Wen Wang

List of Publications by Year
in descending order

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Version: 2024-02-01

66	626	567281	713466
papers	citations	15 h-index	21 g-index

67	67	67	563
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Pd/Ni nanowire film coated SAW hydrogen sensor with fast response. Sensors and Actuators B: Chemical, 2022, 351, 130952.	7.8	19
2	A two-stage method for real-time baseline drift compensation in gas sensors. Measurement Science and Technology, 2022, 33, 045108.	2.6	3
3	Interface and Sensitive Characteristics of the Viscoelastic Film Used in a Surface Acoustic Wave Gas Sensor. ACS Sensors, 2022, 7, 612-621.	7.8	16
4	Development of a SAW poly(epichlorohydrin) gas sensor for detection of harmful chemicals. Analytical Methods, 2022, 14, 1611-1622.	2.7	6
5	A spectrum analyzer system with wide bandwidth and high frequency resolution based on chirp transform. Microwave and Optical Technology Letters, 2022, 64, 458-463.	1.4	0
6	TICT-Based Microenvironment-Sensitive Probe with Turn-on Red Emission for Human Serum Albumin Detection and for Targeting Lipid Droplet Imaging. ACS Biomaterials Science and Engineering, 2022, 8, 253-260.	5.2	9
7	Fast, Accurate and Full Extraction of Coupling-of-Modes Parameters by Finite Element Method. Crystals, 2022, 12, 706.	2.2	2
8	Enhanced Sensitivity of Wireless and Passive SAW-Based Strain Sensor With a Differential Structure. IEEE Sensors Journal, 2021, 21, 23911-23916.	4.7	8
9	A red emitting fluorescent probe based on TICT for selective detection and imaging of HSA. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 250, 119409.	3.9	18
10	Analysis and Design of Single-Phase Unidirectional Transducers with High Directivity. Applied Sciences (Switzerland), 2021, 11, 7500.	2.5	2
11	Development of Wireless and Passive SAW Temperature Sensor with Very High Accuracy. Applied Sciences (Switzerland), 2021, 11, 7422.	2.5	8
12	Enhanced Sensitivity of Surface Acoustic Wave (SAW) Current Sensor Based on TbDyFe Thin Film. , 2021, , .		1
13	Rime ice growth characterized by surface acoustic wave. AIP Advances, 2021, 11, .	1.3	3
14	Enhanced Sensitivity of FeGa Thin-Film Coated SAW Current Sensor. Applied Sciences (Switzerland), 2021, 11, 11726.	2.5	3
15	Enhancing Electronic Nose Performance by Feature Selection Using an Improved Grey Wolf Optimization Based Algorithm. Sensors, 2020, 20, 4065.	3.8	9
16	Detection and Location of a Target in Layered Media without Prior Knowledge of Medium Parameters*. Chinese Physics Letters, 2020, 37, 064301.	3.3	2
17	Optimization of AlN Composite Structure Based Surface Acoustic Wave Device for Potential Sensing at Extremely High Temperature. Sensors, 2020, 20, 4160.	3.8	6
18	Effects of temperature and humidity on the performance of a PECH polymer coated SAW sensor. RSC Advances, 2020, 10, 18099-18106.	3.6	15

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19	Polymeric liquid layer densified by surface acoustic wave. Journal of Chemical Physics, 2020, 152, 224901.	3.0	3
20	Fatigue Characteristics of Magnetostrictive Thin-Film Coated Surface Acoustic Wave Devices for Sensing Magnetic Field. IEEE Access, 2020, 8, 38347-38354.	4.2	13
21	A turn-on fluorescence probe for hydrogen sulfide in absolute aqueous solution. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 233, 118156.	3.9	17
22	Optimization of SAW Devices with LGS/Pt Structure for Sensing Temperature. Sensors, 2020, 20, 2441.	3.8	9
23	Development of a wireless and passive temperature-compensated SAW strain sensor. Sensors and Actuators A: Physical, 2020, 308, 112015.	4.1	35
24	A high performance surface acoustic wave visible light sensor using novel materials: Bi₂S₃ nanobelts. RSC Advances, 2020, 10, 8936-8940.	3.6	10
25	Development of a Love Wave Based Device for Sensing Icing Process with Fast Response. Journal of Electrical Engineering and Technology, 2020, 15, 1245-1254.	2.0	6
26	Development of a High Stability Pd-Ni Alloy Thin-Film Coated SAW Device for Sensing Hydrogen. Sensors, 2019, 19, 3560.	3.8	12
27	Acoustic wave transmission channel based on phononic crystal line defect state. AIP Advances, 2019, 9, .	1.3	15
28	A Microscale Linear Phased-Array Ultrasonic Transducer Based on PZT Ceramics. Sensors, 2019, 19, 1244.	3.8	14
29	Development of a Pd/Cu nanowires coated SAW hydrogen gas sensor with fast response and recovery. Sensors and Actuators B: Chemical, 2019, 287, 157-164.	7.8	52
30	Sensitivity Improvement of TbDyFe Thin-Film Coated Saw-Based Current Sensor. , 2019, , .		0
31	The Principle of Detection and Location of a Target in Layered Media Containing Solids by Snapshot TR-RTM Mixed Method. , 2019, , .		0
32	Development of a novel wireless and passive Love wave based ice sensor. , 2019, , .		2
33	Surface Acoustic Wave Gyroscopic Effect in an Interdigital Transducer. Sensors, 2019, 19, 106.	3.8	10
34	Compact prototype GC-PID system integrated with micro PC and micro GC column. Journal of Micromechanics and Microengineering, 2019, 29, 035008.	2.6	9
35	Experimental investigation of the detection and location of a target in layered media by using the TR-RTM mixed method. Science China: Physics, Mechanics and Astronomy, 2019, 62, 1.	5.1	9
36	Grating-patterned FeCo coated surface acoustic wave device for sensing magnetic field. AIP Advances, 2018, 8, .	1.3	16

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37	Development of Surface Acoustic Wave Magnetic Field Sensor Incorporating with FeCo Dot Film. , 2018, , .		0
38	Pd/Cu Nanowires Coated SAW Sensor for Fast Hydrogen Gas Sensing. , 2018, , .		0
39	Enhanced Sensitivity of a Hydrogen Sulfide Sensor Based on Surface Acoustic Waves at Room Temperature. Sensors, 2018, 18, 3796.	3.8	21
40	Enhanced Sensitivity of a Love Wave-Based Methane Gas Sensor Incorporating a Cryptophane-A Thin Film. Sensors, 2018, 18, 3247.	3.8	14
41	A Novel Surface Acoustic Wave Sensor Array Based on Wireless Communication Network. Sensors, 2018, 18, 2977.	3.8	16
42	Microfabricated metal oxide array sensor based on nanosized SnOâ€“SnO2 sensitive material. Modern Physics Letters B, 2018, 32, 1850199.	1.9	2
43	Weighting technique for detection and location of targets by time reversal-reverse time migration mixed method. , 2017, , .		3
44	Performance improvement of the SAW based current sensor incorporating a strip-patterned magnetostrictive FeCo film. , 2017, , .		4
45	Development of a Magnetostrictive FeNi Coated Surface Acoustic Wave Current Sensor. Applied Sciences (Switzerland), 2017, 7, 755.	2.5	12
46	Performance improvement of the SAW based current sensor incorporating a patterned magnetostrictive FeCo film. , 2017, , .		0
47	Development of magnetostrictive FeCo film coated surface acoustic wave based magnetic field sensor. Proceedings of Meetings on Acoustics, 2017, , .	0.3	0
48	Development of a Room Temperature SAW Methane Gas Sensor Incorporating a Supramolecular Cryptophane A Coating. Sensors, 2016, 16, 73.	3.8	31
49	Development of a Wireless and Passive SAW-Based Chemical Sensor for Organophosphorous Compound Detection. Sensors, 2015, 15, 30187-30198.	3.8	17
50	Selective Surface Acoustic Wave-Based Organophosphorus Sensor Employing a Host-Guest Self-Assembly Monolayer of Î²-Cyclodextrin Derivative. Sensors, 2015, 15, 17916-17925.	3.8	13
51	Optimization of Surface Acoustic Wave-Based Rate Sensors. Sensors, 2015, 15, 25761-25773.	3.8	11
52	Optimization of a BSP3-Coated Surface Acoustic Wave Chemical Sensor. IEEE Sensors Journal, 2015, 15, 6730-6737.	4.7	3
53	Development of a novel SAW current sensor based on the magnetostrictive effect. , 2015, , .		1
54	Development of cryptophane A-coated SAW methane gas sensor. , 2015, , .		1

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55	A Novel Wireless and Temperature-Compensated SAW Vibration Sensor. Sensors, 2014, 14, 20702-20712.	3.8	21
56	A SAW-Based Chemical Sensor for Detecting Sulfur-Containing Organophosphorus Compounds Using a Two-Step Self-Assembly and Molecular Imprinting Technology. Sensors, 2014, 14, 8810-8820.	3.8	11
57	Enhanced Sensitivity of Surface Acoustic Wave-Based Rate Sensors Incorporating Metallic Dot Arrays. Sensors, 2014, 14, 3908-3920.	3.8	14
58	A room temperature SAW based methane gas sensors. , 2013, , .		2
59	A Novel Surface Acoustic Wave Sensor for Optical Lens Surface Dirt Detection. , 2013, , .		0
60	Polyaniline-Coated Surface Acoustic Wave Sensor for Humidity Detection. , 2013, , .		0
61	Theoretical analysis on SAW gyroscopic effect combining with metallic dot array. , 2012, , .		0
62	Temperature stability of Love wave device with multi-guide layers of SiO<inf>2</inf>/SU-8. , 2011, , .		0
63	Development of a New Surface Acoustic Wave Based Gyroscope on a X-112Â°Y LiTaO3 Substrate. Sensors, 2011, 11, 10894-10906.	3.8	17
64	Advances in SXFA-Coated SAW Chemical Sensors for Organophosphorous Compound Detection. Sensors, 2011, 11, 1526-1541.	3.8	33
65	High-frequency stability oscillator for surface acoustic wave gas sensor. Acoustical Science and Technology, 2009, 30, 7-12.	0.5	4
66	A Love Wave Reflective Delay Line with Polymer Guiding Layer for Wireless Sensor Application. Sensors, 2008, 8, 7917-7929.	3.8	12