Boon Leng Cheong

List of Publications by Citations

34 papers	633 citations	15 h-index	24 g-index
40 ext. papers	744 ext. citations	3.3 avg, IF	3.57 L-index

#	Paper	IF	Citations
34	A Dual-Polarization Radar Hydrometeor Classification Algorithm for Winter Precipitation. *Journal of Atmospheric and Oceanic Technology*, **2014**, 31, 1457-1481	2	65
33	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	6.1	58
32	Observations of the Small-Scale Variability of Precipitation Using an Imaging Radar. *Journal of Atmospheric and Oceanic Technology*, **2005**, 22, 1122-1137	2	39
31	A Time Series Weather Radar Simulator Based on High-Resolution Atmospheric Models. *Journal of Atmospheric and Oceanic Technology*, **2008**, 25, 230-243	2	37
30	Pulse pair beamforming and the effects of reflectivity field variations on imaging radars. *Radio Science*, **2004**, 39, n/a-n/a	1.4	36
29	High-Temporal Resolution Polarimetric X-Band Doppler Radar Observations of the 20 May 2013 Moore, Oklahoma, Tornado. *Monthly Weather Review*, **2015**, 143, 2711-2735	2.4	32
28	Observations of Severe Local Storms and Tornadoes with the Atmospheric Imaging Radar. *Bulletin of the American Meteorological Society*, **2017**, 98, 915-935	6.1	32
27	Multilag Correlation Estimators for Polarimetric Radar Measurements in the Presence of Noise. *Journal of Atmospheric and Oceanic Technology*, **2012**, 29, 772-795	2	30
26	Effects of Wind Field Inhomogeneities on Doppler Beam Swinging Revealed by an Imaging Radar. *Journal of Atmospheric and Oceanic Technology*, **2008**, 25, 1414-1422	2	30
25	Phased-Array Design for Biological Clutter Rejection: Simulation and Experimental Validation. *Journal of Atmospheric and Oceanic Technology*, **2006**, 23, 585-598	2	29
24	PX-1000: A Solid-State Polarimetric X-Band Weather Radar and Time–Frequency Multiplexed Waveform for Blind Range Mitigation. *IEEE Transactions on Instrumentation and Measurement*, **2013**, 62, 3064-3072	5.2	28
23	A Pulse Compression Waveform for Improved-Sensitivity Weather Radar Observations. *Journal of Atmospheric and Oceanic Technology*, **2014**, 31, 2713-2731	2	28
22	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	8.1	27
21	Optimized NLFM pulse compression waveforms for high-sensitivity radar observations **2014**,		20
20	Understanding Radar Refractivity: Sources of Uncertainty. *Journal of Applied Meteorology and Climatology*, **2011**, 50, 2543-2560	2.7	16
19	Efficient Atmospheric Simulation for High-Resolution Radar Imaging Applications. *Journal of Atmospheric and Oceanic Technology*, **2004**, 21, 374-378	2	14
18	Simulated Frequency Dependence of Radar Observations of Tornadoes. *Journal of Atmospheric and Oceanic Technology*, **2016**, 33, 1825-1842	2	11

17	. *IEEE Transactions on Geoscience and Remote Sensing*, **2016**, 54, 4178-4189	8.1	11
16	The Atmospheric Imaging Radar (AIR) for high-resolution observations of severe weather **2011**,		11
15	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	8.1	11
14	SimRadar: A Polarimetric Radar Time-Series Simulator for Tornadic Debris Studies. *IEEE Transactions on Geoscience and Remote Sensing*, **2017**, 55, 2858-2870	8.1	9
13	Radar Refractivity Retrievals in Oklahoma: Insights into Operational Benefits and Limitations. *Weather and Forecasting*, **2009**, 24, 1345-1361	2.1	8
12	Implementation of Adaptive Pulse Compression in Solid-State Radars: Practical Considerations. *IEEE Geoscience and Remote Sensing Letters*, **2015**, 12, 2170-2174	4.1	7
11	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	2	7
10	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	2	7
9	A Neural Network Approach for Waveform Generation and Selection with Multi-Mission Radar **2019** ,		5
8	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	2	5
7	Spectrum Sharing in Weather Radar Networked System: Design and Experimentation. *IEEE Sensors Journal*, **2019**, 19, 1720-1729	4	5
6	Orientation Analysis of Simulated Tornadic Debris. *Journal of Atmospheric and Oceanic Technology*, **2018**, 35, 993-1010	2	4
5	. *IEEE Transactions on Geoscience and Remote Sensing*, **2017**, 55, 2299-2312	8.1	2
4	**2015**,		2
3	Two-dimensional variational analysis of near-surface moisture from simulated radar refractivity-related phase change observations. *Advances in Atmospheric Sciences*, **2013**, 30, 291-305	2.9	1
2	Automatic wind turbine identification using level-II data **2011**,		1
1	Simulation of Coherent Radar Imaging Using Continuous Wave Noise Radar. *Journal of Atmospheric and Oceanic Technology*, **2009**, 26, 1956-1967	2	