

# Xiaonan Hui

## List of Publications by Year in descending order

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25  
papers

525  
citations

932766

10  
h-index

996533

15  
g-index

25  
all docs

25  
docs citations

25  
times ranked

375  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Wireless Wearable RF Sensor for Brumation Study of Chelonians. IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2021, 5, 17-24.	2.3	15
2	Furniture-Integrated Respiration Sensors by Notched Transmission Lines. IEEE Sensors Journal, 2021, 21, 5303-5311.	2.4	10
3	3-D Indoor Device-Free Object Detection by Passive Radio Frequency Identification. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-13.	2.4	5
4	Near-Field Coherent Sensing of Vibration With Harmonic Analysis and Balance Signal Injection. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 1906-1916.	2.9	16
5	Deep-Learning-Based Occupant Counting by Ambient RF Sensing. IEEE Sensors Journal, 2021, 21, 8564-8574.	2.4	6
6	Wearable RF Near-Field Cough Monitoring by Frequency-Time Deep Learning. IEEE Transactions on Biomedical Circuits and Systems, 2021, 15, 756-764.	2.7	8
7	Wearable radio-frequency sensing of respiratory rate, respiratory volume, and heart rate. Npj Digital Medicine, 2020, 3, 98.	5.7	63
8	High-Volume Parallel Mouse Vital-Sign Monitoring With Near-Field Coherent Sensing. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 1152-1156.	2.4	4
9	Multi-Point Near-Field RF Sensing of Blood Pressures and Heartbeat Dynamics. IEEE Access, 2020, 8, 89935-89945.	2.6	19
10	Harmonic UHF RFID Ranging with 50-Micron Accuracy and 1-kHz Sampling Rate. , 2019, , .		1
11	A Wearable RF Sensor for Monitoring Respiratory Patterns. , 2019, 2019, 1217-1223.		11
12	Seat Integration of RF Vital-Sign Monitoring. , 2019, , .		16
13	Microwave Stethoscope for Heart Sound by Near-Field Coherent Sensing. , 2019, , .		16
14	An RF-to-DC Rectifier Based on Tunable Threshold Diodes. IEEE Journal of Radio Frequency Identification, 2019, 3, 173-182.	1.5	13
15	Radio ranging with ultrahigh resolution using a harmonic radio-frequency identification system. Nature Electronics, 2019, 2, 125-131.	13.1	31
16	No-touch measurements of vital signs in small conscious animals. Science Advances, 2019, 5, eaau0169.	4.7	41
17	Monitoring vital signs over multiplexed radio by near-field coherent sensing. Nature Electronics, 2018, 1, 74-78.	13.1	92
18	Accurate Extraction of Heartbeat Intervals with Near-Field Coherent Sensing. , 2018, , .		6

#	ARTICLE	IF	CITATIONS
19	Collaborative Reader Code Division Multiple Access in the Harmonic RFID System. IEEE Journal of Radio Frequency Identification, 2018, 2, 86-92.	1.5	19
20	Mitigation of body movement interference in near-field coherent sensing for heartrate monitoring. , 2018, , .		6
21	Real-time code-division multi-tag localization with centimeter accuracy. , 2017, , .		3
22	Code Division Multiple Access in Centimeter Accuracy Harmonic RFID Locating System. IEEE Journal of Radio Frequency Identification, 2017, 1, 51-58.	1.5	24
23	Real-time 3D robotic arm tracking in indoor environment by RF nonlinear backscattering. , 2016, , .		3
24	Harmonic-WISP: A passive broadband harmonic RFID platform. , 2016, , .		22
25	3D real-time indoor localization via broadband nonlinear backscatter in passive devices with centimeter precision. , 2016, , .		75