

Lorenzo Scalise

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4659190/publications.pdf>

Version: 2024-02-01

213
papers

2,286
citations

304743

22
h-index

345221

36
g-index

220
all docs

220
docs citations

220
times ranked

1670
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-Mixing Laser Diode Velocimetry: Application to Vibration and Velocity Measurement. IEEE Transactions on Instrumentation and Measurement, 2004, 53, 223-232.	4.7	172
2	Optical Vibrocardiography: A Novel Tool for the Optical Monitoring of Cardiac Activity. Annals of Biomedical Engineering, 2007, 35, 45-58.	2.5	95
3	Non-contact cardiac monitoring from carotid artery using optical vibrocardiography. Medical Engineering and Physics, 2008, 30, 490-497.	1.7	82
4	Wrist-worn and chest-strap wearable devices: Systematic review on accuracy and metrological characteristics. Measurement: Journal of the International Measurement Confederation, 2020, 159, 107789.	5.0	74
5	An optical measurement method for the simultaneous assessment of respiration and heart rates in preterm infants. Review of Scientific Instruments, 2013, 84, 121705.	1.3	66
6	Heart rate measurement in neonatal patients using a webcam. , 2012, , .		51
7	A Noncontact Approach for the Evaluation of Large Artery Stiffness: A Preliminary Study. American Journal of Hypertension, 2008, 21, 1280-1283.	2.0	47
8	Experimental Investigation of Electromagnetic Obstacle Detection for Visually Impaired Users: A Comparison With Ultrasonic Sensing. IEEE Transactions on Instrumentation and Measurement, 2012, 61, 3047-3057.	4.7	46
9	A Smart Sensing Architecture for Domestic Monitoring: Methodological Approach and Experimental Validation. Sensors, 2018, 18, 2310.	3.8	45
10	Non contact measurement of heart and respiration rates based on Kinect™, , 2014, , .		43
11	Wireless ECG and cardiac monitoring systems: State of the art, available commercial devices and useful electronic components. Measurement: Journal of the International Measurement Confederation, 2021, 177, 109243.	5.0	43
12	Measurement of respiration rate in preterm infants by laser Doppler vibrometry. , 2011, , .		41
13	Laser Doppler vibrometry based on self-mixing effect. Optics and Lasers in Engineering, 2002, 38, 173-184.	3.8	37
14	Teeth Mobility Measurement: A Laser Vibrometry Approach. Photomedicine and Laser Surgery, 1998, 16, 269-272.	0.9	30
15	Cardiorespiratory interactions: Noncontact assessment using laser Doppler vibrometry. Psychophysiology, 2016, 53, 847-867.	2.4	30
16	An IoT-inspired cloud-based web service architecture for e-Health applications. , 2016, , .		29
17	Measurement of Users™ Well-Being Through Domestic Sensors and Machine Learning Algorithms. IEEE Sensors Journal, 2020, 20, 8029-8038.	4.7	28
18	Fractal characterisation of boundary irregularity in skin pigmented lesions. Medical and Biological Engineering and Computing, 2005, 43, 436-442.	2.8	27

#	ARTICLE	IF	CITATIONS
19	Precision resonance energy scans with the PANDA experiment at FAIR. <i>European Physical Journal A</i> , 2019, 55, 1.	2.5	27
20	Measurement of vibrational modal parameters using laser pulse excitation techniques. <i>Measurement: Journal of the International Measurement Confederation</i> , 2004, 35, 163-179.	5.0	26
21	Fault detection for quality control of household appliances by non-invasive laser Doppler technique and likelihood classifier. <i>Measurement: Journal of the International Measurement Confederation</i> , 1999, 25, 237-247.	5.0	25
22	Glass-fiber self-mixing intra-arterial laser Doppler velocimetry: signal stability and feedback analysis. <i>Applied Optics</i> , 2002, 41, 658.	2.1	25
23	A photoelastic measurement system for residual stress analysis in scintillating crystals by conoscopic imaging. <i>Review of Scientific Instruments</i> , 2015, 86, 063102.	1.3	25
24	Measurement of multimodal physiological signals for stimulation detection by wearable devices. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021, 184, 109966.	5.0	25
25	Vibration measurements for diagnosis of structural defects on human teeth. <i>Measurement: Journal of the International Measurement Confederation</i> , 2000, 27, 29-42.	5.0	24
26	Measurement of stress-strain and vibrational properties of tendons. <i>Measurement Science and Technology</i> , 2003, 14, 1427-1436.	2.6	24
27	Cardiac valve prosthesis flow performances measured by 2D and 3D-stereo particle image velocimetry. <i>Experiments in Fluids</i> , 2004, 36, 176-186.	2.4	24
28	Impact of Wearable Measurement Properties and Data Quality on ADLs Classification Accuracy. <i>IEEE Sensors Journal</i> , 2021, 21, 14221-14231.	4.7	24
29	Self-mixing feedback in a laser diode for intra-arterial optical blood velocimetry. <i>Applied Optics</i> , 2001, 40, 4608.	2.1	23
30	A novel fiber optic sensor for multiple and simultaneous measurement of vibration velocity. <i>Review of Scientific Instruments</i> , 2004, 75, 1952-1958.	1.3	22
31	A novel approach for features extraction in physiological signals. , 2015, , .		22
32	Optical method for measurement of respiration rate. , 2010, , .		20
33	The non-contact measure of the heart rate variability by laser Doppler vibrometry: comparison with electrocardiography. <i>Measurement Science and Technology</i> , 2016, 27, 065701.	2.6	20
34	Wearables for health and fitness: Measurement characteristics and accuracy. , 2018, , .		20
35	Experimental and numerical investigation on structural effects of laser pulses for modal parameter measurement. <i>Optics and Lasers in Engineering</i> , 1999, 32, 565-581.	3.8	18
36	Inspection of birefringent media by photoelasticity: from diffuse light polariscope to laser conoscopic technique. <i>Optical Engineering</i> , 2015, 54, 081210.	1.0	18

#	ARTICLE	IF	CITATIONS
37	Assessment of Domestic Well-Being: From Perception to Measurement. IEEE Instrumentation and Measurement Magazine, 2021, 24, 58-67.	1.6	18
38	Wireless Sensing for the Respiratory Activity of Human Beings: Measurements and Wide-band Numerical Analysis. International Journal of Antennas and Propagation, 2013, 2013, 1-10.	1.2	17
39	A feasibility study of a compact radar system for autonomous walking of blind people. , 2016, , .		17
40	Accuracy and Precision of Wearable Devices for Real-Time Monitoring of Swimming Athletes. Sensors, 2022, 22, 4726.	3.8	17
41	A laser Doppler approach to cardiac motion monitoring: effects of surface and measurement position. , 2006, , .		16
42	Hand vibration: non-contact measurement of local transmissibility. International Archives of Occupational and Environmental Health, 2007, 81, 31-40.	2.3	16
43	Non contact monitoring of the respiration activity by electromagnetic sensing.. , 2011, , .		16
44	Features of the non-contact carotid pressure waveform: Cardiac and vascular dynamics during rebreathing. Review of Scientific Instruments, 2016, 87, 102501.	1.3	16
45	Implementation of an "eat-home" e-Health system using heterogeneous devices. , 2016, , .		16
46	Wearable devices as a valid support for diagnostic excellence: lessons from a pandemic going forward. Health and Technology, 2021, 11, 673-675.	3.6	16
47	Particle Image Velocimetry for Flow Analysis in Longitudinal Planes across a Mechanical Artificial Heart Valve. Artificial Organs, 2004, 28, 507-513.	1.9	15
48	Measurement of ultimate tensile strength and Young modulus in LYSO scintillating crystals. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 654, 122-126.	1.6	15
49	Heartbeat Detection by Laser Doppler Vibrometry and Machine Learning. Sensors, 2020, 20, 5362.	3.8	15
50	A New Method for the Experimental Assessment of Finger Haemodynamic Effects Induced by a Hydraulic Breaker in Operative Conditions. Journal of Occupational Health, 2004, 46, 253-259.	2.1	15
51	Stress distribution in fiber-reinforced composite inlay fixed partial dentures. Journal of Prosthetic Dentistry, 2005, 93, 425-432.	2.8	14
52	An Electromagnetic Sensor for the Autonomous Running of Visually Impaired and Blind Athletes (Part) Tj ETQq0 0 Q,rgBT /Overlock 10 T	3.8	14
53	Assessment of cardio-respiratory rates by non-invasive measurement methods in hospitalized preterm neonates. , 2018, , .		14
54	Experimental Assessment of Sleep-Related Parameters by Passive Infrared Sensors: Measurement Setup, Feature Extraction, and Uncertainty Analysis. Sensors, 2019, 19, 3773.	3.8	14

#	ARTICLE	IF	CITATIONS
55	Social Robot and Sensor Network in Support of Activity of Daily Living for People with Dementia. Communications in Computer and Information Science, 2019, , 128-135.	0.5	14
56	Design and Realization of an Electromagnetic Guiding System for Blind Running Athletes. Sensors, 2015, 15, 16466-16483.	3.8	13
57	An Electromagnetic Sensor for the Autonomous Running of Visually Impaired and Blind Athletes (Part) Tj ETQq1 1 0,784314 rgBT /Over	3.8	13
58	Measurement of the 100â€MHz EMF radiation in vivo effects on zebrafish D. rerio embryonic development: A multidisciplinary study. Ecotoxicology and Environmental Safety, 2018, 154, 268-279.	6.0	13
59	Measurement of stress waves in polymers generated by UV laser ablation. Optics and Lasers in Engineering, 2002, 38, 207-215.	3.8	12
60	Evaluation of Heart Rate Variability by means of Laser Doppler Vibrometry measurements. Journal of Physics: Conference Series, 2015, 658, 012002.	0.4	12
61	Health@Home: pilot cases and preliminary results : Integrated residential sensor network to promote the active aging of real users. , 2018, , .		12
62	Time-Resolved PIV Technique for High Temporal Resolution Measurement of Mechanical Prosthetic Aortic Valve Fluid Dynamics. International Journal of Artificial Organs, 2007, 30, 153-162.	1.4	11
63	Identification of cardiac events by Optical Vibrocardiography: comparison with Phonocardiography. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 2956-9.	0.5	11
64	Centre of pressure in dynamic posturography: a comparison among systems based on a pressure matrix and a force platform. Measurement Science and Technology, 2010, 21, 015801.	2.6	11
65	Decoding carotid pressure waveforms recorded by laser Doppler vibrometry: Effects of rebreathing. AIP Conference Proceedings, 2014, , .	0.4	11
66	Methodologies for continuous activity classification of user through wearable devices: Feasibility and preliminary investigation. , 2016, , .		11
67	Assistive sensor-based technology driven self-management for building resilience among people with early stage cognitive impairment. , 2019, , .		11
68	P1.36 A PRELIMINARY STUDY FOR THE EVALUATION OF LARGE ARTERY STIFFNESS: A NON CONTACT APPROACH. Artery Research, 2008, 2, 100.	0.6	10
69	Simultaneous measurement of respiration and cardiac period in preterm infants by laser Doppler vibrometry. AIP Conference Proceedings, 2012, , .	0.4	10
70	Laser doppler myography (LDMi): A novel non-contact measurement method for the muscle activity. Laser Therapy, 2013, 22, 261-268.	0.3	10
71	Teeth mobility measurement by laser Doppler vibrometer. Review of Scientific Instruments, 1999, 70, 2850-2855.	1.3	9
72	Multipoint optical fiber vibrometer. Review of Scientific Instruments, 2002, 73, 1321-1324.	1.3	9

#	ARTICLE	IF	CITATIONS
73	Accuracy of Heart Rate Measurements by a Smartwatch in Low Intensity Activities. , 2019, , .		9
74	Smart Monitoring of Userâ€™s Health at Home: Performance Evaluation and Signal Processing of a Wearable Sensor for the Measurement of Heart Rate and Breathing Rate. , 2016, , .		9
75	A non-contact optical procedure for precise measurement of respiration rate and flow. Proceedings of SPIE, 2010, , .	0.8	8
76	Laser Doppler vibrometry as a noncontact method to detect various degrees of atrioventricular block: a feasibility study. Future Cardiology, 2016, 12, 269-279.	1.2	8
77	Photoelastic sphenoscopic analysis of crystals. Review of Scientific Instruments, 2016, 87, 015113.	1.3	8
78	Indirect measurement of the carotid arterial pressure from vibrocardiographic signal: Calibration of the waveform and comparison with photoplethysmographic signal. , 2016, 2016, 3568-3571.		8
79	Noninvasive Inspection of Anisotropic Crystals: Innovative Photoelasticity-Based Methods. IEEE Transactions on Nuclear Science, 2018, 65, 2203-2207.	2.0	8
80	Measurement of Elderly Daily Physical Activity by Unobtrusive Instrumented Shoes. , 2018, , .		8
81	Quality Control and Structural Assessment of Anisotropic Scintillating Crystals. Crystals, 2019, 9, 376.	2.2	8
82	Enhanced video heart rate and respiratory rate evaluation: standard multiparameter monitor vs clinical confrontation in newborn patients. , 2019, , .		8
83	Facial Muscle Activity: High-Sensitivity Noncontact Measurement Using Laser Doppler Vibrometry. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	4.7	8
84	PIV Measurements of Flows in Artificial Heart Valves. , 2007, , 55-72.		8
85	A 3-D measurement system for the extraction of diagnostic parameters in suspected skin nevoid lesions. IEEE Transactions on Instrumentation and Measurement, 2000, 49, 924-928.	4.7	7
86	Preliminary results on the use of a noninvasive instrument for the evaluation of the depth of pigmented skin lesions: numerical simulations and experimental measurements. Lasers in Medical Science, 2010, 25, 403-410.	2.1	7
87	Pressure sensor matrix for indirect measurement of grip and push forces exerted on a handle. Measurement: Journal of the International Measurement Confederation, 2015, 73, 419-428.	5.0	7
88	Non-contact assessment of muscle contraction: Laser Doppler Myography. , 2015, , .		7
89	Bioimpedance measurements in dentistry to detect inflammation: numerical modelling and experimental results. Physiological Measurement, 2017, 38, 1145-1157.	2.1	7
90	Monte Carlo Optical Simulations of a Small FoV Gamma Camera. Effect of Scintillator Thicknesses and Septa Materials. Crystals, 2019, 9, 398.	2.2	7

#	ARTICLE	IF	CITATIONS
91	Experimental analysis of an integrated optics vibrometer. Review of Scientific Instruments, 2002, 73, 2180-2184.	1.3	6
92	Laser measurement of respiration activity in preterm infants: Monitoring of peculiar events. , 2012, , .		6
93	Electromagnetic travel aids for visually impaired users. , 2013, , .		6
94	Heart Rate assessment by means of a novel approach applied to signals of different nature. Journal of Physics: Conference Series, 2017, 778, 012001.	0.4	6
95	Wearable Devices and Diagnostic Apps: Beyond the Borders of Traditional Medicine, But What About Their Accuracy and Reliability?. IEEE Instrumentation and Measurement Magazine, 2021, 24, 89-94.	1.6	6
96	From cardiac to respiratory rate, from cardiac sounds to pulse velocity: a noncontact unified approach for the monitoring of vital signs by means of optical vibrocardiography. , 2008, , .		5
97	Muscle activity characterization by laser Doppler Myography. Journal of Physics: Conference Series, 2013, 459, 012017.	0.4	5
98	A novel measurement method for respiration rate by electromagnetic frequency sweep. , 2014, , .		5
99	The measurement of blood pressure without contact: An LDV-based technique. , 2017, , .		5
100	A case study on the characterization of Whole Body Vibration platforms for medical applications.. , 2018, , .		5
101	The potential of λ and χ studies with PANDA at FAIR. European Physical Journal A, 2021, 57, 1.	2.5	5
102	Heart Rate Variability Analysis With Wearable Devices: Influence of Artifact Correction Method on Classification Accuracy for Emotion Recognition. , 2021, , .		5
103	Quality Control and Characterization of Scintillating Crystals for High Energy Physics and Medical Applications. , 0, , .		5
104	A Pilot Cross-Sectional Study on Oral Health and Nutritional Status of Institutionalized Older Adults: A Focus on Sarcopenia. International Journal of Environmental Research and Public Health, 2021, 18, 13232.	2.6	5
105	<title>Self-mixing feedback Doppler vibrometry</title>. , 2002, , .		4
106	Noncontact Speckle-Based Velocity Sensor. IEEE Transactions on Instrumentation and Measurement, 2004, 53, 51-57.	4.7	4
107	Rejection of false saturation data in optical pulse-oximeter. Proceedings of SPIE, 2010, , .	0.8	4
108	Non-contact Laser-based Human Respiration Rate Measurement. AIP Conference Proceedings, 2011, , .	0.4	4

#	ARTICLE	IF	CITATIONS
109	Medical diagnosis of the cardiovascular system on the carotid artery with IR laser Doppler vibrometer. , 2014, , .		4
110	Multiparameter electromagnetic sensor for AAL indoor measurement of the respiration rate and position of a subject. , 2015, , .		4
111	LDV arterial pulse signal: Evidence for local generation in the carotid. AIP Conference Proceedings, 2016, , .	0.4	4
112	Effect of limbs' motion on pulse oximetry in preterm infants. , 2016, , .		4
113	An innovative therapy for peri-implantitis based on radio frequency electric current: Numerical simulation results and clinical evidence. , 2016, 2016, 5652-5655.		4
114	Cardiac Activity Classification using an E-Health App for a Wearable Device. , 2018, , .		4
115	Dataset from spirometer and sEMG wireless sensor for diaphragmatic respiratory activity monitoring. Data in Brief, 2019, 25, 104217.	1.0	4
116	A Novel Color-Based Segmentation Method for the Objective Measurement of Human Masticatory Performance. Applied Sciences (Switzerland), 2020, 10, 8626.	2.5	4
117	Metrological Characterization of Therapeutic Devices for Pressure Wave Therapy: Force, Energy Density, and Waveform Evaluation. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-8.	4.7	4
118	Smartwatches selection: market analysis and metrological characterization on the measurement of number of steps. , 2021, , .		4
119	Domestic Monitoring of Respiration and Movement by an Electromagnetic Sensor. Biosystems and Biorobotics, 2015, , 133-142.	0.3	4
120	Auswertung von Vibrometersignalen zur Bestimmung kardiovaskulärer Parameter. TM Technisches Messen, 2016, 83, 462-473.	0.7	4
121	Optical monitoring of the heart beat. WIT Transactions on Biomedicine and Health, 2005, , .	0.0	4
122	Measurement of hand-vibration transmissibility by non-contact measurement techniques. WIT Transactions on Biomedicine and Health, 2005, , .	0.0	4
123	<title>Integrated optics vibrometer and neural network processing for online diagnostics of household appliances</title>. , 1998, 3411, 485.		3
124	The electromagnetic technology for safe mobility of visually impaired people. , 2014, , .		3
125	An electromagnetic device for autonomous mobility of visually impaired people. , 2014, , .		3
126	Ambient assisted living electromagnetic sensor for continuous breathing monitoring applied to movement analysis: a preliminary study. , 2014, , .		3

#	ARTICLE	IF	CITATIONS
127	Design and realization of a wideband antenna for non-contact respiration monitoring in AAL application. , 2014, , .		3
128	An EM Modeling for Rescue System Design of Buried People. International Journal of Antennas and Propagation, 2015, 2015, 1-7.	1.2	3
129	Bioimpedancemetry for the assessment of periodontal tissue inflammation: a numerical feasibility study. Computer Methods in Biomechanics and Biomedical Engineering, 2017, 20, 682-690.	1.6	3
130	Comparative Evaluation of Cesium Iodide Scintillators Coupled to a Silicon Photomultiplier (SiPM): Effect of Thickness and Doping on the scintillators. Journal of Physics: Conference Series, 2017, 931, 012013.	0.4	3
131	Measuring the human psychophysiological conditions without contact. Journal of Physics: Conference Series, 2017, 882, 012016.	0.4	3
132	A novel experimental-based tool for the design of LoRa networks. , 2019, , .		3
133	Smart Monitoring of User and Home Environment: The Health@Home Acquisition Framework. Lecture Notes in Electrical Engineering, 2019, , 23-37.	0.4	3
134	Development of a Novel Medical Device for Mucositis and Peri-Implantitis Treatment. Bioengineering, 2020, 7, 87.	3.5	3
135	Fringe modelling and Photoelastic stress Measurement method in tetragonal PWO observed in the plane normal to a crystallographic a-axis. Journal of Instrumentation, 2020, 15, P09037-P09037.	1.2	3
136	Tactile Sensibility through Tactile Display: Effect of the Array Density and Clinical Use. Lecture Notes in Computer Science, 2012, , 589-600.	1.3	3
137	Luminescence and Structural Characterization of Gd ₂ O ₂ S Scintillators Doped with Tb ³⁺ , Ce ³⁺ , Pr ³⁺ and F for Imaging Applications. Crystals, 2022, 12, 854.	2.2	3
138	The importance of physiological data variability in wearable devices for digital health applications. Acta IMEKO (2012), 2022, 11, 1.	0.7	3
139	<title>Recent advances in self-mixing laser-Doppler velocimetry: use as an in-vivo blood flow meter</title>. , 2000, , .		2
140	<title>Self-mixing laser Doppler vibrometer</title>. , 2000, 4072, 25.		2
141	<title>Advances in self-mixing vibrometry</title>. , 2001, 4204, 103.		2
142	<title>Vibrational analysis of tendons' mechanical properties</title>. , 2002, 4827, 168.		2
143	Laser vibrometry and stress measurement by thermoelasticity on mechanical heart valve. , 2004, , .		2
144	A wearable multipoint ultrasonic travel aids for visually impaired. Journal of Physics: Conference Series, 2013, 459, 012063.	0.4	2

#	ARTICLE	IF	CITATIONS
145	A breathing detection medical device for rescue of buried people. , 2014, , .		2
146	Efficient numerical analytical tool for time domain obstacles detection. IET Science, Measurement and Technology, 2014, 8, 69-73.	1.6	2
147	A K-band miniaturized antenna for safe mobility of visually impaired people. , 2015, , .		2
148	Characterization and calibration of the central arterial pressure waveform obtained from vibrocardiographic signal. AIP Conference Proceedings, 2016, , .	0.4	2
149	Optimization of the photoelastic fringe pattern processing for the stress evaluation in scintillating anisotropic media. , 2017, , .		2
150	Contactless Measurement of Heart Rate for Exergames Applications. , 2018, , .		2
151	Experimental and Numerical dynamic characterization of a human tibia. Journal of Physics: Conference Series, 2018, 1149, 012029.	0.4	2
152	Noncontact Sensing of Facial Muscle Activity Using Laser Doppler Vibrometry: Time Domain Data Analysis. Journal of Physics: Conference Series, 2018, 1149, 012027.	0.4	2
153	Identification of Users Well-Being Related to External Stimuli: A Preliminary Investigation. Lecture Notes in Electrical Engineering, 2019, , 579-590.	0.4	2
154	Hydroxy-tyrosol as a Free Radical Scavenging Molecule in Polymeric Hydrogels Subjected to Gamma-Ray Irradiation. Processes, 2021, 9, 433.	2.8	2
155	Contactless Continuous Monitoring Of Respiration. , 2021, , .		2
156	Citizen-Oriented Technologies in the Cities of Tomorrow. , 2019, , 143-160.		2
157	What is my heart rate right now? Comparing data from different devices. , 2022, , .		2
158	<title>Dynamic characterization of teeth by laser vibrometry</title>. , 1998, , .		1
159	<title>Application of lasers for noncontact excitation and measurement of vibration</title>. , 2000, 4072, 280.		1
160	<title>Mechanical deformations in polymers by UV laser ablation</title>. , 2000, 4072, 329.		1
161	<title>Intelligent online quality control using discrete wavelet analysis features and likelihood classification</title>. , 2000, 4072, 500.		1
162	<title>Single-mode optical fiber interferometer for surface vibration measurement</title>. , 2001, , .		1

#	ARTICLE	IF	CITATIONS
163	<title>Development of an experimental test bench for the measurement of fluid dynamic behavior of mechanical heart valve</title>. , 2001, 4263, 65.		1
164	<title>Axe work II: vibro-acoustical study of solid-body electric guitars</title>. , 2002, , .		1
165	Multipoint optical fiber vibrometer. , 2005, 5776, 842.		1
166	Laser application on haptics: Tactile stiffness measurement. , 2012, , .		1
167	Non contact measurement of body temperature for the identification of thermoregulation abilities in preterm patients. , 2013, , .		1
168	Dynamic Investigation Test-rig on hAptics (DITA). Journal of Physics: Conference Series, 2013, 459, 012032.	0.4	1
169	A HYBRID NUMERICAL-ANALYTICAL MODEL FOR THE ELECTROMAGNETIC CHARACTERIZATION OF THE ADMITTANCE MATRIX OF SCATTERING OBJECTS. Progress in Electromagnetics Research B, 2013, 56, 203-218.	1.0	1
170	A measurement procedure for the assessment of thermoregulatory activity in premature babies. , 2015, , .		1
171	From Conoscopy to Sphenoscopy: New Experimental Methods in Crystals Inspections. , 2016, , .		1
172	Pulse oximeters in preterm patients: Effect of limb movement artifacts and positioning. , 2017, , .		1
173	Structural Characterization and Absolute Luminescence Efficiency Evaluation of Gd ₂ O ₂ S High Packing Density Ceramic Screens Doped with Tb ³⁺ and Eu ³⁺ for further Applications in Radiology. Journal of Physics: Conference Series, 2017, 931, 012029.	0.4	1
174	Metrological characterization of a therapeutic device for pressure wave therapy. Journal of Physics: Conference Series, 2018, 1110, 012001.	0.4	1
175	Accuracy and Metrological Characteristics of Wearable Devices: A Systematic Review. Lecture Notes in Electrical Engineering, 2019, , 377-387.	0.4	1
176	Electromagnetic Sensing of Obstacles for Visually Impaired Users. , 2014, , 187-194.		1
177	Derived Non-contact Continuous Recording of Blood Pressure Pulse Waveform by Means of Vibrocardiography. Lecture Notes in Electrical Engineering, 2018, , 365-372.	0.4	1
178	Non-contact procedure to measure heart and lung activities in preterm pediatric patients with skin disorders. , 2018, , .		1
179	A field-measurements-based LoRa network planning tool. Acta IMEKO (2012), 2020, 9, 21.	0.7	1
180	Theory of Vibrometry. , 2020, , 19-53.		1

#	ARTICLE	IF	CITATIONS
181	Measurement of Stride Time by Machine Learning: Sensitivity Analysis for the Simplification of the Experimental Protocol. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-9.	4.7	1
182	Design and Development of an Electro-Optic Measurement System for 3-D Topographic Surveys: Application to Skin Nevoid Lesions. Photomedicine and Laser Surgery, 1998, 16, 175-180.	0.9	0
183	<title>SLDV (scanning laser Doppler vibrometry) for the analysis of defects in the teeth cavity resin filling</title>. , 1999, , .		0
184	Tooth defect analysis with laser pulse excitation and laser Doppler vibrometry: thermal analysis of the excitation. , 1999, 3593, 158.		0
185	<title>In-vitro tensile testing machine for vibration study of fresh rabbit Achilles tendon</title>. , 2001, , .		0
186	Noncontact dynamic analysis of mechanical behavior of tendons by optical techniques. , 2001, , .		0
187	<title>Laser Doppler vibrometry for simultaneous multiple measurements</title>. , 2002, , .		0
188	Non-contact 2D speckle vibrometer. , 0, , .		0
189	Noncontact 2-D In-Plane Speckle Velocimeter. IEEE Transactions on Instrumentation and Measurement, 2008, 57, 1261-1267.	4.7	0
190	Pressure mat for hand-arm vibration on-field testing: Hardware, algorithms and interfaces for acquisition and processing. Clinical Biomechanics, 2008, 23, 711-712.	1.2	0
191	Assessment Of Suspected Skin Lesion Depth By Multispectral Digital Dermatoscopy: In-Vivo Tests. , 2010, , .		0
192	Rejection of Erroneous Saturation Data in Optical Pulse Oximetry in Newborn Patients. , 2011, , .		0
193	Laser in dentistry: Biostimulation and surgery. , 2012, , .		0
194	Non-contact, laser-based monitoring of physiological activity. International Journal of Psychophysiology, 2012, 85, 312.	1.0	0
195	Vibration transmissibility on rifle shooter: A comparison between accelerometer and laser Doppler vibrometer data. , 2014, , .		0
196	A 3-D body model for physical activity monitoring by microwave radiation. , 2015, , .		0
197	An electromagnetic contactless system for apnea monitoring. , 2016, , .		0
198	Optimal peripheral measurement point for the assessment of preterm patients in intensive care units. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
199	Computerized assessment of shunt and Ventilation-Perfusion mismatch in oxygen dependent infants. , 2018, , .		0
200	Performance evaluation of a small field of view scintigraphic camera for Tc-99m and Ga-67 molecular imaging applications. , 2018, , .		0
201	A novel approach for measuring treeline spatial complexity. IOP Conference Series: Earth and Environmental Science, 2019, 275, 012017.	0.3	0
202	Guest Editorial The 2018 IEEE International Symposium on Medical Measurements and Applications Special Section. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 2394-2395.	4.7	0
203	Small field of view nuclear imaging detector evaluation using Tc-99m and Ga-67 radioisotopes. Journal of Instrumentation, 2019, 14, T05005-T05005.	1.2	0
204	Guest Editorial Special Section on IEEE MeMeA 2019 Metrological Point of View in Medical Measurements. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 3280-3281.	4.7	0
205	Comfort assessment in the use of shotgun for skeet shooting: an EMG based approach. , 2020, , .		0
206	A colour-based image segmentation method for the measurement of masticatory performance in older adults. Acta IMEKO (2012), 2021, 10, 191.	0.7	0
207	Measuring Environmental Data and Physiological Parameters at Home to Assess the Caregiver Burden in Assistants of People with Dementia. Lecture Notes in Electrical Engineering, 2021, , 3-13.	0.4	0
208	<title>Particle image velocimetry for flow analysis in mechanical artificial heart valves</title>. , 2001, , .		0
209	A Novel Optical Device for End Tidal Air Sampling in Breath Analysis. Lecture Notes in Electrical Engineering, 2014, , 449-452.	0.4	0
210	Theoretical Model for Remote Heartbeat Detection Using Radiofrequency Waves. Lecture Notes in Electrical Engineering, 2017, , 19-29.	0.4	0
211	Bioimpedance Measurement in Dentistry: Detection of Inflamed Tissues. Lecture Notes in Electrical Engineering, 2018, , 286-293.	0.4	0
212	Fiber-reinforced composite inlay fixed partial dentures: the influence of restorative materials and abutment design on stress distribution investigated by finite element model. Minerva Stomatologica: A Journal on Dentistry and Maxillofacial Surgery, 2009, 58, 459-70.	1.3	0
213	Fibre-reinforced composite crowns luted to implant abutments via electroformed primary copings: an in vitro retention study. Minerva Stomatologica: A Journal on Dentistry and Maxillofacial Surgery, 2012, 61, 355-65.	1.3	0