

# Xiaonan Hui

## List of Publications by Citations

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**Version:** 2024-04-20

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

24  
papers

299  
citations

10  
h-index

17  
g-index

25  
ext. papers

391  
ext. citations

7.6  
avg, IF

4.35  
L-index

#	Paper	IF	Citations
24	3D real-time indoor localization via broadband nonlinear backscatter in passive devices with centimeter precision <b>2016</b> ,		60
23	Monitoring vital signs over multiplexed radio by near-field coherent sensing. <i>Nature Electronics</i> , <b>2018</b> , 1, 74-78	28.4	58
22	Code Division Multiple Access in Centimeter Accuracy Harmonic RFID Locating System. <i>IEEE Journal of Radio Frequency Identification</i> , <b>2017</b> , 1, 51-58	2.4	20
21	No-touch measurements of vital signs in small conscious animals. <i>Science Advances</i> , <b>2019</b> , 5, eaau0169	14.3	20
20	Wearable radio-frequency sensing of respiratory rate, respiratory volume, and heart rate. <i>Npj Digital Medicine</i> , <b>2020</b> , 3, 98	15.7	19
19	Radio ranging with ultrahigh resolution using a harmonic radio-frequency identification system. <i>Nature Electronics</i> , <b>2019</b> , 2, 125-131	28.4	18
18	Harmonic-WISP: A passive broadband harmonic RFID platform <b>2016</b> ,		17
17	Collaborative Reader Code Division Multiple Access in the Harmonic RFID System. <i>IEEE Journal of Radio Frequency Identification</i> , <b>2018</b> , 2, 86-92	2.4	14
16	Microwave Stethoscope for Heart Sound by Near-Field Coherent Sensing <b>2019</b> ,		11
15	Multi-Point Near-Field RF Sensing of Blood Pressures and Heartbeat Dynamics. <i>IEEE Access</i> , <b>2020</b> , 8, 89935-89945	3.5	11
14	An RF-to-DC Rectifier Based on Tunable Threshold Diodes. <i>IEEE Journal of Radio Frequency Identification</i> , <b>2019</b> , 3, 173-182	2.4	8
13	Seat Integration of RF Vital-Sign Monitoring <b>2019</b> ,		7
12	A Wearable RF Sensor for Monitoring Respiratory Patterns. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2019</b> , 2019, 1217-1223	0.9	6
11	A Wireless Wearable RF Sensor for Brumation Study of Chelonians. <i>IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology</i> , <b>2021</b> , 5, 17-24	2.8	6
10	Near-Field Coherent Sensing of Vibration With Harmonic Analysis and Balance Signal Injection. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2021</b> , 69, 1906-1916	4.1	5
9	Furniture-Integrated Respiration Sensors by Notched Transmission Lines. <i>IEEE Sensors Journal</i> , <b>2021</b> , 21, 5303-5311	4	4
8	Accurate Extraction of Heartbeat Intervals with Near-Field Coherent Sensing <b>2018</b> ,		3

7	Mitigation of body movement interference in near-field coherent sensing for heartrate monitoring <b>2018,</b>		3
6	High-Volume Parallel Mouse Vital-Sign Monitoring With Near-Field Coherent Sensing. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2020</b> , 19, 1152-1156	3.8	2
5	Deep-Learning-Based Occupant Counting by Ambient RF Sensing. <i>IEEE Sensors Journal</i> , <b>2021</b> , 21, 8564-8574	3.7	2
4	Real-time 3D robotic arm tracking in indoor environment by RF nonlinear backscattering <b>2016,</b>		2
3	Harmonic UHF RFID Ranging with 50-Micron Accuracy and 1-kHz Sampling Rate <b>2019,</b>		1
2	3-D Indoor Device-Free Object Detection by Passive Radio Frequency Identification. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 70, 1-13	5.2	1
1	Wearable RF Near-Field Cough Monitoring by Frequency-Time Deep Learning. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , <b>2021</b> , 15, 756-764	5.1	1