Sergio Cantero-Chinchilla

List of Publications by Year
in descending order

15 papers	**341** citations	933447 **10** h-index	996975 **15** g-index
15 all docs	**15** docs citations	**15** times ranked	**245** citing authors

#	Article	IF	Citations
1	A robust Bayesian methodology for damage localization in plate-like structures using ultrasonic guided-waves. Mechanical Systems and Signal Processing, 2019, 122, 192-205.	8.0	64
2	Deep learning in automated ultrasonic NDE â€" Developments, axioms and opportunities. NDT and E International, 2022, 131, 102703.	3.7	43
3	Bayesian inference for damage identification based on analytical probabilistic model of scattering coefficient estimators and ultrafast wave scattering simulation scheme. Journal of Sound and Vibration, 2020, 468, 115083.	3.9	38
4	A multilevel Bayesian method for ultrasound-based damage identification in composite laminates. Mechanical Systems and Signal Processing, 2017, 88, 462-477.	8.0	31
5	Optimal sensor configuration for ultrasonic guided-wave inspection based on value of information. Mechanical Systems and Signal Processing, 2020, 135, 106377.	8.0	31
6	Optimal sensor and actuator placement for structural health monitoring via an efficient convex cost-benefit optimization. Mechanical Systems and Signal Processing, 2020, 144, 106901.	8.0	30
7	A fast Bayesian inference scheme for identification of local structural properties of layered composites based on wave and finite element-assisted metamodeling strategy and ultrasound measurements. Mechanical Systems and Signal Processing, 2020, 143, 106802.	8.0	21
8	Structural Health Monitoring Using Ultrasonic Guided-Waves and the Degree of Health Index. Sensors, 2021, 21, 993.	3.8	19
9	Bayesian damage localization and identification based on a transient wave propagation model for composite beam structures. Composite Structures, 2021, 267, 113849.	5.8	19
10	A deep learning based methodology for artefact identification and suppression with application to ultrasonic images. NDT and E International, 2022, 126, 102575.	3.7	19
11	An Empirical Study on Transmission Beamforming for Ultrasonic Guided-Wave Based Structural Health Monitoring. Sensors, 2020, 20, 1445.	3.8	10
12	Ultrasonic Guided Wave Testing on Cross-Ply Composite Laminate: An Empirical Study. Sensors, 2020, 20, 5291.	3.8	6
13	Wave interaction with nonlinear damage and generation of harmonics in composite structures. Composite Structures, 2019, 230, 111495.	5.8	5
14	Robust optimised design of 3D printed elastic metastructures: A trade-off between complexity and vibration attenuation. Journal of Sound and Vibration, 2022, 529, 116896.	3.9	4
15	OptiSensâ€"Convex optimization of sensor and actuator placement for ultrasonic guided-wave based structural health monitoring. SoftwareX, 2021, 13, 100643.	2.6	1