

# Bo Tan

## List of Publications by Year in descending order

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Version: 2024-02-01

42  
papers

700  
citations

933447

10  
h-index

996975

15  
g-index

42  
all docs

42  
docs citations

42  
times ranked

737  
citing authors

#	ARTICLE	IF	CITATIONS
1	Spatial-Spectral Terahertz Networks. IEEE Transactions on Wireless Communications, 2022, 21, 3881-3892.	9.2	5
2	Unsupervised Doppler Radar Based Activity Recognition for e-Healthcare. IEEE Access, 2021, 9, 62984-63001.	4.2	10
3	A Comparative Study of 3D UE Positioning in 5G New Radio with a Single Station. Sensors, 2021, 21, 1178.	3.8	14
4	Embedding the Radio Imaging in 5G Networks: Signal Processing and an Airport Use Case. , 2021, , .		3
5	Effects of Multipath Attenuation in the Optical Communication-Based Internet of Underwater Things. Sensors, 2020, 20, 6201.	3.8	10
6	Respiration and Activity Detection Based on Passive Radio Sensing in Home Environments. IEEE Access, 2020, 8, 12426-12437.	4.2	12
7	Farm Area Segmentation in Satellite Images Using DeepLabv3+ Neural Networks. Communications in Computer and Information Science, 2020, , 115-135.	0.5	4
8	Enhanced Alignment Signal for CP-Free OFDM: Concept and Performance. , 2020, , .		2
9	DopNet: A Deep Convolutional Neural Network to Recognize Armed and Unarmed Human Targets. IEEE Sensors Journal, 2019, 19, 4160-4172.	4.7	13
10	Time Precoding Enabled Non-Orthogonal Frequency Division Multiplexing. , 2019, , .		7
11	Sparse Feature Extraction for Activity Detection Using Low-Resolution IR Streams. , 2019, , .		4
12	Farm Detection based on Deep Convolutional Neural Nets and Semi-supervised Green Texture Detection using VIS-NIR Satellite Image. , 2019, , .		2
13	Passive Radar for Opportunistic Monitoring in E-Health Applications. IEEE Journal of Translational Engineering in Health and Medicine, 2018, 6, 1-10.	3.7	54
14	Opportunistic Doppler-Only Indoor Localization Via Passive Radar. , 2018, , .		2
15	Unifying and Analysing Activities of Daily Living in Extra Care Homes. , 2018, , .		8
16	Doppler Based Detection of Multiple Targets in Passive Wi-Fi Radar Using Underdetermined Blind Source Separation. , 2018, , .		3
17	WiFi-based passive sensing system for human presence and activity event classification. IET Wireless Sensor Systems, 2018, 8, 276-283.	1.7	18
18	Exploiting WiFi Channel State Information for Residential Healthcare Informatics. , 2018, 56, 130-137.		82

#	ARTICLE	IF	CITATIONS
19	Experimental SEFDM Pipelined Iterative Detection Architecture with Improved Throughput. , 2018, , .		6
20	Log-Likelihood Clustering-Enabled Passive RF Sensing for Residential Activity Recognition. IEEE Sensors Journal, 2018, 18, 5413-5421.	4.7	14
21	Use of Low-Resolution Infrared Pixel Array for Passive Human Motion Movement and Recognition. , 2018, , .		12
22	SPHERE: A Sensor Platform for Healthcare in a Residential Environment. , 2017, , 315-333.		47
23	Passive wireless sensing for unsupervised human activity recognition in healthcare. , 2017, , .		11
24	ThruMapper. , 2017, , .		9
25	An intelligent well-being monitoring system for residents in extra care homes. , 2017, , .		8
26	Signs of life detection using wireless passive radar. , 2016, , .		21
27	Awireless passive radar system for real-time through-wall movement detection. IEEE Transactions on Aerospace and Electronic Systems, 2016, 52, 2596-2603.	4.7	41
28	Non-contact breathing detection using passive radar. , 2016, , .		31
29	Activity recognition based on micro-Doppler signature with in-home Wi-Fi. , 2016, , .		31
30	Opportunistic physical activity monitoring via passive WiFi radar. , 2016, , .		12
31	Mitigating packet loss in connectionless Bluetooth Low Energy. , 2015, , .		10
32	Wi-Fi based passive human motion sensing for in-home healthcare applications. , 2015, , .		17
33	Agent-based decentralised data-acquisition and time-synchronisation in critical healthcare applications. , 2015, , .		4
34	Indoor target tracking using high doppler resolution passive Wi-Fi radar. , 2015, , .		19
35	pH triggered self-assembly structural transition of ionic liquids in aqueous solutions: smart use of pH-responsive additives. RSC Advances, 2015, 5, 65583-65590.	3.6	13
36	A real-time high resolution passive WiFi Doppler-radar and its applications. , 2014, , .		48

#	ARTICLE	IF	CITATIONS
37	Data processing for real-time wireless passive radar. , 2014, , .		7
38	Relaying technologies for smart grid communications. IEEE Wireless Communications, 2012, 19, 52-59.	9.0	49
39	Relay Transmission Protocols for In-Door Powerline Communications Networks. , 2011, , .		26
40	Adaptive turbo receiver with improved MIMO detector for AMC MIMO systems. , 2008, , .		0
41	Effects of Virtual Carriers of Channel Estimation for OFDM Systems with Transmit Diversity. IEEE Vehicular Technology Conference, 2008, , .	0.4	1
42	Phosphoryl group differentiating $\beta$ -amino acids from $\alpha$ - and $\gamma$ -amino acids in prebiotic peptide formation. International Journal of Quantum Chemistry, 2003, 94, 232-241.	2.0	10