

# Daniela Lo Presti

## List of Publications by Year in descending order

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58  
papers

1,966  
citations

304743

22  
h-index

345221

36  
g-index

58  
all docs

58  
docs citations

58  
times ranked

1374  
citing authors

#	ARTICLE	IF	CITATIONS
1	Respiratory and heart rate monitoring using an FBG 3D-printed wearable system. Biomedical Optics Express, 2022, 13, 2299.	2.9	32
2	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
3	Silicone-Textile Composite Resistive Strain Sensors for Human Motion-Related Parameters. Sensors, 2022, 22, 3954.	3.8	9
4	A Soft and Skin-Interfaced Smart Patch Based on Fiber Optics for Cardiorespiratory Monitoring. Biosensors, 2022, 12, 363.	4.7	19
5	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
6	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
7	Fiber Bragg Grating Sensors for Cardiorespiratory Monitoring: A Review. IEEE Sensors Journal, 2021, 21, 14069-14080.	4.7	60
8	Personalized, Predictive, Participatory, Precision, and Preventive (P5) Medicine in Rotator Cuff Tears. Journal of Personalized Medicine, 2021, 11, 255.	2.5	11
9	FBG-based System for Loss of Resistance Detection During Epidural Injections. , 2021, , .		4
10	Respiratory rate monitoring of video terminal operators based on fiber optic technology. , 2021, , .		1
11	Smart Mattress Based on Fiber Bragg Grating Sensors for Respiratory Monitoring: A Feasibility Test. , 2021, , .		11
12	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
13	Feasibility assessment of an FBG-based soft sensor embedded into a single-use surgical mask for respiratory monitoring. , 2021, , .		3
14	Cardiorespiratory monitoring using a mechanical and an optical system. , 2021, , .		5
15	A Wearable System Based on Flexible Sensors for Unobtrusive Respiratory Monitoring in Occupational Settings. IEEE Sensors Journal, 2021, 21, 14369-14378.	4.7	32
16	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
17	Plant Wearable Sensors Based on FBG Technology for Growth and Microclimate Monitoring. Sensors, 2021, 21, 6327.	3.8	23
18	Delayed Rehabilitation Protocol after Rotator Cuff Repair. Osteology, 2021, 1, 29-38.	0.7	11

#	ARTICLE	IF	CITATIONS
19	Wearable Device Based on a Flexible Conductive Textile for Knee Joint Movements Monitoring. IEEE Sensors Journal, 2021, 21, 26655-26664.	4.7	13
20	A multi-point heart rate monitoring using a soft wearable system based on fiber optic technology. Scientific Reports, 2021, 11, 21162.	3.3	26
21	Wearable systems for respiratory monitoring: solutions based on strain measurements. , 2021, , .		1
22	A Multisensory Platform for Maximizing Collective Intelligence in the Operating Room. , 2021, , .		2
23	Respiratory Monitoring During Physical Activities With a Multi-Sensor Smart Garment and Related Algorithms. IEEE Sensors Journal, 2020, 20, 2173-2180.	4.7	46
24	A Wearable Device Based on a Fiber Bragg Grating Sensor for Low Back Movements Monitoring. Sensors, 2020, 20, 3825.	3.8	20
25	Respiratory monitoring during cycling exercise: performance assessment of a smart t-shirt embedding fiber optic sensors. , 2020, , .		3
26	Wearable stretchable sensor based on conductive textile fabric for shoulder motion monitoring. , 2020, , .		7
27	A wearable system for knee flexion/extension monitoring: design and assessment. , 2020, , .		6
28	A Test Bench to Assess Systems for Respiratory Monitoring of Workers. , 2020, , .		1
29	Conductive textile element embedded in a wearable device for joint motion monitoring. , 2020, , .		5
30	Fiber Bragg Gratings for Medical Applications and Future Challenges: A Review. IEEE Access, 2020, 8, 156863-156888.	4.2	187
31	An fMRI Compatible Smart Device for Measuring Palmar Grasping Actions in Newborns. Sensors, 2020, 20, 6040.	3.8	11
32	A Multi-Parametric Wearable System to Monitor Neck Movements and Respiratory Frequency of Computer Workers. Sensors, 2020, 20, 536.	3.8	60
33	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
34	Single-plane neck movements and respiratory frequency monitoring: a smart system for computer workers. , 2019, , .		5
35	Cardio-Respiratory Monitoring in Archery Using a Smart Textile Based on Flexible Fiber Bragg Grating Sensors. Sensors, 2019, 19, 3581.	3.8	82
36	Non-Contact Monitoring of Breathing Pattern and Respiratory Rate via RGB Signal Measurement. Sensors, 2019, 19, 2758.	3.8	65

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37	Cardiac monitoring with a smart textile based on polymer-encapsulated FBG: influence of sensor positioning. , 2019, , .		10
38	A wearable system based on fiber Bragg grating for monitoring respiratory and heart activity of archers. , 2019, , .		6
39	Influence of motion artifacts on a smart garment for monitoring respiratory rate. , 2019, , .		6
40	Wearable System Based on Flexible FBG for Respiratory and Cardiac Monitoring. IEEE Sensors Journal, 2019, 19, 7391-7398.	4.7	147
41	Smart Textile Based on Piezoresistive Sensing Elements for Respiratory Monitoring. IEEE Sensors Journal, 2019, 19, 7718-7725.	4.7	66
42	Contact-Based Methods for Measuring Respiratory Rate. Sensors, 2019, 19, 908.	3.8	259
43	Wearable systems for shoulder kinematics assessment: a systematic review. BMC Musculoskeletal Disorders, 2019, 20, 546.	1.9	62
44	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
45	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
46	Smart textile for respiratory monitoring and thoracoâ€œabdominal motion pattern evaluation. Journal of Biophotonics, 2018, 11, e201700263.	2.3	96
47	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
48	Optical Fiber Gratings for Humidity Measurements: A Review. IEEE Sensors Journal, 2018, 18, 9065-9074.	4.7	47
49	Experimental analysis of the influencing factors on the response of a tool for epidural space detection. , 2018, , .		2
50	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
51	Multi-sensitive FBG-based needle for both relative humidity and breathing rate monitoring. , 2018, , .		5
52	Smart textile based on FBG sensors for breath-by-breath respiratory monitoring: tests on women. , 2018, , .		12
53	Influence of the length of lead lines on the response of a variable orifice meter: analysis of sensitivity and settling time. , 2018, , .		2
54	A wearable textile for respiratory monitoring: Feasibility assessment and analysis of sensors position on system response. , 2017, 2017, 4423-4426.		13

#	ARTICLE	IF	CITATIONS
55	Smart Textile Based on 12 Fiber Bragg Gratings Array for Vital Signs Monitoring. IEEE Sensors Journal, 2017, 17, 6037-6043.	4.7	85
56	Respiratory and cardiac rates monitoring during MR examination by a sensorized smart textile. , 2017, , .		14
57	Fiber Bragg Grating Measuring System for Simultaneous Monitoring of Temperature and Humidity in Mechanical Ventilation. Sensors, 2017, 17, 749.	3.8	54
58	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