

Marco BaÃ1

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5122514/publications.pdf>

Version: 2024-02-01

47
papers

484
citations

686830

13
h-index

752256

20
g-index

51
all docs

51
docs citations

51
times ranked

371
citing authors

#	ARTICLE	IF	CITATIONS
1	A single-magnet nonlinear piezoelectric converter for enhanced energy harvesting from random vibrations. <i>Sensors and Actuators A: Physical</i> , 2011, 172, 287-292.	2.0	95
2	Numerical and experimental investigation on contactless resonant sensors. <i>Sensors and Actuators A: Physical</i> , 2010, 162, 329-335.	2.0	32
3	Interrogation Techniques and Interface Circuits for Coil-Coupled Passive Sensors. <i>Micromachines</i> , 2018, 9, 449.	1.4	26
4	Electronic technique and circuit topology for accurate distance-independent contactless readout of passive LC sensors. <i>AEU - International Journal of Electronics and Communications</i> , 2018, 92, 82-85.	1.7	24
5	Analysis and Validation of Contactless Time-Gated Interrogation Technique for Quartz Resonator Sensors. <i>Sensors</i> , 2017, 17, 1264.	2.1	23
6	Piezoelectric resonant sensors with contactless interrogation for mass-sensitive and acoustic-load detection. <i>Sensors and Actuators A: Physical</i> , 2013, 202, 100-105.	2.0	21
7	A Nonlinear Energy Harvester by Direct Printing Technology. <i>Procedia Engineering</i> , 2012, 47, 933-936.	1.2	19
8	Impact-Enhanced Multi-Beam Piezoelectric Converter for Energy Harvesting in Autonomous Sensors. <i>Procedia Engineering</i> , 2012, 47, 418-421.	1.2	18
9	Nonlinear Multi-Frequency Converter Array for Vibration Energy Harvesting in Autonomous Sensors. <i>Procedia Engineering</i> , 2012, 47, 410-413.	1.2	17
10	Contactless electromagnetic excitation of resonant sensors made of conductive miniaturized structures. <i>Sensors and Actuators A: Physical</i> , 2008, 148, 44-50.	2.0	16
11	Sensors and energy harvesters based on piezoelectric thick films. <i>Procedia Engineering</i> , 2011, 25, 737-744.	1.2	16
12	Snap-Through Buckling Mechanism for Frequency-up Conversion in Piezoelectric Energy Harvesting. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3614.	1.3	16
13	Wearable Ball-Impact Piezoelectric Multi-Converters for Low-Frequency Energy Harvesting from Human Motion. <i>Sensors</i> , 2022, 22, 772.	2.1	16
14	Contactless electromagnetic switched interrogation of micromechanical cantilever resonators. <i>Sensors and Actuators A: Physical</i> , 2011, 172, 195-203.	2.0	13
15	Multi-frequency array of nonlinear piezoelectric converters for vibration energy harvesting. <i>Smart Materials and Structures</i> , 2020, 29, 085047.	1.8	12
16	Contactless Excitation and Readout of Passive Sensing Elements Made by Miniaturized Mechanical Resonators. , 2007, , .		10
17	Passive LC sensor label with distance-independent contactless interrogation. , 2017, , .		10
18	Low-Frequency RFID Signal and Power Transfer Circuitry for Capacitive and Resistive Mixed Sensor Array. <i>Electronics (Switzerland)</i> , 2019, 8, 675.	1.8	9

#	ARTICLE	IF	CITATIONS
19	Magnetless electromagnetic contactless interrogation technique for unwired conductive resonators. <i>Electronics Letters</i> , 2019, 55, 642-644.	0.5	9
20	Cost-effective system for the characterization of microstructures vibrating in out-of-plane modes. <i>Sensors and Actuators A: Physical</i> , 2008, 142, 270-275.	2.0	7
21	Compact DDS-based system for contactless interrogation of resonant sensors based on time-gated technique. , 2014, , .		7
22	Contactless electromagnetic interrogation of a MEMS-based microresonator used as passive sensing element. , 2009, , .		5
23	Portable Energy-logger Circuit for the Experimental Evaluation of Energy Harvesting Solutions from Motion for Wearable Autonomous Sensors. <i>Procedia Engineering</i> , 2014, 87, 1230-1233.	1.2	5
24	A Time-gated Contactless Interrogation System for Frequency and Quality Factor Tracking in QCR to Investigate on Liquid Solution Microdroplets. <i>Procedia Engineering</i> , 2016, 168, 704-707.	1.2	5
25	A Low-Noise Charge Amplifier for the ELENA Trajectory, Orbit, and Intensity Measurement System. <i>IEEE Transactions on Nuclear Science</i> , 2017, 64, 2465-2473.	1.2	5
26	Flexible Passive Temperature Sensor Label with Contactless Interrogation. , 2019, , .		5
27	High-Pressure Synthesis and Gas-Sensing Tests of 1-D Polymer/Aluminophosphate Nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 27237-27244.	4.0	5
28	Technique and Circuit for Contactless Readout of Piezoelectric MEMS Resonator Sensors. <i>Sensors</i> , 2020, 20, 3483.	2.1	4
29	Contactless system for dynamic characterisation of microresonators. <i>Electronics Letters</i> , 2006, 42, 525.	0.5	3
30	Mems Device with Piezoelectric Actuators for Driving Mechanical Vortexes in Aqueous Solution Drop. , 2019, , .		3
31	Contactless electromagnetic switched interrogation of micromechanical cantilever resonators. <i>Procedia Engineering</i> , 2010, 5, 1031-1034.	1.2	2
32	Electromagnetic contactless interrogation technique for quartz resonator sensors. , 2011, , .		2
33	Resonant Piezo-layer (RPL) Sensors with Contactless Interrogation for Food Monitoring from Outside Sealed Packages. <i>Procedia Engineering</i> , 2014, 87, 684-687.	1.2	2
34	Contactless Interrogation System for Capacitive Sensors with Time-Gated Technique. <i>Proceedings (mdpi)</i> , 2017, 1, 395.	0.2	2
35	Arrangement of Live Human Cells through Acoustic Waves Generated by Piezoelectric Actuators for Tissue Engineering Applications. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3477.	1.3	2
36	Contactless Time-Gated Technique for Electromagnetic Interrogation of Micromechanical Resonator Sensors. <i>Sensor Letters</i> , 2013, 11, 294-298.	0.4	2

#	ARTICLE	IF	CITATIONS
37	Contactless Electromagnetic Excitation of Conductive Microstructures for Resonant Sensors. , 2007, , .		1
38	Numerical and Experimental Investigation on Contactless Resonant Sensors. Procedia Chemistry, 2009, 1, 1391-1394.	0.7	1
39	Time-gated technique for contactless electromagnetic interrogation of MEMS resonators. , 2010, , .		1
40	Low-Noise Charge Preamplifier for Electrostatic Beam Position Monitoring Sensor at the ELENA Experiment. Procedia Engineering, 2015, 120, 1229-1232.	1.2	1
41	Piezoelectric Actuators for In-Liquid Particle Manipulation in Microfluidic Applications. Proceedings (mdpi), 2017, 1, .	0.2	1
42	Contactless Readout of Passive LC Sensors with Compensation Circuit for Distance-Independent Measurements. Proceedings (mdpi), 2018, 2, 842.	0.2	1
43	RFID powered system for contactless measurement of a resistive sensor array. , 2018, , .		1
44	Quartz Crystal Resonator Sensor With Printed-on-Crystal Coil for Dual-Harmonic Electromagnetic Contactless Interrogation. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 883-886.	1.7	1
45	Piezoelectric Resonant Sensors with Contactless Interrogation for Mass-Sensitive and Acoustic-Load Detection. Procedia Engineering, 2012, 47, 442-445.	1.2	0
46	Printed Coil on Quartz Crystal Resonator Sensor for Electromagnetic Contactless Interrogation. , 2019, , .		0
47	Contactless Electromagnetic Interrogation of Quartz Crystal Resonator Sensors. Lecture Notes in Electrical Engineering, 2014, , 439-444.	0.3	0