

Jijun Xiong

List of Publications by Year in descending order

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85
papers

1,519
citations

331259

21
h-index

344852

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.	2.4	2
2	Accurate Real-Time Temperature Measurement Method in Ultra-High Temperature Rotational Environments for Aero Engines/Turbines. IEEE Sensors Journal, 2022, 22, 6482-6490.	2.4	7
3	A MEMS Fiber-Optic Fabry-Perot Vibration Sensor for High-Temperature Applications. IEEE Access, 2022, 10, 42908-42915.	2.6	6
4	A Novel Capacitive Microwave Power Sensor Based on Double MEMS Cantilever Beams. IEEE Sensors Journal, 2022, 22, 11803-11809.	2.4	5
5	Time Synchronization Algorithm for the Skiing Monitoring System. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-9.	2.4	2
6	Manufacturing a langasite crystal microstructure for a high-temperature environment. Vacuum, 2022, 111252.	1.6	1
7	MXene/Polymer Nanocomposites: Preparation, Properties, and Applications. Polymer Reviews, 2021, 61, 80-115.	5.3	123
8	Temperature and Pressure Composite Measurement System Based on Wireless Passive LC Sensor. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	2.4	16
9	MgO Single Crystals MEMS-Based Fiber-Optic Fabry-Perot Pressure Sensor for Harsh Monitoring. IEEE Sensors Journal, 2021, 21, 4272-4279.	2.4	13
10	Synchronous Online Monitoring of Rotational Speed and Temperature for Rotating Parts in High Temperature Environment. IEEE Access, 2021, 9, 96257-96266.	2.6	1
11	A Wireless Passive Vibration Sensor Based on High-Temperature Ceramic for Harsh Environment. Journal of Sensors, 2021, 2021, 1-9.	0.6	7
12	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.	0.9	0
13	Dual-wavelength demodulation technique for interrogating a shortest cavity in multi-cavity fiber-optic Fabry-Perot sensors. Optics Express, 2021, 29, 32658.	1.7	8
14	A Differential Split-Type Pressure Sensor for High-Temperature Applications. IEEE Access, 2021, 9, 20641-20647.	2.6	2
15	An LC Wireless Passive Pressure Sensor Based on Single-Crystal MgO MEMS Processing Technique for High Temperature Applications. Sensors, 2021, 21, 6602.	2.1	1
16	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.	0.6	2
17	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.	1.5	9

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19	Capacitive Pressure Sensor With Integrated Signal-Conversion Circuit for High-Temperature Applications. IEEE Access, 2020, 8, 212787-212793.	2.6	3
20	Hydrophilic Direct Bonding of MgO/MgO for High-Temperature MEMS Devices. IEEE Access, 2020, 8, 67242-67249.	2.6	10
21	Highly Sensitive NH ₃ Wireless Sensor Based on Ag-RGO Composite Operated at Room-temperature. Scientific Reports, 2019, 9, 9942.	1.6	40
22	A Novel Temperature and Pressure Measuring Scheme Based on LC Sensor for Ultra-High Temperature Environment. IEEE Access, 2019, 7, 162747-162755.	2.6	18
23	Al ₂ O ₃ -Based a-IGZO Schottky Diodes for Temperature Sensing. Sensors, 2019, 19, 224.	2.1	12
24	Tunable Plasmon-Induced Transparency with Ultra-Broadband in Dirac Semimetal Metamaterials. Plasmonics, 2019, 14, 1717-1723.	1.8	14
25	MWCNTs/WS ₂ nanocomposite sensor realized by LC wireless method for humidity monitoring. Sensors and Actuators A: Physical, 2019, 290, 207-214.	2.0	14
26	Research on 355-nm all-solid-state ultraviolet laser processing through silicon holes. Journal of Laser Applications, 2019, 31, 022003.	0.8	0
27	Design and Fabrication of a Thick Film Heat Flux Sensor for Ultra-High Temperature Environment. IEEE Access, 2019, 7, 180771-180778.	2.6	9
28	High Performance Amorphous IGZO Thin-Film Transistor Based on Alumina Ceramic. IEEE Access, 2019, 7, 184312-184319.	2.6	12
29	Wireless passive separated LC temperature sensor based on high-temperature co-fired ceramic operating up to 1500 °C. Journal of Micromechanics and Microengineering, 2019, 29, 035015.	1.5	11
30	A Novel Surface ϵ & μ Wireless Passive Temperature Sensor Applied in Ultra-High Temperature Measurement. IEEE Sensors Journal, 2019, 19, 105-112.	2.4	42
31	Fiber-optic Fabry-Perot pressure sensor based on sapphire direct bonding for high-temperature applications. Applied Optics, 2019, 58, 1662.	0.9	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.	4.0	54
33	A MoS ₂ Nanoflakes-Based LC Wireless Passive Humidity Sensor. Sensors, 2018, 18, 4466.	2.1	10
34	A Novel Ceramic-Based Heat Flux Sensor Applied for Harsh Heat Flux Measurement. , 2018, , .		3
35	A Room-Temperature CNT/Fe ₃ O ₄ Based Passive Wireless Gas Sensor. Sensors, 2018, 18, 3542.	2.1	17
36	An LC Passive Wireless Gas Sensor Based on PANI/CNT Composite. Sensors, 2018, 18, 3022.	2.1	23

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37	A Ceramic Diffusion Bonding Method for Passive LC High-Temperature Pressure Sensor. <i>Sensors</i> , 2018, 18, 2676.	2.1	2
38	A Novel Metamaterial Inspired High-Temperature Microwave Sensor in Harsh Environments. <i>Sensors</i> , 2018, 18, 2879.	2.1	38
39	Low-Cost Wireless Temperature Measurement: Design, Manufacture, and Testing of a PCB-Based Wireless Passive Temperature Sensor. <i>Sensors</i> , 2018, 18, 532.	2.1	30
40	Fiber-optic Fabry-Perot pressure sensor based on low-temperature co-fired ceramic technology for high-temperature applications. <i>Applied Optics</i> , 2018, 57, 4211.	0.9	35
41	Microwave Wire Interrogation Method Mapping Pressure under High Temperatures. <i>Micromachines</i> , 2018, 9, 11.	1.4	5
42	High-Performance MIM Capacitors for a Secondary Power Supply Application. <i>Micromachines</i> , 2018, 9, 69.	1.4	18
43	Diaphragm-Free Fiber-Optic Fabry-Perot Interferometric Gas Pressure Sensor for High Temperature Application. <i>Sensors</i> , 2018, 18, 1011.	2.1	53
44	A Flexible Temperature Sensor Based on Reduced Graphene Oxide for Robot Skin Used in Internet of Things. <i>Sensors</i> , 2018, 18, 1400.	2.1	180
45	Substrate Integrated Waveguide (SIW)-Based Wireless Temperature Sensor for Harsh Environments. <i>Sensors</i> , 2018, 18, 1406.	2.1	15
46	LC temperature-pressure sensor based on HTCC with temperature compensation algorithm for extreme 1100°C applications. <i>Sensors and Actuators A: Physical</i> , 2018, 280, 437-446.	2.0	26
47	A Wireless Passive Pressure and Temperature Sensor via a Dual LC Resonant Circuit in Harsh Environments. <i>Journal of Microelectromechanical Systems</i> , 2017, 26, 351-356.	1.7	57
48	Characterization of biomechanical properties of cells through dielectrophoresis-based cell stretching and actin cytoskeleton modeling. <i>BioMedical Engineering OnLine</i> , 2017, 16, 41.	1.3	25
49	AlN-Based Ceramic Patch Antenna-Type Wireless Passive High-Temperature Sensor. <i>Micromachines</i> , 2017, 8, 301.	1.4	19
50	A Wide-Range Displacement Sensor Based on Plastic Fiber Macro-Bend Coupling. <i>Sensors</i> , 2017, 17, 196.	2.1	15
51	Slot Antenna Integrated Re-Entrant Resonator Based Wireless Pressure Sensor for High-Temperature Applications. <i>Sensors</i> , 2017, 17, 1963.	2.1	21
52	Systematic Theoretical Analysis of Dual-Parameters RF Readout by a Novel LC-Type Passive Sensor. <i>Modelling and Simulation in Engineering</i> , 2017, 2017, 1-11.	0.4	0
53	A High-Temperature Piezoresistive Pressure Sensor with an Integrated Signal-Conditioning Circuit. <i>Sensors</i> , 2016, 16, 913.	2.1	38
54	Dielectrically-Loaded Cylindrical Resonator-Based Wireless Passive High-Temperature Sensor. <i>Sensors</i> , 2016, 16, 2037.	2.1	22

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55	Class-SOI-Based Hybrid-Bonded Capacitive Micromachined Ultrasonic Transducer With Hermetic Cavities for Immersion Applications. <i>Journal of Microelectromechanical Systems</i> , 2016, 25, 976-986.	1.7	8
56	Liquid level sensor based on CMFTIR effect in polymer optical fiber. <i>Photonic Sensors</i> , 2016, 6, 312-317.	2.5	3
57	An Insertable Passive LC Pressure Sensor Based on an Alumina Ceramic for In Situ Pressure Sensing in High-Temperature Environments. <i>Sensors</i> , 2015, 15, 21844-21856.	2.1	11
58	Review of Research Status and Development Trends of Wireless Passive LC Resonant Sensors for Harsh Environments. <i>Sensors</i> , 2015, 15, 13097-13109.	2.1	40
59	A Wireless Passive LC Resonant Sensor Based on LTCC under High-Temperature/Pressure Environments. <i>Sensors</i> , 2015, 15, 16729-16739.	2.1	17
60	Acetone Sensing Properties of a Gas Sensor Composed of Carbon Nanotubes Doped With Iron Oxide Nanopowder. <i>Sensors</i> , 2015, 15, 28502-28512.	2.1	18
61	Phase Interrogation Used for a Wireless Passive Pressure Sensor in an 800 Å°C High-Temperature Environment. <i>Sensors</i> , 2015, 15, 2548-2564.	2.1	13
62	Antenna-resonator integrated wireless passive temperature sensor based on low-temperature co-fired ceramic for harsh environment. <i>Sensors and Actuators A: Physical</i> , 2015, 236, 299-308.	2.0	31
63	Micro-electromechanical systems capacitive ultrasonic transducer with a higher electromechanical coupling coefficient. <i>Micro and Nano Letters</i> , 2015, 10, 541-544.	0.6	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. <i>IEEE Sensors Journal</i> , 2015, 15, 1055-1060.	2.4	27
66	Passive wireless pressure sensor fabricated in low-temperature co-fired ceramic technology. <i>Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanoengineering and Nanosystems</i> , 2015, 229, 160-165.	0.1	0
67	A Passive Pressure Sensor Fabricated by Post-Fire Metallization on Zirconia Ceramic for High-Temperature Applications. <i>Micromachines</i> , 2014, 5, 814-824.	1.4	6
68	A Harsh Environment-Oriented Wireless Passive Temperature Sensor Realized by LTCC Technology. <i>Sensors</i> , 2014, 14, 4154-4166.	2.1	90
69	A High Temperature Capacitive Pressure Sensor Based on Alumina Ceramic for in Situ Measurement at 600 Å°C. <i>Sensors</i> , 2014, 14, 2417-2430.	2.1	35
70	A High-Performance LC Wireless Passive Pressure Sensor Fabricated Using Low-Temperature Co-Fired Ceramic (LTCC) Technology. <i>Sensors</i> , 2014, 14, 23337-23347.	2.1	16
71	Measurement of relative permittivity of LTCC ceramic at different temperatures. <i>AIP Advances</i> , 2014, 4, .	0.6	12
72	A novel readout system for wireless passive pressure sensors. <i>Photonic Sensors</i> , 2014, 4, 70-76.	2.5	5

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73	Fabrication of micro-trench structures with high aspect ratio based on DRIE process for MEMS device applications. <i>Microsystem Technologies</i> , 2013, 19, 1097-1103.	1.2	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. <i>IEEE Sensors Journal</i> , 2011, 11, 384-388.	2.4	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 $108 \text{ÅcmHz}^{(1/2)}/\text{W}$. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2010, 31, 810-820.	1.2	25
80	Integration of GaAs/In _{0.1} Ga _{0.9} As/AlAs resonance tunneling heterostructures into micro-electromechanical systems for sensor applications. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010, 207, 462-467.	0.8	3
81	Package improvements and testing of a novel MEMS bionic vector hydrophone. , 2010, , .		0
82	Piezoresistivity in GaAs/In _x Ga _{1-x} As/AlAs superlattice structures. <i>Physica Status Solidi - Rapid Research Letters</i> , 2008, 2, 43-45.	1.2	1
83	A Cantilever Accelerometer Based on Resonant Tunneling Diode. , 2007, , .		1
84	Piezoresistive properties of resonant tunneling diodes. <i>Frontiers of Electrical and Electronic Engineering in China: Selected Publications From Chinese Universities</i> , 2007, 2, 449-453.	0.6	1
85	Investigation of the onset voltage for the design of a microfabricated colloid thruster. <i>IEEE/ASME Transactions on Mechatronics</i> , 2006, 11, 66-74.	3.7	3