

# Wen Wang

## List of Publications by Year in descending order

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66  
papers

626  
citations

566801

15  
h-index

713013

21  
g-index

67  
all docs

67  
docs citations

67  
times ranked

563  
citing authors

#	ARTICLE	IF	CITATIONS
1	Pd/Ni nanowire film coated SAW hydrogen sensor with fast response. <i>Sensors and Actuators B: Chemical</i> , 2022, 351, 130952.	4.0	19
2	A two-stage method for real-time baseline drift compensation in gas sensors. <i>Measurement Science and Technology</i> , 2022, 33, 045108.	1.4	3
3	Interface and Sensitive Characteristics of the Viscoelastic Film Used in a Surface Acoustic Wave Gas Sensor. <i>ACS Sensors</i> , 2022, 7, 612-621.	4.0	16
4	Development of a SAW poly(epichlorohydrin) gas sensor for detection of harmful chemicals. <i>Analytical Methods</i> , 2022, 14, 1611-1622.	1.3	6
5	A spectrum analyzer system with wide bandwidth and high frequency resolution based on chirp transform. <i>Microwave and Optical Technology Letters</i> , 2022, 64, 458-463.	0.9	0
6	TICT-Based Microenvironment-Sensitive Probe with Turn-on Red Emission for Human Serum Albumin Detection and for Targeting Lipid Droplet Imaging. <i>ACS Biomaterials Science and Engineering</i> , 2022, 8, 253-260.	2.6	9
7	Fast, Accurate and Full Extraction of Coupling-of-Modes Parameters by Finite Element Method. <i>Crystals</i> , 2022, 12, 706.	1.0	2
8	Enhanced Sensitivity of Wireless and Passive SAW-Based Strain Sensor With a Differential Structure. <i>IEEE Sensors Journal</i> , 2021, 21, 23911-23916.	2.4	8
9	A red emitting fluorescent probe based on TICT for selective detection and imaging of HSA. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 250, 119409.	2.0	18
10	Analysis and Design of Single-Phase Unidirectional Transducers with High Directivity. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 7500.	1.3	2
11	Development of Wireless and Passive SAW Temperature Sensor with Very High Accuracy. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 7422.	1.3	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. <i>AIP Advances</i> , 2021, 11, .	0.6	3
14	Enhanced Sensitivity of FeGa Thin-Film Coated SAW Current Sensor. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 11726.	1.3	3
15	Enhancing Electronic Nose Performance by Feature Selection Using an Improved Grey Wolf Optimization Based Algorithm. <i>Sensors</i> , 2020, 20, 4065.	2.1	9
16	Detection and Location of a Target in Layered Media without Prior Knowledge of Medium Parameters*. <i>Chinese Physics Letters</i> , 2020, 37, 064301.	1.3	2
17	Optimization of AlN Composite Structure Based Surface Acoustic Wave Device for Potential Sensing at Extremely High Temperature. <i>Sensors</i> , 2020, 20, 4160.	2.1	6
18	Effects of temperature and humidity on the performance of a PECH polymer coated SAW sensor. <i>RSC Advances</i> , 2020, 10, 18099-18106.	1.7	15

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19	Polymeric liquid layer densified by surface acoustic wave. <i>Journal of Chemical Physics</i> , 2020, 152, 224901.	1.2	3
20	Fatigue Characteristics of Magnetostrictive Thin-Film Coated Surface Acoustic Wave Devices for Sensing Magnetic Field. <i>IEEE Access</i> , 2020, 8, 38347-38354.	2.6	13
21	A turn-on fluorescence probe for hydrogen sulfide in absolute aqueous solution. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 233, 118156.	2.0	17
22	Optimization of SAW Devices with LGS/Pt Structure for Sensing Temperature. <i>Sensors</i> , 2020, 20, 2441.	2.1	9
23	Development of a wireless and passive temperature-compensated SAW strain sensor. <i>Sensors and Actuators A: Physical</i> , 2020, 308, 112015.	2.0	35
24	A high performance surface acoustic wave visible light sensor using novel materials: Bi <sub>2</sub> S <sub>3</sub> nanobelts. <i>RSC Advances</i> , 2020, 10, 8936-8940.	1.7	10
25	Development of a Love Wave Based Device for Sensing Icing Process with Fast Response. <i>Journal of Electrical Engineering and Technology</i> , 2020, 15, 1245-1254.	1.2	6
26	Development of a High Stability Pd-Ni Alloy Thin-Film Coated SAW Device for Sensing Hydrogen. <i>Sensors</i> , 2019, 19, 3560.	2.1	12
27	Acoustic wave transmission channel based on phononic crystal line defect state. <i>AIP Advances</i> , 2019, 9, .	0.6	15
28	A Microscale Linear Phased-Array Ultrasonic Transducer Based on PZT Ceramics. <i>Sensors</i> , 2019, 19, 1244.	2.1	14
29	Development of a Pd/Cu nanowires coated SAW hydrogen gas sensor with fast response and recovery. <i>Sensors and Actuators B: Chemical</i> , 2019, 287, 157-164.	4.0	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. <i>Sensors</i> , 2019, 19, 106.	2.1	10
34	Compact prototype GC-PID system integrated with micro PC and micro GC column. <i>Journal of Micromechanics and Microengineering</i> , 2019, 29, 035008.	1.5	9
35	Experimental investigation of the detection and location of a target in layered media by using the TR-RTM mixed method. <i>Science China: Physics, Mechanics and Astronomy</i> , 2019, 62, 1.	2.0	9
36	Grating-patterned FeCo coated surface acoustic wave device for sensing magnetic field. <i>AIP Advances</i> , 2018, 8, .	0.6	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.	2.1	21
40	Enhanced Sensitivity of a Love Wave-Based Methane Gas Sensor Incorporating a Cryptophane-A Thin Film. Sensors, 2018, 18, 3247.	2.1	14
41	A Novel Surface Acoustic Wave Sensor Array Based on Wireless Communication Network. Sensors, 2018, 18, 2977.	2.1	16
42	Microfabricated metal oxide array sensor based on nanosized SnO <sub>2</sub> sensitive material. Modern Physics Letters B, 2018, 32, 1850199.	1.0	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.	1.3	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.	2.1	31
49	Development of a Wireless and Passive SAW-Based Chemical Sensor for Organophosphorous Compound Detection. Sensors, 2015, 15, 30187-30198.	2.1	17
50	Selective Surface Acoustic Wave-Based Organophosphorus Sensor Employing a Host-Guest Self-Assembly Monolayer of $\beta$ -Cyclodextrin Derivative. Sensors, 2015, 15, 17916-17925.	2.1	13
51	Optimization of Surface Acoustic Wave-Based Rate Sensors. Sensors, 2015, 15, 25761-25773.	2.1	11
52	Optimization of a BSP3-Coated Surface Acoustic Wave Chemical Sensor. IEEE Sensors Journal, 2015, 15, 6730-6737.	2.4	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. <i>Sensors</i> , 2014, 14, 20702-20712.	2.1	21
56	A SAW-Based Chemical Sensor for Detecting Sulfur-Containing Organophosphorus Compounds Using a Two-Step Self-Assembly and Molecular Imprinting Technology. <i>Sensors</i> , 2014, 14, 8810-8820.	2.1	11
57	Enhanced Sensitivity of Surface Acoustic Wave-Based Rate Sensors Incorporating Metallic Dot Arrays. <i>Sensors</i> , 2014, 14, 3908-3920.	2.1	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 <sub>2</sub> /SU-8. , 2011, , .		0
63	Development of a New Surface Acoustic Wave Based Gyroscope on a X-112°Y LiTaO <sub>3</sub> Substrate. <i>Sensors</i> , 2011, 11, 10894-10906.	2.1	17
64	Advances in SXFA-Coated SAW Chemical Sensors for Organophosphorous Compound Detection. <i>Sensors</i> , 2011, 11, 1526-1541.	2.1	33
65	High-frequency stability oscillator for surface acoustic wave gas sensor. <i>Acoustical Science and Technology</i> , 2009, 30, 7-12.	0.3	4
66	A Love Wave Reflective Delay Line with Polymer Guiding Layer for Wireless Sensor Application. <i>Sensors</i> , 2008, 8, 7917-7929.	2.1	12