

Kai Wu

List of Publications by Year in descending order

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41
papers

1,270
citations

430874

18
h-index

377865

34
g-index

42
all docs

42
docs citations

42
times ranked

857
citing authors

#	ARTICLE	IF	CITATIONS
1	Enabling Joint Communication and Radar Sensing in Mobile Networks—A Survey. IEEE Communications Surveys and Tutorials, 2022, 24, 306-345.	39.4	220
2	Multiple Moving Targets Surveillance Based on a Cooperative Network for Multi-UAV. IEEE Communications Magazine, 2018, 56, 82-89.	6.1	180
3	ISAR Imaging of Targets With Complex Motion Based on the Chirp Rate—Quadratic Chirp Rate Distribution. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 7276-7289.	6.3	126
4	Accurate Detection and Localization of Unmanned Aerial Vehicle Swarms-Enabled Mobile Edge Computing System. IEEE Transactions on Industrial Informatics, 2021, 17, 5059-5067.	11.3	79
5	ISAR Imaging of Nonuniformly Rotating Target Based on a Fast Parameter Estimation Algorithm of Cubic Phase Signal. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 4727-4740.	6.3	78
6	ISAR Imaging of Targets With Complex Motions Based on the Keystone Time-Chirp Rate Distribution. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 1275-1279.	3.1	76
7	An Efficient Strategy for Accurate Detection and Localization of UAV Swarms. IEEE Internet of Things Journal, 2021, 8, 15372-15381.	8.7	52
8	Waveform Design and Accurate Channel Estimation for Frequency-Hopping MIMO Radar-Based Communications. IEEE Transactions on Communications, 2020, , 1-1.	7.8	44
9	ISAR Imaging of Targets With Complex Motions Based on Modified L_v 's Distribution for Cubic Phase Signal. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 4775-4784.	4.9	40
10	Robust Unambiguous Estimation of Angle-of-Arrival in Hybrid Array With Localized Analog Subarrays. IEEE Transactions on Wireless Communications, 2018, 17, 2987-3002.	9.2	37
11	Efficient Data Transmission Strategy for IIoTs With Arbitrary Geometrical Array. IEEE Transactions on Industrial Informatics, 2021, 17, 3460-3468.	11.3	32
12	ISAR Imaging for Fluctuating Ships Based on a Fast Bilinear Parameter Estimation Algorithm. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 3954-3966.	4.9	26
13	ISAR Imaging of Nonuniformly Rotating Targets Based on Generalized Decoupling Technique. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 520-532.	4.9	20
14	Accurate DOA Estimation for Large-Scale Uniform Circular Array Using a Single Snapshot. IEEE Communications Letters, 2019, 23, 302-305.	4.1	20
15	An Adaptive Radar Signal Processor for UAVs Detection With Super-Resolution Capabilities. IEEE Sensors Journal, 2021, 21, 20778-20787.	4.7	19
16	Frequency-Hopping MIMO Radar-Based Communications: An Overview. IEEE Aerospace and Electronic Systems Magazine, 2022, 37, 42-54.	1.3	19
17	Fast and Accurate Estimation of Angle-of-Arrival for Satellite-Borne Wideband Communication System. IEEE Journal on Selected Areas in Communications, 2018, 36, 314-326.	14.0	18
18	Refinement of Optimal Interpolation Factor for DFT Interpolated Frequency Estimator. IEEE Communications Letters, 2020, 24, 782-786.	4.1	18

#	ARTICLE	IF	CITATIONS
19	An ISAR Imaging Algorithm for Nonuniformly Rotating Targets With Low SNR Based on Modified Bilinear Parameter Estimation of Cubic Phase Signal. IEEE Transactions on Aerospace and Electronic Systems, 2018, 54, 3108-3124.	4.7	18
20	Integrating Low-Complexity and Flexible Sensing Into Communication Systems. IEEE Journal on Selected Areas in Communications, 2022, 40, 1873-1889.	14.0	17
21	OTFS-Based Joint Communication and Sensing for Future Industrial IoT. IEEE Internet of Things Journal, 2023, 10, 1973-1989.	8.7	16
22	Efficient Angle-of-Arrival Estimation of Lens Antenna Arrays for Wireless Information and Power Transfer. IEEE Journal on Selected Areas in Communications, 2019, 37, 116-130.	14.0	12
23	Accurate Channel Estimation for Frequency-Hopping Dual-Function Radar Communications. , 2020, , .		11
24	Exploiting Spatial-Wideband Effect for Fast AoA Estimation at Lens Antenna Array. IEEE Journal on Selected Topics in Signal Processing, 2019, 13, 902-917.	10.8	10
25	Accurate Frequency Estimation With Fewer DFT Interpolations Based on Pad� Approximation. IEEE Transactions on Vehicular Technology, 2021, 70, 7267-7271.	6.3	10
26	Recent Breakthroughs on Angle-of-Arrival Estimation for Millimeter-Wave High-Speed Railway Communication. IEEE Communications Magazine, 2019, 57, 57-63.	6.1	9
27	Three-dimensional interferometric inverse synthetic aperture radar imaging of maneuvering target based on the joint cross modified Wigner-Ville distribution. Journal of Applied Remote Sensing, 2016, 10, 015007.	1.3	8
28	Design of generalised sidelobe canceller-based adaptive wideband beamformer without presteering delays. Electronics Letters, 2016, 52, 177-179.	1.0	8
29	Joint Communications and Sensing Employing Multi- or Single-Carrier OFDM Communication Signals: A Tutorial on Sensing Methods, Recent Progress and a Novel Design. Sensors, 2022, 22, 1613.	3.8	8
30	Expeditious Estimation of Angle-of-Arrival for Hybrid Butler Matrix Arrays. IEEE Transactions on Wireless Communications, 2019, 18, 2170-2185.	9.2	7
31	Integrating Secure Communications Into Frequency Hopping MIMO Radar With Improved Data Rate. IEEE Transactions on Wireless Communications, 2022, 21, 5392-5405.	9.2	7
32	Reliable Frequency-Hopping MIMO Radar-Based Communications With Multi-Antenna Receiver. IEEE Transactions on Communications, 2021, 69, 5502-5513.	7.8	6
33	Secrecy Rate Analysis for Millimeter-Wave Lens Antenna Array Transmission. IEEE Communications Letters, 2020, 24, 272-276.	4.1	5
34	Design of Wideband Digital Array Beamformer Using the Variable Fractional Delay Allpass Filter. Applied Mechanics and Materials, 0, 719-720, 826-832.	0.2	4
35	Fast Angle-of-Arrival Estimation via Virtual Subarrays in Analog Antenna Array. IEEE Transactions on Wireless Communications, 2020, 19, 6425-6439.	9.2	3
36	Analog-Domain Suppression of Strong Interference Using Hybrid Antenna Array. Sensors, 2022, 22, 2417.	3.8	3

#	ARTICLE	IF	CITATIONS
37	Ghost Image Due to mmWave Radar Interference: Experiment, Mitigation and Leverage. , 2020, , .		2
38	NUFFT-based parameter estimation algorithm for ISAR imaging of targets with complex motion. , 2015, , .		1
39	GPU accelation of parallel range alignment in ISAR real-time imaging. , 2016, , .		1
40	A new broadband beamformer with fixed feedback weights. , 2014, , .		0
41	A Smart Radar Signal Processing Solution for Ground-Based UAVs Surveillance. , 2021, , .		0