

Paola Saccomandi

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.

113
papers

2,155
citations

26
h-index

43
g-index

146
ext. papers

2,904
ext. citations

3.1
avg, IF

5.3
L-index

#	Paper	IF	Citations
113	Techniques for temperature monitoring during laser-induced thermotherapy: an overview. <i>International Journal of Hyperthermia</i> , 2013 , 29, 609-19	3.7	134
112	Optical fiber-based MR-compatible sensors for medical applications: an overview. <i>Sensors</i> , 2013 , 13, 14165-20	3.20	133
111	Fiber Optic Sensors for Temperature Monitoring during Thermal Treatments: An Overview. <i>Sensors</i> , 2016 , 16,	3.8	103
110	Medical smart textiles based on fiber optic technology: an overview. <i>Journal of Functional Biomaterials</i> , 2015 , 6, 204-21	4.8	100
109	Theoretical analysis and experimental evaluation of laser-induced interstitial thermotherapy in ex vivo porcine pancreas. <i>IEEE Transactions on Biomedical Engineering</i> , 2012 , 59, 2958-64	5	96
108	Smart Textile Based on Fiber Bragg Grating Sensors for Respiratory Monitoring: Design and Preliminary Trials. <i>Biosensors</i> , 2015 , 5, 602-15	5.9	79
107	Flow measurement in mechanical ventilation: a review. <i>Medical Engineering and Physics</i> , 2015 , 37, 257-64	2.4	79
106	CT-based thermometry: an overview. <i>International Journal of Hyperthermia</i> , 2014 , 30, 219-27	3.7	73
105	Laser Ablation for Cancer: Past, Present and Future. <i>Journal of Functional Biomaterials</i> , 2017 , 8,	4.8	69
104	Microfabricated tactile sensors for biomedical applications: a review. <i>Biosensors</i> , 2014 , 4, 422-48	5.9	68
103	Smart textile for respiratory monitoring and thoraco-abdominal motion pattern evaluation. <i>Journal of Biophotonics</i> , 2018 , 11, e201700263	3.1	66
102	. <i>IEEE Sensors Journal</i> , 2017 , 17, 6037-6043	4	57
101	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	4	50
100	Optoelectronic Plethysmography in Clinical Practice and Research: A Review. <i>Respiration</i> , 2017 , 93, 339-354	3.54	45
99	Feasibility of EUS-guided Nd:YAG laser ablation of unresectable pancreatic adenocarcinoma. <i>Gastrointestinal Endoscopy</i> , 2018 , 88, 168-174.e1	5.2	44
98	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	3.7	41
97	Application of Nanoparticles and Nanomaterials in Thermal Ablation Therapy of Cancer. <i>Nanomaterials</i> , 2019 , 9,	5.4	37

96	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> , 2014 , 29, 607-14 ^{3.1}	37
95	. <i>IEEE Sensors Journal</i> , 2019 , 19, 7718-7725	4 35
94	US-guided application of Nd:YAG laser in porcine pancreatic tissue: an ex vivo study and numerical simulation. <i>Gastrointestinal Endoscopy</i> , 2013 , 78, 750-5	5.2 33
93	Gold nanorod-mediated near-infrared laser ablation: in vivo experiments on mice and theoretical analysis at different settings. <i>International Journal of Hyperthermia</i> , 2017 , 33, 150-159	3.7 33
92	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> , 2015 , 9,	1.3 31
91	Detection of thermal gradients through fiber-optic Chirped Fiber Bragg Grating (CFBG): Medical thermal ablation scenario. <i>Optical Fiber Technology</i> , 2018 , 41, 48-55	2.4 30
90	New intraoperative imaging technologies: Innovating the surgeon's eye toward surgical precision. <i>Journal of Surgical Oncology</i> , 2018 , 118, 265-282	2.8 28
89	Experimental Assessment of a Variable Orifice Flowmeter for Respiratory Monitoring. <i>Journal of Sensors</i> , 2015 , 2015, 1-7	2 27
88	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	9.2 27
87	Magnetic resonance-based thermometry during laser ablation on ex-vivo swine pancreas and liver. <i>Medical Engineering and Physics</i> , 2015 , 37, 631-41	2.4 25
86	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	1.7 24
85	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	1.7 24
84	Error of a Temperature Probe for Cancer Ablation Monitoring Caused by Respiratory Movements: Ex Vivo and In Vivo Analysis. <i>IEEE Sensors Journal</i> , 2016 , 16, 5934-5941	4 24
83	Fiber Bragg Grating Probe for Relative Humidity and Respiratory Frequency Estimation: Assessment During Mechanical Ventilation. <i>IEEE Sensors Journal</i> , 2018 , 18, 2125-2130	4 21
82	Emerging clinical applications of computed tomography. <i>Medical Devices: Evidence and Research</i> , 2015 , 8, 265-78	1.5 21
81	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, 1-9	3.5 21
80	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	2 19
79	Spatially resolved thermometry during laser ablation in tissues: Distributed and quasi-distributed fiber optic-based sensing. <i>Optical Fiber Technology</i> , 2020 , 58, 102295	2.4 17

78	Intra-Tissue Pressure Measurement in Ex Vivo Liver Undergoing Laser Ablation with Fiber-Optic Fabry-Perot Probe. <i>Sensors</i> , 2016 , 16,	3.8	17
77	Laser-induced optothermal response of gold nanoparticles: From a physical viewpoint to cancer treatment application. <i>Journal of Biophotonics</i> , 2021 , 14, e202000161	3.1	17
76	Mechanical ventilation with heated humidifiers: measurements of condensed water mass within the breathing circuit according to ventilatory settings. <i>Physiological Measurement</i> , 2013 , 34, 813-21	2.9	16
75	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	4	16
74	Wearable textile based on silver plated knitted sensor for respiratory rate monitoring. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2018 , 2018, 2865-2868	0.9	16
73	A New Pressure Guided Management Tool for Epidural Space Detection: Feasibility Assessment on a Simulator. <i>Artificial Organs</i> , 2017 , 41, E320-E325	2.6	14
72	A novel control strategy to improve the performances of heated wire humidifiers in artificial neonatal ventilation. <i>Physiological Measurement</i> , 2012 , 33, 1199-211	2.9	14
71	Closed-Loop Temperature Control Based on Fiber Bragg Grating Sensors for Laser Ablation of Hepatic Tissue. <i>Sensors</i> , 2020 , 20,	3.8	14
70	Discrimination between arterial and venous bowel ischemia by computer-assisted analysis of the fluorescent signal. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2019 , 33, 1988-1997	5.2	13
69	3D Shape Sensing With Multicore Optical Fibers: Transformation Matrices Versus Frenet-Serret Equations for Real-Time Application. <i>IEEE Sensors Journal</i> , 2021 , 21, 4599-4609	4	13
68	Quasi-distributed fiber optic sensor-based control system for interstitial laser ablation of tissue: theoretical and experimental investigations. <i>Biomedical Optics Express</i> , 2021 , 12, 2841-2858	3.5	12
67	Bronchial blockers under pressure: in vitro model and ex vivo model. <i>British Journal of Anaesthesia</i> , 2016 , 117 Suppl 1, i92-i96	5.4	10
66	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	5	10
65	Respiratory and cardiac rates monitoring during MR examination by a sensorized smart textile 2017 ,		9
64	Estimation of anisotropy coefficient of swine pancreas, liver and muscle at 1064nm based on goniometric technique. <i>Journal of Biophotonics</i> , 2015 , 8, 422-8	3.1	9
63	A wearable textile for respiratory monitoring: Feasibility assessment and analysis of sensors position on system response. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2017 , 2017, 4423-4426	0.9	8
62	2011 ,		7
61	Multidimensional thermal mapping during radiofrequency ablation treatments with minimally invasive fiber optic sensors. <i>Biomedical Optics Express</i> , 2018 , 9, 5891-5902	3.5	7

60	Measurement of Ex Vivo Liver, Brain and Pancreas Thermal Properties as Function of Temperature. <i>Sensors</i> , 2021 , 21,	3.8	7
59	2016 ,		7
58	Fiber Bragg Grating Sensors-based Thermometry of Gold Nanorod-enhanced Photothermal Therapy in Tumor Model. <i>IEEE Sensors Journal</i> , 2021 , 1-1	4	7
57	Polymer-coated fiber optic probe for the monitoring of breathing pattern and respiratory rate. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2018 , 2018, 1616-1619	0.9	7
56	Thermal Treatments of Tumors 2018 , 199-228		6
55	Laser ablation of the biliary tree: in vivo proof of concept as potential treatment of unresectable cholangiocarcinoma. <i>International Journal of Hyperthermia</i> , 2018 , 34, 1372-1380	3.7	6
54	Ex vivo animal-model assessment of a non-invasive system for loss of resistance detection during epidural blockade. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2017 , 2017, 759-762	0.9	6
53	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 ^{7.1}		6
52	Hyperspectral imaging for thermal effect monitoring in in vivo liver during laser ablation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2019 , 2019, 1851-1854	0.9	6
51	Hyperspectral Imagery for Assessing Laser-Induced Thermal State Change in Liver. <i>Sensors</i> , 2021 , 21,	3.8	6
50	. <i>IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology</i> , 2018 , 2, 172-178	2.8	6
49	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> , 2016 , 80, 21-28	4.6	5
48	Endoluminal Nd:YAG laser application in ex vivo biliary porcine tissue. <i>Lasers in Medical Science</i> , 2017 , 32, 1411-1415	3.1	5
47	Highly dense FBG arrays for millimeter-scale thermal monitoring during nanocomposite-enhanced laser ablation 2020 ,		5
46	Distributed 2D temperature sensing during nanoparticles assisted laser ablation by means of high-scattering fiber sensors. <i>Scientific Reports</i> , 2020 , 10, 12593	4.9	5
45	Estimation of optical properties of neuroendocrine pancreas tumor with double-integrating-sphere system and inverse Monte Carlo model. <i>Lasers in Medical Science</i> , 2016 , 31, 1041-50	3.1	5
44	Influence of motion artifacts on a smart garment for monitoring respiratory rate 2019 ,		4
43	2017 ,		4

42	2017,		4
41	Novel carbon fiber probe for temperature monitoring during thermal therapies. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2017, 2017, 873-876</i>	0.9	4
40	Performances of heated wire humidifiers during adult mechanical ventilation: Estimation of the amount of condensation 2016,		3
39	2018,		3
38	Metrological properties evaluation of a chest wall simulator during simulated quiet breathing 2015,		3
37	Sa1513 US-Guided Nd:YAG Laser Ablation in Porcine Pancreatic Tissue: an Ex Vivo Study and Numerical Simulation. <i>Gastrointestinal Endoscopy, 2012, 75, AB187</i>	5.2	3
36	Thermophysical and mechanical properties of biological tissues as a function of temperature: a systematic literature review.. <i>International Journal of Hyperthermia, 2022, 39, 297-340</i>	3.7	3
35	Fiber Bragg Grating Sensors for Thermometry during Gold Nanorods-mediated Photothermal Therapy in Tumor Model 2020,		3
34	Effect of diagnostic cone-beam computed tomography protocols on image quality, patient dose, and lesion detection. <i>Physica Medica, 2016, 32, 1575-1583</i>	2.7	3
33	2016,		3
32	Modular laser-based endoluminal ablation of the gastrointestinal tract: in vivo dose-effect evaluation and predictive numerical model. <i>Surgical Endoscopy and Other Interventional Techniques, 2019, 33, 3200-3208</i>	5.2	3
31	Thermomechanical Modeling of Laser Ablation Therapy of Tumors: Sensitivity Analysis and Optimization of Influential Variables. <i>IEEE Transactions on Biomedical Engineering, 2021, PP,</i>	5	3
30	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, 2021, 38, 1099-1110</i>	3.7	3
29	Towards temperature-controlled laser ablation based on fiber Bragg grating array temperature measurements 2020,		2
28	Assessment of a linearly chirped fiber Bragg grating sensor under linear and non-linear temperature gradient 2017,		2
27	Fabrication and preliminary assessment of a fiber optic-based relative humidity sensor for application in mechanical ventilation 2017,		2
26	Effects of Nd:YAG laser for the controlled and localized treatment of early gastrointestinal tumors: Preliminary in vivo study. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2017, 2017, 4533-4536</i>	0.9	2
25	Development and characterization of a Fibre Bragg Grating temperature probe for medical Laser Ablation therapy 2014,		2

24	Prediction of In Vivo Laser-Induced Thermal Damage with Hyperspectral Imaging Using Deep Learning. <i>Sensors</i> , 2021 , 21,	3.8	2
23	PID Controlling Approach Based on FBG Array Measurements for Laser Ablation of Pancreatic Tissues. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 70, 1-9	5.2	2
22	Non-invasive cardiac output evaluation in postoperative cardiac surgery patients, using a new prolonged expiration-based technique. <i>Journal of Clinical Monitoring and Computing</i> , 2014 , 28, 625-32	2	1
21	Real-time temperature monitoring and estimation of thermal damage in pancreas undergoing magnetic resonance-guided laser ablation: First in vivo study 2017 ,		1
20	2015 ,		1
19	Hyperspectral image-based analysis of thermal damage in living liver undergoing laser ablation 2020 ,		1
18	Fiber Optic Sensors for Distributed and Quasi-distributed Temperature Measurement 2020 ,		1
17	New Horizons for Laser Ablation: Nanomedicine, Thermometry, and Hyperthermal Treatment Planning Tools 2020 , 145-151		1
16	Applications of Elastography in Ablation Therapies: An Animal Model Study. <i>Journal of Laparoendoscopic and Advanced Surgical Techniques - Part A</i> , 2020 , 30, 980-986	2.1	1
15	Fiber Bragg Grating Sensors for Performance Evaluation of Fast Magnetic Resonance Thermometry on Synthetic Phantom. <i>Sensors</i> , 2020 , 20,	3.8	1
14	Two-dimensional temperature feedback control strategy for thermal ablation of biological tissue 2021 ,		1
13	User-driven design and monitoring systems of limb prostheses: overview on the technology and on the gender-related aspects 2021 ,		1
12	2016 ,		1
11	Ultrasound estimation of pleural effusion in geriatric patients 2016 ,		1
10	2018 ,		1
9	Distributed Sensing Network Enabled by High-Scattering MgO-Doped Optical Fibers for 3D Temperature Monitoring of Thermal Ablation in Liver Phantom. <i>Sensors</i> , 2021 , 21,	3.8	1
8	Laser ablation in biliary tree: analysis of the intraductal and superficial thermal effects during the treatment. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2019 , 2019, 162-165	0.9	0
7	Effects of Warmed and Humidified CO Surgical Site Insufflation in a Novel Experimental Model of Magnetic Compression Colonic Anastomosis. <i>Surgical Innovation</i> , 2021 , 28, 7-17	2	0

6	Design and fabrication of a non-invasive, wireless system for monitoring needle insertion during epidural puncture. <i>Journal of Physics: Conference Series</i> , 2018 , 1026, 012010	0.3	o
5	Ho:YAG laser and temperature: is it safe to use high-power settings?. <i>World Journal of Urology</i> , 2022 , 1	4	o
4	Three-Phase-Lag Bio-Heat Transfer Model of Cardiac Ablation. <i>Fluids</i> , 2022 , 7, 180	1.6	o
3	A Multidisciplinary Approach for the Designing and Realization of Customized High Performance Prostheses by Continuous Fiber Additive Manufacturing. <i>Lecture Notes in Computer Science</i> , 2022 , 379-386	0.9	o
2	Characterization of the Response of Fiber Bragg Grating Sensors Embedded in 3D Printed Continuous Fiberglass Reinforced Composite for Biomedical Applications. <i>Lecture Notes in Computer Science</i> , 2022 , 494-501	0.9	o
1	Tapered fiber optic applicator for laser ablation: Theoretical and experimental assessment of thermal effects on ex vivo model. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2017 , 2017, 1529-1532	0.9	o