

Emile Martincic

List of Publications by Year in descending order

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57
papers

637
citations

687363

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610901

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57
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57
docs citations

57
times ranked

743
citing authors

#	ARTICLE	IF	CITATIONS
1	Control of direct band gap emission of bulk germanium by mechanical tensile strain. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	129
2	Vibrational energy scavenging with Si technology electromagnetic inertial microgenerators. <i>Microsystem Technologies</i> , 2007, 13, 1655-1661.	2.0	50
3	Optimization and Microfabrication of High Performance Silicon-Based MEMS Microspeaker. <i>IEEE Sensors Journal</i> , 2013, 13, 273-284.	4.7	43
4	Design and implementation of mechanical resonators for optimized inertial electromagnetic microgenerators. <i>Microsystem Technologies</i> , 2008, 14, 653-658.	2.0	42
5	Influence of the Porosity of Polymer Foams on the Performances of Capacitive Flexible Pressure Sensors. <i>Sensors</i> , 2019, 19, 1968.	3.8	35
6	Two- and three-dimensional microcoil fabrication process for three-axis magnetic sensors on flexible substrates. <i>Sensors and Actuators A: Physical</i> , 2006, 132, 2-7.	4.1	30
7	Copper micromoulding process for NMR microinductors realization. <i>Sensors and Actuators A: Physical</i> , 2002, 99, 49-54.	4.1	22
8	Characterization of flexible RF microcoils dedicated to local MRI. <i>Microsystem Technologies</i> , 2007, 13, 1575-1580.	2.0	21
9	Pirani pressure sensor for smart wafer-level packaging. <i>Sensors and Actuators A: Physical</i> , 2009, 156, 201-207.	4.1	21
10	Mechanical Characterization of PDMS Films for the Optimization of Polymer Based Flexible Capacitive Pressure Microsensors. <i>Journal of Sensors</i> , 2017, 2017, 1-9.	1.1	18
11	Fabrication and Packaging of Flexible Polymeric Microantennae for in Vivo Magnetic Resonance Imaging. <i>Polymers</i> , 2012, 4, 656-673.	4.5	17
12	Linear and non-linear behavior of mechanical resonators for optimized inertial electromagnetic microgenerators. <i>Microsystem Technologies</i> , 2009, 15, 1217-1223.	2.0	16
13	Microstructured silicon membrane with soft suspension beams for a high performance MEMS microspeaker. <i>Microsystem Technologies</i> , 2012, 18, 1791-1799.	2.0	15
14	Fabrication of planar and three-dimensional microcoils on flexible substrates. <i>Microsystem Technologies</i> , 2006, 12, 973-978.	2.0	14
15	Analytical and Finite-Element Modeling of Localized-Mass Sensitivity of Thin-Film Bulk Acoustic-Wave Resonators (FBAR). <i>IEEE Sensors Journal</i> , 2009, 9, 892-901.	4.7	12
16	Electromagnetic MEMS microspeaker for portable electronic devices. <i>Microsystem Technologies</i> , 2013, 19, 879-886.	2.0	11
17	Electromagnetic micro-device realized by electrochemical way. <i>Sensors and Actuators A: Physical</i> , 2001, 91, 80-84.	4.1	10
18	Flexible 3D Force Tactile Sensor for Artificial Skin for Anthropomorphic Robotic Hand. <i>Procedia Engineering</i> , 2011, 25, 128-131.	1.2	10

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19	Capacitive flexible pressure sensor: microfabrication process and experimental characterization. <i>Microsystem Technologies</i> , 2016, 22, 465-471.	2.0	10
20	Integration of microcoils for on-chip immunosensors based on magnetic nanoparticles capture. <i>Sensing and Bio-Sensing Research</i> , 2017, 13, 115-121.	4.2	10
21	Reusable Embedded Microcoils for Magnetic Nano-Beads Trapping in Microfluidics: Magnetic Simulation and Experiments. <i>Micromachines</i> , 2020, 11, 257.	2.9	10
22	Planar Microcoil Optimization of MEMS Electrodynamic Microspeakers. <i>IEEE Transactions on Magnetics</i> , 2013, 49, 4843-4850.	2.1	8
23	Fabrication of metallic patterns on polydimethylsiloxane using transfer technology: application to MRI microcoils. <i>Micro and Nano Letters</i> , 2012, 7, 519.	1.3	7
24	Reversible bonding by dimethylmethylphenylmethoxy siloxane based stamping technique for reusable poly(dimethylsiloxane) microfluidic chip. <i>Micro and Nano Letters</i> , 2015, 10, 229-232.	1.3	7
25	Silicon on insulator temperature and pressure sensor for MEMS smart packaging. <i>Procedia Chemistry</i> , 2009, 1, 782-785.	0.7	6
26	Development of reversible bonding for microfluidic applications. <i>Microfluidics and Nanofluidics</i> , 2015, 19, 751-756.	2.2	6
27	Copper planar microcoils applied to magnetic actuation. <i>Microsystem Technologies</i> , 2008, 14, 951-956.	2.0	5
28	Experimental study of PDMS mechanical properties for the optimization of polymer based flexible pressure micro-sensors. <i>Journal of Physics: Conference Series</i> , 2016, 757, 012009.	0.4	5
29	Polymer-based flexible capacitive pressure sensor for non-invasive medical monitoring applications. , 2014, , .		4
30	Development of a 2D array of micromachined electromagnetic digital actuators for micro-conveyance applications. <i>Microsystem Technologies</i> , 2018, 24, 411-417.	2.0	4
31	Magnetic micro-transformers realized with a flip-chip process. <i>Journal of Micromechanics and Microengineering</i> , 2004, 14, S55-S58.	2.6	3
32	Study for the Design of Eddy Current Microsensor Arrays for Non Destructive Testing Applications. , 2007, , .		3
33	Electrodynamic MEMS: Application to Mobile Phone Loudspeakers. <i>IEEE Transactions on Magnetics</i> , 2012, 48, 3684-3687.	2.1	3
34	Fabrication and characterization of flexible pressure sensor arrays made by film transfer technology. , 2013, , .		3
35	Flexible 3-axes capacitive pressure sensor array for medical applications. , 2014, , .		3
36	Innovative Methods for the Integration of Immunosensors Based on Magnetic Nanoparticles in Lab-on-Chip. <i>Procedia Technology</i> , 2017, 27, 210-211.	1.1	3

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37	Cryosonde IRM : antenne IRM supraconductrice pour la microscopie des régions superficielles du corps humain et des petits modèles animaux. IRBM News, 2004, 25, 254-259.	0.1	2
38	Linear and non linear behavior of mechanical resonators for optimized inertial electromagnetic microgenerators. , 2008, , .		2
39	A high density microfluidic device for cell pairing and electrofusion. Procedia Engineering, 2010, 5, 49-52.	1.2	2
40	Micro Pirani vacuum gauges manufactured by a film transfer process. Procedia Engineering, 2010, 5, 1136-1139.	1.2	2
41	Design and fabrication of a 3D pressure sensor. , 2010, , .		2
42	Novel magnets configuration toward a high performance electrodynamic micro-electro-mechanical-systems microspeaker. Journal of Applied Physics, 2014, 115, 17E525.	2.5	2
43	Monitoring of yogurt formation using a contactless radiofrequency dielectric sensor. , 2016, , .		2
44	Design and implementation of mechanical resonators for optimized inertial electromagnetic microgenerators. , 2007, , .		1
45	High resolution micro-Pirani pressure sensor gauge with transient response processing. , 2010, , .		1
46	High acoustic performance MEMS microspeaker. , 2014, , .		1
47	Non-invasive capacitive pressure sensor: Microfabrication process and first electro-mechanical characterization. , 2014, , .		1
48	RF Characterization of Intracellular Microalgae Lipids. Procedia Engineering, 2016, 168, 1287-1290.	1.2	1
49	Development of an elementary micromachined electromagnetic digital actuator for microdisplacements. , 2016, , .		1
50	Design, fabrication and characterization of a buckled beam actuator for micro-displacement applications. , 2019, , .		1
51	Analytical and finite-element modeling of a localized-mass sensor. , 2008, , .		0
52	Mechanical tensile strain engineering of Ge for gain achievement. , 2010, , .		0
53	Design of a long range bidirectional MEMS scanner for a tunable 3D integrated Mirau interferometer. , 2014, , .		0
54	Acoustic vs electric power response of a high-performance MEMS microspeaker. , 2014, , .		0

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55	Integration of commercial microspeakers in an acoustic absorbing liner. , 2015, , .		0
56	Réalisation de micro-antennes souples implantables pour l'imagerie par résonance magnétique du petit animal. Instrumentation Mesure Metrologie, 2012, 12, 9-35.	0.3	0
57	Case Study of a MEMS Snap-Through Actuator: Modeling and Fabrication Considerations. Micromachines, 2022, 13, 654.	2.9	0