Yann Meyer

List of Publications by Year
in descending order

31 papers	505 citations	687363 13 h-index	677142 22 g-index
31 all docs	31 docs citations	31 times ranked	493 citing authors

#	Article	IF	Citations
1	On the use of in-situ piezoelectric sensors for the manufacturing and structural health monitoring of polymer-matrix composites: A literature review. Composite Structures, 2019, 215, 127-149.	5.8	108
2	Effects of mechanical compression on the performance of polymer electrolyte fuel cells and analysis through in-situ characterisation techniques - A review. Journal of Power Sources, 2019, 424, 8-26.	7.8	49
3	Mechanical characterization and analytical modeling of gas diffusion layers under cyclic compression. International Journal of Hydrogen Energy, 2015, 40, 5958-5965.	7.1	42
4	Impact of cyclic mechanical compression on the electrical contact resistance between the gas diffusion layer and the bipolar plate of a polymer electrolyte membrane fuel cell. Renewable Energy, 2020, 153, 349-361.	8.9	38
5	Characterization process to measure the electrical contact resistance of Gas Diffusion Layers under mechanical static compressive loads. International Journal of Hydrogen Energy, 2017, 42, 23920-23931.	7.1	33
6	A review of manufacturing techniques of smart composite structures with embedded bulk piezoelectric transducers. Smart Materials and Structures, 2019, 28, 053001.	3.5	29
7	Active isolation of electronic micro-components with piezoelectrically transduced silicon MEMS devices. Smart Materials and Structures, 2007, 16, 128-134.	3.5	26
8	Thermomechanical characterisation of commercial Gas Diffusion Layers of a Proton Exchange Membrane Fuel Cell for high compressive pre-loads under dynamic excitation. Fuel, 2016, 182, 124-130.	6.4	26
9	Integration of piezoelectric transducers (PZT and PVDF) within polymer-matrix composites for structural health monitoring applications: new success and challenges. International Journal of Smart and Nano Materials, 2020, 11, 343-369.	4.2	26
10	Active vibration isolation of electronic components by piezocomposite clampedâ€“clamped beam. Mechanical Systems and Signal Processing, 2011, 25, 1687-1701.	8.0	18
11	Structural health monitoring of polymer-matrix composite using embedded piezoelectric ceramic transducers during several four-points bending tests. Smart Materials and Structures, 2020, 29, 125011.	3.5	17
12	Detection of the key steps during Liquid Resin Infusion manufacturing of a polymer-matrix composite using an in-situ piezoelectric sensor. Materials Today Communications, 2020, 24, 101077.	1.9	16
13	On the manufacturing, integration, and wiring techniques of in situ piezoelectric devices for the manufacturing and structural health monitoring of polymerâ€“matrix composites: A literature review. Journal of Intelligent Material Systems and Structures, 2019, 30, 2351-2381.	2.5	13
14	Optimization of a passive structure for active vibration isolation: an interval-computation- and constraint-propagation-based approach. Engineering Optimization, 2012, 44, 1463-1489.	2.6	10
15	Mixed control for robust vibration isolation: numerical energy comparison for an active micro suspension device. Smart Materials and Structures, 2007, 16, 1361-1369.	3.5	8
16	Primalâ€“dual optimization process of IFFâ€“DVF active damping strategies. Applications to the beams. Structural Control and Health Monitoring, 2007, 14, 660-680.	4.0	8
17	Experimental Characterization Method of the Gas Diffusion Layers Compression Modulus for High Compressive Loads and Based on a Dynamic Mechanical Analysis. Journal of Fuel Cell Science and Technology, 2015, 12, .	0.8	6
18	Active vibration isolation with a MEMS device. Effects of nonlinearities on control efficiency. Smart Materials and Structures, 2015, 24, 085004.	3.5	5

#	Article	IF	Citations
19	Active damping of â€˜parasiticâ€™ vibration modes of a quartz sensor. Smart Materials and Structures, 2008, 17, 065006.	3.5	4
20	Optimal design for electromagnetic devices: A synthesis approach using intervals and constraint-based methods. International Journal of Applied Electromagnetics and Mechanics, 2019, 60, S35-S48.	0.6	4
21	Design of experiments on the effects of linear and hyperelastic constitutive models and geometric parameters on polymer electrolyte fuel cell mechanical and electrical behaviour. International Journal of Hydrogen Energy, 2021, 46, 13775-13790.	7.1	4
22	Optimisation structurale de problÃ¨mes d'amortissement de type shunt rÃ©sistif. Mecanique Et Industries, 2009, 10, 109-120.	0.2	3
23	Vibration characterization procedure of piezoelectric ceramic parameters. MATEC Web of Conferences, 2015, 20, 01003.	0.2	3
24	User-centred design approach with misidentified end-users: case study for smart composite structures. Journal of Engineering Design, 0, , 1-14.	2.3	3
25	Ultrasonic Fatigue Endurance of Thin Carbon Fiber Sheets. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 1654-1660.	2.2	2
26	Complex composite structures with integrated piezoelectric transducers. International Journal of Computational Methods and Experimental Measurements, 2017, 5, 125-134.	0.2	2
27	Structural modeling of a MEMS device: nonlinear modeling and experimental identification. Smart Materials and Structures, 2010, 19, 045020.	3.5	1
28	Equivalent-Circuit Model for Quartz Resonators Effects of Finite Element Analysis, Acceleration, and Mass Loading. Mechanics of Advanced Materials and Structures, 2013, 20, 774-790.	2.6	1
29	Systemic optimization of an active vibration micro-isolator: An interval computation and constraint propagation based approach. , 2014, , .		0
30	Experimental investigation on the influence of a â€œsoft layerâ€•on the structural performance of a smart composite structure. SN Applied Sciences, 2019, 1, 1.	2.9	0
31	How to Assess a Creativity Session. Proceedings of the Design Society, 2022, 2, 851-860.	0.8	0