

Rafic Younes

List of Publications by Year in descending order

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100
papers

2,143
citations

318942

23
h-index

299063

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105
all docs

105
docs citations

105
times ranked

2471
citing authors

#	ARTICLE	IF	CITATIONS
1	New Geometrical Modelling for 2D Fabric and 2.5D Interlock Composites. <i>Textiles</i> , 2022, 2, 142-161.	1.8	3
2	Optimized Active Control of a Smart Cantilever Beam Using Genetic Algorithm. <i>Designs</i> , 2022, 6, 36.	1.3	6
3	Wind turbine ice detection using hyperspectral imaging. <i>Remote Sensing Applications: Society and Environment</i> , 2022, 26, 100711.	0.8	0
4	Landmine detection in hyperspectral images based on pixel intensity. <i>Remote Sensing Applications: Society and Environment</i> , 2021, 21, 100468.	0.8	2
5	Wind turbine blade defect detection using hyperspectral imaging. <i>Remote Sensing Applications: Society and Environment</i> , 2021, 22, 100522.	0.8	12
6	Review of Vibration Control Methods for Wind Turbines. <i>Energies</i> , 2021, 14, 3058.	1.6	27
7	Homogenization Method to Calculate the Stiffness Matrix of Laminated Composites. <i>Eng</i> , 2021, 2, 416-434.	1.2	3
8	Use of genetic optimization in parameter identification of reinforced concrete bridge girders. <i>Innovative Infrastructure Solutions</i> , 2020, 5, 1.	1.1	2
9	Structural reliability software and calculation tools: a review. <i>Innovative Infrastructure Solutions</i> , 2020, 5, 1.	1.1	26
10	Hyperspectral imaging applied for the detection of wind turbine blade damage and icing. <i>Remote Sensing Applications: Society and Environment</i> , 2020, 18, 100291.	0.8	19
11	On the formulation of optimization problems under uncertainty in mechanical design. <i>International Journal on Interactive Design and Manufacturing</i> , 2019, 13, 75-87.	1.3	7
12	Progress in Experimental and Theoretical Evaluation Methods for Textile Permeability. <i>Journal of Composites Science</i> , 2019, 3, 73.	1.4	11
13	Determination of the Optimal Order of Grey-Box Models for Short-Time Prediction of Buildings' Thermal Behavior. <i>Buildings</i> , 2019, 9, 198.	1.4	4
14	On the design of a preshaped curved beam bistable mechanism. <i>Mechanism and Machine Theory</i> , 2019, 131, 204-217.	2.7	14
15	Overview and Optimized Design for Energy Recovery Patents Applied to Hydraulic Systems. <i>Advances in Computer and Electrical Engineering Book Series</i> , 2019, , 256-285.	0.2	0
16	Study of Uncertainties and Objective Function Modeling Effects on Probabilistic Optimization Results. <i>ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering</i> , 2019, 5, .	0.7	1
17	Improved Model for Calculating Instantaneous Efficiency of Flat-Plate Solar Thermal Collector. <i>Journal of Heat Transfer</i> , 2018, 140, .	1.2	2
18	Improvement in failure prediction algorithm for textile composites. <i>International Journal of Damage Mechanics</i> , 2018, 27, 3-31.	2.4	2

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19	RBF Neural Network for Landmine Detection in Hyperspectral Imaging. , 2018, , .		0
20	On the use of COMSOL Multiphysics for seawater intrusion in fractured coastal aquifers. E3S Web of Conferences, 2018, 54, 00020.	0.2	11
21	Hydro-pneumatic storage for wind-diesel electricity generation in remote sites. Applied Energy, 2018, 231, 1159-1178.	5.1	11
22	Macro Flat-Plate Solar Thermal Collector With Rectangular Channels. Journal of Solar Energy Engineering, Transactions of the ASME, 2018, 140, .	1.1	6
23	Progress to global strategy for management of energy systems. Journal of Building Engineering, 2018, 20, 303-316.	1.6	9
24	Smart Building: Use of the Artificial Neural Network Approach for Indoor Temperature Forecasting. Energies, 2018, 11, 395.	1.6	79
25	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
26	Multicriteria classification method for dimensionality reduction adapted to hyperspectral images. Journal of Applied Remote Sensing, 2017, 11, 025001.	0.6	5
27	A survey of landmine detection using hyperspectral imaging. ISPRS Journal of Photogrammetry and Remote Sensing, 2017, 124, 40-53.	4.9	112
28	Landmines. , 2017, , .		2
29	Classification algorithms for landmine detection using hyperspectral imaging. , 2017, , .		3
30	A Selection Process for Genetic Algorithm Using Clustering Analysis. Algorithms, 2017, 10, 123.	1.2	27
31	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
32	Progress in energy generation for Canadian remote sites. AIP Conference Proceedings, 2016, , .	0.3	3
33	A Constraint-Handling Technique for Genetic Algorithms using a Violation Factor. Journal of Computer Science, 2016, 12, 350-362.	0.5	45
34	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
35	Modeling and simulation of the thermodynamic cycle of the Diesel Engine using Neural Networks. IFAC-PapersOnLine, 2016, 49, 221-226.	0.5	9
36	Hybrid cooling systems: A review and an optimized selection scheme. Renewable and Sustainable Energy Reviews, 2016, 65, 57-80.	8.2	52

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37	Oriented review to potential simulator for faults modeling in diesel engine. Journal of Marine Science and Technology, 2016, 21, 533-551.	1.3	23
38	Dimension reduction of hyperspectral image with rare event preserving. , 2015, , .		1
39	Review of Optimization Methods for Cancer Chemotherapy Treatment Planning. Journal of Computer Science and Systems Biology, 2015, 8, .	0.0	40
40	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
41	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
42	Review of performance optimization techniques applied to wind turbines. Applied Energy, 2015, 142, 361-388.	5.1	270
43	Complete modeling for systems of a marine diesel engine. Journal of Marine Science and Application, 2015, 14, 93-104.	0.7	17
44	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
45	Dimension Reduction of Hyperspectral Image with Rare Event Preserving. Lecture Notes in Computer Science, 2015, , 621-629.	1.0	1
46	New Optical Gas Sensor for Gas Concentration Measurement Using Digital Image Processing. Sensors and Actuators B: Chemical, 2015, 207, 321-329.	4.0	5
47	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
48	Improvement of Markov chain processes for mathematical optimization of cancer treatment. , 2014, , .		0
49	Optimal management proposal for hybrid water heating system. Energy and Buildings, 2014, 75, 342-357.	3.1	18
50	Air source heat pump water heater: Dynamic modeling, optimal energy management and mini-tubes condensers. Energy, 2014, 64, 1102-1116.	4.5	68
51	Review of water-heating systems: General selection approach based on energy and environmental aspects. Building and Environment, 2014, 72, 259-286.	3.0	96
52	Review of recent trends in gas sensing technologies and their miniaturization potential. Sensor Review, 2014, 34, 24-35.	1.0	66
53	Speed control of automotive diesel engines. International Journal of Control, 2014, 87, 812-826.	1.2	4
54	Optimisation of Breakwaters Design to Protect Offshore Terminal Area. , 2014, , .		2

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55	The influence of an improved hydrodynamic model on breakwaters design. , 2014, , .		0
56	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
57	Optimization of coastal structures: Application on detached breakwaters in ports. Ocean Engineering, 2013, 63, 35-43.	1.9	19
58	Improvement of Galtonâ€“Watson Branching Process (GWBP) for Mathematical Optimization of Cancer Treatment. APCBEE Procedia, 2013, 7, 182-188.	0.5	1
59	Multi-variable optimization for future electricity-plan scenarios in Lebanon. Energy Policy, 2013, 58, 49-56.	4.2	12
60	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
61	Muscle force estimation using data fusion from high-density SEMG grid. , 2013, , .		16
62	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
63	Proposal for preservation criteria to rare event. Application on multispectral/hyperspectral images. , 2013, , .		3
64	Potential of hybridization methods to reducing the dimensionality for multispectral biological images. , 2013, 2013, 6458-61.		2
65	Required time response of a variable valve actuator equipping a hybrid pneumaticâ€“combustion engine. International Journal of Engine Research, 2012, 13, 514-528.	1.4	7
66	Fuel consumption evaluation of an optimized new hybrid pneumaticâ€“combustion vehicle engine on several driving cycles. International Journal of Engine Research, 2012, 13, 253-273.	1.4	11
67	Complete-model diesel-engine diagnosis using gain schedule-mu analysis and non-linear estimator. , 2012, , .		0
68	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
69	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
70	Electricity of Lebanon: Problems and Recommendations. Energy Procedia, 2012, 19, 310-320.	1.8	37
71	Stability of Dimensionality Reduction Methods Applied on Artificial Hyperspectral Images. Lecture Notes in Computer Science, 2012, , 465-474.	1.0	6
72	A new multi-hybrid power sytem for grid-disconnected areas Wind — Diesel — Compressed Air Energy Storage. , 2012, , .		1

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73	Pneumatic hybridization of a diesel engine using compressed air storage for wind-diesel energy generation. <i>Energy</i> , 2012, 38, 264-275.	4.5	22
74	New Indicated Mean Effective Pressure (IMEP) model for predicting crankshaft movement. <i>Energy Conversion and Management</i> , 2011, 52, 3376-3382.	4.4	8
75	Comparative study of the optimization theory for cancer treatment. , 2011, , .		1
76	Optimal weaving for 2.5D interlocks. <i>Composite Structures</i> , 2011, 93, 1255-1264.	3.1	20
77	Numerical Simulation of Solar Absorption Machine. <i>Energy Procedia</i> , 2011, 6, 130-135.	1.8	3
78	Potential of a Hybrid Wind-Diesel-Compressed air system for Nordic Remote Canadian Areas. <i>Energy Procedia</i> , 2011, 6, 795-804.	1.8	22
79	Optimization of diesel engine performances for a hybrid wind-diesel system with compressed air energy storage. <i>Energy</i> , 2011, 36, 3079-3091.	4.5	75
80	Dimensionality reduction on hyperspectral images: A comparative review based on artificial datas. , 2011, , .		46
81	Study and design of a hybrid wind-diesel-compressed air energy storage system for remote areas. <i>Applied Energy</i> , 2010, 87, 1749-1762.	5.1	98
82	Reply to the discussion by Cohen et al. on "Design optimization of floating breakwaters with an interdisciplinary fluid-solid structural problem" Appears in the <i>Canadian Journal of Civil Engineering</i> , 36(11): 1732-1743.. <i>Canadian Journal of Civil Engineering</i> , 2010, 37, 1649-1650.	0.7	0
83	Analytical and numerical modeling of mechanical properties of orthogonal 3D CFRP. <i>Composites Science and Technology</i> , 2009, 69, 111-116.	3.8	37
84	Parametrical and Motion Analysis of a Moored Rectangular Floating Breakwater. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2009, 131, .	0.6	8
85	Design optimization of floating breakwaters with an interdisciplinary fluid-solid structural problem. <i>Canadian Journal of Civil Engineering</i> , 2009, 36, 1732-1743.	0.7	14
86	A linear approach with μ-analysis control adaptation for a complete-model diesel-engine diagnosis. , 2009, , .		2
87	Optimal Control of a Variable Geometry Turbocharged Diesel Engine Using Neural Networks: Applications on the ETC Test Cycle. <i>IEEE Transactions on Control Systems Technology</i> , 2009, 17, 380-393.	3.2	33
88	Neural networks for real-time nonlinear control of a variable geometry turbocharged diesel engine. <i>International Journal of Robust and Nonlinear Control</i> , 2008, 18, 1209-1229.	2.1	13
89	Optimisation du tissage de composites orthogonaux 3D. <i>Comptes Rendus - Mecanique</i> , 2008, 336, 704-713.	2.1	2
90	The effects of reflection coefficient of the harbour sidewall on the performance of floating breakwaters. <i>Ocean Engineering</i> , 2008, 35, 1102-1112.	1.9	45

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91	A Nonlinear Approach with Gain Schedule Control Adaptation for a Complete-Model Diesel-Engine Diagnosis. , 2008, , .		0
92	Optimization of the In-Air Cylinders Filling for Emissions Reduction in Diesel Engines. , 2008, , .		1
93	Numerical Modelling of Floating Breakwaters and Shape Optimization Using a Nonlinear Programming Method. , 2007, , 235.		1
94	Study of a Hybrid Wind-Diesel System with Compressed Air Energy Storage. , 2007, , .		27
95	Genetic Algorithm for Dynamic Calibration of Engine's Actuators. , 2007, , .		7
96	Forces, activation and displacement prediction during free movement in the hand and forearm. Journal of Field Robotics, 2005, 22, 653-660.	0.7	14
97	Evaluation of Longitudinal and Transversal Young's Moduli for Unidirectional Composite Material with Long Fibers. Advanced Materials Research, 0, 324, 189-192.	0.3	5
98	Optimal Design of an Hybrid Wind-Diesel System with Compressed Air Energy Storage for Canadian Remote Areas. , 0, , .		2
99	Wind Turbine Design: Multi-Objective Optimization. , 0, , .		9
100	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