

David Bigaud

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1664653/publications.pdf>

Version: 2024-02-01

38
papers

703
citations

516215

16
h-index

580395

25
g-index

38
all docs

38
docs citations

38
times ranked

522
citing authors

#	ARTICLE	IF	CITATIONS
1	BIM-Based Digital Twin and XR Devices to Improve Maintenance Procedures in Smart Buildings: A Literature Review. Applied Sciences (Switzerland), 2021, 11, 6810.	1.3	73
2	Fatigue-loading effect on RC beams strengthened with externally bonded FRP. Construction and Building Materials, 2011, 25, 539-546.	3.2	67
3	Tearing analysis for textile reinforced soft composites under mono-axial and bi-axial tensile stresses. Composite Structures, 2003, 62, 129-137.	3.1	66
4	3D braided composite rings under lateral compression. Composites Science and Technology, 2005, 65, 95-106.	3.8	39
5	Fatigue of CFRPs externally bonded to concrete. Materials and Structures/Materiaux Et Constructions, 2005, 38, 39-46.	1.3	39
6	Time-variant flexural reliability of RC beams with externally bonded CFRP under combined fatigue-corrosion actions. Reliability Engineering and System Safety, 2014, 131, 257-270.	5.1	38
7	Ultimate behavior of CFRP strengthened RC flat slabs under a centrally applied load. Composite Structures, 2006, 72, 69-78.	3.1	34
8	Lifetime Estimation of a Photovoltaic Module Subjected to Corrosion Due to Damp Heat Testing. Journal of Solar Energy Engineering, Transactions of the ASME, 2013, 135, .	1.1	31
9	The Time-Variant Degradation of a Photovoltaic System. Journal of Solar Energy Engineering, Transactions of the ASME, 2013, 135, .	1.1	30
10	Models of interactions between process, microstructure and mechanical properties of composite materials—a study of the interlock layer-to-layer braiding technique. Composite Structures, 2005, 67, 99-114.	3.1	26
11	Reliability of photovoltaic modules based on climatic measurement data. International Journal of Metrology and Quality Engineering, 2010, 1, 45-49.	0.4	21
12	Seismic performance of reinforced concrete frame structures strengthened with FRP laminates using a reliability-based advanced approach. Composites Part B: Engineering, 2018, 139, 238-248.	5.9	21
13	Mechanical properties prediction of textile-reinforced composite materials using a multiscale energetic approach. Composite Structures, 1997, 38, 361-371.	3.1	20
14	A global-local non-linear modelling of effective thermal conductivity tensor of textile-reinforced composites. Composites Part A: Applied Science and Manufacturing, 2001, 32, 1443-1453.	3.8	17
15	Identification of Shear Stiffness of Soft Orthotropic Textile Composites: Part I — Development of a Mixed Method for Shear Elastic Constant Identification. Journal of Industrial Textiles, 2005, 35, 137-155.	1.1	17
16	Criteria for punching failure mode in RC slabs reinforced by externally bonded CFRP. Composite Structures, 2007, 81, 438-449.	3.1	17
17	Stiffness and failure modelling of 2D and 3D textile-reinforced composites by means of imbricate-type elements approaches. Computers and Structures, 2002, 80, 2253-2264.	2.4	16
18	Comparative durability analysis of CFRP-strengthened RC highway bridges. Construction and Building Materials, 2012, 30, 629-642.	3.2	16

#	ARTICLE	IF	CITATIONS
19	Robustness evaluation using highly accelerated life testing. International Journal of Advanced Manufacturing Technology, 2011, 56, 1253-1261.	1.5	14
20	Fatigue of CFRPs externally bonded to concrete. Materials and Structures/Materiaux Et Constructions, 2005, 38, 39-46.	1.3	12
21	Behavior analysis of machines and system air hemispherical spindles using finite element modeling. Industrial Lubrication and Tribology, 2013, 65, 272-283.	0.6	10
22	Analytical evaluation of stress state in braided orthotropic composite cylinders under lateral compression. Composites Science and Technology, 2006, 66, 3040-3052.	3.8	9
23	Availability Estimation of a Photovoltaic System. , 2013, , .		9
24	Lifetime assessment of a photovoltaic system using stochastic Petri nets. International Journal of Modelling and Simulation, 2017, 37, 149-155.	2.3	8
25	Detection of Faults and Drifts in the Energy Performance of a Building Using Bayesian Networks. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2019, 141, .	0.9	7
26	A Numerical Procedure for Elasticity and Failure Behavior Prediction of Textile-Reinforced Composite Materials. Journal of Thermoplastic Composite Materials, 1999, 12, 201-213.	2.6	6
27	Reliability and availability estimation of a photovoltaic system using Petri networks. , 2011, , 2613-2619.		6
28	Uncertainty assessment in building energy performance with a simplified model. International Journal of Metrology and Quality Engineering, 2015, 6, 308.	0.4	6
29	FROM GEOMETRICAL DESCRIPTION TO MECHANICAL PREDICTION - APPLICATION TO WOVEN FABRIC COMPOSITES. Science and Engineering of Composite Materials, 1998, 7, .	0.6	5
30	Photovoltaic system lifetime prediction using Petri networks method. Proceedings of SPIE, 2010, , .	0.8	5
31	Fluid thrust bearing reliability analysis using finite element modelling and response surface method. International Journal of Quality Engineering and Technology, 2009, 1, 188.	0.0	4
32	Reliability evaluation of a photovoltaic module using accelerated degradation model. , 2011, , .		4
33	Durability and Reliability Estimation of Flax Fiber Reinforced Composites Using Tweedie Exponential Dispersion Degradation Process. Mathematical Problems in Engineering, 2021, 2021, 1-21.	0.6	3
34	Optimization of Accelerated Destructive Degradation Testing of Cementitious Materials for Their Performances Qualification under Aggressive Environments: The Case of Carbonation. Mathematical Problems in Engineering, 2020, 2020, 1-19.	0.6	2
35	Probabilistic calibration of the strength reduction factor for the design of rectangular short concrete columns reinforced with FRP bars under eccentric axial loading " Update of ACI 440 rules. Journal of Building Engineering, 2021, 43, 103096.	1.6	2
36	Durability and Lifetime Prediction of Flax Fiber Reinforced Polymer Composites. Lecture Notes in Civil Engineering, 2022, , 695-705.	0.3	2

#	ARTICLE	IF	CITATIONS
37	Decision-making through a fuzzy hybrid AI system for selection of a third-party operations and maintenance provider. <i>International Journal of Multicriteria Decision Making</i> , 2016, 6, 35.	0.1	1
38	Absorbeurs d'Énergie multi-matériaux et en matériaux composites pour des applications dans le domaine des transports. <i>Revue Des Composites Et Des Matériaux Avancés</i> , 2004, 14, 307-329.	0.2	0