

# Yee Hui Lee

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

133  
papers

1,379  
citations

20  
h-index

31  
g-index

195  
ext. papers

1,883  
ext. citations

3.9  
avg, IF

5.06  
L-index

#	Paper	IF	Citations
133	Air quality in the New Delhi metropolis under COVID-19 lockdown <b>2022</b> , 4, 200035		0
132	Evaluating the Reliability of Air Temperature From ERA5 Reanalysis Data. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2022</b> , 19, 1-5	4.1	2
131	Tree Roots Reconstruction Framework for Accurate Positioning in Heterogeneous Soil. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2022</b> , 15, 1912-1925	4.7	0
130	DMRF-UNet: A Two-Stage Deep Learning Scheme for GPR Data Inversion under Heterogeneous Soil Conditions. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2022</b> , 1-1	4.9	0
129	Estimating Ground-level Nitrogen Dioxide Concentration from Satellite Data <b>2021</b> ,		1
128	Efficient Forecasting of Precipitation Using LSTM <b>2021</b> ,		2
127	Predicting Ground-based PM2.5 Concentration in Queensland, Australia <b>2021</b> ,		2
126	Rainfall Forecasting Using GPS Derived Atmospheric Gradient and Residual for Tropical Region. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2021</b> , 1-1	8.1	0
125	Estimating Parameters of the Tree Root in Heterogeneous Soil Environments via Mask-Guided Multi-Polarimetric Integration Neural Network. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2021</b> , 1-1	8.1	
124	Impact of Covid19-Induced Lockdown on Air Quality in Ireland <b>2021</b> ,		4
123	Chemically Room Temperature Crosslinked Polyvinyl Alcohol (PVA) with Anomalous Microwave Absorption Characteristics. <i>Macromolecular Rapid Communications</i> , <b>2021</b> , 42, e2000763	4.8	2
122	The Orientation Estimation of Elongated Underground Objects via Multipolarization Aggregation and Selection Neural Network. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2021</b> , 1-5	4.1	6
121	Dual-Cross-Polarized GPR Measurement Method for Detection and Orientation Estimation of Shallowly Buried Elongated Object. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 1-1	5.2	3
120	Compact Dual-Polarized Vivaldi Antenna with High Gain and High Polarization Purity for GPR Applications. <i>Sensors</i> , <b>2021</b> , 21,	3.8	3
119	An Interoperable Open Data Portal for Climate Analysis <b>2021</b> ,		3
118	Suppression of Cross-Band Scattering in Interleaved Dual-Band Cellular Base-Station Antenna Arrays. <i>IEEE Access</i> , <b>2020</b> , 8, 222486-222495	3.5	16
117	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2020</b> , 1-10	6.1	3

116	CloudSegNet: A Deep Network for Nychthemeron Cloud Image Segmentation. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2019</b> , 16, 1814-1818	4.1	24
115	A Data-Driven Approach for Accurate Rainfall Prediction. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2019</b> , 57, 9323-9331	8.1	35
114	High-Resolution ITU-R Cloud Attenuation Model for Satellite Communications in Tropical Region. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2019</b> , 67, 6115-6122	4.9	6
113	Estimating solar irradiance using sky imagers. <i>Atmospheric Measurement Techniques</i> , <b>2019</b> , 12, 5417-5429	4	5
112	GPS Slant Path Residuals for Rainfall Detection <b>2019</b> ,		1
111	Predicting GPS-based PWV Measurements Using Exponential Smoothing <b>2019</b> ,		3
110	A V2X Communication System Test on Sea <b>2019</b> ,		1
109	GPS-PWV based Improved Long-Term Rainfall Prediction Algorithm for Tropical Regions. <i>Remote Sensing</i> , <b>2019</b> , 11, 2643	5	7
108	A Chaotic Approach on Solar Irradiance Forecasting <b>2019</b> ,		3
107	Multi-label Cloud Segmentation Using a Deep Network <b>2019</b> ,		6
106	GPS-Derived PWV for Rainfall Nowcasting in Tropical Region. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2018</b> , 56, 4835-4844	8.1	28
105	Characterization of S-Band Dual-Polarized Radar Data for the Convective Rain Melting Layer Detection in A Tropical Region. <i>Remote Sensing</i> , <b>2018</b> , 10, 1740	5	2
104	A Data-Driven Approach to Detect Precipitation from Meteorological Sensor Data <b>2018</b> ,		5
103	On the Importance of PWV in Detecting Precipitation <b>2018</b> ,		2
102	Systematic Study of Weather Variables for Rainfall Detection <b>2018</b> ,		13
101	High-dynamic-range imaging for cloud segmentation. <i>Atmospheric Measurement Techniques</i> , <b>2018</b> , 11, 2041-2049	4	5
100	Color-Based Segmentation of Sky/Cloud Images From Ground-Based Cameras. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2017</b> , 10, 231-242	4.7	58
99	Ferrite Coating Design for Near-Ground HF Bowtie Antenna. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2017</b> , 65, 2074-2078	4.9	3

98	Statistical Study of Cloud Attenuation on Ka-Band Satellite Signal in Tropical Region. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2017</b> , 16, 2018-2021	3.8	4
97	Rough-Set-Based Color Channel Selection. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2017</b> , 14, 52-56	4.1	18
96	<b>2017</b> ,		1
95	<b>2017</b> ,		7
94	Correlating satellite cloud cover with sky cameras <b>2017</b> ,		3
93	GPS derived PWV for monitoring cloud evolution <b>2017</b> ,		1
92	Bitstream-Oriented Protection for the H.264/Scalable Video Coding (SVC). <i>Wireless Personal Communications</i> , <b>2017</b> , 97, 5115-5135	1.9	2
91	A Simplified Model for the Retrieval of Precipitable Water Vapor From GPS Signal. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2017</b> , 55, 6245-6253	8.1	14
90	Cloud radiative effect study using sky camera <b>2017</b> ,		3
89	Stereoscopic cloud base reconstruction using high-resolution whole sky imagers <b>2017</b> ,		3
88	Nighttime sky/cloud image segmentation <b>2017</b> ,		12
87	Correlation between cloud optical thickness and solar radiation <b>2016</b> ,		1
86	GPS derived PWV for rainfall monitoring <b>2016</b> ,		13
85	Estimation of solar irradiance using ground-based whole sky imagers <b>2016</b> ,		11
84	Investigation of cloud attenuation on Ka-band satellite beacon signal in tropical region <b>2016</b> ,		2
83	. <i>IEEE Geoscience and Remote Sensing Magazine</i> , <b>2016</b> , 4, 79-93	8.9	44
82	DESIGN OF A COMPACT PATCH ANTENNA LOADING PERIODIC JERUSALEM CROSSES. <i>Progress in Electromagnetics Research M</i> , <b>2016</b> , 47, 151-159	0.6	0
81	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2016</b> , 54, 5875-5883	8.1	7

80	Weather radar to detect cloud occurrence level <b>2016</b> ,		1
79	Detecting rainfall onset using Sky Images <b>2016</b> ,		5
78	Geo-referencing and stereo calibration of ground-based Whole Sky Imagers using the sun trajectory <b>2016</b> ,		4
77	<b>2016</b> ,		7
76	Use of weather radar rain cell motion forecasting for site diversity system <b>2016</b> ,		1
75	Outage-Constrained Sensing Threshold Design for Decentralized Decision-Making in Cognitive Radio Networks. <i>IEEE Transactions on Communications</i> , <b>2016</b> , 64, 4956-4965	6.9	2
74	A Spectrum Trading Scheme for Licensed User Incentives. <i>IEEE Transactions on Communications</i> , <b>2015</b> , 63, 4026-4036	6.9	12
73	Radar measured rain attenuation with proposed Z <sub>R</sub> relationship at a tropical location. <i>AEU - International Journal of Electronics and Communications</i> , <b>2015</b> , 69, 458-461	2.8	7
72	Mean weighted temperature for PWV estimation <b>2015</b> ,		3
71	Categorization of cloud image patches using an improved texton-based approach <b>2015</b> ,		25
70	Site diversity gain at the equator: radar-derived results modeling in Singapore. <i>International Journal of Satellite Communications and Networking</i> , <b>2015</b> , 33, 107-118	1.7	8
69	QoS provisioning by power control for video communication via satellite links. <i>International Journal of Satellite Communications and Networking</i> , <b>2015</b> , 33, 259-275	1.7	6
68	Key Considerations in the Modeling of Tropical Maritime Microwave Attenuations. <i>International Journal of Antennas and Propagation</i> , <b>2015</b> , 2015, 1-7	1.2	9
67	Impact of cloud effective temperature on cloud attenuation in tropical region <b>2015</b> ,		1
66	Detection of cloud vertical structure using water vapor pressure in tropical region <b>2015</b> ,		1
65	<b>2015</b> ,		10
64	<b>2015</b> ,		23
63	Multi-level semantic labeling of Sky/cloud images <b>2015</b> ,		14

62	Cloud attenuation on Ka-band satellite link in the tropical region: Preliminary results and analysis <b>2014</b> ,		3
61	Comparison of radio-sounding profiles for cloud attenuation analysis in the tropical region <b>2014</b> ,		14
60	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2014</b> , 52, 6999-7007	8.1	10
59	WAHRISIS: A low-cost high-resolution whole sky imager with near-infrared capabilities <b>2014</b> ,		8
58	Systematic study of color spaces and components for the segmentation of sky/cloud images <b>2014</b> ,		19
57	Comparison of cloud models for propagation studies in Ka-band satellite applications <b>2014</b> ,		9
56	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2014</b> , 62, 5775-5781	4.9	34
55	Protecting Satellite Systems from Disassociation DoS Attacks. <i>Wireless Personal Communications</i> , <b>2013</b> , 69, 623-638	1.9	1
54	UHF Propagation Along a Cargo Hold on Board a Merchant Ship. <i>IEEE Transactions on Wireless Communications</i> , <b>2013</b> , 12, 22-30	9.6	8
53	Patch antenna enhancement using a mushroom-like EBG structures <b>2013</b> ,		3
52	Optimization of acoustic communication for industrial drilling <b>2013</b> ,		4
51	STAND-OFF DISTANCES FOR NON-LINE-OF-SIGHT MARITIME MOBILE APPLICATIONS IN 5 GHZ BAND. <i>Progress in Electromagnetics Research B</i> , <b>2013</b> , 54, 321-336	0.7	5
50	Using the spectral scaling exponent for validation of quantitative precipitation forecasts. <i>Meteorology and Atmospheric Physics</i> , <b>2012</b> , 115, 35-45	2	4
49	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2012</b> , 60, 4892-4900	4.9	9
48	Study of shadowing effect by aircraft maneuvering for air-to-ground communication. <i>AEU - International Journal of Electronics and Communications</i> , <b>2012</b> , 66, 7-11	2.8	15
47	Experiment results of a two-by-two diverse antenna system over sea surface in NLOS scenario <b>2012</b> ,		1
46	A ROBUST CAD TOOL FOR INTEGRATED DESIGN OF UWB ANTENNA SYSTEM. <i>Progress in Electromagnetics Research</i> , <b>2011</b> , 112, 441-457	3.8	4
45	TROPICAL RAIN CLASSIFICATION AND ESTIMATION OF RAIN FROM Z-R (REFLECTIVITY-RAIN RATE) RELATIONSHIPS. <i>Progress in Electromagnetics Research B</i> , <b>2011</b> , 32, 107-127	0.7	26

44	Measurements and Characterizations of Air-to-Ground Channel Over Sea Surface at C-Band With Low Airborne Altitudes. <i>IEEE Transactions on Vehicular Technology</i> , <b>2011</b> , 60, 1943-1948	6.8	55
43	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2011</b> , 49, 3371-3380	8.1	20
42	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2011</b> , 59, 3890-3898	4.9	34
41	Effects of Rain Attenuation on Satellite Video Transmission <b>2011</b> ,		7
40	Performance of a Relay System for Two Extreme Ends of a Vessel at 2.4 GHz. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2011</b> , 10, 686-689	3.8	
39	SHAPE SLOPE PARAMETER DISTRIBUTION MODELLING OF ELECTROMAGNETIC SCATTERING BY RAIN DROPS. <i>Progress in Electromagnetics Research B</i> , <b>2010</b> , 25, 191-209	0.7	4
38	PATH LOSS MODELING FOR NEAR-GROUND VHF RADIO-WAVE PROPAGATION THROUGH FORESTS WITH TREE-CANOPY REFLECTION EFFECT. <i>Progress in Electromagnetics Research M</i> , <b>2010</b> , 12, 131-141	0.6	19
37	INVESTIGATIONS OF FOLIAGE EFFECT ON MODERN WIRELESS COMMUNICATION SYSTEMS: A REVIEW. <i>Progress in Electromagnetics Research</i> , <b>2010</b> , 105, 313-332	3.8	61
36	AN AUTOMATIC MODEL ORDER REDUCTION OF A UWB ANTENNA SYSTEM. <i>Progress in Electromagnetics Research</i> , <b>2010</b> , 104, 267-282	3.8	1
35	Protecting satellite networks from disassociation DoS attacks <b>2010</b> ,		1
34	Propagation Modes and Temporal Variations Along a Lift Shaft in UHF Band. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2010</b> , 58, 2700-2709	4.9	11
33	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2010</b> , 58, 1325-1335	4.9	33
32	Statistical Modeling of Signal Variation for Propagation Along a Lift Shaft. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2010</b> , 9, 752-755	3.8	13
31	<b>2010</b> ,		1
30	Susceptibility of an Electromagnetic BandGap Filter. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2010</b> , 52, 599-603	2	5
29	Fast and accurate calculation of transmission coefficients for an EBG microstrip structure. <i>Microwave and Optical Technology Letters</i> , <b>2010</b> , 52, 793-797	1.2	
28	Conversion model of one-minute rainfall rate distribution in Singapore <b>2009</b> ,		2
27	Study of propagation along a lift shaft in UHF band by channel measurements and 3-D simulation <b>2009</b> ,		1

26	An analytical method to study the effects of a substrate in surface-enhanced Raman scattering. <i>Journal of Applied Physics</i> , <b>2009</b> , 106, 114306	2.5	4
25	A Compact E-Shaped Patterned Ground Structure and Its Applications to Tunable Bandstop Resonator. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2009</b> , 57, 657-666	4.1	42
24	The Effects of Tropical Weather on Radio-Wave Propagation Over Foliage Channel. <i>IEEE Transactions on Vehicular Technology</i> , <b>2009</b> , 58, 4023-4030	6.8	25
23	Empirical Near Ground Path Loss Modeling in a Forest at VHF and UHF Bands. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2009</b> , 57, 1461-1468	4.9	83
22	Study of the diversity reception in a forested environment. <i>IEEE Transactions on Wireless Communications</i> , <b>2009</b> , 8, 2302-2305	9.6	2
21	Practical wideband channel sounding system for air-to-ground measurements at C Band <b>2009</b> ,		4
20	STUDY OF PROPAGATION LOSS PREDICTION IN FOREST ENVIRONMENT. <i>Progress in Electromagnetics Research B</i> , <b>2009</b> , 17, 117-133	0.7	47
19	FURTHER STUDY OF RAINFALL EFFECT ON VHF FORESTED RADIO-WAVE PROPAGATION WITH FOUR-LAYERED MODEL. <i>Progress in Electromagnetics Research</i> , <b>2009</b> , 99, 149-161	3.8	16
18	ELECTROMAGNETIC SUSCEPTIBILITY OF AN ELECTROMAGNETIC BAND-GAP FILTER STRUCTURE. <i>Progress in Electromagnetics Research B</i> , <b>2009</b> , 15, 31-56	0.7	1
17	Investigation of Low Altitude Air-to-Ground Channel over a Tropical Sea Surface at C Band. <i>Progress in Electromagnetics Research Symposium: [proceedings] Progress in Electromagnetics Research Symposium</i> , <b>2009</b> , 5, 385-388		4
16	Characterization of Wi-Fi antenna system on a remote controlled helicopter <b>2008</b> ,		1
15	Investigation of Rainfall Effect on Forested Radio Wave Propagation. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2008</b> , 7, 159-162	3.8	13
14	Compact stepped-impedance lowpass filter with a slot-back microstrip line. <i>Microwave and Optical Technology Letters</i> , <b>2008</b> , 50, 1058-1061	1.2	6
13	A Modified Model-Based Interpolation Method to Accelerate the Characterization of UWB Antenna System. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2007</b> , 55, 475-479	4.9	2
12	Wind and rain influences on forested radiowave propagation <b>2007</b> ,		2
11	The role of particular rain drop size on rain attenuation at 11 GHz <b>2007</b> ,		3
10	Measurement and Characterization of a Tropical Foliage Channel in VHF and UHF Bands <b>2006</b> ,		3
9	Electromagnetic compatibility of a dual-planar electromagnetic band-gap microstrip filter structure <b>2006</b> ,		3



8	Optimization of design and fabrication for micromachined true time delay (TTD) phase shifters. <i>Sensors and Actuators A: Physical</i> , <b>2005</b> , 119, 446-454	3.9	10
7	Tapered dual-plane compact electromagnetic bandgap microstrip filter structures. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2005</b> , 53, 2656-2664	4.1	52
6	Compact U-shaped dual planar EBG microstrip low-pass filter. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2005</b> , 53, 3799-3805	4.1	21
5	A tapered small-size EBG microstrip bandstop filter design with triple EBG structures. <i>Microwave and Optical Technology Letters</i> , <b>2005</b> , 46, 154-158	1.2	12
4	A NOVEL EVOLUTIONARY LEARNING TECHNIQUE FOR MULTI-OBJECTIVE ARRAY ANTENNA OPTIMIZATION. <i>Progress in Electromagnetics Research</i> , <b>2004</b> , 48, 125-144	3.8	11
3	NEAR FIELD AND SURFACE FIELD ANALYSIS OF THIN WIRE ANTENNA IN THE PRESENCE OF CONDUCTING CUBE. <i>Progress in Electromagnetics Research</i> , <b>2004</b> , 45, 313-333	3.8	1
2	Accelerating Numerical Electromagnetic Code computation by using the wavelet transform. <i>IEEE Transactions on Magnetics</i> , <b>1998</b> , 34, 3399-3402	2	5
1	Performance evaluation of back-projection and range migration algorithms in foliage penetration radar imaging		2