

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 | Acoustic beamforming for noise source localization – Reviews, methodology and applications. Mechanical Systems and Signal Processing, 2019, 120, 422-448. | 8.0 | 219 |
| 2 | Electrical Resistivity and Electrical Impedance Measurement in Mortar and Concrete Elements: A Systematic Review. Applied Sciences (Switzerland), 2020, 10, 9152. | 2.5 | 50 |
| 3 | Exploiting Continuous Scanning Laser Doppler Vibrometry in timing belt dynamic characterisation. Mechanical Systems and Signal Processing, 2017, 86, 66-81. | 8.0 | 25 |
| 4 | A neural network based microphone array approach to grid-less noise source localization. Applied Acoustics, 2021, 177, 107947. | 3.3 | 21 |
| 5 | A soft-sensing approach for the evaluation of the acoustic comfort due to building envelope protection against external noise. Measurement: Journal of the International Measurement Confederation, 2019, 146, 675-688. | 5.0 | 20 |
| 6 | 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 |
| 7 | A Smartphone Integrated Hand-Held Gap and Flush Measurement System for in Line Quality Control of Car Body Assembly. Sensors, 2020, 20, 3300. | 3.8 | 18 |
| 8 | 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 |
| 9 | Investigating Additive Manufactured Lattice Structures: A Multi-Instrument Approach. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 2459-2467. | 4.7 | 16 |
| 10 | 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 |
| 11 | Average acoustic beamforming in car cabins: An automatic system for acoustic mapping over 3D surfaces. Applied Acoustics, 2018, 129, 47-63. | 3.3 | 14 |
| 12 | Focusing tube operational vibration as a means for monitoring the abrasive waterjet cutting capability. Journal of Manufacturing Processes, 2020, 59, 1-10. | 5.9 | 14 |
| 13 | 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 |
| 14 | Development of a Soft Sensor for Indirect Temperature Measurement in a Coffee Machine. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 2164-2171. | 4.7 | 12 |
| 15 | 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 |
| 16 | Delamination detection in composites by laser ultrasonics. AIP Conference Proceedings, 2014, , . | 0.4 | 11 |
| 17 | Laser vibrometry vibration measurements on vehicle cabins in running conditions: helicopter mock-up application. Optical Engineering, 2011, 50, 101502. | 1.0 | 10 |
| 18 | A discrete-continuous approach to describe CaCO ₃ decarbonation in non-steady thermal conditions. Powder Technology, 2015, 275, 131-138. | 4.2 | 10 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | 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 |
| 20 | Spherical Harmonics Decomposition in inverse acoustic methods involving spherical arrays. Journal of Sound and Vibration, 2018, 433, 425-460. | 3.9 | 10 |
| 21 | Smart portable laser triangulation system for assessing gap and flush in car body assembly line. , 2019, , . | | 10 |
| 22 | Inverse methods in aeroacoustic three-dimensional volumetric noise source localization and quantification. Journal of Sound and Vibration, 2020, 473, 115208. | 3.9 | 10 |
| 23 | 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 |
| 24 | 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 |
| 25 | 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 |
| 26 | 3D Generalized Inverse Beamforming in wind tunnel aeroacoustic testing: application to a Counter Rotating Open Rotor aircraft model. Applied Acoustics, 2020, 163, 107229. | 3.3 | 8 |
| 27 | 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 |
| 28 | 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 |
| 29 | The application of advanced beamforming techniques for the noise characterization of installed counter rotating open rotors. , 2013, , . | | 7 |
| 30 | Multi-Physical Signature Analysis of Induction Machines under Unbalanced Supply Voltage. , 2018, , . | | 7 |
| 31 | High-Accuracy Dimensional Measurement of Cylindrical Components by an Automated Test Station Based on Confocal Chromatic Sensor. , 2018, , . | | 6 |
| 32 | Qualification of additive manufactured trabecular structures using a multi-instrumental approach. , 2019, , . | | 6 |
| 33 | IRLS based inverse methods tailored to volumetric acoustic source mapping. Applied Acoustics, 2021, 172, 107599. | 3.3 | 6 |
| 34 | Low-Cost and High-Performance Solution for Positioning and Monitoring of Large Structures. Sensors, 2022, 22, 1788. | 3.8 | 6 |
| 35 | 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 |
| 36 | Innovative data regression incorporating deterministic knowledge for soft sensing in the process industry. Journal of Process Control, 2019, 80, 180-192. | 3.3 | 5 |

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|----|---|-----|-----------|
| 37 | Dimensional measurements in production line: a comparison between a custom-made telecentric optical profilometer and on-the-market measurement systems. , 2021, , . | | 5 |
| 38 | 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 |
| 39 | On the use of Lagrange Multiplier State-Space Substructuring in dynamic substructuring analysis. Mechanical Systems and Signal Processing, 2022, 180, 109419. | 8.0 | 5 |
| 40 | Towards a Comprehensive Asset Integrity Management (AIM) Approach for European Infrastructures. Transportation Research Procedia, 2016, 14, 4060-4069. | 1.5 | 4 |
| 41 | Mode matching of Continuous Scanning Laser Doppler Vibration data in the frequency domain. Optics and Lasers in Engineering, 2018, 107, 231-240. | 3.8 | 4 |
| 42 | Lagrange Multiplier State-Space Substructuring. Journal of Physics: Conference Series, 2021, 2041, 012016. | 0.4 | 4 |
| 43 | 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 |
| 44 | 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 |
| 45 | Preliminary assessment of Photogrammetric Approach for detailed dimensional and colorimetric reconstruction of Corals in underwater environment. , 2018, , . | | 3 |
| 46 | Analysis of reproducibility and repeatability of a hand-held laser scanner for gap&flush measurement in car-assembly line. , 2020, , . | | 3 |
| 47 | 3D Acoustic Mapping in Automotive Wind Tunnel: Algorithm and Problem Analysis on Simulated Data. Applied Sciences (Switzerland), 2021, 11, 3241. | 2.5 | 3 |
| 48 | Valvetrain Motion Measurements in Firing Conditions by Laser Doppler Vibrometer. Conference Proceedings of the Society for Experimental Mechanics, 2013, , 395-400. | 0.5 | 3 |
| 49 | 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 |
| 50 | 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 |
| 51 | 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 |
| 52 | Diagnostic procedure on brake pad assembly based on Young's modulus estimation. Measurement Science and Technology, 2013, 24, 025602. | 2.6 | 2 |
| 53 | Experimental and Numerical dynamic characterization of a human tibia. Journal of Physics: Conference Series, 2018, 1149, 012029. | 0.4 | 2 |
| 54 | Smart measurement systems for Zero-Defect Manufacturing. , 2018, , . | | 2 |

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|----|---|-----|-----------|
| 55 | Vibration and acoustic analysis of brake pads for quality control. Conference Proceedings of the Society for Experimental Mechanics, 2011, , 43-52. | 0.5 | 2 |
| 56 | In-Line Burr Inspection Through Backlight Vision. Lecture Notes in Computer Science, 2019, , 343-351. | 1.3 | 2 |
| 57 | Noise Source Localization on Washing Machines by Conformal Array Technique and Near Field Acoustic Holography. , 0, , . | | 1 |
| 58 | Different configurations of laser vibrometry for quality control of electric motors with external rotor. , 2012, , . | | 1 |
| 59 | Wavelet Processing of Continuous Scanning Laser Doppler Vibrometry data in Non-Destructive Testing. Journal of Physics: Conference Series, 2015, 658, 012001. | 0.4 | 1 |
| 60 | 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 |
| 61 | Experimental acoustic modal analysis of an automotive cabin: challenges and solutions. Journal of Physics: Conference Series, 2018, 1075, 012026. | 0.4 | 1 |
| 62 | Laser Doppler Vibrometry Measurements in Structural Dynamics. , 2020, , 1-45. | | 1 |
| 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 | XDEM for Tuning Lumped Models of Thermochemical Processes Involving Materials in the Powder State. Engineering Journal, 2016, 20, 187-201. | 1.0 | 1 |
| 65 | 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 |
| 66 | 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 |
| 67 | A comparison between aeroacoustic source mapping techniques for the characterisation of wind turbine blade models with microphone arrays. Acta IMEKO (2012), 2021, 10, 147. | 0.7 | 1 |
| 68 | Scanning Laser Doppler Vibrometer Measurements Inside Helicopter Cabins in Running Conditions: Problems and Mock-up Testing. , 2010, , . | | 0 |
| 69 | Diagnostic procedure on brake pad assembly based on Young modulus estimation. , 2012, , . | | 0 |
| 70 | Continuous scanning laser Doppler vibrometry and wavelet processing for diagnostics: A time domain approach. AIP Conference Proceedings, 2016, , . | 0.4 | 0 |
| 71 | Laser Doppler Vibrometry Measurements in Structural Dynamics. , 2021, , 1-45. | | 0 |
| 72 | 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 |

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|----|--|-----|-----------|
| 73 | 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 |
| 74 | 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 |
| 75 | Envelope Cepstrum Based Method for Rolling Bearing Diagnostics. Lecture Notes in Mechanical Engineering, 2014, , 149-157. | 0.4 | 0 |
| 76 | 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 |
| 77 | 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 |
| 78 | Stationary Wavelet Transform for denoising Pulsed Thermography data: optimization of wavelet parameters for enhancing defects detection. , 0, , . | | 0 |
| 79 | Smart Localization of Microphones inside an Automotive Cabin. International Journal of Automotive Engineering, 2017, 8, 63-70. | 0.5 | 0 |
| 80 | Laser Doppler Vibrometry Measurements in Structural Dynamics. , 2022, , 103-147. | | 0 |