

# Jeffrey A Nanzer

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6269972/publications.pdf>

Version: 2024-02-01

144  
papers

1,464  
citations

394421

19  
h-index

395702

33  
g-index

144  
all docs

144  
docs citations

144  
times ranked

771  
citing authors

#	ARTICLE	IF	CITATIONS
1	Radio-Over-Fiber Technologies for Emerging Wireless Systems. IEEE Journal of Quantum Electronics, 2016, 52, 1-11.	1.9	180
2	Open-Loop Coherent Distributed Arrays. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 1662-1672.	4.6	74
3	A Review of Microwave Wireless Techniques for Human Presence Detection and Classification. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 1780-1794.	4.6	73
4	Experimental Demonstration of Photonic Millimeter-Wave System for High Capacity Point-to-Point Wireless Communications. Journal of Lightwave Technology, 2014, 32, 3588-3594.	4.6	60
5	Bayesian Classification of Humans and Vehicles Using Micro-Doppler Signals From a Scanning-Beam Radar. IEEE Microwave and Wireless Components Letters, 2009, 19, 338-340.	3.2	53
6	Photonic Beamsteering of a Millimeter-Wave Array With 10-Gb/s Data Transmission. IEEE Photonics Technology Letters, 2014, 26, 1407-1410.	2.5	52
7	Distributed Phased Arrays: Challenges and Recent Advances. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 4893-4907.	4.6	46
8	Millimeter-Wave Interferometric Angular Velocity Detection. IEEE Transactions on Microwave Theory and Techniques, 2010, , .	4.6	44
9	Human Presence Detection Using Millimeter-Wave Radiometry. IEEE Transactions on Microwave Theory and Techniques, 2007, 55, 2727-2733.	4.6	38
10	Microwave Imaging Using Noise Signals. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 5842-5851.	4.6	38
11	Millimeter-Wave Wireless Communication Using Dual-Wavelength Photonic Signal Generation and Photonic Upconversion. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 3522-3530.	4.6	31
12	Experimental Demonstration and Calibration of a 16-Element Active Incoherent Millimeter-Wave Imaging Array. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 3804-3813.	4.6	30
13	Imaging With WiFi. IEEE Access, 2019, 7, 28616-28624.	4.2	29
14	On the Estimation of Angle Rate in Radar. IEEE Transactions on Antennas and Propagation, 2017, 65, 1339-1348.	5.1	28
15	Microwave and millimeter-wave ranging for coherent distributed RF systems. , 2015, , .		26
16	Open-Loop Distributed Beamforming Using Wireless Frequency Synchronization. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 896-905.	4.6	25
17	Millimeter-Wave Photonics for Communications and Phased Arrays. Fiber and Integrated Optics, 2015, 34, 159-174.	2.5	23
18	Dual Interferometric-Doppler Measurements of the Radial and Angular Velocity of Humans. IEEE Transactions on Antennas and Propagation, 2014, 62, 1513-1517.	5.1	21

#	ARTICLE	IF	CITATIONS
19	Combined Wireless Ranging and Frequency Transfer for Internode Coordination in Open-Loop Coherent Distributed Antenna Arrays. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 277-287.	4.6	21
20	High-Accuracy Multinode Ranging For Coherent Distributed Antenna Arrays. IEEE Transactions on Aerospace and Electronic Systems, 2020, 56, 4056-4066.	4.7	21
21	Effects of time alignment errors in coherent distributed radar. , 2018, , .		18
22	A Microwave Sensor With Submillimeter Range Accuracy Using Spectrally Sparse Signals. IEEE Microwave and Wireless Components Letters, 2020, 30, 120-123.	3.2	17
23	Wireless Frequency Synchronization for Coherent Distributed Antenna Arrays. , 2019, , .		16
24	Analysis of Array Sparsity in Active Incoherent Microwave Imaging. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 57-61.	3.1	16
25	Micro-motion signatures in radar angular velocity measurements. , 2016, , .		15
26	Decentralized Frequency Synchronization in Distributed Antenna Arrays With Quantized Frequency States and Directed Communications. IEEE Transactions on Antennas and Propagation, 2020, 68, 5280-5288.	5.1	15
27	Joint Detection of Human and Object Motion Using Harmonic Micro-Doppler Radar and Harmonic Tags. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 930-934.	4.0	15
28	A Design Study of 5G Antennas Optimized Using Genetic Algorithms. , 2017, , .		14
29	An SIW Horn Antenna Fed by a Coupled Mode Emulating Pyramidal Horn Antennas. IEEE Transactions on Antennas and Propagation, 2020, 68, 33-42.	5.1	13
30	Automotive Velocity Sensing Using Millimeter-Wave Interferometric Radar. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 1096-1104.	4.6	13
31	Photonic downconverting receiver using optical phase modulation. , 2014, , .		12
32	Decentralized Frequency Alignment for Collaborative Beamforming in Distributed Phased Arrays. IEEE Transactions on Wireless Communications, 2021, 20, 6269-6281.	9.2	12
33	Millimeter-Wave Imaging at 652 Frames per Second. IEEE Journal of Microwaves, 2021, 1, 738-746.	6.5	12
34	Multi-Node Open-Loop Distributed Beamforming Based on Scalable, High-Accuracy Ranging. IEEE Sensors Journal, 2022, 22, 1629-1637.	4.7	12
35	Analysis of Element Failures in Active Incoherent Microwave Imaging Arrays Using Noise Signals. IEEE Microwave and Wireless Components Letters, 2019, 29, 161-163.	3.2	11
36	Interferometric Microwave Radar With a Feedforward Neural Network for Vehicle Speed-Over-Ground Estimation. IEEE Microwave and Wireless Components Letters, 2020, 30, 304-307.	3.2	11

#	ARTICLE	IF	CITATIONS
37	Open-Loop Distributed Beamforming Using Wireless Phase and Frequency Synchronization. IEEE Microwave and Wireless Components Letters, 2022, 32, 234-237.	3.2	11
38	Applying Millimeter-Wave Correlation Radiometry to the Detection of Self-Luminous Objects at Close Range. IEEE Transactions on Microwave Theory and Techniques, 2008, 56, 2054-2061.	4.6	10
39	On the Resolution of the Interferometric Measurement of the Angular Velocity of Moving Objects. IEEE Transactions on Antennas and Propagation, 2012, 60, 5356-5363.	5.1	10
40	Fully fiber-remoted 80 GHz wireless communication with multi-subcarrier 16-QAM. , 2012, , .		10
41	Bandpass signal design for passive time delay estimation. , 2016, , .		9
42	A study of coherent gain degradation due to node vibrations in open loop coherent distributed arrays. , 2017, , .		9
43	Impact of VCO and PLL Phase Noise on Distributed Beamforming Arrays With Periodic Synchronization. IEEE Access, 2021, 9, 56578-56588.	4.2	9
44	A C-Band Fully Polarimetric Automotive Synthetic Aperture Radar. IEEE Transactions on Vehicular Technology, 2022, 71, 2587-2600.	6.3	9
45	Imageless Shape Detection Using a Millimeter-Wave Dynamic Antenna Array and Noise Illumination. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 758-765.	4.6	9
46	Millimeter-wave interferometric imaging sensors. , 2013, , .		8
47	Microwave wireless coordination technologies for coherent distributed maritime radar. , 2017, , .		8
48	Toward Space-Time Incoherent Transmitter Design for Millimeter-Wave Imaging. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 1471-1475.	4.0	8
49	A Distributed RF Transmitter Using One-Way Wireless Clock Transfer. IEEE Microwave and Wireless Components Letters, 2017, 27, 195-197.	3.2	7
50	Angle Estimation Using Wideband Frequency Modulation and an Active Distributed Array. IEEE Microwave and Wireless Components Letters, 2018, 28, 1059-1061.	3.2	7
51	Using platform motion for improved spatial filtering in distributed antenna arrays. , 2018, , .		7
52	Interferometric Radar For Spatially-Persistent Gesture Recognition in Human-Computer Interaction. , 2019, , .		7
53	A Self-Mixing Receiver for Wireless Frequency Synchronization in Coherent Distributed Arrays. , 2020, , .		7
54	Dynamic Antenna Array Design for Scene Classification Through Fourier-Domain Filtering. IEEE Transactions on Antennas and Propagation, 2021, 69, 5953-5962.	5.1	7

#	ARTICLE	IF	CITATIONS
55	Design of a Compact Omnidirectional Leaky-Wave Antenna Fed by Higher Order Mode. IEEE Transactions on Antennas and Propagation, 2022, 70, 1672-1682.	5.1	7
56	Interferometric detection of the angular velocity of moving objects. , 2010, , .		6
57	Spatial filtering of grating lobes in mobile sparse arrays. , 2016, , .		6
58	Analysis of the Signal Response of a Scanning-Beam Millimeter-Wave Correlation Radiometer. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 2357-2368.	4.6	5
59	Resolution of interferometric angular velocity measurements. , 2011, , .		5
60	A W-band photonic array. , 2014, , .		5
61	Demonstration of a Coherent RF Repeater for Distributed Communications. IEEE Wireless Communications Letters, 2016, 5, 148-151.	5.0	5
62	Accuracy of Angle Rate Measurements Using a Distributed Radar With a Correlation Receiver. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 209-212.	4.0	5
63	A Multiple Baseline Interferometric Radar for Multiple Target Angular Velocity Measurement. IEEE Microwave and Wireless Components Letters, 2021, 31, 937-940.	3.2	5
64	Long-Range Wireless Frequency Synchronization for Distributed Phased Arrays. , 2020, , .		5
65	Impact of Localization Error on Open-Loop Distributed Beamforming Arrays. , 2021, , .		5
66	Distributed Antenna Array Dynamics for Secure Wireless Communication. IEEE Transactions on Antennas and Propagation, 2022, 70, 2740-2749.	5.1	5
67	Adaptive Distributed Transceiver Synchronization Over a 90 m Microwave Wireless Link. IEEE Transactions on Antennas and Propagation, 2022, 70, 3688-3699.	5.1	5
68	Waveforms and signal processing for high-accuracy microwave metrology. , 2015, , .		4
69	Photonic millimeter wave system for high capacity wireless communications. , 2015, , .		4
70	An Active Microwave Imaging Technique Using Spatial Frequency Sampling. , 2018, , .		4
71	Pulsed Harmonic Doppler Radar and Passive RF Tags for Tracking the Dynamic Motion of Held Objects. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 768-772.	4.0	4
72	Radar measurement of the angular velocity of moving objects. , 2019, , 219-243.		4

#	ARTICLE	IF	CITATIONS
73	Fourier Domain Millimeter-Wave Imaging Using Noncooperative 5G Communications Signals. IEEE Transactions on Antennas and Propagation, 2022, 70, 8872-8882.	5.1	4
74	Correction of frequency uncertainty in wide field of view interferometric angular velocity measurements. , 2012, , .		3
75	A 29.5 GHz radar interferometer for measuring the angular velocity of moving objects. , 2013, , .		3
76	Hybrid millimeter-wave/free-space optical system for high data rate communications. , 2013, , .		3
77	Mixerless 40 GHz wireless link using a photonic upconverting transmitter and a photonic downsampling receiver. , 2013, , .		3
78	A Bandpass Sampling Receiver for Wide-Bandwidth, Spectrally-Sparse Waveforms for High-Accuracy Range Measurements. IEEE Microwave and Wireless Components Letters, 2017, 27, 88-90.	3.2	3
79	Velocity Estimation with a Distributed Array for Autonomous Ground Vehicles. , 2019, , .		3
80	High Accuracy Adaptive Microwave Ranging Using SNR-Based Perception for Coherent Distributed Antenna Arrays. IEEE Transactions on Circuits and Systems I: Regular Papers, 2020, 67, 5540-5549.	5.4	3
81	Harmonic Micro-Doppler Detection Using Passive RF Tags and Pulsed Microwave Harmonic Radar. , 2020, , .		3
82	Ranging Requirements for Open-Loop Coherent Distributed Arrays With Wireless Frequency Synchronization. , 2020, , .		3
83	A Millimeter-Wave Dynamic Antenna Array for Classifying Objects Via Sparse Fourier Domain Sampling. , 2021, , .		3
84	Spatial Frequency Filter Design for Interferometric Image Classification Without Image Reconstruction. , 2020, , .		3
85	Analysis of the detection modes of a human presence detection millimeter-wave radiometer. , 2010, , .		2
86	Frequency Estimation of Human Presence Detection Signals From a Scanning-Beam Millimeter-Wave Correlation Radiometer. IEEE Geoscience and Remote Sensing Letters, 2011, 8, 78-82.	3.1	2
87	Sensitivity of a Passive Correlation Interferometer to an Angularly Moving Source. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 3868-3876.	4.6	2
88	Time-frequency measurement of moving objects using a 29.5GHz dual interferometric-Doppler radar. , 2013, , .		2
89	Platform placement for sidelobe mitigation in mobile sparse arrays. , 2016, , .		2
90	Direction-of-Arrival Estimation Using a Low-Cost, Portable, Software-Defined-Radio-Based Phase Interferometry System [Education Corner]. IEEE Antennas and Propagation Magazine, 2019, 61, 78-84.	1.4	2

#	ARTICLE	IF	CITATIONS
91	Time-Reversal Microwave Tomography Using Frequency Domain Sampling. , 2019, , .		2
92	A Microwave Tomography System Using Time-Reversal Imaging. , 2019, , .		2
93	Transmit Pattern Analysis for Active Incoherent Microwave Imaging. , 2019, , .		2
94	Scalable High-Accuracy Ranging and Wireless Frequency Synchronization for Open-Loop Distributed Phased Arrays. , 2020, , .		2
95	High-Accuracy Localization Using IEEE 802.11 WiFi Legacy Preamble. IEEE Access, 2020, 8, 126681-126686.	4.2	2
96	A Digital Interferometric Array with Active Noise Illumination for Millimeter-Wave Imaging at 13.7 fps. , 2020, , .		2
97	Incoherent Imaging at Microwave and Millimeter-Wave Frequencies Using Noise Transmitters. IEEE Aerospace and Electronic Systems Magazine, 2020, 35, 42-51.	1.3	2
98	Localization in Distributed Wireless Systems Based on High-Accuracy Microwave Ranging. , 2021, , .		2
99	Towards Three-Dimensional Active Incoherent Millimeter-Wave Imaging. , 2021, , .		2
100	The Near Field Effect in Transmitter Design for Incoherent Millimeter-Wave Imaging. , 2021, , .		2
101	Passive Non-Cooperative Millimeter-Wave Imaging Using 5G Signals of Opportunity. , 2021, , .		2
102	A Passive Harmonic Tag Using Nested Dual-Band Patch Antennas for Harmonic Doppler Sensing. , 2020, , .		2
103	60 GHz broadband free-space communication using dual-wavelength photonic signal generation. , 2011, , .		1
104	Photonics enabled millimeter wave systems. , 2013, , .		1
105	Broadband optically phase modulated downconverting W-band wireless receiver. , 2015, , .		1
106	Adaptive Internode Ranging for Coherent Distributed Antenna Arrays. IEEE Transactions on Aerospace and Electronic Systems, 2020, 56, 4689-4697.	4.7	1
107	Joint Measurement of Target Angle and Angular Velocity Using Interferometric Radar with FM Waveforms. , 2020, , .		1
108	Wire-Based Passive Dipole Harmonic Tags for Harmonic Doppler Radar Applications. , 2020, , .		1

#	ARTICLE	IF	CITATIONS
109	High-Accuracy Localization in Joint Radar and Communications Systems Using Multi-Tone Waveform Modulation. , 2020, , .		1
110	A Space-Time Modulated Distributed Antenna Array for Multiple Target Angle Estimation. , 2020, , .		1
111	A Dual-Axis Interferometric Radar for Instantaneous 2D Angular Velocity Measurement. , 2020, , .		1
112	A Scalable Dual LFM Waveform for Unambiguous Localization in Distributed Antenna Arrays. , 2020, , .		1
113	Distributed Array Transmitter Spatial Coherence in Active Incoherent Millimeter-Wave Imaging. , 2020, , .		1
114	Microwave Ranging via Least-Squares Estimation of Spectrally Sparse Signals in Software-Defined Radio. IEEE Microwave and Wireless Components Letters, 2022, 32, 161-164.	3.2	1
115	Incoherent Point Spread Function Estimation and Multipoint Deconvolution for Active Incoherent Millimeter-Wave Imaging. IEEE Microwave and Wireless Components Letters, 2022, 32, 800-803.	3.2	1
116	A Hybrid Model to Estimate Mean of Maximum Fields Inside Small Metal Enclosures Using Deep Neural Networks and Maximum Likelihood Estimator. IEEE Letters on EMC Practice and Applications, 2022, 4, 31-35.	1.1	1
117	Impact of Time-Bandwidth Product on Active Incoherent Millimeter-Wave Imaging. , 2021, , .		1
118	A multi-channel photonic transceiver. , 2012, , .		0
119	Photonics for millimeter-wave systems. , 2015, , .		0
120	Angle resolution using interferometric spatial frequency modulation. , 2016, , .		0
121	Waveform Design for Improved Doppler Accuracy. , 2018, , .		0
122	Multiband Split-Monopole Antenna Design Rules. , 2018, , .		0
123	Effects of Antenna Pattern Asymmetry on Radar Angle Rate Estimation. , 2018, , .		0
124	A Concentric Multiband Patch Antenna for Wireless Coordination in Coherent Distributed Arrays. , 2018, , .		0
125	Optimizing for Spatial Frequency Coverage vs. Point-Spread Function Sidelobe Level in Active Incoherent Microwave Imaging Arrays. , 2019, , .		0
126	Angle Estimation Using an Active 38 GHz Interferometric Radar. , 2019, , .		0



#	ARTICLE	IF	CITATIONS
127	Effects of Spectral Interference on High-Accuracy Ranging in Coherent Distributed Arrays. , 2019, , .		0
128	Millimeter-Wave Localization of Multiple Targets Using TDOA and Wideband Frequency Modulation. , 2019, , .		0
129	Detection of Harmonic Micro-Doppler Signatures Using Passive RF Tags and Harmonic Radar. , 2021, , .		0
130	Millimeter-Wave Angle Estimation of Multiple Targets Using Space-Time Modulation and Interferometric Antenna Arrays. IEEE Transactions on Microwave Theory and Techniques, 2021, , 1-1.	4.6	0
131	High-Accuracy Unambiguous Localization Using Spectrally Sparse Code-Modulated Signals. , 2020, , .		0
132	Radar Tracking With Orthogonal Velocity Measurements for Autonomous Ground Vehicles. , 2020, , .		0
133	A Bound on Radial Velocity and Observation Time in Interferometric Angular Velocity Measurement. , 2020, , .		0
134	Delay Calibration in Software-Defined Radios for High-Accuracy Microwave Ranging. , 2020, , .		0
135	Multiple Target Angular and Radial Velocity Association in Interferometric Radar. , 2020, , .		0
136	Active Incoherent Millimeter-Wave Imaging of Dielectric Objects. , 2020, , .		0
137	Modeling Sinusoidal Motion of Harmonic Tags Objects for Harmonic Doppler Radar. , 2020, , .		0
138	Three-Dimensional Velocity Measurement Using a Dual Axis Millimeter-Wave Interferometric Radar. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 1674-1685.	4.6	0
139	A Point Target Model for Interferometric Radar Angular Velocity Estimation. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 1562-1570.	4.6	0
140	High-Accuracy Ranging Using a Dual-Channel IEEE 802.11 Legacy Preamble. , 2021, , .		0
141	A Dynamic Antenna Array for Imageless Contraband Detection. , 2021, , .		0
142	A Narrowband Harmonic Tag Using a Microstrip Ring Antenna. , 2021, , .		0
143	Analysis of Imageless Ground Scene Classification Using a Millimeter-Wave Dynamic Antenna Array. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-10.	6.3	0
144	Millimeter-Wave Imaging Using a Rotating Dynamic Antenna Array and Noise Illumination. IEEE Transactions on Antennas and Propagation, 2022, , 1-1.	5.1	0