

# Luc Marechal

## List of Publications by Year in descending order

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Version: 2024-02-01

20  
papers

281  
citations

1478505

6  
h-index

1281871

11  
g-index

20  
all docs

20  
docs citations

20  
times ranked

219  
citing authors

#	ARTICLE	IF	CITATIONS
1	Toward a Common Framework and Database of Materials for Soft Robotics. <i>Soft Robotics</i> , 2021, 8, 284-297.	8.0	147
2	A Non-invasive Real-time Localization System for Enhanced Efficacy in Nasogastric Intubation. <i>Annals of Biomedical Engineering</i> , 2015, 43, 2941-2952.	2.5	18
3	Passive magnetic-based localization for precise untethered medical instrument tracking. <i>Computer Methods and Programs in Biomedicine</i> , 2018, 156, 151-161.	4.7	16
4	Design and development of a mechatronic infant torso simulator for respiratory physiotherapy learning. <i>Mechatronics</i> , 2012, 22, 55-64.	3.3	14
5	Design Optimization of a Magnetic Field-Based Localization Device for Enhanced Ventriculostomy. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2016, 10, .	0.7	14
6	Optimal spatial design of non-invasive magnetic field-based localization systems. , 2014, , .		12
7	Magnet array for a portable magnetic resonance imaging system. , 2015, , .		9
8	Design and analysis of a compliant non-invasive real-time localization system for nasogastric intubation. , 2014, , .		8
9	A compact magnetic directional proximity sensor for spherical robots. , 2016, , .		8
10	First characterization of the expiratory flow increase technique: method development and results analysis. <i>Physiological Measurement</i> , 2009, 30, 1445-1464.	2.1	6
11	Using heterogeneous sensory measurements in a compliant magnetic localization system for medical intervention. , 2015, , .		5
12	Soft Pneumatic Actuator for Rendering Anal Sphincter Tone. <i>IEEE Transactions on Haptics</i> , 2020, 13, 183-190.	2.7	5
13	New joint analysis of electromyography spectrum and amplitude-based methods towards real-time muscular fatigue evaluation during a simulated surgical procedure: A pilot analysis on the statistical significance. <i>Medical Engineering and Physics</i> , 2020, 79, 1-9.	1.7	4
14	Analyse de pratiques professionnelles en kinÃ©sithÃ©rapie respiratoire pÃ©diatrique en vue de la conception dâ€™un simulateur en santÃ©. <i>Kinesithérapie</i> , 2009, 9, 48-55.	0.1	3
15	Modelling of anal sphincter tone based on pneumatic and cable-driven mechanisms. , 2017, , .		3
16	Passive Magnetic Localization in Medical Intervention. <i>Series in Bioengineering</i> , 2018, , 163-187.	0.6	3
17	Design optimization of the sensor spatial arrangement in a direct magnetic field-based localization system for medical applications. , 2015, 2015, 897-900.		2
18	Experimental Study of an Omni-Directional Wind Fluttering Energy Harvester. , 2014, , .		2

#	ARTICLE	IF	CITATIONS
19	Real-time sensor fault detection and compensation in a passive magnetic field-based localization system. , 2016, , .		1
20	Relax and Tightenâ€™A Haptics-based Approach to Simulate Sphincter Tone Assessment. Lecture Notes in Electrical Engineering, 2018, , 327-333.	0.4	1