .		1
88	Dimension Reduction of Hyperspectral Image with Rare Event Preserving. Lecture Notes in Computer Science, 2015, , 621-629.	1.0	1
89	Time-dependent reliability analysis for a set of RC T-beam bridges under realistic traffic considering creep and shrinkage. European Journal of Environmental and Civil Engineering, 0, , 1-25.	1.0	1
90	Calibration of the Parameters of a Model of an Engineering System Using the Global Optimization Method. International Journal of Applied Evolutionary Computation, 2014, 5, 14-41.	0.7	1

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91	TIME-DEPENDENT RELIABILITY ANALYSIS OF REINFORCED-CONCRETE BRIDGES UNDER THE COMBINED EFFECT OF CORROSION, CREEP AND SHRINKAGE. WIT Transactions on the Built Environment, 2017, , .	0.0	1
92	Study of Uncertainties and Objective Function Modeling Effects on Probabilistic Optimization Results. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering, 2019, 5, .	0.7	1
93	A Nonlinear Approach with Gain Schedule Control Adaptation for a Complete-Model Diesel-Engine Diagnosis. , 2008, , .		0
94	Reply to the discussion by Cohen et al. on â€œDesign optimization of floating breakwaters with an interdisciplinary fluidâ€"solid structural problemâ€Appears in the Canadian Journal of Civil Engineering, 36(11): 1732â€"1743.. Canadian Journal of Civil Engineering, 2010, 37, 1649-1650.	0.7	0
95	Complete-model diesel-engine diagnosis using gain schedule-mu analysis and non-linear estimator. , 2012, , .		0
96	Improvement of Markov chain processes for mathematical optimization of cancer treatment. , 2014, , .		0
97	RBF Neural Network for Landmine Detection in H Yperspectral Imaging. , 2018, , .		0
98	The influence of an improved hydrodynamic model on breakwaters design. , 2014, , .		0
99	Overview and Optimized Design for Energy Recovery Patents Applied to Hydraulic Systems. Advances in Computer and Electrical Engineering Book Series, 2019, , 256-285.	0.2	0
100	Wind turbine ice detection using hyperspectral imaging. Remote Sensing Applications: Society and Environment, 2022, 26, 100711.	0.8	0