

Yee Hui Lee

List of Publications by Citations

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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	Empirical Near Ground Path Loss Modeling in a Forest at VHF and UHF Bands. <i>IEEE Transactions on Antennas and Propagation</i> , 2009 , 57, 1461-1468	4.9	83
132	INVESTIGATIONS OF FOLIAGE EFFECT ON MODERN WIRELESS COMMUNICATION SYSTEMS: A REVIEW. <i>Progress in Electromagnetics Research</i> , 2010 , 105, 313-332	3.8	61
131	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> , 2017 , 10, 231-242	4.7	58
130	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> , 2011 , 60, 1943-1948	6.8	55
129	Tapered dual-plane compact electromagnetic bandgap microstrip filter structures. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2005 , 53, 2656-2664	4.1	52
128	STUDY OF PROPAGATION LOSS PREDICTION IN FOREST ENVIRONMENT. <i>Progress in Electromagnetics Research B</i> , 2009 , 17, 117-133	0.7	47
127	. <i>IEEE Geoscience and Remote Sensing Magazine</i> , 2016 , 4, 79-93	8.9	44
126	A Compact E-Shaped Patterned Ground Structure and Its Applications to Tunable Bandstop Resonator. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2009 , 57, 657-666	4.1	42
125	A Data-Driven Approach for Accurate Rainfall Prediction. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019 , 57, 9323-9331	8.1	35
124	. <i>IEEE Transactions on Antennas and Propagation</i> , 2014 , 62, 5775-5781	4.9	34
123	. <i>IEEE Transactions on Antennas and Propagation</i> , 2011 , 59, 3890-3898	4.9	34
122	. <i>IEEE Transactions on Antennas and Propagation</i> , 2010 , 58, 1325-1335	4.9	33
121	GPS-Derived PWV for Rainfall Nowcasting in Tropical Region. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2018 , 56, 4835-4844	8.1	28
120	TROPICAL RAIN CLASSIFICATION AND ESTIMATION OF RAIN FROM Z-R (REFLECTIVITY-RAIN RATE) RELATIONSHIPS. <i>Progress in Electromagnetics Research B</i> , 2011 , 32, 107-127	0.7	26
119	Categorization of cloud image patches using an improved texton-based approach 2015 ,		25
118	The Effects of Tropical Weather on Radio-Wave Propagation Over Foliage Channel. <i>IEEE Transactions on Vehicular Technology</i> , 2009 , 58, 4023-4030	6.8	25
117	CloudSegNet: A Deep Network for Nychthemeron Cloud Image Segmentation. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2019 , 16, 1814-1818	4.1	24

116	2015,			23
115	Compact U-shaped dual planar EBG microstrip low-pass filter. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2005 , 53, 3799-3805	4.1		21
114	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2011 , 49, 3371-3380	8.1		20
113	Systematic study of color spaces and components for the segmentation of sky/cloud images 2014,			19
112	PATH LOSS MODELING FOR NEAR-GROUND VHF RADIO-WAVE PROPAGATION THROUGH FORESTS WITH TREE-CANOPY REFLECTION EFFECT. <i>Progress in Electromagnetics Research M</i> , 2010 , 12, 131-141	0.6		19
111	Rough-Set-Based Color Channel Selection. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2017 , 14, 52-56	4.1		18
110	Suppression of Cross-Band Scattering in Interleaved Dual-Band Cellular Base-Station Antenna Arrays. <i>IEEE Access</i> , 2020 , 8, 222486-222495	3.5		16
109	FURTHER STUDY OF RAINFALL EFFECT ON VHF FORESTED RADIO-WAVE PROPAGATION WITH FOUR-LAYERED MODEL. <i>Progress in Electromagnetics Research</i> , 2009 , 99, 149-161	3.8		16
108	Study of shadowing effect by aircraft maneuvering for air-to-ground communication. <i>AEU - International Journal of Electronics and Communications</i> , 2012 , 66, 7-11	2.8		15
107	Comparison of radio-sounding profiles for cloud attenuation analysis in the tropical region 2014,			14
106	A Simplified Model for the Retrieval of Precipitable Water Vapor From GPS Signal. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2017 , 55, 6245-6253	8.1		14
105	Multi-level semantic labeling of Sky/cloud images 2015,			14
104	GPS derived PWV for rainfall monitoring 2016,			13
103	Statistical Modeling of Signal Variation for Propagation Along a Lift Shaft. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2010 , 9, 752-755	3.8		13
102	Investigation of Rainfall Effect on Forested Radio Wave Propagation. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2008 , 7, 159-162	3.8		13
101	Systematic Study of Weather Variables for Rainfall Detection 2018,			13
100	A Spectrum Trading Scheme for Licensed User Incentives. <i>IEEE Transactions on Communications</i> , 2015 , 63, 4026-4036	6.9		12
99	Nighttime sky/cloud image segmentation 2017,			12

98	A tapered small-size EBG microstrip bandstop filter design with triple EBG structures. <i>Microwave and Optical Technology Letters</i> , 2005 , 46, 154-158	1.2	12
97	Estimation of solar irradiance using ground-based whole sky imagers 2016 ,		11
96	Propagation Modes and Temporal Variations Along a Lift Shaft in UHF Band. <i>IEEE Transactions on Antennas and Propagation</i> , 2010 , 58, 2700-2709	4.9	11
95	A NOVEL EVOLUTIONARY LEARNING TECHNIQUE FOR MULTI-OBJECTIVE ARRAY ANTENNA OPTIMIZATION. <i>Progress in Electromagnetics Research</i> , 2004 , 48, 125-144	3.8	11
94	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2014 , 52, 6999-7007	8.1	10
93	2015 ,		10
92	Optimization of design and fabrication for micromachined true time delay (TTD) phase shifters. <i>Sensors and Actuators A: Physical</i> , 2005 , 119, 446-454	3.9	10
91	Key Considerations in the Modeling of Tropical Maritime Microwave Attenuations. <i>International Journal of Antennas and Propagation</i> , 2015 , 2015, 1-7	1.2	9
90	Comparison of cloud models for propagation studies in Ka-band satellite applications 2014 ,		9
89	. <i>IEEE Transactions on Antennas and Propagation</i> , 2012 , 60, 4892-4900	4.9	9
88	UHF Propagation Along a Cargo Hold on Board a Merchant Ship. <i>IEEE Transactions on Wireless Communications</i> , 2013 , 12, 22-30	9.6	8
87	Site diversity gain at the equator: radar-derived results modeling in Singapore. <i>International Journal of Satellite Communications and Networking</i> , 2015 , 33, 107-118	1.7	8
86	WAHRISIS: A low-cost high-resolution whole sky imager with near-infrared capabilities 2014 ,		8
85	Radar measured rain attenuation with proposed Z _R relationship at a tropical location. <i>AEU - International Journal of Electronics and Communications</i> , 2015 , 69, 458-461	2.8	7
84	2017 ,		7
83	Effects of Rain Attenuation on Satellite Video Transmission 2011 ,		7
82	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2016 , 54, 5875-5883	8.1	7
81	2016 ,		7

80	GPS-PWV based Improved Long-Term Rainfall Prediction Algorithm for Tropical Regions. <i>Remote Sensing</i> , 2019 , 11, 2643	5	7
79	High-Resolution ITU-R Cloud Attenuation Model for Satellite Communications in Tropical Region. <i>IEEE Transactions on Antennas and Propagation</i> , 2019 , 67, 6115-6122	4.9	6
78	QoS provisioning by power control for video communication via satellite links. <i>International Journal of Satellite Communications and Networking</i> , 2015 , 33, 259-275	1.7	6
77	Compact stepped-impedance lowpass filter with a slot-back microstrip line. <i>Microwave and Optical Technology Letters</i> , 2008 , 50, 1058-1061	1.2	6
76	Multi-label Cloud Segmentation Using a Deep Network 2019 ,		6
75	The Orientation Estimation of Elongated Underground Objects via Multipolarization Aggregation and Selection Neural Network. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2021 , 1-5	4.1	6
74	Estimating solar irradiance using sky imagers. <i>Atmospheric Measurement Techniques</i> , 2019 , 12, 5417-5429	4	5
73	STAND-OFF DISTANCES FOR NON-LINE-OF-SIGHT MARITIME MOBILE APPLICATIONS IN 5 GHZ BAND. <i>Progress in Electromagnetics Research B</i> , 2013 , 54, 321-336	0.7	5
72	Susceptibility of an Electromagnetic BandGap Filter. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2010 , 52, 599-603	2	5
71	Accelerating Numerical Electromagnetic Code computation by using the wavelet transform. <i>IEEE Transactions on Magnetics</i> , 1998 , 34, 3399-3402	2	5
70	Detecting rainfall onset using Sky Images 2016 ,		5
69	A Data-Driven Approach to Detect Precipitation from Meteorological Sensor Data 2018 ,		5
68	High-dynamic-range imaging for cloud segmentation. <i>Atmospheric Measurement Techniques</i> , 2018 , 11, 2041-2049	4	5
67	Statistical Study of Cloud Attenuation on Ka-Band Satellite Signal in Tropical Region. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2017 , 16, 2018-2021	3.8	4
66	Using the spectral scaling exponent for validation of quantitative precipitation forecasts. <i>Meteorology and Atmospheric Physics</i> , 2012 , 115, 35-45	2	4
65	Optimization of acoustic communication for industrial drilling 2013 ,		4
64	A ROBUST CAD TOOL FOR INTEGRATED DESIGN OF UWB ANTENNA SYSTEM. <i>Progress in Electromagnetics Research</i> , 2011 , 112, 441-457	3.8	4
63	SHAPE SLOPE PARAMETER DISTRIBUTION MODELLING OF ELECTROMAGNETIC SCATTERING BY RAIN DROPS. <i>Progress in Electromagnetics Research B</i> , 2010 , 25, 191-209	0.7	4

62	An analytical method to study the effects of a substrate in surface-enhanced Raman scattering. <i>Journal of Applied Physics</i> , 2009 , 106, 114306	2.5	4
61	Practical wideband channel sounding system for air-to-ground measurements at C Band 2009 ,		4
60	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> , 2009 , 5, 385-388		4
59	Impact of Covid19-Induced Lockdown on Air Quality in Ireland 2021 ,		4
58	Geo-referencing and stereo calibration of ground-based Whole Sky Imagers using the sun trajectory 2016 ,		4
57	Ferrite Coating Design for Near-Ground HF Bowtie Antenna. <i>IEEE Transactions on Antennas and Propagation</i> , 2017 , 65, 2074-2078	4.9	3
56	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2020 , 1-10	6.1	3
55	Correlating satellite cloud cover with sky cameras 2017 ,		3
54	Cloud attenuation on Ka-band satellite link in the tropical region: Preliminary results and analysis 2014 ,		3
53	Cloud radiative effect study using sky camera 2017 ,		3
52	Stereoscopic cloud base reconstruction using high-resolution whole sky imagers 2017 ,		3
51	Mean weighted temperature for PWV estimation 2015 ,		3
50	Patch antenna enhancement using a mushroom-like EBG structures 2013 ,		3
49	Measurement and Characterization of a Tropical Foliage Channel in VHF and UHF Bands 2006 ,		3
48	Electromagnetic compatibility of a dual-planar electromagnetic band-gap microstrip filter structure 2006 ,		3
47	The role of particular rain drop size on rain attenuation at 11 GHz 2007 ,		3
46	Predicting GPS-based PWV Measurements Using Exponential Smoothing 2019 ,		3
45	A Chaotic Approach on Solar Irradiance Forecasting 2019 ,		3

44	Dual-Cross-Polarized GPR Measurement Method for Detection and Orientation Estimation of Shallowly Buried Elongated Object. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 1-1	5.2	3
43	Compact Dual-Polarized Vivaldi Antenna with High Gain and High Polarization Purity for GPR Applications. <i>Sensors</i> , 2021 , 21,	3.8	3
42	An Interoperable Open Data Portal for Climate Analysis 2021 ,		3
41	Investigation of cloud attenuation on Ka-band satellite beacon signal in tropical region 2016 ,		2
40	Bitstream-Oriented Protection for the H.264/Scalable Video Coding (SVC). <i>Wireless Personal Communications</i> , 2017 , 97, 5115-5135	1.9	2
39	Conversion model of one-minute rainfall rate distribution in Singapore 2009 ,		2
38	Study of the diversity reception in a forested environment. <i>IEEE Transactions on Wireless Communications</i> , 2009 , 8, 2302-2305	9.6	2
37	A Modified Model-Based Interpolation Method to Accelerate the Characterization of UWB Antenna System. <i>IEEE Transactions on Antennas and Propagation</i> , 2007 , 55, 475-479	4.9	2
36	Wind and rain influences on forested radiowave propagation 2007 ,		2
35	Performance evaluation of back-projection and range migration algorithms in foliage penetration radar imaging		2
34	Efficient Forecasting of Precipitation Using LSTM 2021 ,		2
33	Predicting Ground-based PM2.5 Concentration in Queensland, Australia 2021 ,		2
32	Evaluating the Reliability of Air Temperature From ERA5 Reanalysis Data. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2022 , 19, 1-5	4.1	2
31	Chemically Room Temperature Crosslinked Polyvinyl Alcohol (PVA) with Anomalous Microwave Absorption Characteristics. <i>Macromolecular Rapid Communications</i> , 2021 , 42, e2000763	4.8	2
30	Outage-Constrained Sensing Threshold Design for Decentralized Decision-Making in Cognitive Radio Networks. <i>IEEE Transactions on Communications</i> , 2016 , 64, 4956-4965	6.9	2
29	Characterization of S-Band Dual-Polarized Radar Data for the Convective Rain Melting Layer Detection in A Tropical Region. <i>Remote Sensing</i> , 2018 , 10, 1740	5	2
28	On the Importance of PWV in Detecting Precipitation 2018 ,		2
27	2017 ,		1

26	GPS derived PWV for monitoring cloud evolution 2017 ,		1
25	Correlation between cloud optical thickness and solar radiation 2016 ,		1
24	GPS Slant Path Residuals for Rainfall Detection 2019 ,		1
23	Protecting Satellite Systems from Disassociation DoS Attacks. <i>Wireless Personal Communications</i> , 2013 , 69, 623-638	1.9	1
22	Impact of cloud effective temperature on cloud attenuation in tropical region 2015 ,		1
21	Detection of cloud vertical structure using water vapor pressure in tropical region 2015 ,		1
20	AN AUTOMATIC MODEL ORDER REDUCTION OF A UWB ANTENNA SYSTEM. <i>Progress in Electromagnetics Research</i> , 2010 , 104, 267-282	3.8	1
19	Protecting satellite networks from disassociation DoS attacks 2010 ,		1
18	2010 ,		1
17	Study of propagation along a lift shaft in UHF band by channel measurements and 3-D simulation 2009 ,		1
16	Experiment results of a two-by-two diverse antenna system over sea surface in NLOS scenario 2012 ,		1
15	Characterization of Wi-Fi antenna system on a remote controlled helicopter 2008 ,		1
14	ELECTROMAGNETIC SUSCEPTIBILITY OF AN ELECTROMAGNETIC BAND-GAP FILTER STRUCTURE. <i>Progress in Electromagnetics Research B</i> , 2009 , 15, 31-56	0.7	1
13	NEAR FIELD AND SURFACE FIELD ANALYSIS OF THIN WIRE ANTENNA IN THE PRESENCE OF CONDUCTING CUBE. <i>Progress in Electromagnetics Research</i> , 2004 , 45, 313-333	3.8	1
12	Estimating Ground-level Nitrogen Dioxide Concentration from Satellite Data 2021 ,		1
11	Weather radar to detect cloud occurrence level 2016 ,		1
10	Use of weather radar rain cell motion forecasting for site diversity system 2016 ,		1
9	A V2X Communication System Test on Sea 2019 ,		1

8	Air quality in the New Delhi metropolis under COVID-19 lockdown 2022 , 4, 200035		o
7	Rainfall Forecasting Using GPS Derived Atmospheric Gradient and Residual for Tropical Region. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021 , 1-1	8.1	o
6	DESIGN OF A COMPACT PATCH ANTENNA LOADING PERIODIC JERUSALEM CROSSES. <i>Progress in Electromagnetics Research M</i> , 2016 , 47, 151-159	0.6	o
5	Tree Roots Reconstruction Framework for Accurate Positioning in Heterogeneous Soil. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2022 , 15, 1912-1925	4.7	o
4	DMRF-UNet: A Two-Stage Deep Learning Scheme for GPR Data Inversion under Heterogeneous Soil Conditions. <i>IEEE Transactions on Antennas and Propagation</i> , 2022 , 1-1	4.9	o
3	Performance of a Relay System for Two Extreme Ends of a Vessel at 2.4 GHz. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2011 , 10, 686-689	3.8	
2	Fast and accurate calculation of transmission coefficients for an EBG microstrip structure. <i>Microwave and Optical Technology Letters</i> , 2010 , 52, 793-797	1.2	
1	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> , 2021 , 1-1	8.1	