Emiliano Schena

List of Publications by Year
in descending order

269	6,723	53794	88630
papers	citations	45 h-index	70 g-index

274	274	274	4976
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Fiber Bragg Grating Sensors-Based Thermometry of Gold Nanorod-Enhanced Photothermal Therapy in Tumor Model. IEEE Sensors Journal, 2022, 22, 11297-11306.	4.7	20
2	AS-OCT and Ocular Hygrometer as Innovative Tools in Dry Eye Disease Diagnosis. Applied Sciences (Switzerland), 2022, 12, 1647.	2.5	4
3	Spatial temperature reconstructions in myocardial tissues undergoing radiofrequency ablations by performing high-resolved temperature measurements. Journal of Interventional Cardiac Electrophysiology, 2022, 64, 173-182.	1.3	2
4	Contactless Vital Signs Monitoring From Videos Recorded With Digital Cameras: An Overview. Frontiers in Physiology, 2022, 13, 801709.	2.8	20
5	A Wearable System Composed of FBG-Based Soft Sensors for Trunk Compensatory Movements Detection in Post-Stroke Hemiplegic Patients. Sensors, 2022, 22, 1386.	3.8	7
6	Multi-ROI Spectral Approach for the Continuous Remote Cardio-Respiratory Monitoring from Mobile Device Built-In Cameras. Sensors, 2022, 22, 2539.	3.8	13
7	How to Investigate the Effect of Music on Breathing during Exercise: Methodology and Tools. Sensors, 2022, 22, 2351.	3.8	3
8	Epidural Steroid Injections for Low Back Pain: A Narrative Review. International Journal of Environmental Research and Public Health, 2022, 19, 231.	2.6	16
9	Multiscale and Multiphysics Modeling of Anisotropic Cardiac RFCA: Experimental-Based Model Calibration via Multi-Point Temperature Measurements. Frontiers in Physiology, 2022, 13, 845896.	2.8	4
10	Silicone-Textile Composite Resistive Strain Sensors for Human Motion-Related Parameters. Sensors, 2022, 22, 3954.	3.8	9
11	A Soft and Skin-Interfaced Smart Patch Based on Fiber Optics for Cardiorespiratory Monitoring. Biosensors, 2022, 12, 363.	4.7	19
12	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.	16.0	53
13	A meta-learning algorithm for respiratory flow prediction from FBG-based wearables in unrestrained conditions. Artificial Intelligence in Medicine, 2022, 130, 102328.	6.5	7
14	Special Section on IEEE MeMeA 2021. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-3.	4.7	0
15	A Magnetic Resonance-Compatible Wearable Device Based on Functionalized Fiber Optic Sensor for Respiratory Monitoring. IEEE Sensors Journal, 2021, 21, 14418-14425.	4.7	30
16	Fiber Bragg Grating Sensors for Cardiorespiratory Monitoring: A Review. IEEE Sensors Journal, 2021, 21, 14069-14080.	4.7	60
17	Fiber Optic Sensors-Based Thermal Analysis of Perfusion-Mediated Tissue Cooling in Liver Undergoing Laser Ablation. IEEE Transactions on Biomedical Engineering, 2021, 68, 1066-1073.	4.2	21
18	Laserâ€induced optothermal response of gold nanoparticles: From a physical viewpoint to cancer treatment application. Journal of Biophotonics, 2021, 14, e202000161.	2.3	33

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19	Contactless Methods For Measuring Respiratory Rate: A Review. IEEE Sensors Journal, 2021, 21, 12821-12839.	4.7	77
20	Conservative versus surgical management for patients with rotator cuff tears: a systematic review and META-analysis. BMC Musculoskeletal Disorders, 2021, 22, 50.	1.9	32
21	Investigation of the Heat Sink Effect During Microwave Ablation in Hepatic Tissue: Experimental and Numerical Analysis. IEEE Sensors Journal, 2021, 21, 22743-22751.	4.7	15
22	Thermal analysis of laser irradiation-gold nanorod combinations at 808â€‰nm, 940â€‰nm, 975â€‰nm and 1064â€‰nm wavelengths in breast cancer model. International Journal of Hyperthermia, 2021, 38, 1099-1110.	2.5	14
23	Techniques for Temperature Monitoring of Myocardial Tissue Undergoing Radiofrequency Ablation Treatments: An Overview. Sensors, 2021, 21, 1453.	3.8	21
24	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.	4.7	15
25	Laser-induced thermal response and controlled release of copper oxide nanoparticles from multifunctional polymeric nanocarriers. Science and Technology of Advanced Materials, 2021, 22, 218-233.	6.1	20
26	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.	1.7	7
27	Personalized, Predictive, Participatory, Precision, and Preventive (P5) Medicine in Rotator Cuff Tears. Journal of Personalized Medicine, 2021, 11, 255.	2.5	11
28	A Wearable System with Embedded Conductive Textiles and an IMU for Unobtrusive Cardio-Respiratory Monitoring. Sensors, 2021, 21, 3018.	3.8	24
29	Epidemiology of shoulder instability in Italy: A 14-years nationwide registry study. Injury, 2021, 52, 862-868.	1.7	6
30	FBG-based System for Loss of Resistance Detection During Epidural Injections. , 2021, , .		4
31	Respiratory rate monitoring of video terminal operators based on fiber optic technology. , 2021, , .		1
32	Smart Mattress Based on Fiber Bragg Grating Sensors for Respiratory Monitoring: A Feasibility Test. , 2021, , .		11
33	Measurement of Enhanced Photothermal Effects of CuO-encapsulated Polymeric Nanospheres. , 2021, , .		0
34	Polymer-encapsulated flexible strain sensors to monitor scapular movement: a pilot study. , 2021, , .		1
35	Wearable system for elbow angles estimation based on a polymer encapsulated conductive textile. , 2021, , .		1
36	Fiber Bragg Grating Sensors for Temperature Monitoring During Thermal Ablation Procedure: Experimental Assessment of Artefact Caused by Respiratory Movements. IEEE Sensors Journal, 2021, 21, 13342-13349.	4.7	21

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37	Respiratory Rate Estimation During Walking/Running Activities Using Principal Components Estimated from Signals Recorded by a Smart Garment Embedding Piezoresistive Sensors. , 2021, , .		1
38	Preliminary analysis on the cervicothoracic angular velocity during forward bending and backward return task. , 2021, , .		2
39	Feasibility assessment of an FBG-based soft sensor embedded into a single-use surgical mask for respiratory monitoring. , 2021, , .		3
40	Temperature Monitoring by Fiber Bragg Gratings during Microwave Ablation of Ex Vivo Organs for Heat Sink Effect Assessment. , 2021, , .		2
41	Cardiorespiratory monitoring using a mechanical and an optical system. , 2021, , .		5
42	A smart face mask based on photoplethysmography for cardiorespiratory monitoring in occupational settings. , 2021, , .		4
43	A Wearable System Based on Flexible Sensors for Unobtrusive Respiratory Monitoring in Occupational Settings. IEEE Sensors Journal, 2021, 21, 14369-14378.	4.7	32
44	Non-Contact Respiratory Monitoring Using an RGB Camera for Real-World Applications. Sensors, 2021, 21, 5126.	3.8	22
45	Conservative versus accelerated rehabilitation after rotator cuff repair: a systematic review and meta-analysis. BMC Musculoskeletal Disorders, 2021, 22, 637.	1.9	13
46	Validity Analysis of WalkerViewTM Instrumented Treadmill for Measuring Spatiotemporal and Kinematic Gait Parameters. Sensors, 2021, 21, 4795.	3.8	8
47	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.	4.7	0
48	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.	3.8	13
49	Skin Strain Analysis of the Scapular Region and Wearables Design. Sensors, 2021, 21, 5761.	3.8	8
50	Temperature Monitoring in Hyperthermia Treatments of Bone Tumors: State-of-the-Art and Future Challenges. Sensors, 2021, 21, 5470.	3.8	15
51	Retear rates after rotator cuff surgery: a systematic review and meta-analysis. BMC Musculoskeletal Disorders, 2021, 22, 749.	1.9	60
52	Plant Wearable Sensors Based on FBG Technology for Growth and Microclimate Monitoring. Sensors, 2021, 21, 6327.	3.8	23
53	Smart Sensors for Healthcare and Medical Applications. Sensors, 2021, 21, 543.	3.8	14
54	Wearable Device Based on a Flexible Conductive Textile for Knee Joint Movements Monitoring. IEEE Sensors Journal, 2021, 21, 26655-26664.	4.7	13

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55	Validation and Assessment of a Posture Measurement System with Magneto-Inertial Measurement Units. Sensors, 2021, 21, 6610.	3.8	11
56	A multi-point heart rate monitoring using a soft wearable system based on fiber optic technology. Scientific Reports, 2021, 11, 21162.	3.3	26
57	Breath-Jockey: Development and Feasibility Assessment of a Wearable System for Respiratory Rate and Kinematic Parameter Estimation for Gallop Athletes. Sensors, 2021, 21, 152.	3.8	13
58	Wearable systems for respiratory monitoring: solutions based on strain measurements. , 2021, , .		1
59	A Multisensory Platform for Maximizing Collective Intelligence in the Operating Room. , 2021, , .		2
60	Preliminary analysis of ultrasound elastography imaging-based thermometry on non-perfused ex vivo swine liver. Journal of Ultrasound, 2020, 23, 69-75.	1.3	6
61	A Machine-Learning-Based Approach to Solve Both Contact Location and Force in Soft Material Tactile Sensors. Soft Robotics, 2020, 7, 409-420.	8.0	61
62	Respiratory Monitoring During Physical Activities With a Multi-Sensor Smart Garment and Related Algorithms. IEEE Sensors Journal, 2020, 20, 2173-2180.	4.7	46
63	Epidemiology of Achilles tendon surgery in Italy: a nationwide registry study, from 2001 through 2015. BMC Musculoskeletal Disorders, 2020, 21, 687.	1.9	6
64	Contactless Heart Rate Monitoring Using A Standard RGB Camera. , 2020, , .		3
65	Clean-Breathing: a Novel Sensor Fusion Algorithm Based on ICA to Remove Motion Artifacts from Breathing Signal. , 2020, , .		2
66	A wearable system for respiratory and pace monitoring in running activities: a feasibility study. , 2020, , .		6
67	A Wearable Device Based on a Fiber Bragg Grating Sensor for Low Back Movements Monitoring. Sensors, 2020, 20, 3825.	3.8	20
68	Respiratory monitoring during cycling exercise: performance assessment of a smart t-shirt embedding fiber optic sensors. , 2020, , .		3
69	Wearable stretchable sensor based on conductive textile fabric for shoulder motion monitoring. , 2020, , .		7
70	A wearable system for knee flexion/extension monitoring: design and assessment. , 2020, , .		6
71	Fiber Bragg Grating Sensors for Millimetric-Scale Temperature Monitoring of Cardiac Tissue Undergoing Radiofrequency Ablation: A Feasibility Assessment. Sensors, 2020, 20, 6490.	3.8	10
72	Fiber Bragg Grating Sensors for Performance Evaluation of Fast Magnetic Resonance Thermometry on Synthetic Phantom. Sensors, 2020, 20, 6468.	3.8	14

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73	The Importance of Respiratory Rate Monitoring: From Healthcare to Sport and Exercise. Sensors, 2020, 20, 6396.	3.8	168
74	A Test Bench to Assess Systems for Respiratory Monitoring of Workers. , 2020, , .		1
75	Conductive textile element embedded in a wearable device for joint motion monitoring. , 2020, , .		5
76	A New Smart-Fabric based Body Area Sensor Network for Work Risk Assessment. , 2020, , .		7
77	Evaluation of thoraco-abdominal asynchrony using conductive textiles. , 2020, , .		2
78	A non-invasive system for epidural space detection: comparison with CompufloÂ®. , 2020, , .		1
79	Virtual Reality, Augmented Reality, Gamification, and Telerehabilitation: Psychological Impact on Orthopedic Patientsâ€™ Rehabilitation. Journal of Clinical Medicine, 2020, 9, 2567.	2.4	80
80	Temperature Monitoring During Microwave Thermal Ablation of Ex Vivo Bovine Bone: a Pilot Test. , 2020, , .		2
81	Fiber Bragg Gratings for Medical Applications and Future Challenges: A Review. IEEE Access, 2020, 8, 156863-156888.	4.2	187
82	Evaluation of the Thermal Response of Liver Tissue Undergoing Microwave Treatment by Means of Fiber Bragg Grating Sensors. , 2020, , .		1
83	An fMRI Compatible Smart Device for Measuring Palmar Grasping Actions in Newborns. Sensors, 2020, 20, 6040.	3.8	11
84	Remote Respiratory Monitoring in the Time of COVID-19. Frontiers in Physiology, 2020, 11, 635.	2.8	76
85	Multipoint Temperature Monitoring of Microwave Thermal Ablation in Bones through Fiber Bragg Grating Sensor Arrays. Sensors, 2020, 20, 3200.	3.8	25
86	Physical therapy and precision rehabilitation in shoulder rotator cuff disease. International Orthopaedics, 2020, 44, 893-903.	1.9	20
87	Influence of torso movements on a multi-sensor garment for respiratory monitoring during walking and running activities. , 2020, , .		10
88	A Multi-Parametric Wearable System to Monitor Neck Movements and Respiratory Frequency of Computer Workers. Sensors, 2020, 20, 536.	3.8	60
89	Scapular Dyskinesis: From Basic Science to Ultimate Treatment. International Journal of Environmental Research and Public Health, 2020, 17, 2974.	2.6	31
90	Cost-Effectiveness of Supervised versus Unsupervised Rehabilitation for Rotator-Cuff Repair: Systematic Review and Meta-Analysis. International Journal of Environmental Research and Public Health, 2020, 17, 2852.	2.6	17

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91	Epidemiology of Paediatric Shoulder Dislocation: A Nationwide Study in Italy from 2001 to 2014. International Journal of Environmental Research and Public Health, 2020, 17, 2834.	2.6	18
92	Highly dense FBG arrays for millimeter-scale thermal monitoring during nanocomposite-enhanced laser ablation. , 2020, , .		7
93	A new pressure guided management tool for epidural space detection: feasibility assessment in a clinical scenario. Minerva Anestesiologica, 2020, 86, 736-741.	1.0	9
94	New Horizons for Laser Ablation: Nanomedicine, Thermometry, and Hyperthermal Treatment Planning Tools. , 2020, , 145-151.		4
95	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.	2.5	3
96	Fiber Bragg Grating Sensors for Thermometry during Gold Nanorods-mediated Photothermal Therapy in Tumor Model. , 2020, , .		5
97	Single-plane neck movements and respiratory frequency monitoring: a smart system for computer workers. , 2019, , .		5
98	Performance Activities and Match Outcomes of Professional Soccer Teams during the 2016/2017 Serie A Season. Medicina (Lithuania), 2019, 55, 469.	2.0	12
99	Cardio-Respiratory Monitoring in Archery Using a Smart Textile Based on Flexible Fiber Bragg Grating Sensors. Sensors, 2019, 19, 3581.	3.8	82
100	Non-Contact Monitoring of Breathing Pattern and Respiratory Rate via RGB Signal Measurement. Sensors, 2019, 19, 2758.	3.8	65
101	Application of Nanoparticles and Nanomaterials in Thermal Ablation Therapy of Cancer. Nanomaterials, 2019, 9, 1195.	4.1	64
102	Force monitoring during Peripheral Nerve Blocks: design and feasibility assessment of a new noninvasive system. , 2019, , .		1
103	Cardiac monitoring with a smart textile based on polymer-encapsulated FBG: influence of sensor positioning. , 2019, , .		10
104	Design and Development of Large-Area FBG-Based Sensing Skin for Collaborative Robotics. , 2019, , .		7
105	Comparison of two methods for estimating respiratory waveforms from videos without contact. , 2019, , .		12
106	A wearable system based on fiber Bragg grating for monitoring respiratory and heart activity of archers. , 2019, , .		6
107	Temperature map of kidneys undergoing microwave ablation using computed tomography-thermometry: ex-vivo experiments and numerical simulations. , 2019, , .		1
108	Influence of motion artifacts on a smart garment for monitoring respiratory rate. , 2019, , .		6

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109	Wearable System Based on Flexible FBG for Respiratory and Cardiac Monitoring. IEEE Sensors Journal, 2019, 19, 7391-7398.	4.7	147
110	Smart Textile Based on Piezoresistive Sensing Elements for Respiratory Monitoring. IEEE Sensors Journal, 2019, 19, 7718-7725.	4.7	66
111	Contact-Based Methods for Measuring Respiratory Rate. Sensors, 2019, 19, 908.	3.8	259
112	Validation of a Wearable Device and an Algorithm for Respiratory Monitoring During Exercise. IEEE Sensors Journal, 2019, 19, 4652-4659.	4.7	21
113	Fiber Bragg Grating Sensors for Temperature Measurements during Radiofrequency Ablation of Solid Tumors. , 2019, , .		1
114	Wearable system based on piezoresistive sensors for monitoring bowing technique in musicians. , 2019, , .		1
115	Wearable systems for shoulder kinematics assessment: a systematic review. BMC Musculoskeletal Disorders, 2019, 20, 546.	1.9	62
116	Agar-Coated Fiber Bragg Grating Sensor for Relative Humidity Measurements: Influence of Coating Thickness and Polymer Concentration. IEEE Sensors Journal, 2019, 19, 3335-3342.	4.7	29
117	Multi-fiber distributed thermal profiling of minimally invasive thermal ablation with scattering-level multiplexing in MgO-doped fibers. Biomedical Optics Express, 2019, 10, 1282.	2.9	47
118	Alpine junior world ski championship: nutritional habits and performance in elite skiers. Journal of Sports Medicine and Physical Fitness, 2019, 59, 1339-1345.	0.7	2
119	Injection pressures measuring for a safe peripheral nerve block. Minerva Anestesiologica, 2019, 85, 1003-1013.	1.0	8
120	Multiplexing of distributed temperature sensing achieved by nanoparticle-doped fibers. , 2019, , .		2
121	Dynamic susceptibility contrast (DSC) perfusion MRI in differential diagnosis between radionecrosis and neoangiogenesis in cerebral metastases using rCBV, rCBF and K2. Radiologia Medica, 2018, 123, 545-552.	7.7	33
122	Feasibility of EUS-guided Nd:YAG laser ablation of unresectable pancreatic adenocarcinoma. Gastrointestinal Endoscopy, 2018, 88, 168-174.e1.	1.0	73
123	Fiber Bragg Grating Probe for Relative Humidity and Respiratory Frequency Estimation: Assessment During Mechanical Ventilation. IEEE Sensors Journal, 2018, 18, 2125-2130.	4.7	33
124	Laser ablation of the biliary tree:in vivoproof of concept as potential treatment of unresectable cholangiocarcinoma. International Journal of Hyperthermia, 2018, 34, 1372-1380.	2.5	8
125	Smart textile for respiratory monitoring and thoracoâ€abdominal motion pattern evaluation. Journal of Biophotonics, 2018, 11, e201700263.	2.3	96
126	Detection of thermal gradients through fiber-optic Chirped Fiber Bragg Grating (CFBG): Medical thermal ablation scenario. Optical Fiber Technology, 2018, 41, 48-55.	2.7	50

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127	Fiber optic sensors for sub-centimeter spatially resolved measurements: Review and biomedical applications. Optical Fiber Technology, 2018, 43, 6-19.	2.7	117
128	Predelivery uterine arteries embolization in patients affected by placental implant anomalies. Radiologia Medica, 2018, 123, 71-78.	7.7	14
129	Percutaneous low-dose CT-guided lung biopsy with an augmented reality navigation system: validation of the technique on 496 suspected lesions. Clinical Imaging, 2018, 49, 101-105.	1.5	20
130	Thermal ablation of pancreatic cancer: A systematic literature review of clinical practice and pre-clinical studies. International Journal of Hyperthermia, 2018, 35, 398-418.	2.5	62
131	Contactless Monitoring of Breathing Patterns and Respiratory Rate at the Pit of the Neck: A Single Camera Approach. Journal of Sensors, 2018, 2018, 1-13.	1.1	80
132	Optical Fiber Gratings for Humidity Measurements: A Review. IEEE Sensors Journal, 2018, 18, 9065-9074.	4.7	47
133	In vivo image-guided MR thermometry during laser ablation: experience in kidney and liver. , 2018, , .		2
134	Experimental analysis of the influencing factors on the response of a tool for epidural space detection. , 2018, , .		2
135	Temperature Monitoring during Radio Frequency Thermal Ablation Treatment on Ex Vivo perfused organ by Fiber Bragg Grating Sensors. , 2018, , .		2
136	Solutions to Improve the Outcomes of Thermal Treatments in Oncology: Multipoint Temperature Monitoring. IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2018, 2, 172-178.	3.4	9
137	Non-invasive MR thermometry in liver undergoing laser ablation: multi-parameters analysis. , 2018, , .		0
138	Measurement system based on RBG camera signal for contactless breathing pattern and respiratory rate monitoring. , 2018, , .		19
139	Multi-sensitive FBG-based needle for both relative humidity and breathing rate monitoring. , 2018, , .		5
140	Influence of the length of lead lines on the response of a variable orifice meter: analysis of sensitivity and settling time. , 2018, , .		2
141	Feature Extraction in Sit-to-Stand Task Using M-IMU Sensors and Evaluatiton in Parkinson's Disease. , 2018, , .		9
142	Fiber Optic Sensors for Biomedical Applications. , 2018, , 301-333.		30
143	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.	2.1	14
144	Multidimensional thermal mapping during radiofrequency ablation treatments with minimally invasive fiber optic sensors. Biomedical Optics Express, 2018, 9, 5891.	2.9	14

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145	High Spatial Resolution Fiber Optic Sensors and Their Impact in Biomedical Measurements and Diagnostic. , 2018, , .		0
146	Real-time temperature monitoring during radiofrequency treatments on ex-vivo animal model by fiber Bragg grating sensors. Proceedings of SPIE, 2017, , .	0.8	2
147	Optoelectronic Plethysmography in Clinical Practice and Research: A Review. Respiration, 2017, 93, 339-354.	2.6	70
148	Smart Textile Based on 12 Fiber Bragg Gratings Array for Vital Signs Monitoring. IEEE Sensors Journal, 2017, 17, 6037-6043.	4.7	85
149	Analysis of breathing via optoelectronic systems: comparison of four methods for computing breathing volumes and thoraco-abdominal motion pattern. Computer Methods in Biomechanics and Biomedical Engineering, 2017, 20, 1678-1689.	1.6	20
150	A New Pressure Guided Management Tool for Epidural Space Detection: Feasibility Assessment on a Simulator. Artificial Organs, 2017, 41, E320-E325.	1.9	21
151	Measurements of temperature during thermal ablation treatments on ex vivo liver tissue using fiber Bragg grating sensors. , 2017, , .		3
152	Gold nanorod-mediated near-infrared laser ablation: in vivo experiments on mice and theoretical analysis at different settings. International Journal of Hyperthermia, 2017, 33, 150-159.	2.5	41
153	Stent-assisted coiling in ruptured cerebral aneurysms: multi-center experience in acute phase. Radiologia Medica, 2017, 122, 43-52.	7.7	28
154	Predelivery uterine arteries embolization in patients with placental implant anomalies: a cost-effective procedure. Radiologia Medica, 2017, 122, 77-79.	7.7	10
155	Thermal gradient estimation with fiber-optic chirped FBG sensors: Experiments in biomedical applications. , 2017, , .		1
156	An integrated system for the monitoring of therapy and drug's side effects in Lymphoproliferative disorders. , 2017, 2017, 2672-2675.		1
157	Solutions for improving the outcomes of thermal treatments in oncology: Multi-point temperature monitoring. , 2017, , .		0
158	Laser Ablation for Cancer: Past, Present and Future. Journal of Functional Biomaterials, 2017, 8, 19.	4.4	116
159	Evaluation of Pressure Capacitive Sensors for Application in Grasping and Manipulation Analysis. Sensors, 2017, 17, 2846.	3.8	4
160	Fiber Bragg Grating Measuring System for Simultaneous Monitoring of Temperature and Humidity in Mechanical Ventilation. Sensors, 2017, 17, 749.	3.8	54
161	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. Journal of Biomedical Optics, 2017, 22, 1.	2.6	31
162	Three-Dimensional Temperature Map During Microwave Ablation of Ex Vivo Porcine Liver: Theoretical Prediction and Experimental Validation. , 2016, , .		0

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163	A Device for Respiratory Monitoring during Nutritive Sucking: Response to Neonatal Breathing Patterns. Journal of Sensors, 2016, 2016, 1-9.	1.1	3
164	Intra-Tissue Pressure Measurement in Ex Vivo Liver Undergoing Laser Ablation with Fiber-Optic Fabry-Perot Probe. Sensors, 2016, 16, 544.	3.8	23
165	Fiber Optic Sensors for Temperature Monitoring during Thermal Treatments: An Overview. Sensors, 2016, 16, 1144.	3.8	156
166	Feasibility Assessment and Analysis of Thermal Sensitivity of CT-Thermometry During Microwave Ablation of Ex Vivo Porcine Kidneys. , 2016, , .		1
167	Error of a Temperature Probe for Cancer Ablation Monitoring Caused by Respiratory Movements: <italic>Ex Vivo</italic> and <italic>In Vivo</italic> Analysis. IEEE Sensors Journal, 2016, 16, 5934-5941.	4.7	29
168	Intra-tissue pressure measurement during laser ablation with fiber-optic extrinsic Fabry-Perot sensor. , 2016, , .		1
169	Experimental validation of MWA effects on biological tissue by sensorized needles based on FBG technology. , 2016, , .		1
170	Feasibility assessment of an FBG-based probe for distributed temperature measurements during laser ablation. , 2016, , .		7
171	Ultrasound estimation of pleural effusion in geriatric patients. , 2016, , .		3
172	Linearly chirped fiber-optic Bragg grating as distributed temperature sensor for laser ablation. , 2016, , .		4
173	270 EUS-Guided Nd:YAG Laser Ablation of Locally Advanced Pancreatic Adenocarcinoma: Feasibility and Safety Study. Gastrointestinal Endoscopy, 2016, 83, AB135.	1.0	3
174	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.	2.1	8
175	Fibre optic sensors for temperature and pressure monitoring in laser ablation: experiments on ex-vivo animal model. Proceedings of SPIE, 2016, , .	0.8	0
176	A novel system to study the coordination of sucking and breathing in newborns during bottle feeding. IEEE Sensors Journal, 2016, , 1-1.	4.7	8
177	Performances of heated wire humidifiers during adult mechanical ventilation: Estimation of the amount of condensation. , 2016, , .		3
178	Design and Feasibility Assessment of a Magnetic Resonance-Compatible Smart Textile Based on Fiber Bragg Grating Sensors for Respiratory Monitoring. IEEE Sensors Journal, 2016, 16, 8103-8110.	4.7	73
179	Fiber Bragg grating sensors for spatially resolved measurements in ex-vivo pancreatic laser ablation. , 2016, , .		1
180	Influence of fiber Bragg grating length on temperature measurements in laser-irradiated organs. , 2016, , .		2

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181	Dynamic MR in patients affected by neurogenical claudication: technique and results from a single-center experience. Neuroradiology, 2016, 58, 765-770.	2.2	11
182	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.	5.0	8
183	Estimation of anisotropy coefficient of swine pancreas, liver and muscle at 1064Ânm based on goniometric technique. Journal of Biophotonics, 2015, 8, 422-428.	2.3	12
184	Smart Textile Based on Fiber Bragg Grating Sensors for Respiratory Monitoring: Design and Preliminary Trials. Biosensors, 2015, 5, 602-615.	4.7	114
185	Emerging clinical applications of computed tomography. Medical Devices: Evidence and Research, 2015, 8, 265.	0.8	34
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.	1.9	4
187	Experimental Assessment of a Variable Orifice Flowmeter for Respiratory Monitoring. Journal of Sensors, 2015, 2015, 1-7.	1.1	37
188	Feedforward Neural Network for Force Coding of an MRI-Compatible Tactile Sensor Array Based on Fiber Bragg Grating. Journal of Sensors, 2015, 2015, 1-9.	1.1	33
189	Metrological properties evaluation of a chest wall simulator during simulated quiet breathing. , 2015, , .		4
190	MRI-thermometry on ex vivo swine liver: Preliminary trials to assess the sensitivity of two sequences. , 2015, , .		0
191	Thermocouples for temperature monitoring during pancreatic laser ablation: Analysis of the measurement error. , 2015, , .		2
192	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, .	0.7	46
193	Temperature monitoring during microwave ablation in exÂvivo porcine livers. European Journal of Surgical Oncology, 2015, 41, 1699-1705.	1.0	52
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