

Xiaonan Hui

List of Publications by Year in Descending Order

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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	Near-Field Coherent Sensing of Vibration With Harmonic Analysis and Balance Signal Injection. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2021 , 69, 1906-1916	4.1	5
23	Deep-Learning-Based Occupant Counting by Ambient RF Sensing. <i>IEEE Sensors Journal</i> , 2021 , 21, 8564-8574		2
22	A Wireless Wearable RF Sensor for Brumation Study of Chelonians. <i>IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology</i> , 2021 , 5, 17-24	2.8	6
21	Furniture-Integrated Respiration Sensors by Notched Transmission Lines. <i>IEEE Sensors Journal</i> , 2021 , 21, 5303-5311	4	4
20	3-D Indoor Device-Free Object Detection by Passive Radio Frequency Identification. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 70, 1-13	5.2	1
19	Wearable RF Near-Field Cough Monitoring by Frequency-Time Deep Learning. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2021 , 15, 756-764	5.1	1
18	High-Volume Parallel Mouse Vital-Sign Monitoring With Near-Field Coherent Sensing. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2020 , 19, 1152-1156	3.8	2
17	Multi-Point Near-Field RF Sensing of Blood Pressures and Heartbeat Dynamics. <i>IEEE Access</i> , 2020 , 8, 89935-89945	3.5	15
16	Wearable radio-frequency sensing of respiratory rate, respiratory volume, and heart rate. <i>Npj Digital Medicine</i> , 2020 , 3, 98	15.7	19
15	Seat Integration of RF Vital-Sign Monitoring 2019 ,		7
14	Microwave Stethoscope for Heart Sound by Near-Field Coherent Sensing 2019 ,		11
13	An RF-to-DC Rectifier Based on Tunable Threshold Diodes. <i>IEEE Journal of Radio Frequency Identification</i> , 2019 , 3, 173-182	2.4	8
12	Radio ranging with ultrahigh resolution using a harmonic radio-frequency identification system. <i>Nature Electronics</i> , 2019 , 2, 125-131	28.4	18
11	Harmonic UHF RFID Ranging with 50-Micron Accuracy and 1-kHz Sampling Rate 2019 ,		1
10	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> , 2019 , 2019, 1217-1223	0.9	6
9	No-touch measurements of vital signs in small conscious animals. <i>Science Advances</i> , 2019 , 5, eaau0169	14.3	20
8	Accurate Extraction of Heartbeat Intervals with Near-Field Coherent Sensing 2018 ,		3

7	Collaborative Reader Code Division Multiple Access in the Harmonic RFID System. <i>IEEE Journal of Radio Frequency Identification</i> , 2018 , 2, 86-92	2.4	14
6	Mitigation of body movement interference in near-field coherent sensing for heartrate monitoring 2018 ,		3
5	Monitoring vital signs over multiplexed radio by near-field coherent sensing. <i>Nature Electronics</i> , 2018 , 1, 74-78	28.4	58
4	Code Division Multiple Access in Centimeter Accuracy Harmonic RFID Locating System. <i>IEEE Journal of Radio Frequency Identification</i> , 2017 , 1, 51-58	2.4	20
3	3D real-time indoor localization via broadband nonlinear backscatter in passive devices with centimeter precision 2016 ,		60
2	Real-time 3D robotic arm tracking in indoor environment by RF nonlinear backscattering 2016 ,		2
1	Harmonic-WISP: A passive broadband harmonic RFID platform 2016 ,		17