

# Emiliano Skena

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

224  
papers

3,832  
citations

35  
h-index

52  
g-index

274  
ext. papers

5,286  
ext. citations

3.2  
avg, IF

5.98  
L-index

#	Paper	IF	Citations
224	Techniques for temperature monitoring during laser-induced thermotherapy: an overview. <i>International Journal of Hyperthermia</i> , <b>2013</b> , 29, 609-19	3.7	134
223	Contact-Based Methods for Measuring Respiratory Rate. <i>Sensors</i> , <b>2019</b> , 19,	3.8	133
222	Optical fiber-based MR-compatible sensors for medical applications: an overview. <i>Sensors</i> , <b>2013</b> , 13, 14105-20	3.8	133
221	Fiber Optic Sensors for Temperature Monitoring during Thermal Treatments: An Overview. <i>Sensors</i> , <b>2016</b> , 16,	3.8	103
220	Medical smart textiles based on fiber optic technology: an overview. <i>Journal of Functional Biomaterials</i> , <b>2015</b> , 6, 204-21	4.8	100
219	Theoretical analysis and experimental evaluation of laser-induced interstitial thermotherapy in ex vivo porcine pancreas. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2012</b> , 59, 2958-64	5	96
218	Smart Textile Based on Fiber Bragg Grating Sensors for Respiratory Monitoring: Design and Preliminary Trials. <i>Biosensors</i> , <b>2015</b> , 5, 602-15	5.9	79
217	Flow measurement in mechanical ventilation: a review. <i>Medical Engineering and Physics</i> , <b>2015</b> , 37, 257-64	2.4	79
216	CT-based thermometry: an overview. <i>International Journal of Hyperthermia</i> , <b>2014</b> , 30, 219-27	3.7	73
215	Wearable System Based on Flexible FBG for Respiratory and Cardiac Monitoring. <i>IEEE Sensors Journal</i> , <b>2019</b> , 19, 7391-7398	4	71
214	Fiber optic sensors for sub-centimeter spatially resolved measurements: Review and biomedical applications. <i>Optical Fiber Technology</i> , <b>2018</b> , 43, 6-19	2.4	71
213	Laser Ablation for Cancer: Past, Present and Future. <i>Journal of Functional Biomaterials</i> , <b>2017</b> , 8,	4.8	69
212	Microfabricated tactile sensors for biomedical applications: a review. <i>Biosensors</i> , <b>2014</b> , 4, 422-48	5.9	68
211	Smart textile for respiratory monitoring and thoraco-abdominal motion pattern evaluation. <i>Journal of Biophotonics</i> , <b>2018</b> , 11, e201700263	3.1	66
210	Micromachined Flow Sensors in Biomedical Applications. <i>Micromachines</i> , <b>2012</b> , 3, 225-243	3.3	64
209	Fiber Bragg Gratings for Medical Applications and Future Challenges: A Review. <i>IEEE Access</i> , <b>2020</b> , 8, 156863-156888	3.5	63
208	. <i>IEEE Sensors Journal</i> , <b>2017</b> , 17, 6037-6043	4	57

207	Experimental assessment of CT-based thermometry during laser ablation of porcine pancreas. <i>Physics in Medicine and Biology</i> , <b>2013</b> , 58, 5705-16	3.8	54
206	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> , <b>2016</b> , 16, 8103-8110	4	50
205	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> , <b>2010</b> , 65, 808-14	7.3	49
204	Stature estimation from scapular measurements by CT scan evaluation in an Italian population. <i>Legal Medicine</i> , <b>2013</b> , 15, 202-8	1.9	47
203	Optoelectronic Plethysmography in Clinical Practice and Research: A Review. <i>Respiration</i> , <b>2017</b> , 93, 339-354	3.7	45
202	Contactless Monitoring of Breathing Patterns and Respiratory Rate at the Pit of the Neck: A Single Camera Approach. <i>Journal of Sensors</i> , <b>2018</b> , 2018, 1-13	2	45
201	Feasibility of EUS-guided Nd:YAG laser ablation of unresectable pancreatic adenocarcinoma. <i>Gastrointestinal Endoscopy</i> , <b>2018</b> , 88, 168-174.e1	5.2	44
200	The Importance of Respiratory Rate Monitoring: From Healthcare to Sport and Exercise. <i>Sensors</i> , <b>2020</b> , 20,	3.8	42
199	Thermal ablation of pancreatic cancer: A systematic literature review of clinical practice and pre-clinical studies. <i>International Journal of Hyperthermia</i> , <b>2018</b> , 35, 398-418	3.7	41
198	Remote Respiratory Monitoring in the Time of COVID-19. <i>Frontiers in Physiology</i> , <b>2020</b> , 11, 635	4.6	38
197	Application of Nanoparticles and Nanomaterials in Thermal Ablation Therapy of Cancer. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	37
196	Temperature monitoring and lesion volume estimation during double-applicator laser-induced thermotherapy in ex vivo swine pancreas: a preliminary study. <i>Lasers in Medical Science</i> , <b>2014</b> , 29, 607-14 <sup>3.1</sup>	3.1	37
195	Determination of stature from skeletal and skull measurements by CT scan evaluation. <i>Forensic Science International</i> , <b>2012</b> , 222, 398.e1-9	2.6	37
194	Fiber Bragg Grating Measuring System for Simultaneous Monitoring of Temperature and Humidity in Mechanical Ventilation. <i>Sensors</i> , <b>2017</b> , 17,	3.8	36
193	Assessment of temperature measurement error and its correction during Nd:YAG laser ablation in porcine pancreas. <i>International Journal of Hyperthermia</i> , <b>2014</b> , 30, 328-34	3.7	36
192	. <i>IEEE Sensors Journal</i> , <b>2019</b> , 19, 7718-7725	4	35
191	Cardio-Respiratory Monitoring in Archery Using a Smart Textile Based on Flexible Fiber Bragg Grating Sensors. <i>Sensors</i> , <b>2019</b> , 19,	3.8	35
190	Non-Contact Monitoring of Breathing Pattern and Respiratory Rate via RGB Signal Measurement. <i>Sensors</i> , <b>2019</b> , 19,	3.8	35

189	Temperature monitoring during microwave ablation in ex vivo porcine livers. <i>European Journal of Surgical Oncology</i> , <b>2015</b> , 41, 1699-705	3.6	34
188	Percutaneous lung biopsy: comparison between an augmented reality CT navigation system and standard CT-guided technique. <i>International Journal of Computer Assisted Radiology and Surgery</i> , <b>2013</b> , 8, 837-48	3.9	33
187	US-guided application of Nd:YAG laser in porcine pancreatic tissue: an ex vivo study and numerical simulation. <i>Gastrointestinal Endoscopy</i> , <b>2013</b> , 78, 750-5	5.2	33
186	Gold nanorod-mediated near-infrared laser ablation: in vivo experiments on mice and theoretical analysis at different settings. <i>International Journal of Hyperthermia</i> , <b>2017</b> , 33, 150-159	3.7	33
185	Technological solutions and main indices for the assessment of newborns nutritive sucking: a review. <i>Sensors</i> , <b>2014</b> , 14, 634-58	3.8	32
184	Wearable systems for shoulder kinematics assessment: a systematic review. <i>BMC Musculoskeletal Disorders</i> , <b>2019</b> , 20, 546	2.8	32
183	A Needlelike Probe for Temperature Monitoring During Laser Ablation Based on Fiber Bragg Grating: Manufacturing and Characterization. <i>Journal of Medical Devices, Transactions of the ASME</i> , <b>2015</b> , 9,	1.3	31
182	Detection of thermal gradients through fiber-optic Chirped Fiber Bragg Grating (CFBG): Medical thermal ablation scenario. <i>Optical Fiber Technology</i> , <b>2018</b> , 41, 48-55	2.4	30
181	Contactless Methods For Measuring Respiratory Rate: A Review. <i>IEEE Sensors Journal</i> , <b>2021</b> , 21, 12821-12839	2.8	29
180	A Multi-Parametric Wearable System to Monitor Neck Movements and Respiratory Frequency of Computer Workers. <i>Sensors</i> , <b>2020</b> , 20,	3.8	27
179	Experimental Assessment of a Variable Orifice Flowmeter for Respiratory Monitoring. <i>Journal of Sensors</i> , <b>2015</b> , 2015, 1-7	2	27
178	Multi-fiber distributed thermal profiling of minimally invasive thermal ablation with scattering-level multiplexing in MgO-doped fibers. <i>Biomedical Optics Express</i> , <b>2019</b> , 10, 1282-1296	3.5	27
177	A Machine-Learning-Based Approach to Solve Both Contact Location and Force in Soft Material Tactile Sensors. <i>Soft Robotics</i> , <b>2020</b> , 7, 409-420	9.2	27
176	Magnetic resonance-based thermometry during laser ablation on ex-vivo swine pancreas and liver. <i>Medical Engineering and Physics</i> , <b>2015</b> , 37, 631-41	2.4	25
175	Endoscopic ultrasound-guided Nd:YAG laser ablation of recurrent pancreatic neuroendocrine tumor: a promising revolution?. <i>Endoscopy</i> , <b>2014</b> , 46 Suppl 1 UCTN, E380-1	3.4	25
174	Fiber Bragg Grating Sensors for Cardiorespiratory Monitoring: A Review. <i>IEEE Sensors Journal</i> , <b>2021</b> , 21, 14069-14080	4	25
173	Percutaneous lung biopsies: performance of an optical CT-based navigation system with a low-dose protocol. <i>European Radiology</i> , <b>2013</b> , 23, 3071-6	8	24
172	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> , <b>2013</b> , 84, 024301	1.7	24

171	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> , <b>2011</b> , 82, 024301	1.7	24
170	Error of a Temperature Probe for Cancer Ablation Monitoring Caused by Respiratory Movements: Ex Vivo and In Vivo Analysis. <i>IEEE Sensors Journal</i> , <b>2016</b> , 16, 5934-5941	4	24
169	Cone-Beam Computed Tomography (CBCT) Versus CT in Lung Ablation Procedure: Which is Faster?. <i>CardioVascular and Interventional Radiology</i> , <b>2015</b> , 38, 1231-6	2.7	23
168	Optical Fiber Gratings for Humidity Measurements: A Review. <i>IEEE Sensors Journal</i> , <b>2018</b> , 18, 9065-9074	4	22
167	Fiber Bragg Grating Probe for Relative Humidity and Respiratory Frequency Estimation: Assessment During Mechanical Ventilation. <i>IEEE Sensors Journal</i> , <b>2018</b> , 18, 2125-2130	4	21
166	Emerging clinical applications of computed tomography. <i>Medical Devices: Evidence and Research</i> , <b>2015</b> , 8, 265-78	1.5	21
165	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> , <b>2017</b> , 22, 1-9	3.5	21
164	Virtual Reality, Augmented Reality, Gamification, and Telerehabilitation: Psychological Impact on Orthopedic Patients Rehabilitation. <i>Journal of Clinical Medicine</i> , <b>2020</b> , 9,	5.1	21
163	Stent-assisted coiling in ruptured cerebral aneurysms: multi-center experience in acute phase. <i>Radiologia Medica</i> , <b>2017</b> , 122, 43-52	6.5	20
162	Laser Interstitial Thermotherapy for pancreatic tumor ablation: theoretical model and experimental validation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2011</b> , 2011, 5585-8	0.9	20
161	. <i>IEEE Sensors Journal</i> , <b>2020</b> , 20, 2173-2180	4	20
160	Feedforward Neural Network for Force Coding of an MRI-Compatible Tactile Sensor Array Based on Fiber Bragg Grating. <i>Journal of Sensors</i> , <b>2015</b> , 2015, 1-9	2	19
159	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> , <b>2018</b> , 123, 545-552	6.5	18
158	Role of whole-body diffusion-weighted MRI in detecting bone metastasis. <i>Radiologia Medica</i> , <b>2014</b> , 119, 758-66	6.5	18
157	Treatment of early-stage pressure ulcers by using autologous adipose tissue grafts. <i>Plastic Surgery International</i> , <b>2014</b> , 2014, 817283		18
156	Ecological Sucking Monitoring of Newborns. <i>IEEE Sensors Journal</i> , <b>2013</b> , 13, 4561-4568	4	18
155	A transistor based air flow transducer for thermohygrometric control of neonatal ventilatory applications. <i>Review of Scientific Instruments</i> , <b>2008</b> , 79, 104301	1.7	17
154	Intra-Tissue Pressure Measurement in Ex Vivo Liver Undergoing Laser Ablation with Fiber-Optic Fabry-Perot Probe. <i>Sensors</i> , <b>2016</b> , 16,	3.8	17

153	Laser-induced optothermal response of gold nanoparticles: From a physical viewpoint to cancer treatment application. <i>Journal of Biophotonics</i> , <b>2021</b> , 14, e202000161	3.1	17
152	Fiber Optic Sensors for Biomedical Applications <b>2018</b> , 301-333		16
151	Mechanical ventilation with heated humidifiers: measurements of condensed water mass within the breathing circuit according to ventilatory settings. <i>Physiological Measurement</i> , <b>2013</b> , 34, 813-21	2.9	16
150	Agar-Coated Fiber Bragg Grating Sensor for Relative Humidity Measurements: Influence of Coating Thickness and Polymer Concentration. <i>IEEE Sensors Journal</i> , <b>2019</b> , 19, 3335-3342	4	16
149	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> , <b>2013</b> , 34, 105-112 <sup>22</sup>	2.2	15
148	Mathematical model and minimal measurement system for optimal control of heated humidifiers in neonatal ventilation. <i>Medical Engineering and Physics</i> , <b>2010</b> , 32, 475-81	2.4	15
147	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> , <b>2017</b> , 20, 1678-1689	2.1	14
146	A New Pressure Guided Management Tool for Epidural Space Detection: Feasibility Assessment on a Simulator. <i>Artificial Organs</i> , <b>2017</b> , 41, E320-E325	2.6	14
145	A novel control strategy to improve the performances of heated wire humidifiers in artificial neonatal ventilation. <i>Physiological Measurement</i> , <b>2012</b> , 33, 1199-211	2.9	14
144	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> , <b>2012</b> , 45, 2064-2071	4.6	13
143	Theoretical model and design of a device to reduce the influence of environmental factors on refractive surgery outcomes. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , <b>2006</b> , 2006, 343-6		13
142	Validation of a Wearable Device and an Algorithm for Respiratory Monitoring During Exercise. <i>IEEE Sensors Journal</i> , <b>2019</b> , 19, 4652-4659	4	12
141	Predelivery uterine arteries embolization in patients affected by placental implant anomalies. <i>Radiologia Medica</i> , <b>2018</b> , 123, 71-78	6.5	12
140	Determinants of alanine aminotransferase levels in a large population from Southern Italy: relationship between alanine aminotransferase and age. <i>Digestive and Liver Disease</i> , <b>2014</b> , 46, 909-15	3.3	12
139	. <i>IEEE Sensors Journal</i> , <b>2014</b> , 14, 4354-4360	4	12
138	Techniques for Temperature Monitoring of Myocardial Tissue Undergoing Radiofrequency Ablation Treatments: An Overview. <i>Sensors</i> , <b>2021</b> , 21,	3.8	12
137	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> , <b>2018</b> , 49, 101-105	2.7	12
136	Multipoint Temperature Monitoring of Microwave Thermal Ablation in Bones through Fiber Bragg Grating Sensor Arrays. <i>Sensors</i> , <b>2020</b> , 20,	3.8	11

135	An open-loop controlled active lung simulator for preterm infants. <i>Medical Engineering and Physics</i> , <b>2011</b> , 33, 47-55	2.4	11
134	A Magnetic Resonance-Compatible Wearable Device Based on Functionalized Fiber Optic Sensor for Respiratory Monitoring. <i>IEEE Sensors Journal</i> , <b>2021</b> , 21, 14418-14425	4	11
133	Physical therapy and precision rehabilitation in shoulder rotator cuff disease. <i>International Orthopaedics</i> , <b>2020</b> , 44, 893-903	3.8	10
132	Fiber Optic Sensors-Based Thermal Analysis of Perfusion-Mediated Tissue Cooling in Liver Undergoing Laser Ablation. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2021</b> , 68, 1066-1073	5	10
131	Predelivery uterine arteries embolization in patients with placental implant anomalies: a cost-effective procedure. <i>Radiologia Medica</i> , <b>2017</b> , 122, 77-79	6.5	9
130	Estimation of anisotropy coefficient of swine pancreas, liver and muscle at 1064nm based on goniometric technique. <i>Journal of Biophotonics</i> , <b>2015</b> , 8, 422-8	3.1	9
129	Efficacy of cathodal transcranial direct current stimulation in drug-resistant epilepsy: a proof of principle. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2014</b> , 2014, 530-3	0.9	9
128	Scapular Dyskinesia: From Basic Science to Ultimate Treatment. <i>International Journal of Environmental Research and Public Health</i> , <b>2020</b> , 17,	4.6	8
127	Calibration and Uncertainty Evaluation Using Monte Carlo Method of a Simple 2D Sound Localization System. <i>IEEE Sensors Journal</i> , <b>2013</b> , 13, 3312-3318	4	8
126	Theoretical assessment of principal factors influencing laser interstitial thermotherapy outcomes on pancreas. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2012</b> , 2012, 5687-90	0.9	8
125	A Wearable Device Based on a Fiber Bragg Grating Sensor for Low Back Movements Monitoring. <i>Sensors</i> , <b>2020</b> , 20,	3.8	8
124	Epidemiology of Paediatric Shoulder Dislocation: A Nationwide Study in Italy from 2001 to 2014. <i>International Journal of Environmental Research and Public Health</i> , <b>2020</b> , 17,	4.6	7
123	Dynamic MR in patients affected by neurogenital claudication: technique and results from a single-center experience. <i>Neuroradiology</i> , <b>2016</b> , 58, 765-70	3.2	7
122	Monitoring of temperature increase and tissue vaporization during laser interstitial thermotherapy of ex vivo swine liver by computed tomography. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2013</b> , 2013, 376-81	0.9	7
121	<b>2011</b> ,		7
120	Multidimensional thermal mapping during radiofrequency ablation treatments with minimally invasive fiber optic sensors. <i>Biomedical Optics Express</i> , <b>2018</b> , 9, 5891-5902	3.5	7
119	<b>2016</b> ,		7
118	Conservative versus surgical management for patients with rotator cuff tears: a systematic review and META-analysis. <i>BMC Musculoskeletal Disorders</i> , <b>2021</b> , 22, 50	2.8	7

117	Fiber Bragg Grating Sensors-based Thermometry of Gold Nanorod-enhanced Photothermal Therapy in Tumor Model. <i>IEEE Sensors Journal</i> , <b>2021</b> , 1-1	4	7
116	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> , <b>2020</b> , 17,	4.6	6
115	Laser ablation of the biliary tree: in vivo proof of concept as potential treatment of unresectable cholangiocarcinoma. <i>International Journal of Hyperthermia</i> , <b>2018</b> , 34, 1372-1380	3.7	6
114	Measurement system based on RGB camera signal for contactless breathing pattern and respiratory rate monitoring <b>2018</b> ,		6
113	Comparison of marker models for the analysis of the volume variation and thoracoabdominal motion pattern in untrained and trained participants. <i>Journal of Biomechanics</i> , <b>2018</b> , 76, 247-252	2.9	6
112	Performance Activities and Match Outcomes of Professional Soccer Teams during the 2016/2017 Serie A Season. <i>Medicina (Lithuania)</i> , <b>2019</b> , 55,	3.1	6
111	Sex determination from scapular length measurements by CT scans images in a Caucasian population. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2013</b> , 2013, 1632-5	0.9	6
110	A new ecological method for the estimation of Nutritive Sucking Efficiency in newborns: measurement principle and experimental assessment. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual</i>	0.9	6
109	A micromachined intensity-modulated fiber optic sensor for strain measurements: working principle and static calibration. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2012</b> , 2012, 5790-3	0.9	6
108	Injection pressures measuring for a safe peripheral nerve block. <i>Minerva Anestesiologica</i> , <b>2019</b> , 85, 1003-1013	1.9	6
107	A new pressure guided management tool for epidural space detection: feasibility assessment in a clinical scenario. <i>Minerva Anestesiologica</i> , <b>2020</b> , 86, 736-741	1.9	6
106	Laser-induced thermal response and controlled release of copper oxide nanoparticles from multifunctional polymeric nanocarriers. <i>Science and Technology of Advanced Materials</i> , <b>2021</b> , 22, 218-233	7.1	6
105	A Wearable System Based on Flexible Sensors for Unobtrusive Respiratory Monitoring in Occupational Settings. <i>IEEE Sensors Journal</i> , <b>2021</b> , 21, 14369-14378	4	6
104	A Novel System to Study the Coordination of Sucking and Breathing in Newborns During Bottle Feeding. <i>IEEE Sensors Journal</i> , <b>2016</b> , 1-1	4	6
103	. <i>IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology</i> , <b>2018</b> , 2, 172-178	2.8	6
102	Cardiac monitoring with a smart textile based on polymer-encapsulated FBG: influence of sensor positioning <b>2019</b> ,		5
101	Feasibility assessment of magnetic resonance-thermometry on pancreas undergoing laser ablation: Sensitivity analysis of three sequences. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2016</b> , 80, 21-28	4.6	5
100	Dark blood versus bright blood T2 acquisition in cardiovascular magnetic resonance (CMR) for thalassaemia major (TM) patients: evaluation of feasibility, reproducibility and image quality. <i>European Journal of Radiology</i> , <b>2014</b> , 83, e8-e14	4.7	5

99	Gas pre-warming for improving performances of heated humidifiers in neonatal ventilation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2011</b> , 2011, 1205-8	0.9	5
98	Highly dense FBG arrays for millimeter-scale thermal monitoring during nanocomposite-enhanced laser ablation <b>2020</b> ,		5
97	Fiber Bragg Grating Sensors for Millimetric-Scale Temperature Monitoring of Cardiac Tissue Undergoing Radiofrequency Ablation: A Feasibility Assessment. <i>Sensors</i> , <b>2020</b> , 20,	3.8	5
96	Fiber Bragg Grating Sensors for Temperature Monitoring During Thermal Ablation Procedure: Experimental Assessment of Artefact Caused by Respiratory Movements. <i>IEEE Sensors Journal</i> , <b>2021</b> , 21, 13342-13349	4	5
95	Estimation of optical properties of neuroendocrine pancreas tumor with double-integrating-sphere system and inverse Monte Carlo model. <i>Lasers in Medical Science</i> , <b>2016</b> , 31, 1041-50	3.1	5
94	Temperature Monitoring in Hyperthermia Treatments of Bone Tumors: State-of-the-Art and Future Challenges. <i>Sensors</i> , <b>2021</b> , 21,	3.8	5
93	Comparison of two methods for estimating respiratory waveforms from videos without contact <b>2019</b> ,		4
92	Influence of motion artifacts on a smart garment for monitoring respiratory rate <b>2019</b> ,		4
91	Influence of FBG sensors length on temperature measures in laser-irradiated pancreas: theoretical and experimental evaluation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2013</b> , 2013, 3737-40	0.9	4
90	Relationship between myocardial T2 values and cardiac volumetric and functional parameters in Ethalassemia patients evaluated by cardiac magnetic resonance in association with serum ferritin levels. <i>European Journal of Radiology</i> , <b>2013</b> , 82, e441-7	4.7	4
89	Non-invasive estimation of cardiac output in mechanically ventilated patients: a prolonged expiration method. <i>Annals of Biomedical Engineering</i> , <b>2012</b> , 40, 1777-89	4.7	4
88	Influence of gas temperature on the performances of a low dead space capillary type pneumotachograph for neonatal ventilation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2010</b> , 2010, 1201-4	0.9	4
87	A multi-point heart rate monitoring using a soft wearable system based on fiber optic technology. <i>Scientific Reports</i> , <b>2021</b> , 11, 21162	4.9	4
86	Epidemiology of Achilles tendon surgery in Italy: a nationwide registry study, from 2001 through 2015. <i>BMC Musculoskeletal Disorders</i> , <b>2020</b> , 21, 687	2.8	4
85	A wearable system for knee flexion/extension monitoring: design and assessment <b>2020</b> ,		4
84	Personalized, Predictive, Participatory, Precision, and Preventive (P5) Medicine in Rotator Cuff Tears. <i>Journal of Personalized Medicine</i> , <b>2021</b> , 11,	3.6	4
83	Non-Contact Respiratory Monitoring Using an RGB Camera for Real-World Applications. <i>Sensors</i> , <b>2021</b> , 21,	3.8	4
82	Preliminary analysis of ultrasound elastography imaging-based thermometry on non-perfused ex vivo swine liver. <i>Journal of Ultrasound</i> , <b>2020</b> , 23, 69-75	3.4	4

81	Investigation of the Heat Sink Effect During Microwave Ablation in Hepatic Tissue: Experimental and Numerical Analysis. <i>IEEE Sensors Journal</i> , <b>2021</b> , 1-1	4	4
80	Soft System Based on Fiber Bragg Grating Sensor for Loss of Resistance Detection during Epidural Procedures: In Silico and In Vivo Assessment. <i>Sensors</i> , <b>2021</b> , 21,	3.8	4
79	Retear rates after rotator cuff surgery: a systematic review and meta-analysis. <i>BMC Musculoskeletal Disorders</i> , <b>2021</b> , 22, 749	2.8	4
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77	Design and Development of Large-Area FBG-Based Sensing Skin for Collaborative Robotics <b>2019</b> ,		3
76	Influence of torso movements on a multi-sensor garment for respiratory monitoring during walking and running activities <b>2020</b> ,		3
75	Performances of heated wire humidifiers during adult mechanical ventilation: Estimation of the amount of condensation <b>2016</b> ,		3
74	<b>2018</b> ,		3
73	Single-plane neck movements and respiratory frequency monitoring: a smart system for computer workers <b>2019</b> ,		3
72	Metrological properties evaluation of a chest wall simulator during simulated quiet breathing <b>2015</b> ,		3
71	An MR-compatible force sensor based on FBG technology for biomedical application. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2014</b> , 2014, 5731-4	0.9	3
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67	Fiber Bragg Grating Sensors for Thermometry during Gold Nanorods-mediated Photothermal Therapy in Tumor Model <b>2020</b> ,		3
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60	Thermal analysis of laser irradiation-gold nanorod combinations at 808 nm, 940 nm, 975 nm and 1064 nm wavelengths in breast cancer model. <i>International Journal of Hyperthermia</i> , <b>2021</b> , 38, 1099-1110	3.7	3
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44	Multiplexing of distributed temperature sensing achieved by nanoparticle-doped fibers <b>2019</b> ,		2
43	Respiratory monitoring during cycling exercise: performance assessment of a smart t-shirt embedding fiber optic sensors <b>2020</b> ,		2
42	Smart Mattress Based on Fiber Bragg Grating Sensors for Respiratory Monitoring: A Feasibility Test <b>2021</b> ,		2
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27	New Horizons for Laser Ablation: Nanomedicine, Thermometry, and Hyperthermal Treatment Planning Tools <b>2020</b> , 145-151		1
26	Contactless Heart Rate Monitoring Using A Standard RGB Camera <b>2020</b> ,		1
25	<b>2020</b> ,		1
24	A wearable system for respiratory and pace monitoring in running activities: a feasibility study <b>2020</b>		1
23	Wearable stretchable sensor based on conductive textile fabric for shoulder motion monitoring <b>2020</b> ,		1
22	Fiber Bragg Grating Sensors for Performance Evaluation of Fast Magnetic Resonance Thermometry on Synthetic Phantom. <i>Sensors</i> , <b>2020</b> , 20,	3.8	1
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17	Feasibility assessment of an FBG-based soft sensor embedded into a single-use surgical mask for respiratory monitoring <b>2021</b> ,		1
16	<b>2021</b> ,		1
15	A smart face mask based on photoplethysmography for cardiorespiratory monitoring in occupational settings <b>2021</b> ,		1
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13	Validity Analysis of WalkerView Instrumented Treadmill for Measuring Spatiotemporal and Kinematic Gait Parameters. <i>Sensors</i> , <b>2021</b> , 21,	3.8	1
12	<b>2016</b> ,		1
11	Ultrasound estimation of pleural effusion in geriatric patients <b>2016</b> ,		1
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