

Paolo Chiariotti

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

736
citations

759233

12
h-index

642732

23
g-index

84
all docs

84
docs citations

84
times ranked

540
citing authors

#	ARTICLE	IF	CITATIONS
1	Measuring breathability and bacterial filtration efficiency of face masks in the pandemic context: A round robin study with proficiency testing among non-accredited laboratories. Measurement: Journal of the International Measurement Confederation, 2022, 189, 110481.	5.0	10
2	Effect of Gasification Char and Recycled Carbon Fibres on the Electrical Impedance of Concrete Exposed to Accelerated Degradation. Sustainability, 2022, 14, 1775.	3.2	4
3	Low-Cost and High-Performance Solution for Positioning and Monitoring of Large Structures. Sensors, 2022, 22, 1788.	3.8	6
4	Acoustic Attenuation of COVID-19 Face Masks: Correlation to Fibrous Material Porosity, Mask Breathability and Bacterial Filtration Efficiency. Acoustics, 2022, 4, 123-138.	1.4	1
5	Dielectric and optical evaluation of high-emissivity coatings for temperature measurements in microwave applications. Measurement: Journal of the International Measurement Confederation, 2022, 198, 111363.	5.0	3
6	On the use of Lagrange Multiplier State-Space Substructuring in dynamic substructuring analysis. Mechanical Systems and Signal Processing, 2022, 180, 109419.	8.0	5
7	Laser Doppler Vibrometry Measurements in Structural Dynamics. , 2022, , 103-147.		0
8	IRLS based inverse methods tailored to volumetric acoustic source mapping. Applied Acoustics, 2021, 172, 107599.	3.3	6
9	Performance of concretes manufactured with newly developed low-clinker cements exposed to water and chlorides: Characterization by means of electrical impedance measurements. Construction and Building Materials, 2021, 271, 121546.	7.2	12
10	Laser Doppler Vibrometry Measurements in Structural Dynamics. , 2021, , 1-45.		0
11	Testing Surgical Face Masks in an Emergency Context: The Experience of Italian Laboratories during the COVID-19 Pandemic Crisis. International Journal of Environmental Research and Public Health, 2021, 18, 1462.	2.6	17
12	3D Acoustic Mapping in Automotive Wind Tunnel: Algorithm and Problem Analysis on Simulated Data. Applied Sciences (Switzerland), 2021, 11, 3241.	2.5	3
13	Automated measurement system for detecting carbonation depth: Image-processing based technique applied to concrete sprayed with phenolphthalein. Measurement: Journal of the International Measurement Confederation, 2021, 175, 109142.	5.0	8
14	A neural network based microphone array approach to grid-less noise source localization. Applied Acoustics, 2021, 177, 107947.	3.3	21
15	Dimensional measurements in production line: a comparison between a custom-made telecentric optical profilometer and on-the-market measurement systems. , 2021, , .		5
16	Objective-Subjective Sound Quality Correlation Performance Comparison of Genetic Algorithm Based Regression Models and Neural Network Based Approach. Journal of Physics: Conference Series, 2021, 2041, 012015.	0.4	0
17	Lagrange Multiplier State-Space Substructuring. Journal of Physics: Conference Series, 2021, 2041, 012016.	0.4	4
18	Continuous monitoring of the health status of cement-based structures: electrical impedance measurements and remote monitoring solutions. Acta IMEKO (2012), 2021, 10, 132.	0.7	4

#	ARTICLE	IF	CITATIONS
19	A comparison between aeroacoustic source mapping techniques for the characterisation of wind turbine blade models with microphone arrays. <i>Acta IMEKO (2012)</i> , 2021, 10, 147.	0.7	1
20	Development of a Soft Sensor for Indirect Temperature Measurement in a Coffee Machine. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020, 69, 2164-2171.	4.7	12
21	Focusing tube operational vibration as a means for monitoring the abrasive waterjet cutting capability. <i>Journal of Manufacturing Processes</i> , 2020, 59, 1-10.	5.9	14
22	Laser Doppler Vibrometry Measurements in Structural Dynamics. , 2020, , 1-45.		1
23	Analysis of reproducibility and repeatability of a hand-held laser scanner for gap&flush measurement in car-assembly line. , 2020, , .		3
24	A Smartphone Integrated Hand-Held Gap and Flush Measurement System for in Line Quality Control of Car Body Assembly. <i>Sensors</i> , 2020, 20, 3300.	3.8	18
25	Inverse methods in aeroacoustic three-dimensional volumetric noise source localization and quantification. <i>Journal of Sound and Vibration</i> , 2020, 473, 115208.	3.9	10
26	3D Generalized Inverse Beamforming in wind tunnel aeroacoustic testing: application to a Counter Rotating Open Rotor aircraft model. <i>Applied Acoustics</i> , 2020, 163, 107229.	3.3	8
27	Investigating Additive Manufactured Lattice Structures: A Multi-Instrument Approach. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020, 69, 2459-2467.	4.7	16
28	Electrical Resistivity and Electrical Impedance Measurement in Mortar and Concrete Elements: A Systematic Review. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 9152.	2.5	50
29	A soft-sensing approach for the evaluation of the acoustic comfort due to building envelope protection against external noise. <i>Measurement: Journal of the International Measurement Confederation</i> , 2019, 146, 675-688.	5.0	20
30	Smart portable laser triangulation system for assessing gap and flush in car body assembly line. , 2019, , .		10
31	Qualification of additive manufactured trabecular structures using a multi-instrumental approach. , 2019, , .		6
32	Innovative data regression incorporating deterministic knowledge for soft sensing in the process industry. <i>Journal of Process Control</i> , 2019, 80, 180-192.	3.3	5
33	Acoustic beamforming for noise source localization “ Reviews, methodology and applications. <i>Mechanical Systems and Signal Processing</i> , 2019, 120, 422-448.	8.0	219
34	In-Line Burr Inspection Through Backlight Vision. <i>Lecture Notes in Computer Science</i> , 2019, , 343-351.	1.3	2
35	Mode matching of Continuous Scanning Laser Doppler Vibration data in the frequency domain. <i>Optics and Lasers in Engineering</i> , 2018, 107, 231-240.	3.8	4
36	Average acoustic beamforming in car cabins: An automatic system for acoustic mapping over 3D surfaces. <i>Applied Acoustics</i> , 2018, 129, 47-63.	3.3	14

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37	3D Digital Image Correlation for vibration measurement on rolling tire: procedure development and comparison with Laser Doppler Vibrometer. Journal of Physics: Conference Series, 2018, 1149, 012010.	0.4	8
38	Experimental and Numerical dynamic characterization of a human tibia. Journal of Physics: Conference Series, 2018, 1149, 012029.	0.4	2
39	Preliminary assessment of Photogrammetric Approach for detailed dimensional and colorimetric reconstruction of Corals in underwater environment. , 2018, , .		3
40	Smart quality control station for non-contact measurement of cylindrical parts based on a confocal chromatic sensor. IEEE Instrumentation and Measurement Magazine, 2018, 21, 22-28.	1.6	10
41	Multi-Physical Signature Analysis of Induction Machines under Unbalanced Supply Voltage. , 2018, , .		7
42	Experimental acoustic modal analysis of an automotive cabin: challenges and solutions. Journal of Physics: Conference Series, 2018, 1075, 012026.	0.4	1
43	Smart measurement systems for Zero-Defect Manufacturing. , 2018, , .		2
44	High-Accuracy Dimensional Measurement of Cylindrical Components by an Automated Test Station Based on Confocal Chromatic Sensor. , 2018, , .		6
45	Spherical Harmonics Decomposition in inverse acoustic methods involving spherical arrays. Journal of Sound and Vibration, 2018, 433, 425-460.	3.9	10
46	A Discrete-Continuous Method for Predicting Thermochemical Phenomena in a Cement Kiln and Supporting Indirect Monitoring. Engineering Journal, 2018, 22, 165-183.	1.0	5
47	Exploiting Continuous Scanning Laser Doppler Vibrometry in timing belt dynamic characterisation. Mechanical Systems and Signal Processing, 2017, 86, 66-81.	8.0	25
48	Delamination detection by Multi-Level Wavelet Processing of Continuous Scanning Laser Doppler Vibrometry data. Optics and Lasers in Engineering, 2017, 99, 66-79.	3.8	19
49	Experimental Modal Analysis on Vibration Data Measured by Digital Image Correlation. Conference Proceedings of the Society for Experimental Mechanics, 2017, , 285-291.	0.5	5
50	Smart Localization of Microphones inside an Automotive Cabin. International Journal of Automotive Engineering, 2017, 8, 63-70.	0.5	0
51	Rolling Bearing Diagnostics by Means of EMD-Based Independent Component Analysis on Vibration and Acoustic Data. Conference Proceedings of the Society for Experimental Mechanics, 2017, , 293-300.	0.5	1
52	Towards a Comprehensive Asset Integrity Management (AIM) Approach for European Infrastructures. Transportation Research Procedia, 2016, 14, 4060-4069.	1.5	4
53	Continuous scanning laser Doppler vibrometry and wavelet processing for diagnostics: A time domain approach. AIP Conference Proceedings, 2016, , .	0.4	0
54	Blind Identification of Operational Deflection Shapes from Continuous Scanning Laser Doppler Vibrometry Data. Conference Proceedings of the Society for Experimental Mechanics, 2016, , 105-111.	0.5	1

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55	Digital Image Correlation for Timing Belts Dynamic Characterization: Potentials and Critical Aspects. Conference Proceedings of the Society for Experimental Mechanics, 2016, , 113-121.	0.5	0
56	XDEM for Tuning Lumped Models of Thermochemical Processes Involving Materials in the Powder State. Engineering Journal, 2016, 20, 187-201.	1.0	1
57	Wavelet Processing of Continuous Scanning Laser Doppler Vibrometry data in Non-Destructive Testing. Journal of Physics: Conference Series, 2015, 658, 012001.	0.4	1
58	A discrete-continuous approach to describe CaCO ₃ decarbonation in non-steady thermal conditions. Powder Technology, 2015, 275, 131-138.	4.2	10
59	Exploiting Continuous Scanning Laser Doppler Vibrometry and Wavelet Processing for Damage Detection. Conference Proceedings of the Society for Experimental Mechanics, 2015, , 189-196.	0.5	8
60	Exploiting continuous scanning laser Doppler vibrometry (CSLDV) in time domain correlation methods for noise source identification. Measurement Science and Technology, 2014, 25, 075204.	2.6	14
61	Delamination detection in composites by laser ultrasonics. AIP Conference Proceedings, 2014, , .	0.4	11
62	Recovery of Mode Shapes from Continuous Scanning Laser Doppler Vibration Data: A Mode Matching Frequency Domain Approach. Conference Proceedings of the Society for Experimental Mechanics, 2014, , 207-213.	0.5	3
63	Recovery of Operational Deflection Shapes from Noise-Corrupted Measurement Data from CSLDV: Comparison Between Polynomial and Mode Filtering Approaches. Conference Proceedings of the Society for Experimental Mechanics, 2014, , 83-91.	0.5	1
64	Envelope Cepstrum Based Method for Rolling Bearing Diagnostics. Lecture Notes in Mechanical Engineering, 2014, , 149-157.	0.4	0
65	Exploiting Imaging Techniques to Overcome the Limits of Vibration Testing in High Excitation Level Conditions. Conference Proceedings of the Society for Experimental Mechanics, 2014, , 93-100.	0.5	0
66	Diagnostic procedure on brake pad assembly based on Young's modulus estimation. Measurement Science and Technology, 2013, 24, 025602.	2.6	2
67	The application of advanced beamforming techniques for the noise characterization of installed counter rotating open rotors. , 2013, , .		7
68	Valvetrain Motion Measurements in Firing Conditions by Laser Doppler Vibrometer. Conference Proceedings of the Society for Experimental Mechanics, 2013, , 395-400.	0.5	3
69	Different configurations of laser vibrometry for quality control of electric motors with external rotor. , 2012, , .		1
70	Diagnostic procedure on brake pad assembly based on Young modulus estimation. , 2012, , .		0
71	Spatial Noise Component Identification Based on Different Vibro-Acoustic Data Sets. Conference Proceedings of the Society for Experimental Mechanics, 2012, , 427-435.	0.5	0
72	Laser vibrometry vibration measurements on vehicle cabins in running conditions: helicopter mock-up application. Optical Engineering, 2011, 50, 101502.	1.0	10

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73	Vibration and acoustic analysis of brake pads for quality control. Conference Proceedings of the Society for Experimental Mechanics, 2011, , 43-52.	0.5	2
74	A new laser vibrometry-based 2D selective intensity method for source identification in reverberant fields: part II. Application to an aircraft cabin. Measurement Science and Technology, 2010, 21, 075108.	2.6	8
75	A new laser vibrometry-based 2D selective intensity method for source identification in reverberant fields: part I. Development of the technique and preliminary validation. Measurement Science and Technology, 2010, 21, 075107.	2.6	12
76	A new laser vibrometry-based 2D selective intensity method for source identification in reverberant fields: part II. Application to an aircraft cabin. Measurement Science and Technology, 2010, 21, 089803.	2.6	2
77	Scanning Laser Doppler Vibrometer Measurements Inside Helicopter Cabins in Running Conditions: Problems and Mock-up Testing. , 2010, , .		0
78	A new laser vibrometry-based 2D selective intensity method for source identification in reverberant fields: part I. Development of the technique and preliminary validation. Measurement Science and Technology, 2010, 21, 089802.	2.6	0
79	Noise Source Localization on Washing Machines by Conformal Array Technique and Near Field Acoustic Holography. , 0, , .		1
80	Stationary Wavelet Transform for denoising Pulsed Thermography data: optimization of wavelet parameters for enhancing defects detection. , 0, , .		0