Boon Leng Cheong

List of Publications by Year
in descending order

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40 papers	822 citations	516215 16 h-index	500791 28 g-index
40 all docs	40 docs citations	40 times ranked	537 citing authors

#	Article	IF	Citations
1	A Dual-Polarization Radar Hydrometeor Classification Algorithm for Winter Precipitation. Journal of Atmospheric and Oceanic Technology, 2014, 31, 1457-1481.	0.5	86
2	Observations of the 10 May 2010 Tornado Outbreak Using OU-PRIME: Potential for New Science with High-Resolution Polarimetric Radar. Bulletin of the American Meteorological Society, 2011, 92, 871-891.	1.7	63
3	A Time Series Weather Radar Simulator Based on High-Resolution Atmospheric Models. Journal of Atmospheric and Oceanic Technology, 2008, 25, 230-243.	0.5	48
4	Observations of Severe Local Storms and Tornadoes with the Atmospheric Imaging Radar. Bulletin of the American Meteorological Society, 2017, 98, 915-935.	1.7	48
5	PX-1000: A Solid-State Polarimetric X-Band Weather Radar and Timeâ€“Frequency Multiplexed Waveform for Blind Range Mitigation. IEEE Transactions on Instrumentation and Measurement, 2013, 62, 3064-3072.	2.4	46
6	Observations of the Small-Scale Variability of Precipitation Using an Imaging Radar. Journal of Atmospheric and Oceanic Technology, 2005, 22, 1122-1137.	0.5	43
7	Pulse pair beamforming and the effects of reflectivity field variations on imaging radars. Radio Science, 2004, 39, n/a-n/a.	0.8	42
8	A Pulse Compression Waveform for Improved-Sensitivity Weather Radar Observations. Journal of Atmospheric and Oceanic Technology, 2014, 31, 2713-2731.	0.5	42
9	High-Temporal Resolution Polarimetric X-Band Doppler Radar Observations of the 20 May 2013 Moore, Oklahoma, Tornado. Monthly Weather Review, 2015, 143, 2711-2735.	0.5	41
10	Refractivity Retrieval Using the Phased-Array Radar: First Results and Potential for Multimission Operation. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 2527-2537.	2.7	37
11	Multilag Correlation Estimators for Polarimetric Radar Measurements in the Presence of Noise. Journal of Atmospheric and Oceanic Technology, 2012, 29, 772-795.	0.5	37
12	Effects of Wind Field Inhomogeneities on Doppler Beam Swinging Revealed by an Imaging Radar. Journal of Atmospheric and Oceanic Technology, 2008, 25, 1414-1422.	0.5	35
13	Phased-Array Design for Biological Clutter Rejection: Simulation and Experimental Validation. Journal of Atmospheric and Oceanic Technology, 2006, 23, 585-598.	0.5	33
14	Optimized NLFM pulse compression waveforms for high-sensitivity radar observations. , 2014, , .		31
15	Understanding Radar Refractivity: Sources of Uncertainty. Journal of Applied Meteorology and Climatology, 2011, 50, 2543-2560.	0.6	19
16	Efficient Atmospheric Simulation for High-Resolution Radar Imaging Applications. Journal of Atmospheric and Oceanic Technology, 2004, 21, 374-378.	0.5	17
17	A Weather Radar Simulator for the Evaluation of Polarimetric Phased Array Performance. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 4178-4189.	2.7	17
18	The Atmospheric Imaging Radar (AIR) for high-resolution observations of severe weather. , 2011, , .		14

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19	On the Use of Auxiliary Receive Channels for Clutter Mitigation With Phased Array Weather Radars. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 272-284.	2.7	12
20	Simulated Frequency Dependence of Radar Observations of Tornadoes. Journal of Atmospheric and Oceanic Technology, 2016, 33, 1825-1842.	0.5	12
21	SimRadar: A Polarimetric Radar Time-Series Simulator for Tornadic Debris Studies. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 2858-2870.	2.7	12
22	Radar Refractivity Retrievals in Oklahoma: Insights into Operational Benefits and Limitations. Weather and Forecasting, 2009, 24, 1345-1361.	0.5	9
23	A Novel Instrument for Real-Time Measurement of Attenuation of Weather Radar Radome Including Its Outer Surface. Part II: Applications. Journal of Atmospheric and Oceanic Technology, 2018, 35, 975-991.	0.5	9
24	A Neural Network Approach for Waveform Generation and Selection with Multi-Mission Radar. , 2019, , .		9
25	Implementation of Adaptive Pulse Compression in Solid-State Radars: Practical Considerations. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 2170-2174.	1.4	8
26	Spectrum Sharing in Weather Radar Networked System: Design and Experimentation. IEEE Sensors Journal, 2019, 19, 1720-1729.	2.4	8
27	A Novel Instrument for Real-Time Measurement of Attenuation of Weather Radar Radome Including Its Outer Surface. Part I: The Concept. Journal of Atmospheric and Oceanic Technology, 2018, 35, 953-973.	0.5	7
28	Orientation Analysis of Simulated Tornadic Debris. Journal of Atmospheric and Oceanic Technology, 2018, 35, 993-1010.	0.5	6
29	Evaluation of Weather Radar with Pulse Compression: Performance of a Fuzzy Logic Tornado Detection Algorithm. Journal of Atmospheric and Oceanic Technology, 2011, 28, 390-400.	0.5	5
30	Bootstrap Dual-Polarimetric Spectral Density Estimator. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 2299-2312.	2.7	5
31	A novel technique to characterize the effect of rain over a radome for radar applications. , 2017, , .		5
32	Progressive Pulse Compression: A Novel Technique for Blind Range Recovery for Solid-State Radars. Journal of Atmospheric and Oceanic Technology, 2021, , .	0.5	5
33	The atmospheric imaging radar: System validation and observations of severe weather. , 2012, , .		3
34	Two-dimensional variational analysis of near-surface moisture from simulated radar refractivity-related phase change observations. Advances in Atmospheric Sciences, 2013, 30, 291-305.	1.9	3
35	A software-defined radar platform for waveform design. , 2012, , .		2
36	Adaptive waveform design for multi-sector array isolation. , 2015, , .		2

#	Article	IF	Citations
37	Automatic wind turbine identification using level-II data. , 2011, , .		1
38	Simulation of Coherent Radar Imaging Using Continuous Wave Noise Radar. Journal of Atmospheric and Oceanic Technology, 2009, 26, 1956-1967.	0.5	0
39	Meteorological data results from the Atmospheric Imaging Radar. , 2015, , .		0
40	A Dual-Doppler Ka-band Mobile Radar Architecture With Rapid-Scanning Volumetric Imaging for Earth Systems Science. , 2022, , .		0