John Yn Cho

List of Publications by Citations

58 papers	1,833 citations	23 h-index	42 g-index
60 ext. papers	1,958 ext. citations	5.3 avg, IF	4.36 L-index

#	Paper	IF	Citations
58	An updated review of polar mesosphere summer echoes: Observation, theory, and their relationship to noctilucent clouds and subvisible aerosols. *Journal of Geophysical Research*, **1997**, 102, 2001-2020		219
57	On the role of charged aerosols in polar mesosphere summer echoes. *Journal of Geophysical Research*, **1992**, 97, 875		160
56	Polar mesosphere summer radar echoes: Observations and current theories. *Reviews of Geophysics*, **1993**, 31, 243	22.6	150
55	Ubiquity of quasi-horizontal layers in the troposphere. *Nature*, **1999**, 398, 316-319	47.5	125
54	Horizontal velocity structure functions in the upper troposphere and lower stratosphere: 1. Observations. *Journal of Geophysical Research*, **2001**, 106, 10223-10232		106
53	The Next-Generation Multimission U.S. Surveillance Radar Network. *Bulletin of the American Meteorological Society*, **2007**, 88, 1739-1752	5.2	78
52	Horizontal velocity structure functions in the upper troposphere and lower stratosphere: 2. Theoretical considerations. *Journal of Geophysical Research*, **2001**, 106, 10233-10241		67
51	Horizontal wavenumber spectra of winds, temperature, and trace gases during the Pacific Exploratory Missions: 1. Climatology. *Journal of Geophysical Research*, **1999**, 104, 5697-5716		63
50	First in-situ observations of neutral and plasma density fluctuations within a PMSE layer. *Geophysical Research Letters*, **1993**, 20, 2311-2314	4.8	55
49	Enhancement of Thomson scatter by charged aerosols in the polar mesosphere: Measurements with a 1.29-GHz radar. *Geophysical Research Letters*, **1992**, 19, 1097-1100	4.8	50
48	Characterizations of tropospheric turbulence and stability layers from aircraft observations. *Journal of Geophysical Research*, **2003**, 108,		48
47	Consistency of rocket and radar electron density observations : implication about the anisotropy of mesospheric turbulence. *Journal of Atmospheric and Solar-Terrestrial Physics*, **1990**, 52, 855-873		44
46	Measurements of atmospheric layers from the NASA DC-8 and P-3B aircraft during PEM-Tropics A. *Journal of Geophysical Research*, **1999**, 104, 5745-5764		43
45	Horizontal wavenumber spectra of winds, temperature, and trace gases during the Pacific Exploratory Missions: 2. Gravity waves, quasi-two-dimensional turbulence, and vortical modes. *Journal of Geophysical Research*, **1999**, 104, 16297-16308		39
44	Detection of a meteor contrail and meteoric dust in the Earth$s upper mesosphere. *Journal of Atmospheric and Solar-Terrestrial Physics*, **1998**, 60, 359-369	2	39
43	General characteristics of tropospheric trace constituent layers observed in the MOZAIC program. *Journal of Geophysical Research*, **2000**, 105, 17379-17392		33
42	Inertio-gravity wave parameter estimation from cross-spectral analysis. *Journal of Geophysical Research*, **1995**, 100, 18727		32

41	Simultaneous meteor echo observations by large-aperture VHF and UHF radars. *Radio Science*, **1998**, 33, 1641-1654	1.3	30
40	Observations of convective and dynamical instabilities in tropopause folds and their contribution to stratosphere-troposphere exchange. *Journal of Geophysical Research*, **1999**, 104, 21549-21568		29
39	Cupri observations of PMSE during Salvo B of NLC-91: Evidence of both partial reflection and turbulent scatter. *Geophysical Research Letters*, **1993**, 20, 2291-2294	4.8	26
38	Anomalous scaling of mesoscale tropospheric humidity fluctuations. *Geophysical Research Letters*, **2000**, 27, 377-380	4.8	25
37	Studies of polar mesosphere summer echoes by VHF radar and rocket probes. *Advances in Space Research*, **1994**, 14, 139-148	2.3	25
36	Electric field measurements in the vicinity of noctilucent clouds and PMSE. *Geophysical Research Letters*, **1993**, 20, 2299-2302	4.8	24
35	A comparison of PMSE and other ground-based observations during the NLC-91 campaign. *Journal of Atmospheric and Solar-Terrestrial Physics*, **1995**, 57, 35-44		23
34	Further effects of charged aerosols on summer mesospheric radar scatter. *Journal of Atmospheric and Solar-Terrestrial Physics*, **1996**, 58, 661-672		22
33	First height comparison of noctilucent clouds and simultaneous PMSE. *Geophysical Research Letters*, **1993**, 20, 2845-2848	4.8	22
32	The Threat to Weather Radars by Wireless Technology. *Bulletin of the American Meteorological Society*, **2016**, 97, 1159-1167	5.2	21
31	Meteoric dust effects on D-region incoherent scatter radar spectra. *Journal of Atmospheric and Solar-Terrestrial Physics*, **1998**, 60, 349-357	2	21
30	Multi-PRI Signal Processing for the Terminal Doppler Weather Radar. Part II: Range–Velocity Ambiguity Mitigation. *Journal of Atmospheric and Oceanic Technology*, **2005**, 22, 1507-1519	1.9	17
29	Determining the cascade of passive scalar variance in the lower stratosphere. *Physical Review Letters*, **2000**, 85, 5663-6	7.3	16
28	Tropospheric ozone layers observed during PEM-Tropics B. *Journal of Geophysical Research*, **2001**, 106, 32527-32538		16
27	Multi-PRI Signal Processing for the Terminal Doppler Weather Radar. Part I: Clutter Filtering. *Journal of Atmospheric and Oceanic Technology*, **2005**, 22, 575-582	1.9	15
26	Observation of pollution plume capping by a tropopause fold. *Geophysical Research Letters*, **2001**, 28, 3243-3246	4.8	15
25	Command and Control for Multifunction Phased Array Radar. *IEEE Transactions on Geoscience and Remote Sensing*, **2017**, 55, 5899-5912	7.4	12
24	A re-evaluation of the Stokes drift in the polar summer mesosphere. *Journal of Geophysical Research*, **1992**, 97, 887		12

23	CUPRI system configuration for NLC-91 and observations of PMSE during Salvo A. *Geophysical Research Letters*, **1993**, 20, 2287-2290	4.8	12
22	PMSE dependence on long-period vertical motions. *Geophysical Research Letters*, **1995**, 22, 1197-1200	4.8	11
21	Aircraft observations of boundary layer turbulence: Intermittency and the cascade of energy and passive scalar variance. *Journal of Geophysical Research*, **2001**, 106, 32469-32479		11
20	Comment on "Reinterpreting aircraft measurement in anisotropic scaling turbulence" by Lovejoy et al. (2009). *Atmospheric Chemistry and Physics*, **2010**, 10, 1401-1402	6.8	9
19	Observations of polar mesosphere summer echoes at EISCAT during summer 1991. *Radio Science*, **1995**, 30, 1219-1228	1.3	9
18	High-resolution stratospheric dynamics measurements with the NASA/JPL Goldstone Solar System Radar. *Geophysical Research Letters*, **1996**, 23, 1909-1912	4.8	8
17	Stratosphere-troposphere ozone exchange observed with the Indian MST radar and a simultaneous balloon-borne ozonesonde. *Radio Science*, **1998**, 33, 861-893	1.3	8
16	Weather Radar Network Benefit Model for Tornadoes. *Journal of Applied Meteorology and Climatology*, **2019**, 58, 971-987	2.6	6
15	Trace gas study accumulates forty million frequent-flyer miles for science. *Eos*, **1999**, 80, 377	1.2	6
14	Cupri observations of PMSE during Salvo C of NLC-91: Evidence of a depressed mesopause temperature. *Geophysical Research Letters*, **1993**, 20, 2295-2298	4.8	6
13	A Neural Network Approach for Waveform Generation and Selection with Multi-Mission Radar **2019** ,		6
12	Isentropic scaling analysis of ozone in the upper troposphere and lower stratosphere. *Journal of Geophysical Research*, **2001**, 106, 10023-10038		4
11	A New Radio Frequency Interference Filter for Weather Radars. *Journal of Atmospheric and Oceanic Technology*, **2017**, 34, 1393-1406	1.9	3
10	Quantification of radar QPE performance based on SENSR network design possibilities **2018**,		2
9	Towards the Next Generation Operational Meteorological Radar. *Bulletin of the American Meteorological Society*, **2021**, 102, E1357-E1383	5.2	2
8	A new spatial interferometry capability using the Arecibo 430-MHz radar. *Radio Science*, **1997**, 32, 749-755	3	2
7	Weather Radar Network Benefit Model for Flash Flood Casualty Reduction. *Journal of Applied Meteorology and Climatology*, **2020**, 59, 589-604	2.6	2
6	Enhanced Signal Processing Algorithms for the ASR-9 Weather Systems Processor. *Journal of Atmospheric and Oceanic Technology*, **2015**, 32, 1847-1859	1.9	1

5	Terminal Doppler Weather Radar enhancements **2010**,		1
4	Weather Radar Network Benefit Model for Nontornadic Thunderstorm Wind Casualty Cost Reduction. *Weather, Climate, and Society*, **2020**, 12, 789-804	2.2	1
3	Geospatial QPE Accuracy Dependence on Weather Radar Network Configurations. *Journal of Applied Meteorology and Climatology*, **2020**, 59, 1773-1792	2.6	1
2	The Need for Spectrum and the Impact on Weather Observations. *Bulletin of the American Meteorological Society*, **2021**, 102, E1402-E1407	5.2	
1	Progressive posthE3morrhagische Ventrikelerweiterung des FrE3geborenen Inzidenz, Prognose und Therapie. *Monatsschrift Fur Kinderheilkunde*, **2000**, 148, 1072-1077	0.2	