

Emiliano Schena

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7035245/publications.pdf>

Version: 2024-02-01

269
papers

6,723
citations

53751

45
h-index

88593

70
g-index

274
all docs

274
docs citations

274
times ranked

4976
citing authors

#	ARTICLE	IF	CITATIONS
1	Contact-Based Methods for Measuring Respiratory Rate. <i>Sensors</i> , 2019, 19, 908.	2.1	259
2	Fiber Bragg Gratings for Medical Applications and Future Challenges: A Review. <i>IEEE Access</i> , 2020, 8, 156863-156888.	2.6	187
3	Techniques for temperature monitoring during laser-induced thermotherapy: An overview. <i>International Journal of Hyperthermia</i> , 2013, 29, 609-619.	1.1	185
4	Optical Fiber-Based MR-Compatible Sensors for Medical Applications: An Overview. <i>Sensors</i> , 2013, 13, 14105-14120.	2.1	179
5	The Importance of Respiratory Rate Monitoring: From Healthcare to Sport and Exercise. <i>Sensors</i> , 2020, 20, 6396.	2.1	168
6	Fiber Optic Sensors for Temperature Monitoring during Thermal Treatments: An Overview. <i>Sensors</i> , 2016, 16, 1144.	2.1	156
7	Wearable System Based on Flexible FBG for Respiratory and Cardiac Monitoring. <i>IEEE Sensors Journal</i> , 2019, 19, 7391-7398.	2.4	147
8	Medical Smart Textiles Based on Fiber Optic Technology: An Overview. <i>Journal of Functional Biomaterials</i> , 2015, 6, 204-221.	1.8	137
9	Theoretical Analysis and Experimental Evaluation of Laser-Induced Interstitial Thermotherapy in Ex Vivo Porcine Pancreas. <i>IEEE Transactions on Biomedical Engineering</i> , 2012, 59, 2958-2964.	2.5	130
10	Fiber optic sensors for sub-centimeter spatially resolved measurements: Review and biomedical applications. <i>Optical Fiber Technology</i> , 2018, 43, 6-19.	1.4	117
11	Laser Ablation for Cancer: Past, Present and Future. <i>Journal of Functional Biomaterials</i> , 2017, 8, 19.	1.8	116
12	Smart Textile Based on Fiber Bragg Grating Sensors for Respiratory Monitoring: Design and Preliminary Trials. <i>Biosensors</i> , 2015, 5, 602-615.	2.3	114
13	CT-based thermometry: An overview. <i>International Journal of Hyperthermia</i> , 2014, 30, 219-227.	1.1	104
14	Flow measurement in mechanical ventilation: A review. <i>Medical Engineering and Physics</i> , 2015, 37, 257-264.	0.8	101
15	Smart textile for respiratory monitoring and thoracoabdominal motion pattern evaluation. <i>Journal of Biophotonics</i> , 2018, 11, e201700263.	1.1	96
16	Micromachined Flow Sensors in Biomedical Applications. <i>Micromachines</i> , 2012, 3, 225-243.	1.4	91
17	Microfabricated Tactile Sensors for Biomedical Applications: A Review. <i>Biosensors</i> , 2014, 4, 422-448.	2.3	88
18	Smart Textile Based on 12 Fiber Bragg Gratings Array for Vital Signs Monitoring. <i>IEEE Sensors Journal</i> , 2017, 17, 6037-6043.	2.4	85

#	ARTICLE	IF	CITATIONS
19	Cardio-Respiratory Monitoring in Archery Using a Smart Textile Based on Flexible Fiber Bragg Grating Sensors. <i>Sensors</i> , 2019, 19, 3581.	2.1	82
20	Contactless Monitoring of Breathing Patterns and Respiratory Rate at the Pit of the Neck: A Single Camera Approach. <i>Journal of Sensors</i> , 2018, 2018, 1-13.	0.6	80
21	Virtual Reality, Augmented Reality, Gamification, and Telerehabilitation: Psychological Impact on Orthopedic Patients's™ Rehabilitation. <i>Journal of Clinical Medicine</i> , 2020, 9, 2567.	1.0	80
22	Breathing pattern and chest wall volumes during exercise in patients with cystic fibrosis, pulmonary fibrosis and COPD before and after lung transplantation. <i>Thorax</i> , 2010, 65, 808-814.	2.7	78
23	Contactless Methods For Measuring Respiratory Rate: A Review. <i>IEEE Sensors Journal</i> , 2021, 21, 12821-12839.	2.4	77
24	Remote Respiratory Monitoring in the Time of COVID-19. <i>Frontiers in Physiology</i> , 2020, 11, 635.	1.3	76
25	Design and Feasibility Assessment of a Magnetic Resonance-Compatible Smart Textile Based on Fiber Bragg Grating Sensors for Respiratory Monitoring. <i>IEEE Sensors Journal</i> , 2016, 16, 8103-8110.	2.4	73
26	Feasibility of EUS-guided Nd:YAG laser ablation of unresectable pancreatic adenocarcinoma. <i>Gastrointestinal Endoscopy</i> , 2018, 88, 168-174.e1.	0.5	73
27	Optoelectronic Plethysmography in Clinical Practice and Research: A Review. <i>Respiration</i> , 2017, 93, 339-354.	1.2	70
28	Experimental assessment of CT-based thermometry during laser ablation of porcine pancreas. <i>Physics in Medicine and Biology</i> , 2013, 58, 5705-5716.	1.6	66
29	Smart Textile Based on Piezoresistive Sensing Elements for Respiratory Monitoring. <i>IEEE Sensors Journal</i> , 2019, 19, 7718-7725.	2.4	66
30	Non-Contact Monitoring of Breathing Pattern and Respiratory Rate via RGB Signal Measurement. <i>Sensors</i> , 2019, 19, 2758.	2.1	65
31	Application of Nanoparticles and Nanomaterials in Thermal Ablation Therapy of Cancer. <i>Nanomaterials</i> , 2019, 9, 1195.	1.9	64
32	Thermal ablation of pancreatic cancer: A systematic literature review of clinical practice and pre-clinical studies. <i>International Journal of Hyperthermia</i> , 2018, 35, 398-418.	1.1	62
33	Wearable systems for shoulder kinematics assessment: a systematic review. <i>BMC Musculoskeletal Disorders</i> , 2019, 20, 546.	0.8	62
34	A Machine-Learning-Based Approach to Solve Both Contact Location and Force in Soft Material Tactile Sensors. <i>Soft Robotics</i> , 2020, 7, 409-420.	4.6	61
35	A Multi-Parametric Wearable System to Monitor Neck Movements and Respiratory Frequency of Computer Workers. <i>Sensors</i> , 2020, 20, 536.	2.1	60
36	Fiber Bragg Grating Sensors for Cardiorespiratory Monitoring: A Review. <i>IEEE Sensors Journal</i> , 2021, 21, 14069-14080.	2.4	60

#	ARTICLE	IF	CITATIONS
37	Retear rates after rotator cuff surgery: a systematic review and meta-analysis. BMC Musculoskeletal Disorders, 2021, 22, 749.	0.8	60
38	Fiber Bragg Grating Measuring System for Simultaneous Monitoring of Temperature and Humidity in Mechanical Ventilation. Sensors, 2017, 17, 749.	2.1	54
39	Stature estimation from scapular measurements by CT scan evaluation in an Italian population. Legal Medicine, 2013, 15, 202-208.	0.6	53
40	Functional mimicry of Ruffini receptors with fibre Bragg gratings and deep neural networks enables a bio-inspired large-area tactile-sensitive skin. Nature Machine Intelligence, 2022, 4, 425-435.	8.3	53
41	Temperature monitoring during microwave ablation in ex vivo porcine livers. European Journal of Surgical Oncology, 2015, 41, 1699-1705.	0.5	52
42	Detection of thermal gradients through fiber-optic Chirped Fiber Bragg Grating (CFBG): Medical thermal ablation scenario. Optical Fiber Technology, 2018, 41, 48-55.	1.4	50
43	Assessment of temperature measurement error and its correction during Nd:YAG laser ablation in porcine pancreas. International Journal of Hyperthermia, 2014, 30, 328-334.	1.1	47
44	Optical Fiber Gratings for Humidity Measurements: A Review. IEEE Sensors Journal, 2018, 18, 9065-9074.	2.4	47
45	Multi-fiber distributed thermal profiling of minimally invasive thermal ablation with scattering-level multiplexing in MgO-doped fibers. Biomedical Optics Express, 2019, 10, 1282.	1.5	47
46	Determination of stature from skeletal and skull measurements by CT scan evaluation. Forensic Science International, 2012, 222, 398.e1-398.e9.	1.3	46
47	A Needlelike Probe for Temperature Monitoring During Laser Ablation Based on Fiber Bragg Grating: Manufacturing and Characterization. Journal of Medical Devices, Transactions of the ASME, 2015, 9, .	0.4	46
48	Respiratory Monitoring During Physical Activities With a Multi-Sensor Smart Garment and Related Algorithms. IEEE Sensors Journal, 2020, 20, 2173-2180.	2.4	46
49	US-guided application of Nd:YAG laser in porcine pancreatic tissue: an ex vivo study and numerical simulation. Gastrointestinal Endoscopy, 2013, 78, 750-755.	0.5	45
50	Temperature monitoring and lesion volume estimation during double-applicator laser-induced thermotherapy in ex vivo swine pancreas: a preliminary study. Lasers in Medical Science, 2014, 29, 607-614.	1.0	44
51	Percutaneous lung biopsy: comparison between an augmented reality CT navigation system and standard CT-guided technique. International Journal of Computer Assisted Radiology and Surgery, 2013, 8, 837-848.	1.7	42
52	Gold nanorod-mediated near-infrared laser ablation: <i>in vivo</i> experiments on mice and theoretical analysis at different settings. International Journal of Hyperthermia, 2017, 33, 150-159.	1.1	41
53	Technological Solutions and Main Indices for the Assessment of Newborns' Nutritive Sucking: A Review. Sensors, 2014, 14, 634-658.	2.1	39
54	Experimental Assessment of a Variable Orifice Flowmeter for Respiratory Monitoring. Journal of Sensors, 2015, 2015, 1-7.	0.6	37

#	ARTICLE	IF	CITATIONS
55	Magnetic resonance-based thermometry during laser ablation on ex-vivo swine pancreas and liver. <i>Medical Engineering and Physics</i> , 2015, 37, 631-641.	0.8	35
56	Cone-Beam Computed Tomography (CBCT) Versus CT in Lung Ablation Procedure: Which is Faster?. <i>CardioVascular and Interventional Radiology</i> , 2015, 38, 1231-1236.	0.9	35
57	Emerging clinical applications of computed tomography. <i>Medical Devices: Evidence and Research</i> , 2015, 8, 265.	0.4	34
58	Feedforward Neural Network for Force Coding of an MRI-Compatible Tactile Sensor Array Based on Fiber Bragg Grating. <i>Journal of Sensors</i> , 2015, 2015, 1-9.	0.6	33
59	Dynamic susceptibility contrast (DSC) perfusion MRI in differential diagnosis between radionecrosis and neoangiogenesis in cerebral metastases using rCBV, rCBF and K2. <i>Radiologia Medica</i> , 2018, 123, 545-552.	4.7	33
60	Fiber Bragg Grating Probe for Relative Humidity and Respiratory Frequency Estimation: Assessment During Mechanical Ventilation. <i>IEEE Sensors Journal</i> , 2018, 18, 2125-2130.	2.4	33
61	Laser-induced optothermal response of gold nanoparticles: From a physical viewpoint to cancer treatment application. <i>Journal of Biophotonics</i> , 2021, 14, e202000161.	1.1	33
62	Percutaneous lung biopsies: performance of an optical CT-based navigation system with a low-dose protocol. <i>European Radiology</i> , 2013, 23, 3071-3076.	2.3	32
63	Conservative versus surgical management for patients with rotator cuff tears: a systematic review and META-analysis. <i>BMC Musculoskeletal Disorders</i> , 2021, 22, 50.	0.8	32
64	A Wearable System Based on Flexible Sensors for Unobtrusive Respiratory Monitoring in Occupational Settings. <i>IEEE Sensors Journal</i> , 2021, 21, 14369-14378.	2.4	32
65	Scapular Dyskinesia: From Basic Science to Ultimate Treatment. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 2974.	1.2	31
66	Linearly chirped fiber Bragg grating response to thermal gradient: from bench tests to the real-time assessment during in vivo laser ablations of biological tissue. <i>Journal of Biomedical Optics</i> , 2017, 22, 1.	1.4	31
67	A high sensitivity fiber optic macro-bend based gas flow rate transducer for low flow rates: Theory, working principle, and static calibration. <i>Review of Scientific Instruments</i> , 2013, 84, 024301.	0.6	30
68	Fiber Optic Sensors for Biomedical Applications. , 2018, , 301-333.		30
69	A Magnetic Resonance-Compatible Wearable Device Based on Functionalized Fiber Optic Sensor for Respiratory Monitoring. <i>IEEE Sensors Journal</i> , 2021, 21, 14418-14425.	2.4	30
70	Error of a Temperature Probe for Cancer Ablation Monitoring Caused by Respiratory Movements: <i>Ex Vivo</i> and <i>In Vivo</i> Analysis. <i>IEEE Sensors Journal</i> , 2016, 16, 5934-5941.	2.4	29
71	Agar-Coated Fiber Bragg Grating Sensor for Relative Humidity Measurements: Influence of Coating Thickness and Polymer Concentration. <i>IEEE Sensors Journal</i> , 2019, 19, 3335-3342.	2.4	29
72	Stent-assisted coiling in ruptured cerebral aneurysms: multi-center experience in acute phase. <i>Radiologia Medica</i> , 2017, 122, 43-52.	4.7	28

#	ARTICLE	IF	CITATIONS
73	A novel target-type low pressure drop bidirectional optoelectronic air flow sensor for infant artificial ventilation: Measurement principle and static calibration. <i>Review of Scientific Instruments</i> , 2011, 82, 024301.	0.6	27
74	Endoscopic ultrasound-guided Nd:YAG laser ablation of recurrent pancreatic neuroendocrine tumor: a promising revolution?. <i>Endoscopy</i> , 2014, 46, E380-E381.	1.0	27
75	Laser Interstitial Thermoablation for pancreatic tumor ablation: Theoretical model and experimental validation. <i>Lasers in Medicine and Surgery</i> , 2011, 25, 5585-8.		26
76	A multi-point heart rate monitoring using a soft wearable system based on fiber optic technology. <i>Scientific Reports</i> , 2021, 11, 21162.	1.6	26
77	Multipoint Temperature Monitoring of Microwave Thermal Ablation in Bones through Fiber Bragg Grating Sensor Arrays. <i>Sensors</i> , 2020, 20, 3200.	2.1	25
78	A Wearable System with Embedded Conductive Textiles and an IMU for Unobtrusive Cardio-Respiratory Monitoring. <i>Sensors</i> , 2021, 21, 3018.	2.1	24
79	Intra-Tissue Pressure Measurement in Ex Vivo Liver Undergoing Laser Ablation with Fiber-Optic Fabry-Perot Probe. <i>Sensors</i> , 2016, 16, 544.	2.1	23
80	Plant Wearable Sensors Based on FBG Technology for Growth and Microclimate Monitoring. <i>Sensors</i> , 2021, 21, 6327.	2.1	23
81	Treatment of Early-Stage Pressure Ulcers by Using Autologous Adipose Tissue Grafts. <i>Plastic Surgery International</i> , 2014, 2014, 1-6.	0.7	22
82	Non-Contact Respiratory Monitoring Using an RGB Camera for Real-World Applications. <i>Sensors</i> , 2021, 21, 5126.	2.1	22
83	Role of whole-body diffusion-weighted MRI in detecting bone metastasis. <i>Radiologia Medica</i> , 2014, 119, 758-766.	4.7	21
84	A New Pressure Guided Management Tool for Epidural Space Detection: Feasibility Assessment on a Simulator. <i>Artificial Organs</i> , 2017, 41, E320-E325.	1.0	21
85	Validation of a Wearable Device and an Algorithm for Respiratory Monitoring During Exercise. <i>IEEE Sensors Journal</i> , 2019, 19, 4652-4659.	2.4	21
86	Fiber Optic Sensors-Based Thermal Analysis of Perfusion-Mediated Tissue Cooling in Liver Undergoing Laser Ablation. <i>IEEE Transactions on Biomedical Engineering</i> , 2021, 68, 1066-1073.	2.5	21
87	Techniques for Temperature Monitoring of Myocardial Tissue Undergoing Radiofrequency Ablation Treatments: An Overview. <i>Sensors</i> , 2021, 21, 1453.	2.1	21
88	Fiber Bragg Grating Sensors for Temperature Monitoring During Thermal Ablation Procedure: Experimental Assessment of Artefact Caused by Respiratory Movements. <i>IEEE Sensors Journal</i> , 2021, 21, 13342-13349.	2.4	21
89	Analysis of breathing via optoelectronic systems: comparison of four methods for computing breathing volumes and thoraco-abdominal motion pattern. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2017, 20, 1678-1689.	0.9	20
90	Percutaneous low-dose CT-guided lung biopsy with an augmented reality navigation system: validation of the technique on 496 suspected lesions. <i>Clinical Imaging</i> , 2018, 49, 101-105.	0.8	20

#	ARTICLE	IF	CITATIONS
91	A Wearable Device Based on a Fiber Bragg Grating Sensor for Low Back Movements Monitoring. <i>Sensors</i> , 2020, 20, 3825.	2.1	20
92	Physical therapy and precision rehabilitation in shoulder rotator cuff disease. <i>International Orthopaedics</i> , 2020, 44, 893-903.	0.9	20
93	Fiber Bragg Grating Sensors-Based Thermometry of Gold Nanorod-Enhanced Photothermal Therapy in Tumor Model. <i>IEEE Sensors Journal</i> , 2022, 22, 11297-11306.	2.4	20
94	Laser-induced thermal response and controlled release of copper oxide nanoparticles from multifunctional polymeric nanocarriers. <i>Science and Technology of Advanced Materials</i> , 2021, 22, 218-233.	2.8	20
95	Contactless Vital Signs Monitoring From Videos Recorded With Digital Cameras: An Overview. <i>Frontiers in Physiology</i> , 2022, 13, 801709.	1.3	20
96	Measurement system based on RGB camera signal for contactless breathing pattern and respiratory rate monitoring. , 2018, , .		19
97	A Soft and Skin-Interfaced Smart Patch Based on Fiber Optics for Cardiorespiratory Monitoring. <i>Biosensors</i> , 2022, 12, 363.	2.3	19
98	A transistor based air flow transducer for thermohygrometric control of neonatal ventilatory applications. <i>Review of Scientific Instruments</i> , 2008, 79, 104301.	0.6	18
99	Ecological Sucking Monitoring of Newborns. <i>IEEE Sensors Journal</i> , 2013, 13, 4561-4568.	2.4	18
100	Epidemiology of Paediatric Shoulder Dislocation: A Nationwide Study in Italy from 2001 to 2014. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 2834.	1.2	18
101	Mechanical ventilation with heated humidifiers: measurements of condensed water mass within the breathing circuit according to ventilatory settings. <i>Physiological Measurement</i> , 2013, 34, 813-821.	1.2	17
102	Cost-Effectiveness of Supervised versus Unsupervised Rehabilitation for Rotator-Cuff Repair: Systematic Review and Meta-Analysis. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 2852.	1.2	17
103	A novel control strategy to improve the performances of heated wire humidifiers in artificial neonatal ventilation. <i>Physiological Measurement</i> , 2012, 33, 1199-1211.	1.2	16
104	An orifice meter for bidirectional air flow measurements: Influence of gas thermo-hygrometric content on static response and bidirectionality. <i>Flow Measurement and Instrumentation</i> , 2013, 34, 105-112.	1.0	16
105	Determinants of alanine aminotransferase levels in a large population from Southern Italy: Relationship between alanine aminotransferase and age. <i>Digestive and Liver Disease</i> , 2014, 46, 909-915.	0.4	16
106	Epidural Steroid Injections for Low Back Pain: A Narrative Review. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 231.	1.2	16
107	Mathematical model and minimal measurement system for optimal control of heated humidifiers in neonatal ventilation. <i>Medical Engineering and Physics</i> , 2010, 32, 475-481.	0.8	15
108	Linearity dependence on oxygen fraction and gas temperature of a novel Fleisch pneumotachograph for neonatal ventilation at low flow rates. <i>Measurement: Journal of the International Measurement Confederation</i> , 2012, 45, 2064-2071.	2.5	15

#	ARTICLE	IF	CITATIONS
109	Efficacy of cathodal transcranial direct current stimulation in drug-resistant epilepsy: A proof of principle. , 2014, 2014, 530-3.		15
110	Investigation of the Heat Sink Effect During Microwave Ablation in Hepatic Tissue: Experimental and Numerical Analysis. IEEE Sensors Journal, 2021, 21, 22743-22751.	2.4	15
111	A PCA-Based Method to Select the Number and the Body Location of Piezoresistive Sensors in a Wearable System for Respiratory Monitoring. IEEE Sensors Journal, 2021, 21, 6847-6855.	2.4	15
112	Temperature Monitoring in Hyperthermia Treatments of Bone Tumors: State-of-the-Art and Future Challenges. Sensors, 2021, 21, 5470.	2.1	15
113	Theoretical model and design of a device to reduce the influence of environmental factors on refractive surgery outcomes. , 2006, 2006, 343-6.		14
114	Predelivery uterine arteries embolization in patients affected by placental implant anomalies. Radiologia Medica, 2018, 123, 71-78.	4.7	14
115	Comparison of marker models for the analysis of the volume variation and thoracoabdominal motion pattern in untrained and trained participants. Journal of Biomechanics, 2018, 76, 247-252.	0.9	14
116	Fiber Bragg Grating Sensors for Performance Evaluation of Fast Magnetic Resonance Thermometry on Synthetic Phantom. Sensors, 2020, 20, 6468.	2.1	14
117	Thermal analysis of laser irradiation-gold nanorod combinations at 808nm, 940nm, 975nm and 1064nm wavelengths in breast cancer model. International Journal of Hyperthermia, 2021, 38, 1099-1110.	1.1	14
118	Smart Sensors for Healthcare and Medical Applications. Sensors, 2021, 21, 543.	2.1	14
119	Multidimensional thermal mapping during radiofrequency ablation treatments with minimally invasive fiber optic sensors. Biomedical Optics Express, 2018, 9, 5891.	1.5	14
120	Design and Characterization of a Bidirectional, Low Cost Flowmeter for Neonatal Ventilation. IEEE Sensors Journal, 2014, 14, 4354-4360.	2.4	13
121	Conservative versus accelerated rehabilitation after rotator cuff repair: a systematic review and meta-analysis. BMC Musculoskeletal Disorders, 2021, 22, 637.	0.8	13
122	Soft System Based on Fiber Bragg Grating Sensor for Loss of Resistance Detection during Epidural Procedures: In Silico and In Vivo Assessment. Sensors, 2021, 21, 5329.	2.1	13
123	Wearable Device Based on a Flexible Conductive Textile for Knee Joint Movements Monitoring. IEEE Sensors Journal, 2021, 21, 26655-26664.	2.4	13
124	Breath-Jockey: Development and Feasibility Assessment of a Wearable System for Respiratory Rate and Kinematic Parameter Estimation for Gallop Athletes. Sensors, 2021, 21, 152.	2.1	13
125	Multi-ROI Spectral Approach for the Continuous Remote Cardio-Respiratory Monitoring from Mobile Device Built-In Cameras. Sensors, 2022, 22, 2539.	2.1	13
126	An open-loop controlled active lung simulator for preterm infants. Medical Engineering and Physics, 2011, 33, 47-55.	0.8	12

#	ARTICLE	IF	CITATIONS
127	Calibration and Uncertainty Evaluation Using Monte Carlo Method of a Simple 2D Sound Localization System. <i>IEEE Sensors Journal</i> , 2013, 13, 3312-3318.	2.4	12
128	Estimation of anisotropy coefficient of swine pancreas, liver and muscle at 1064Ånm based on goniometric technique. <i>Journal of Biophotonics</i> , 2015, 8, 422-428.	1.1	12
129	Performance Activities and Match Outcomes of Professional Soccer Teams during the 2016/2017 Serie A Season. <i>Medicina (Lithuania)</i> , 2019, 55, 469.	0.8	12
130	Comparison of two methods for estimating respiratory waveforms from videos without contact. , 2019, , .		12
131	Dynamic MR in patients affected by neurogenical claudication: technique and results from a single-center experience. <i>Neuroradiology</i> , 2016, 58, 765-770.	1.1	11
132	An fMRI Compatible Smart Device for Measuring Palmar Grasping Actions in Newborns. <i>Sensors</i> , 2020, 20, 6040.	2.1	11
133	Personalized, Predictive, Participatory, Precision, and Preventive (P5) Medicine in Rotator Cuff Tears. <i>Journal of Personalized Medicine</i> , 2021, 11, 255.	1.1	11
134	Smart Mattress Based on Fiber Bragg Grating Sensors for Respiratory Monitoring: A Feasibility Test. , 2021, , .		11
135	Validation and Assessment of a Posture Measurement System with Magneto-Inertial Measurement Units. <i>Sensors</i> , 2021, 21, 6610.	2.1	11
136	Theoretical assessment of principal factors influencing laser interstitial thermotherapy outcomes on pancreas. , 2012, 2012, 5687-90.		10
137	Predelivery uterine arteries embolization in patients with placental implant anomalies: a cost-effective procedure. <i>Radiologia Medica</i> , 2017, 122, 77-79.	4.7	10
138	Cardiac monitoring with a smart textile based on polymer-encapsulated FBG: influence of sensor positioning. , 2019, , .		10
139	Fiber Bragg Grating Sensors for Millimetric-Scale Temperature Monitoring of Cardiac Tissue Undergoing Radiofrequency Ablation: A Feasibility Assessment. <i>Sensors</i> , 2020, 20, 6490.	2.1	10
140	Influence of torso movements on a multi-sensor garment for respiratory monitoring during walking and running activities. , 2020, , .		10
141	Solutions to Improve the Outcomes of Thermal Treatments in Oncology: Multipoint Temperature Monitoring. <i>IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology</i> , 2018, 2, 172-178.	2.3	9
142	Feature Extraction in Sit-to-Stand Task Using M-IMU Sensors and Evaluatiton in Parkinson's Disease. , 2018, , .		9
143	A new pressure guided management tool for epidural space detection: feasibility assessment in a clinical scenario. <i>Minerva Anestesiologica</i> , 2020, 86, 736-741.	0.6	9
144	Silicone-Textile Composite Resistive Strain Sensors for Human Motion-Related Parameters. <i>Sensors</i> , 2022, 22, 3954.	2.1	9

#	ARTICLE	IF	CITATIONS
145	Sex determination from scapular length measurements by CT scans images in a Caucasian population. , 2013, 2013, 1632-5.		8
146	Estimation of optical properties of neuroendocrine pancreas tumor with double-integrating-sphere system and inverse Monte Carlo model. Lasers in Medical Science, 2016, 31, 1041-1050.	1.0	8
147	A novel system to study the coordination of sucking and breathing in newborns during bottle feeding. IEEE Sensors Journal, 2016, , 1-1.	2.4	8
148	Feasibility assessment of magnetic resonance-thermometry on pancreas undergoing laser ablation: Sensitivity analysis of three sequences. Measurement: Journal of the International Measurement Confederation, 2016, 80, 21-28.	2.5	8
149	Laser ablation of the biliary tree:<i>in vivo</i>proof of concept as potential treatment of unresectable cholangiocarcinoma. International Journal of Hyperthermia, 2018, 34, 1372-1380.	1.1	8
150	Validity Analysis of WalkerViewTM Instrumented Treadmill for Measuring Spatiotemporal and Kinematic Gait Parameters. Sensors, 2021, 21, 4795.	2.1	8
151	Skin Strain Analysis of the Scapular Region and Wearables Design. Sensors, 2021, 21, 5761.	2.1	8
152	Injection pressures measuring for a safe peripheral nerve block. Minerva Anestesiologica, 2019, 85, 1003-1013.	0.6	8
153	An optical fiber based flow transducer for infant ventilation: Measurement principle and calibration. , 2011, , .		7
154	Monitoring of temperature increase and tissue vaporization during laser interstitial thermotherapy of ex vivo swine liver by computed tomography. , 2013, 2013, 378-81.		7
155	Relationship between myocardial T2* values and cardiac volumetric and functional parameters in β^2 -thalassemia patients evaluated by cardiac magnetic resonance in association with serum ferritin levels. European Journal of Radiology, 2013, 82, e441-e447.	1.2	7
156	A new ecological method for the estimation of Nutritive Sucking Efficiency in newborns: Measurement principle and experimental assessment. , 2013, 2013, 6720-3.		7
157	Design of fiber optic applicators for laser interstitial thermotherapy: Theoretical evaluation of thermal outcomes. , 2013, 2013, 3733-6.		7
158	Feasibility assessment of an FBG-based probe for distributed temperature measurements during laser ablation. , 2016, , .		7
159	Design and Development of Large-Area FBG-Based Sensing Skin for Collaborative Robotics. , 2019, , .		7
160	Wearable stretchable sensor based on conductive textile fabric for shoulder motion monitoring. , 2020, , .		7
161	A New Smart-Fabric based Body Area Sensor Network for Work Risk Assessment. , 2020, , .		7
162	The influence of athletic performance on the highest positions of the final ranking during 2017/2018 Serie A season. BMC Sports Science, Medicine and Rehabilitation, 2021, 13, 32.	0.7	7

#	ARTICLE	IF	CITATIONS
163	Highly dense FBG arrays for millimeter-scale thermal monitoring during nanocomposite-enhanced laser ablation. , 2020, , .		7
164	A Wearable System Composed of FBG-Based Soft Sensors for Trunk Compensatory Movements Detection in Post-Stroke Hemiplegic Patients. Sensors, 2022, 22, 1386.	2.1	7
165	A meta-learning algorithm for respiratory flow prediction from FBG-based wearables in unrestrained conditions. Artificial Intelligence in Medicine, 2022, 130, 102328.	3.8	7
166	Gas pre-warming for improving performances of heated humidifiers in neonatal ventilation. , 2011, 2011, 1205-8.		6
167	A micromachined intensity-modulated fiber optic sensor for strain measurements: Working principle and static calibration. , 2012, 2012, 5790-3.		6
168	A wearable system based on fiber Bragg grating for monitoring respiratory and heart activity of archers. , 2019, , .		6
169	Influence of motion artifacts on a smart garment for monitoring respiratory rate. , 2019, , .		6
170	Preliminary analysis of ultrasound elastography imaging-based thermometry on non-perfused ex vivo swine liver. Journal of Ultrasound, 2020, 23, 69-75.	0.7	6
171	Epidemiology of Achilles tendon surgery in Italy: a nationwide registry study, from 2001 through 2015. BMC Musculoskeletal Disorders, 2020, 21, 687.	0.8	6
172	A wearable system for respiratory and pace monitoring in running activities: a feasibility study. , 2020, , .		6
173	A wearable system for knee flexion/extension monitoring: design and assessment. , 2020, , .		6
174	Epidemiology of shoulder instability in Italy: A 14-years nationwide registry study. Injury, 2021, 52, 862-868.	0.7	6
175	Influence of FBG sensors length on temperature measures in laser-irradiated pancreas: Theoretical and experimental evaluation. , 2013, 2013, 3737-40.		5
176	Dark blood versus bright blood T2* acquisition in cardiovascular magnetic resonance (CMR) for thalassaemia major (TM) patients: Evaluation of feasibility, reproducibility and image quality. European Journal of Radiology, 2014, 83, e8-e14.	1.2	5
177	Multi-sensitive FBG-based needle for both relative humidity and breathing rate monitoring. , 2018, , .		5
178	Single-plane neck movements and respiratory frequency monitoring: a smart system for computer workers. , 2019, , .		5
179	Conductive textile element embedded in a wearable device for joint motion monitoring. , 2020, , .		5
180	Cardiorespiratory monitoring using a mechanical and an optical system. , 2021, , .		5

#	ARTICLE	IF	CITATIONS
181	Fiber Bragg Grating Sensors for Thermometry during Gold Nanorods-mediated Photothermal Therapy in Tumor Model. , 2020, , .		5
182	Influence of gas temperature on the performances of a low dead space capillary type pneumotachograph for neonatal ventilation. , 2009, 2009, 1226-9.		4
183	Non-invasive Estimation of Cardiac Output in Mechanically Ventilated Patients: A Prolonged Expiration Method. Annals of Biomedical Engineering, 2012, 40, 1777-1789.	1.3	4
184	Accuracy evaluation of dynamic volume measurements performed by opto-electronic plethysmograph, by using a pulmonary simulator. , 2013, 2013, 930-3.		4
185	An MR-compatible force sensor based on FBG technology for biomedical application. , 2014, 2014, 5731-4.		4
186	Magnetic Resonance Comparison of Left-Right Heart Volumetric and Functional Parameters in Thalassemia Major and Thalassemia Intermedia Patients. BioMed Research International, 2015, 2015, 1-7.	0.9	4
187	Metrological properties evaluation of a chest wall simulator during simulated quiet breathing. , 2015, , .		4
188	Linearly chirped fiber-optic Bragg grating as distributed temperature sensor for laser ablation. , 2016, , .		4
189	Evaluation of Pressure Capacitive Sensors for Application in Grasping and Manipulation Analysis. Sensors, 2017, 17, 2846.	2.1	4
190	FBG-based System for Loss of Resistance Detection During Epidural Injections. , 2021, , .		4
191	A smart face mask based on photoplethysmography for cardiorespiratory monitoring in occupational settings. , 2021, , .		4
192	New Horizons for Laser Ablation: Nanomedicine, Thermometry, and Hyperthermal Treatment Planning Tools. , 2020, , 145-151.		4
193	AS-OCT and Ocular Hygrometer as Innovative Tools in Dry Eye Disease Diagnosis. Applied Sciences (Switzerland), 2022, 12, 1647.	1.3	4
194	Multiscale and Multiphysics Modeling of Anisotropic Cardiac RFCA: Experimental-Based Model Calibration via Multi-Point Temperature Measurements. Frontiers in Physiology, 2022, 13, 845896.	1.3	4
195	Evaluation of pulmonary rehabilitation after lung resection through opto-electronic plethysmography. , 2010, 2010, 2481-4.		3
196	Uncertainty evaluation of a calibration method for metabolic analyzer in mechanical ventilation. , 2011, , .		3
197	Influence of ventilatory settings on indirect calorimetry in mechanically ventilated patients. , 2011, 2011, 1245-8.		3
198	Sa1513 US-Guided Nd:YAG Laser Ablation in Porcine Pancreatic Tissue: an Ex Vivo Study and Numerical Simulation. Gastrointestinal Endoscopy, 2012, 75, AB187.	0.5	3

#	ARTICLE	IF	CITATIONS
199	Performances of heated humidifiers in mechanical ventilation: A preliminary intra-breath analysis. , 2013, 2013, 934-7.		3
200	A micro opto-mechanical displacement sensor based on micro-diffraction gratings: Design and characterization. , 2013, 2013, 4714-7.		3
201	A Device for Respiratory Monitoring during Nutritive Sucking: Response to Neonatal Breathing Patterns. Journal of Sensors, 2016, 2016, 1-9.	0.6	3
202	Ultrasound estimation of pleural effusion in geriatric patients. , 2016, , .		3
203	270 EUS-Guided Nd:YAG Laser Ablation of Locally Advanced Pancreatic Adenocarcinoma: Feasibility and Safety Study. Gastrointestinal Endoscopy, 2016, 83, AB135.	0.5	3
204	Performances of heated wire humidifiers during adult mechanical ventilation: Estimation of the amount of condensation. , 2016, , .		3
205	Measurements of temperature during thermal ablation treatments on ex vivo liver tissue using fiber Bragg grating sensors. , 2017, , .		3
206	Contactless Heart Rate Monitoring Using A Standard RGB Camera. , 2020, , .		3
207	Respiratory monitoring during cycling exercise: performance assessment of a smart t-shirt embedding fiber optic sensors. , 2020, , .		3
208	Feasibility assessment of an FBG-based soft sensor embedded into a single-use surgical mask for respiratory monitoring. , 2021, , .		3
209	Combined trans-arterial embolisation and microwave ablation for the treatment of large unresectable hepatic metastases (>3â€‰cm in maximal diameter). International Journal of Hyperthermia, 2020, 37, 1395-1403.	1.1	3
210	How to Investigate the Effect of Music on Breathing during Exercise: Methodology and Tools. Sensors, 2022, 22, 2351.	2.1	3
211	Cardiac output estimation in mechanically ventilated patients: A comparison between prolonged expiration method and thermodilution. , 2012, 2012, 2708-11.		2
212	Design, development and experimental validation of a non-invasive device for recording respiratory events during bottle feeding. , 2014, 2014, 2123-6.		2
213	Measurement of condensed water mass during mechanical ventilation with heated wire humidifiers: Experiments with and without pre-warming. , 2014, 2014, 2135-8.		2
214	A transistors-based, bidirectional flowmeter for neonatal ventilation: Design and experimental characterization. , 2014, 2014, 2131-4.		2
215	Estimation of liver iron concentration by dual energy CT images: Influence of X-ray energy on sensitivity. , 2014, 2014, 5129-32.		2
216	Development and characterization of a Fibre Bragg Grating temperature probe for medical Laser Ablation therapy. , 2014, , .		2

#	ARTICLE	IF	CITATIONS
217	Non-invasive cardiac output evaluation in postoperative cardiac surgery patients, using a new prolonged expiration-based technique. Journal of Clinical Monitoring and Computing, 2014, 28, 625-632.	0.7	2
218	Thermocouples for temperature monitoring during pancreatic laser ablation: Analysis of the measurement error. , 2015, , .		2
219	Influence of fiber Bragg grating length on temperature measurements in laser-irradiated organs. , 2016, , .		2
220	Real-time temperature monitoring during radiofrequency treatments on ex-vivo animal model by fiber Bragg grating sensors. Proceedings of SPIE, 2017, , .	0.8	2
221	In vivo image-guided MR thermometry during laser ablation: experience in kidney and liver. , 2018, , .		2
222	Experimental analysis of the influencing factors on the response of a tool for epidural space detection. , 2018, , .		2
223	Temperature Monitoring during Radio Frequency Thermal Ablation Treatment on Ex Vivo perfused organ by Fiber Bragg Grating Sensors. , 2018, , .		2
224	Influence of the length of lead lines on the response of a variable orifice meter: analysis of sensitivity and settling time. , 2018, , .		2
225	Clean-Breathing: a Novel Sensor Fusion Algorithm Based on ICA to Remove Motion Artifacts from Breathing Signal. , 2020, , .		2
226	Evaluation of thoraco-abdominal asynchrony using conductive textiles. , 2020, , .		2
227	Temperature Monitoring During Microwave Thermal Ablation of Ex Vivo Bovine Bone: a Pilot Test. , 2020, , .		2
228	Preliminary analysis on the cervicothoracic angular velocity during forward bending and backward return task. , 2021, , .		2
229	Temperature Monitoring by Fiber Bragg Gratings during Microwave Ablation of Ex Vivo Organs for Heat Sink Effect Assessment. , 2021, , .		2
230	Alpine junior world ski championship: nutritional habits and performance in elite skiers. Journal of Sports Medicine and Physical Fitness, 2019, 59, 1339-1345.	0.4	2
231	Multiplexing of distributed temperature sensing achieved by nanoparticle-doped fibers. , 2019, , .		2
232	Spatial temperature reconstructions in myocardial tissues undergoing radiofrequency ablations by performing high-resolved temperature measurements. Journal of Interventional Cardiac Electrophysiology, 2022, 64, 173-182.	0.6	2
233	A Multisensory Platform for Maximizing Collective Intelligence in the Operating Room. , 2021, , .		2
234	Design and experimental characterization of a gas flow generator to calibrate flow meters for neonatal ventilation. , 2012, , .		1

#	ARTICLE	IF	CITATIONS
235	Mo1545 EUS-Guide Nd:YAG LASER Ablation of Hepatocellular Carcinoma of the Caudate Lobe: Case Series. <i>Gastrointestinal Endoscopy</i> , 2013, 77, AB421.	0.5	1
236	An algorithm to improve the estimation accuracy of a non-invasive method for cardiac output measurement based on prolonged expiration. , 2013, 2013, 1823-6.		1
237	Estimation of anisotropy coefficient and total attenuation of swine liver at 850 nm based on a goniometric technique: Influence of sample thickness. , 2014, 2014, 5332-5.		1
238	Stature of caucasian elderly estimated by scapula length from Chest X-ray. , 2014, 2014, 1095-8.		1
239	Temperature monitoring during Laser Ablation by FBG sensors encapsulated within a metallic needle: Experiments on healthy swine tissue. , 2015, , .		1
240	Feasibility Assessment and Analysis of Thermal Sensitivity of CT-Thermometry During Microwave Ablation of Ex Vivo Porcine Kidneys. , 2016, , .		1
241	Intra-tissue pressure measurement during laser ablation with fiber-optic extrinsic Fabry-Perot sensor. , 2016, , .		1
242	Experimental validation of MWA effects on biological tissue by sensorized needles based on FBG technology. , 2016, , .		1
243	Fiber Bragg grating sensors for spatially resolved measurements in ex-vivo pancreatic laser ablation. , 2016, , .		1
244	Thermal gradient estimation with fiber-optic chirped FBG sensors: Experiments in biomedical applications. , 2017, , .		1
245	An integrated system for the monitoring of therapy and drug's side effects in Lymphoproliferative disorders. , 2017, 2017, 2672-2675.		1
246	Force monitoring during Peripheral Nerve Blocks: design and feasibility assessment of a new noninvasive system. , 2019, , .		1
247	Temperature map of kidneys undergoing microwave ablation using computed tomography-thermometry: ex-vivo experiments and numerical simulations. , 2019, , .		1
248	Fiber Bragg Grating Sensors for Temperature Measurements during Radiofrequency Ablation of Solid Tumors. , 2019, , .		1
249	Wearable system based on piezoresistive sensors for monitoring bowing technique in musicians. , 2019, , .		1
250	A Test Bench to Assess Systems for Respiratory Monitoring of Workers. , 2020, , .		1
251	A non-invasive system for epidural space detection: comparison with CompuFlo®. , 2020, , .		1
252	Evaluation of the Thermal Response of Liver Tissue Undergoing Microwave Treatment by Means of Fiber Bragg Grating Sensors. , 2020, , .		1

#	ARTICLE	IF	CITATIONS
253	Respiratory rate monitoring of video terminal operators based on fiber optic technology. , 2021, , .		1
254	Polymer-encapsulated flexible strain sensors to monitor scapular movement: a pilot study. , 2021, , .		1
255	Wearable system for elbow angles estimation based on a polymer encapsulated conductive textile. , 2021, , .		1
256	Respiratory Rate Estimation During Walking/Running Activities Using Principal Components Estimated from Signals Recorded by a Smart Garment Embedding Piezoresistive Sensors. , 2021, , .		1
257	Wearable systems for respiratory monitoring: solutions based on strain measurements. , 2021, , .		1
258	Sa1446 Nd:YAG LASER Application on Normal Biliary Duct: an Ex-Vivo Pilot Study in Porcine Model. Gastrointestinal Endoscopy, 2013, 77, AB209.	0.5	0
259	MRI-thermometry on ex vivo swine liver: Preliminary trials to assess the sensitivity of two sequences. , 2015, , .		0
260	Three-Dimensional Temperature Map During Microwave Ablation of Ex Vivo Porcine Liver: Theoretical Prediction and Experimental Validation. , 2016, , .		0
261	Fibre optic sensors for temperature and pressure monitoring in laser ablation: experiments on ex-vivo animal model. Proceedings of SPIE, 2016, , .	0.8	0
262	Solutions for improving the outcomes of thermal treatments in oncology: Multi-point temperature monitoring. , 2017, , .		0
263	Non-invasive MR thermometry in liver undergoing laser ablation: multi-parameters analysis. , 2018, , .		0
264	Measurement of Enhanced Photothermal Effects of CuO-encapsulated Polymeric Nanospheres. , 2021, , .		0
265	Guest Editorial Special Issue on Advances and Current Trends in Sensing Physiological Parameters for Human Wellness and Patient Monitoring. IEEE Sensors Journal, 2021, 21, 13965-13966.	2.4	0
266	Percutaneous Gastrojejunostomy under Fluoroscopic Guidance: Results from a Single Center in a Cohort of 23 Consecutive Patients. Global Journal of Oncologists, 2014, 2, 2-7.	0.0	0
267	High Spatial Resolution Fiber Optic Sensors and Their Impact in Biomedical Measurements and Diagnostic. , 2018, , .		0
268	Theoretical model and design of a device to reduce the influence of environmental factors on refractive surgery outcomes. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0
269	Special Section on IEEE MeMeA 2021. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-3.	2.4	0