

Lorenzo Scalise

List of Publications by Year in descending order

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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	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
2	Accuracy and Precision of Wearable Devices for Real-Time Monitoring of Swimming Athletes. Sensors, 2022, 22, 4726.	3.8	17
3	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
4	What is my heart rate right now? Comparing data from different devices. , 2022, , .		2
5	The importance of physiological data variability in wearable devices for digital health applications. Acta IMEKO (2012), 2022, 11, 1.	0.7	3
6	Impact of Wearable Measurement Properties and Data Quality on ADLs Classification Accuracy. IEEE Sensors Journal, 2021, 21, 14221-14231.	4.7	24
7	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
8	Facial Muscle Activity: High-Sensitivity Noncontact Measurement Using Laser Doppler Vibrometry. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	4.7	8
9	Hydroxy-tyrosol as a Free Radical Scavenging Molecule in Polymeric Hydrogels Subjected to Gamma-Ray Irradiation. Processes, 2021, 9, 433.	2.8	2
10	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
11	The potential of λ and χ^2 studies with PANDA at FAIR. European Physical Journal A, 2021, 57, 1.	2.5	5
12	Heart Rate Variability Analysis With Wearable Devices: Influence of Artifact Correction Method on Classification Accuracy for Emotion Recognition. , 2021, , .		5
13	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
14	Contactless Continuous Monitoring Of Respiration. , 2021, , .		2
15	A colour-based image segmentation method for the measurement of masticatory performance in older adults. Acta IMEKO (2012), 2021, 10, 191.	0.7	0
16	Smartwatches selection: market analysis and metrological characterization on the measurement of number of steps. , 2021, , .		4
17	Assessment of Domestic Well-Being: From Perception to Measurement. IEEE Instrumentation and Measurement Magazine, 2021, 24, 58-67.	1.6	18
18	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

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19	Measurement of multimodal physiological signals for stimulation detection by wearable devices. Measurement: Journal of the International Measurement Confederation, 2021, 184, 109966.	5.0	25
20	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
21	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
22	Heartbeat Detection by Laser Doppler Vibrometry and Machine Learning. Sensors, 2020, 20, 5362.	3.8	15
23	A Novel Color-Based Segmentation Method for the Objective Measurement of Human Masticatory Performance. Applied Sciences (Switzerland), 2020, 10, 8626.	2.5	4
24	Development of a Novel Medical Device for Mucositis and Peri-Implantitis Treatment. Bioengineering, 2020, 7, 87.	3.5	3
25	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
26	Comfort assessment in the use of shotgun for skeet shooting: an EMG based approach. , 2020, , .		0
27	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
28	Measurement of Usersâ€™ Well-Being Through Domotic Sensors and Machine Learning Algorithms. IEEE Sensors Journal, 2020, 20, 8029-8038.	4.7	28
29	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
30	A field-measurements-based LoRa network planning tool. Acta IMEKO (2012), 2020, 9, 21.	0.7	1
31	Theory of Vibrometry. , 2020, , 19-53.		1
32	A novel experimental-based tool for the design of LoRa networks. , 2019, , .		3
33	Dataset from spirometer and sEMG wireless sensor for diaphragmatic respiratory activity monitoring. Data in Brief, 2019, 25, 104217.	1.0	4
34	Quality Control and Structural Assessment of Anisotropic Scintillating Crystals. Crystals, 2019, 9, 376.	2.2	8
35	Accuracy of Heart Rate Measurements by a Smartwatch in Low Intensity Activities. , 2019, , .		9
36	A novel approach for measuring treeline spatial complexity. IOP Conference Series: Earth and Environmental Science, 2019, 275, 012017.	0.3	0

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37	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
38	Enhanced video heart rate and respiratory rate evaluation: standard multiparameter monitor vs clinical confrontation in newborn patients. , 2019, , .		8
39	Monte Carlo Optical Simulations of a Small FoV Gamma Camera. Effect of Scintillator Thicknesses and Septa Materials. Crystals, 2019, 9, 398.	2.2	7
40	Experimental Assessment of Sleep-Related Parameters by Passive Infrared Sensors: Measurement Setup, Feature Extraction, and Uncertainty Analysis. Sensors, 2019, 19, 3773.	3.8	14
41	Identification of Usersâ€™ Well-Being Related to External Stimuli: A Preliminary Investigation. Lecture Notes in Electrical Engineering, 2019, , 579-590.	0.4	2
42	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
43	Smart Monitoring of User and Home Environment: The Health@Home Acquisition Framework. Lecture Notes in Electrical Engineering, 2019, , 23-37.	0.4	3
44	Precision resonance energy scans with the PANDA experiment at FAIR. European Physical Journal A, 2019, 55, 1.	2.5	27
45	Accuracy and Metrological Characteristics of Wearable Devices: A Systematic Review. Lecture Notes in Electrical Engineering, 2019, , 377-387.	0.4	1
46	Assistive sensor-based technology driven self-management for building resilience among people with early stage cognitive impairment. , 2019, , .		11
47	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
48	Citizen-Oriented Technologies in the Cities of Tomorrow. , 2019, , 143-160.		2
49	Noninvasive Inspection of Anisotropic Crystals: Innovative Photoelasticity-Based Methods. IEEE Transactions on Nuclear Science, 2018, 65, 2203-2207.	2.0	8
50	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
51	Contactless Measurement of Heart Rate for Exergames Applications. , 2018, , .		2
52	Metrological characterization of a therapeutic device for pressure wave therapy. Journal of Physics: Conference Series, 2018, 1110, 012001.	0.4	1
53	Experimental and Numerical dynamic characterization of a human tibia. Journal of Physics: Conference Series, 2018, 1149, 012029.	0.4	2
54	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

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55	A case study on the characterization of Whole Body Vibration platforms for medical applications.. , 2018, , .		5
56	Measurement of Elderly Daily Physical Activity by Unobtrusive Instrumented Shoes. , 2018, , .		8
57	Computerized assessment of shunt and Ventilation-Perfusion mismatch in oxygen dependent infants. , 2018, , .		0
58	Wearables for health and fitness: Measurement characteristics and accuracy. , 2018, , .		20
59	A Smart Sensing Architecture for Domestic Monitoring: Methodological Approach and Experimental Validation. Sensors, 2018, 18, 2310.	3.8	45
60	Cardiac Activity Classification using an E-Health App for a Wearable Device. , 2018, , .		4
61	Health@Home: pilot cases and preliminary results : Integrated residential sensor network to promote the active aging of real users. , 2018, , .		12
62	Performance evaluation of a small field of view scintigraphic camera for Tc-99m and Ga-67 molecular imaging applications. , 2018, , .		0
63	Assessment of cardio-respiratory rates by non-invasive measurement methods in hospitalized preterm neonates. , 2018, , .		14
64	Bioimpedance Measurement in Dentistry: Detection of Inflamed Tissues. Lecture Notes in Electrical Engineering, 2018, , 286-293.	0.4	0
65	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
66	Non-contact procedure to measure heart and lung activities in preterm pediatric patients with skin disorders. , 2018, , .		1
67	Bioimpedance measurements in dentistry to detect inflammation: numerical modelling and experimental results. Physiological Measurement, 2017, 38, 1145-1157.	2.1	7
68	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
69	Optimization of the photoelastic fringe pattern processing for the stress evaluation in scintillating anisotropic media. , 2017, , .		2
70	Pulse oximeters in preterm patients: Effect of limb movement artifacts and positioning. , 2017, , .		1
71	The measurement of blood pressure without contact: An LDV-based technique. , 2017, , .		5
72	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

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73	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
74	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
75	Measuring the human psychophysiological conditions without contact. Journal of Physics: Conference Series, 2017, 882, 012016.	0.4	3
76	An Electromagnetic Sensor for the Autonomous Running of Visually Impaired and Blind Athletes (Part) Tj ETQq0 0 0, rgBT /Overlock 10 T	3.8	13
77	An Electromagnetic Sensor for the Autonomous Running of Visually Impaired and Blind Athletes (Part) Tj ETQq1 1 0, 784314 rgBT /Overl	3.8	14
78	Theoretical Model for Remote Heartbeat Detection Using Radiofrequency Waves. Lecture Notes in Electrical Engineering, 2017, , 19-29.	0.4	0
79	LDV arterial pulse signal: Evidence for local generation in the carotid. AIP Conference Proceedings, 2016, , .	0.4	4
80	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
81	Cardiorespiratory interactions: Noncontact assessment using laser Doppler vibrometry. Psychophysiology, 2016, 53, 847-867.	2.4	30
82	Features of the non-contact carotid pressure waveform: Cardiac and vascular dynamics during rebreathing. Review of Scientific Instruments, 2016, 87, 102501.	1.3	16
83	From Conoscopy to Sphenoscopy: New Experimental Methods in Crystals Inspections. , 2016, , .		1
84	Photoelastic sphenoscopic analysis of crystals. Review of Scientific Instruments, 2016, 87, 015113.	1.3	8
85	Characterization and calibration of the central arterial pressure waveform obtained from vibrocardiographic signal. AIP Conference Proceedings, 2016, , .	0.4	2
86	The non-contact measure of the heart rate variability by laser Doppler vibrometry: comparison with electrocardiography. Measurement Science and Technology, 2016, 27, 065701.	2.6	20
87	Effect of limbs' motion on pulse oximetry in preterm infants. , 2016, , .		4
88	An IoT-inspired cloud-based web service architecture for e-Health applications. , 2016, , .		29
89	An electromagnetic contactless system for apnea monitoring. , 2016, , .		0
90	Implementation of an "eat-home" e-Health system using heterogeneous devices. , 2016, , .		16

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91	An innovative therapy for peri-implantitis based on radio frequency electric current: Numerical simulation results and clinical evidence. , 2016, 2016, 5652-5655.		4
92	A feasibility study of a compact radar system for autonomous walking of blind people. , 2016, , .		17
93	Indirect measurement of the carotid arterial pressure from vibrocardiographic signal: Calibration of the waveform and comparison with photoplethysmographic signal. , 2016, 2016, 3568-3571.		8
94	Optimal peripheral measurement point for the assessment of preterm patients in intensive care units. , 2016, , .		0
95	Methodologies for continuous activity classification of user through wearable devices: Feasibility and preliminary investigation. , 2016, , .		11
96	Auswertung von Vibrometersignalen zur Bestimmung kardiovaskulärer Parameter. TM Technisches Messen, 2016, 83, 462-473.	0.7	4
97	Smart Monitoring of User's Health at Home: Performance Evaluation and Signal Processing of a Wearable Sensor for the Measurement of Heart Rate and Breathing Rate. , 2016, , .		9
98	A photoelastic measurement system for residual stress analysis in scintillating crystals by conoscopic imaging. Review of Scientific Instruments, 2015, 86, 063102.	1.3	25
99	Design and Realization of an Electromagnetic Guiding System for Blind Running Athletes. Sensors, 2015, 15, 16466-16483.	3.8	13
100	An EM Modeling for Rescue System Design of Buried People. International Journal of Antennas and Propagation, 2015, 2015, 1-7.	1.2	3
101	Evaluation of Heart Rate Variability by means of Laser Doppler Vibrometry measurements. Journal of Physics: Conference Series, 2015, 658, 012002.	0.4	12
102	A measurement procedure for the assessment of thermoregulatory activity in premature babies. , 2015, , .		1
103	A 3-D body model for physical activity monitoring by microwave radiation. , 2015, , .		0
104	A K-band miniaturized antenna for safe mobility of visually impaired people. , 2015, , .		2
105	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
106	Inspection of birefringent media by photoelasticity: from diffuse light polariscope to laser conoscopic technique. Optical Engineering, 2015, 54, 081210.	1.0	18
107	A novel approach for features extraction in physiological signals. , 2015, , .		22
108	Non-contact assessment of muscle contraction: Laser Doppler Myography. , 2015, , .		7

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109	Multiparameter electromagnetic sensor for AAL indoor measurement of the respiration rate and position of a subject. , 2015, , .		4
110	Domestic Monitoring of Respiration and Movement by an Electromagnetic Sensor. Biosystems and Biorobotics, 2015, , 133-142.	0.3	4
111	The electromagnetic technology for safe mobility of visually impaired people. , 2014, , .		3
112	An electromagnetic device for autonomous mobility of visually impaired people. , 2014, , .		3
113	Medical diagnosis of the cardiovascular system on the carotid artery with IR laser Doppler vibrometer. , 2014, , .		4
114	Vibration transmissibility on rifle shooter: A comparison between accelerometer and laser Doppler vibrometer data. , 2014, , .		0
115	Decoding carotid pressure waveforms recorded by laser Doppler vibrometry: Effects of rebreathing. AIP Conference Proceedings, 2014, , .	0.4	11
116	Ambient assisted living electromagnetic sensor for continuous breathing monitoring applied to movement analysis: a preliminary study. , 2014, , .		3
117	Design and realization of a wideband antenna for non-contact respiration monitoring in AAL application. , 2014, , .		3
118	Non contact measurement of heart and respiration rates based on Kinect™, , 2014, , .		43
119	A breathing detection medical device for rescue of buried people. , 2014, , .		2
120	A novel measurement method for respiration rate by electromagnetic frequency sweep. , 2014, , .		5
121	Efficient numerical“ analytical tool for time domain obstacles detection. IET Science, Measurement and Technology, 2014, 8, 69-73.	1.6	2
122	A Novel Optical Device for End Tidal Air Sampling in Breath Analysis. Lecture Notes in Electrical Engineering, 2014, , 449-452.	0.4	0
123	Electromagnetic Sensing of Obstacles for Visually Impaired Users. , 2014, , 187-194.		1
124	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
125	Muscle activity characterization by laser Doppler Myography. Journal of Physics: Conference Series, 2013, 459, 012017.	0.4	5
126	Electromagnetic travel aids for visually impaired users. , 2013, , .		6

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127	Non contact measurement of body temperature for the identification of thermoregulation abilities in preterm patients. , 2013, , .		1
128	Dynamic Investigation Test-rig on hAptics (DITA). Journal of Physics: Conference Series, 2013, 459, 012032.	0.4	1
129	A wearable multipoint ultrasonic travel aids for visually impaired. Journal of Physics: Conference Series, 2013, 459, 012063.	0.4	2
130	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
131	Laser doppler myography (LDMi): A novel non-contact measurement method for the muscle activity. Laser Therapy, 2013, 22, 261-268.	0.3	10
132	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
133	Laser application on haptics: Tactile stiffness measurement. , 2012, , .		1
134	Laser measurement of respiration activity in preterm infants: Monitoring of peculiar events. , 2012, , .		6
135	Laser in dentistry: Biostimulation and surgery. , 2012, , .		0
136	Simultaneous measurement of respiration and cardiac period in preterm infants by laser Doppler vibrometry. AIP Conference Proceedings, 2012, , .	0.4	10
137	Non-contact, laser-based monitoring of physiological activity. International Journal of Psychophysiology, 2012, 85, 312.	1.0	0
138	Heart rate measurement in neonatal patients using a webcam. , 2012, , .		51
139	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
140	Tactile Sensibility through Tactile Display: Effect of the Array Density and Clinical Use. Lecture Notes in Computer Science, 2012, , 589-600.	1.3	3
141	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
142	Measurement of respiration rate in preterm infants by laser Doppler vibrometry. , 2011, , .		41
143	Non contact monitoring of the respiration activity by electromagnetic sensing.. , 2011, , .		16
144	Rejection of Erroneous Saturation Data in Optical Pulse Oximetry in Newborn Patients. , 2011, , .		0

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145	Non-contact Laser-based Human Respiration Rate Measurement. AIP Conference Proceedings, 2011, , .	0.4	4
146	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
147	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
148	A non-contact optical procedure for precise measurement of respiration rate and flow. Proceedings of SPIE, 2010, , .	0.8	8
149	Rejection of false saturation data in optical pulse-oximeter. Proceedings of SPIE, 2010, , .	0.8	4
150	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
151	Assessment Of Suspected Skin Lesion Depth By Multispectral Digital Dermatoscopy: In-Vivo Tests. , 2010, , .		0
152	Optical method for measurement of respiration rate. , 2010, , .		20
153	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
154	Non-contact cardiac monitoring from carotid artery using optical vibrocardiography. Medical Engineering and Physics, 2008, 30, 490-497.	1.7	82
155	Noncontact 2-D In-Plane Speckle Velocimeter. IEEE Transactions on Instrumentation and Measurement, 2008, 57, 1261-1267.	4.7	0
156	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
157	P1.36 A PRELIMINARY STUDY FOR THE EVALUATION OF LARGE ARTERY STIFFNESS: A NON CONTACT APPROACH. Artery Research, 2008, 2, 100.	0.6	10
158	A Noncontact Approach for the Evaluation of Large Artery Stiffness: A Preliminary Study. American Journal of Hypertension, 2008, 21, 1280-1283.	2.0	47
159	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
160	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
161	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
162	Optical Vibrocardiography: A Novel Tool for the Optical Monitoring of Cardiac Activity. Annals of Biomedical Engineering, 2007, 35, 45-58.	2.5	95

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163	Hand vibration: non-contact measurement of local transmissibility. International Archives of Occupational and Environmental Health, 2007, 81, 31-40.	2.3	16
164	PIV Measurements of Flows in Artificial Heart Valves. , 2007, , 55-72.		8
165	A laser Doppler approach to cardiac motion monitoring: effects of surface and measurement position. , 2006, , .		16
166	Multipoint optical fiber vibrometer. , 2005, 5776, 842.		1
167	Stress distribution in fiber-reinforced composite inlay fixed partial dentures. Journal of Prosthetic Dentistry, 2005, 93, 425-432.	2.8	14
168	Fractal characterisation of boundary irregularity in skin pigmented lesions. Medical and Biological Engineering and Computing, 2005, 43, 436-442.	2.8	27
169	Optical monitoring of the heart beat. WIT Transactions on Biomedicine and Health, 2005, , .	0.0	4
170	Measurement of hand-vibration transmissibility by non-contact measurement techniques. WIT Transactions on Biomedicine and Health, 2005, , .	0.0	4
171	Particle Image Velocimetry for Flow Analysis in Longitudinal Planes across a Mechanical Artificial Heart Valve. Artificial Organs, 2004, 28, 507-513.	1.9	15
172	Self-Mixing Laser Diode Velocimetry: Application to Vibration and Velocity Measurement. IEEE Transactions on Instrumentation and Measurement, 2004, 53, 223-232.	4.7	172
173	Noncontact Speckle-Based Velocity Sensor. IEEE Transactions on Instrumentation and Measurement, 2004, 53, 51-57.	4.7	4
174	Cardiac valve prosthesis flow performances measured by 2D and 3D-stereo particle image velocimetry. Experiments in Fluids, 2004, 36, 176-186.	2.4	24
175	Measurement of vibrational modal parameters using laser pulse excitation techniques. Measurement: Journal of the International Measurement Confederation, 2004, 35, 163-179.	5.0	26
176	A novel fiber optic sensor for multiple and simultaneous measurement of vibration velocity. Review of Scientific Instruments, 2004, 75, 1952-1958.	1.3	22
177	Laser vibrometry and stress measurement by thermoelasticity on mechanical heart valve. , 2004, , .		2
178	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
179	Measurement of stress-strain and vibrational properties of tendons. Measurement Science and Technology, 2003, 14, 1427-1436.	2.6	24
180	Experimental analysis of an integrated optics vibrometer. Review of Scientific Instruments, 2002, 73, 2180-2184.	1.3	6

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181	Multipoint optical fiber vibrometer. Review of Scientific Instruments, 2002, 73, 1321-1324.	1.3	9
182	<title>Axe work II: vibro-acoustical study of solid-body electric guitars</title>. , 2002, , .		1
183	<title>Laser Doppler vibrometry for simultaneous multiple measurements</title>. , 2002, , .		0
184	<title>Vibrational analysis of tendons' mechanical properties</title>. , 2002, 4827, 168.		2
185	<title>Self-mixing feedback Doppler vibrometry</title>. , 2002, , .		4
186	Glass-fiber self-mixing intra-arterial laser Doppler velocimetry: signal stability and feedback analysis. Applied Optics, 2002, 41, 658.	2.1	25
187	Laser Doppler vibrometry based on self-mixing effect. Optics and Lasers in Engineering, 2002, 38, 173-184.	3.8	37
188	Measurement of stress waves in polymers generated by UV laser ablation. Optics and Lasers in Engineering, 2002, 38, 207-215.	3.8	12
189	Self-mixing feedback in a laser diode for intra-arterial optical blood velocimetry. Applied Optics, 2001, 40, 4608.	2.1	23
190	<title>Advances in self-mixing vibrometry</title>. , 2001, 4204, 103.		2
191	<title>In-vitro tensile testing machine for vibration study of fresh rabbit Achilles tendon</title>. , 2001, , .		0
192	<title>Single-mode optical fiber interferometer for surface vibration measurement</title>. , 2001, , .		1
193	<title>Development of an experimental test bench for the measurement of fluid dynamic behavior of mechanical heart valve</title>. , 2001, 4263, 65.		1
194	Noncontact dynamic analysis of mechanical behavior of tendons by optical techniques. , 2001, , .		0
195	<title>Particle image velocimetry for flow analysis in mechanical artificial heart valves</title>. , 2001, , .		0
196	<title>Application of lasers for noncontact excitation and measurement of vibration</title>. , 2000, 4072, 280.		1
197	<title>Mechanical deformations in polymers by UV laser ablation</title>. , 2000, 4072, 329.		1
198	<title>Intelligent online quality control using discrete wavelet analysis features and likelihood classification</title>. , 2000, 4072, 500.		1

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199	<title>Recent advances in self-mixing laser-Doppler velocimetry: use as an in-vivo blood flow meter</title>. , 2000, , .		2
200	Vibration measurements for diagnosis of structural defects on human teeth. Measurement: Journal of the International Measurement Confederation, 2000, 27, 29-42.	5.0	24
201	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
202	<title>Self-mixing laser Doppler vibrometer</title>. , 2000, 4072, 25.		2
203	Teeth mobility measurement by laser Doppler vibrometer. Review of Scientific Instruments, 1999, 70, 2850-2855.	1.3	9
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