Jijun Xiong

List of Publications by Year in descending order

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85 papers	1,519 citations	331670 21 h-index	345221 36 g-index
85 all docs	85 docs citations	85 times ranked	1578 citing authors

#	Article	IF	Citations
1	A 4-Channel High-Precision Real-Time Pressure Test System for Irregularly Variable High Temperature Environments. IEEE Sensors Journal, 2022, 22, 8104-8112.	4.7	2
2	å^©ç"¨å¾®æœºç"µç³»ç»ŸæŠ€æœ¯å^¶ä½œå¼¯æ›²ç»"æž„è¡¨é¢ æ—ç º¿æ—æºæŸ"æ€§åŠé€Ÿåº¦è®¡. Frontiers of Information Technolog	2.6	2
3	Accurate Real-Time Temperature Measurement Method in Ultra-High Temperature Rotational Environments for Aero Engines/Turbines. IEEE Sensors Journal, 2022, 22, 6482-6490.	4.7	7
4	A MEMS Fiber-Optic Fabry-Perot Vibration Sensor for High-Temperature Applications. IEEE Access, 2022, 10, 42908-42915.	4.2	6
5	A Novel Capacitive Microwave Power Sensor Based on Double MEMS Cantilever Beams. IEEE Sensors Journal, 2022, 22, 11803-11809.	4.7	5
6	Time Synchronization Algorithm for the Skiing Monitoring System. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-9.	4.7	2
7	Manufacturing a langasite crystal microstructure for a high-temperature environment. Vacuum, 2022, , 111252.	3.5	1
8	MXene/Polymer Nanocomposites: Preparation, Properties, and Applications. Polymer Reviews, 2021, 61, 80-115.	10.9	123
9	Temperature and Pressure Composite Measurement System Based on Wireless Passive <i>LC</i> Sensor. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	4.7	16
10	MgO Single Crystals MEMS-Based Fiber-Optic Fabryâ€"Perot Pressure Sensor for Harsh Monitoring. IEEE Sensors Journal, 2021, 21, 4272-4279.	4.7	13
11	Synchronous Online Monitoring of Rotational Speed and Temperature for Rotating Parts in High Temperature Environment. IEEE Access, 2021, 9, 96257-96266.	4.2	1
12	A Wireless Passive Vibration Sensor Based on High-Temperature Ceramic for Harsh Environment. Journal of Sensors, 2021, 2021, 1-9.	1.1	7
13	Interface Characterization and Analysis of 4H-SiC Direct Bonding Structure Based on Plasma Processing. ECS Journal of Solid State Science and Technology, 2021, 10, 034003.	1.8	0
14	Dual-wavelength demodulation technique for interrogating a shortest cavity in multi-cavity fiber-optic Fabryâ€"PÃ©rot sensors. Optics Express, 2021, 29, 32658.	3.4	8
15	A Differential Split-Type Pressure Sensor for High-Temperature Applications. IEEE Access, 2021, 9, 20641-20647.	4.2	2
16	An LC Wireless Passive Pressure Sensor Based on Single-Crystal MgO MEMS Processing Technique for High Temperature Applications. Sensors, 2021, 21, 6602.	3.8	1
17	An optimized pulse coupled neural network image de-noising method for a field-programmable gate array based polarization camera. Review of Scientific Instruments, 2021, 92, 113703.	1.3	2
18	Surface characterization of patterning on MgO single crystals using wet chemical etching process to advance MEMS devices. Journal of Micromechanics and Microengineering, 2020, 30, 015001.	2.6	9

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19	Capacitive Pressure Sensor With Integrated Signal-Conversion Circuit for High-Temperature Applications. IEEE Access, 2020, 8, 212787-212793.	4.2	3
20	Hydrophilic Direct Bonding of MgO/MgO for High-Temperature MEMS Devices. IEEE Access, 2020, 8, 67242-67249.	4.2	10
21	Highly Sensitive NH3 Wireless Sensor Based on Ag-RGO Composite Operated at Room-temperature. Scientific Reports, 2019, 9, 9942.	3.3	40
22	A Novel Temperature and Pressure Measuring Scheme Based on LC Sensor for Ultra-High Temperature Environment. IEEE Access, 2019, 7, 162747-162755.	4.2	18
23	Al2O3-Based a-IGZO Schottky Diodes for Temperature Sensing. Sensors, 2019, 19, 224.	3.8	12
24	Tunable Plasmon-Induced Transparency with Ultra-Broadband in Dirac Semimetal Metamaterials. Plasmonics, 2019, 14, 1717-1723.	3.4	14
25	MWCNTs/WS2 nanocomposite sensor realized by LC wireless method for humidity monitoring. Sensors and Actuators A: Physical, 2019, 290, 207-214.	4.1	14
26	Research on 355â€‰nm all-solid-state ultraviolet laser processing through silicon holes. Journal of Laser Applications, 2019, 31, 022003.	1.7	0
27	Design and Fabrication of a Thick Film Heat Flux Sensor for Ultra-High Temperature Environment. IEEE Access, 2019, 7, 180771-180778.	4.2	9
28	High Performance Amorphous IGZO Thin-Film Transistor Based on Alumina Ceramic. IEEE Access, 2019, 7, 184312-184319.	4.2	12
29	Wireless passive separated LC temperature sensor based on high-temperature co-fired ceramic operating up to 1500 Â°C. Journal of Micromechanics and Microengineering, 2019, 29, 035015.	2.6	11
30	A Novel Surface <inline-formula> <tex-math notation="LaTeX">LC </tex-math> </inline-formula> Wireless Passive Temperature Sensor Applied in Ultra-High Temperature Measurement. IEEE Sensors Journal, 2019, 19, 105-112.	4.7	42
31	Fiber-optic Fabryâ€“Perot pressure sensor based on sapphire direct bonding for high-temperature applications. Applied Optics, 2019, 58, 1662.	1.8	42
32	A LC wireless passive temperature-pressure-humidity (TPH) sensor integrated on LTCC ceramic for harsh monitoring. Sensors and Actuators B: Chemical, 2018, 270, 433-442.	7.8	54
33	A MoS2 Nanoflakes-Based LC Wireless Passive Humidity Sensor. Sensors, 2018, 18, 4466.	3.8	10
34	A Novel Ceramic-Based Heat Flux Sensor Applied for Harsh Heat Flux Measurement. , 2018, , .		3
35	A Room-Temperature CNT/Fe3O4 Based Passive Wireless Gas Sensor. Sensors, 2018, 18, 3542.	3.8	17
36	An LC Passive Wireless Gas Sensor Based on PANI/CNT Composite. Sensors, 2018, 18, 3022.	3.8	23

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37	A Ceramic Diffusion Bonding Method for Passive LC High-Temperature Pressure Sensor. Sensors, 2018, 18, 2676.	3.8	2
38	A Novel Metamaterial Inspired High-Temperature Microwave Sensor in Harsh Environments. Sensors, 2018, 18, 2879.	3.8	38
39	Low-Cost Wireless Temperature Measurement: Design, Manufacture, and Testing of a PCB-Based Wireless Passive Temperature Sensor. Sensors, 2018, 18, 532.	3.8	30
40	Fiber-optic Fabryâ€“Perot pressure sensor based on low-temperature co-fired ceramic technology for high-temperature applications. Applied Optics, 2018, 57, 4211.	1.8	35
41	Microwave Wire Interrogation Method Mapping Pressure under High Temperatures. Micromachines, 2018, 9, 11.	2.9	5
42	High-Performance MIM Capacitors for a Secondary Power Supply Application. Micromachines, 2018, 9, 69.	2.9	18
43	Diaphragm-Free Fiber-Optic Fabry-Perot Interferometric Gas Pressure Sensor for High Temperature Application. Sensors, 2018, 18, 1011.	3.8	53
44	A Flexible Temperature Sensor Based on Reduced Graphene Oxide for Robot Skin Used in Internet of Things. Sensors, 2018, 18, 1400.	3.8	180
45	Substrate Integrated Waveguide (SIW)-Based Wireless Temperature Sensor for Harsh Environments. Sensors, 2018, 18, 1406.	3.8	15
46	LC temperature-pressure sensor based on HTCC with temperature compensation algorithm for extreme 1100â€‰Â°C applications. Sensors and Actuators A: Physical, 2018, 280, 437-446.	4.1	26
47	A Wireless Passive Pressure and Temperature Sensor via a Dual LC Resonant Circuit in Harsh Environments. Journal of Microelectromechanical Systems, 2017, 26, 351-356.	2.5	57
48	Characterization of biomechanical properties of cells through dielectrophoresis-based cell stretching and actin cytoskeleton modeling. BioMedical Engineering OnLine, 2017, 16, 41.	2.7	25
49	AlN-Based Ceramic Patch Antenna-Type Wireless Passive High-Temperature Sensor. Micromachines, 2017, 8, 301.	2.9	19
50	A Wide-Range Displacement Sensor Based on Plastic Fiber Macro-Bend Coupling. Sensors, 2017, 17, 196.	3.8	15
51	Slot Antenna Integrated Re-Entrant Resonator Based Wireless Pressure Sensor for High-Temperature Applications. Sensors, 2017, 17, 1963.	3.8	21
52	Systematic Theoretical Analysis of Dual-Parameters RF Readout by a Novel LC-Type Passive Sensor. Modelling and Simulation in Engineering, 2017, 2017, 1-11.	0.7	0
53	A High-Temperature Piezoresistive Pressure Sensor with an Integrated Signal-Conditioning Circuit. Sensors, 2016, 16, 913.	3.8	38
54	Dielectrically-Loaded Cylindrical Resonator-Based Wireless Passive High-Temperature Sensor. Sensors, 2016, 16, 2037.	3.8	22

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55	Glass-SOI-Based Hybrid-Bonded Capacitive Micromachined Ultrasonic Transducer With Hermetic Cavities for Immersion Applications. Journal of Microelectromechanical Systems, 2016, 25, 976-986.	2.5	8
56	Liquid level sensor based on CMFTIR effect in polymer optical fiber. Photonic Sensors, 2016, 6, 312-317.	5.0	3
57	An Insertable Passive LC Pressure Sensor Based on an Alumina Ceramic for In Situ Pressure Sensing in High-Temperature Environments. Sensors, 2015, 15, 21844-21856.	3.8	11
58	Review of Research Status and Development Trends of Wireless Passive LC Resonant Sensors for Harsh Environments. Sensors, 2015, 15, 13097-13109.	3.8	40
59	A Wireless Passive LC Resonant Sensor Based on LTCC under High-Temperature/Pressure Environments. Sensors, 2015, 15, 16729-16739.	3.8	17
60	Acetone Sensing Properties of a Gas Sensor Composed of Carbon Nanotubes Doped With Iron Oxide Nanopowder. Sensors, 2015, 15, 28502-28512.	3.8	18
61	Phase Interrogation Used for a Wireless Passive Pressure Sensor in an 800 Â°C High-Temperature Environment. Sensors, 2015, 15, 2548-2564.	3.8	13
62	Antenna-resonator integrated wireless passive temperature sensor based on low-temperature co-fired ceramic for harsh environment. Sensors and Actuators A: Physical, 2015, 236, 299-308.	4.1	31
63	Microâ€electroâ€mechanical systems capacitive ultrasonic transducer with a higher electromechanical coupling coefficient. Micro and Nano Letters, 2015, 10, 541-544.	1.3	1
64	Design and measurement of MEMS capacitive ultrasonic transducer. , 2015, , .		0
65	An Embedded Passive Resonant Sensor Using Frequency Diversity Technology for High-Temperature Wireless Measurement. IEEE Sensors Journal, 2015, 15, 1055-1060.	4.7	27
66	Passive wireless pressure sensor fabricated in low-temperature co-fired ceramic technology. Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanoengineering and Nanosystems, 2015, 229, 160-165.	0.1	0
67	A Passive Pressure Sensor Fabricated by Post-Fire Metallization on Zirconia Ceramic for High-Temperature Applications. Micromachines, 2014, 5, 814-824.	2.9	6
68	A Harsh Environment-Oriented Wireless Passive Temperature Sensor Realized by LTCC Technology. Sensors, 2014, 14, 4154-4166.	3.8	90
69	A High Temperature Capacitive Pressure Sensor Based on Alumina Ceramic for in Situ Measurement at 600 Â°C. Sensors, 2014, 14, 2417-2430.	3.8	35
70	A High-Performance LC Wireless Passive Pressure Sensor Fabricated Using Low-Temperature Co-Fired Ceramic (LTCC) Technology. Sensors, 2014, 14, 23337-23347.	3.8	16
71	Measurement of relative permittivity of LTCC ceramic at different temperatures. AIP Advances, 2014, 4, .	1.3	12
72	A novel readout system for wireless passive pressure sensors. Photonic Sensors, 2014, 4, 70-76.	5.0	5

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73	Fabrication of micro-trench structures with high aspect ratio based on DRIE process for MEMS device applications. Microsystem Technologies, 2013, 19, 1097-1103.	2.0	8
74	Embedded seal cavity preparation technology based on the zirconia. , 2013, , .		0
75	The Effect of Drain/Gate Bias on Electromechanical Coupling Effect in Accelerometer Based on MESFET. IEEE Sensors Journal, 2011, 11, 384-388.	4.7	3
76	Studies of the electromechanical coupling characteristics based on cantilever-mass. , 2011, , .		0
77	Design of T-shape vector hydrophone based on MEMS. , 2011, , .		1
78	Measurement of piezoresistance coefficient with different gate voltages of GaN HEMT micro-accelerometer. , 2011, , .		0
79	Thermopile Infrared Detector with Detectivity Greater Than 108ÂcmHz(1/2)/W. Journal of Infrared, Millimeter, and Terahertz Waves, 2010, 31, 810-820.	2.2	25
80	Integration of GaAs/In_{0.1}Ga_{0.9}As/AlAs resonance tunneling heterostructures into microâ€electroâ€mechanical systems for sensor applications. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 462-467.	1.8	3
81	Package improvements and testing of a novel MEMS bionic vector hydrophone. , 2010, , .		0
82	Piezoresistivity in GaAs/In_xGa_{1â€“x}As/AlAs superlattice structures. Physica Status Solidi - Rapid Research Letters, 2008, 2, 43-45.	2.4	1
83	A Cantilever Accelerometer Based on Resonant Tunneling Diode. , 2007, , .		1
84	Piezoresistive properties of resonant tunneling diodes. Frontiers of Electrical and Electronic Engineering in China: Selected Publications From Chinese Universities, 2007, 2, 449-453.	0.6	1
85	Investigation of the onset voltage for the design of a microfabricated colloid thruster. IEEE/ASME Transactions on Mechatronics, 2006, 11, 66-74.	5.8	3