

Ling Tong

List of Publications by Year in descending order

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153
papers

618
citations

687363

13
h-index

713466

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153
all docs

153
docs citations

153
times ranked

670
citing authors

#	ARTICLE	IF	CITATIONS
1	Automatic power line extraction from high resolution remote sensing imagery based on an improved Radon transform. <i>Pattern Recognition</i> , 2016, 49, 174-186.	8.1	53
2	Road Segmentation of Unmanned Aerial Vehicle Remote Sensing Images Using Adversarial Network With Multiscale Context Aggregation. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2019, 12, 2279-2287.	4.9	38
3	Multitemporal radar backscattering measurement of wheat fields using multifrequency (L, S, C, and X) and full-polarization. <i>Radio Science</i> , 2013, 48, 471-481.	1.6	37
4	A Multi-Region Segmentation Method for SAR Images Based on the Multi-Texture Model With Level Sets. <i>IEEE Transactions on Image Processing</i> , 2018, 27, 2560-2574.	9.8	37
5	Rice biomass retrieval from multitemporal ground-based scatterometer data and RADARSAT-2 images using neural networks. <i>Journal of Applied Remote Sensing</i> , 2013, 7, 073509.	1.3	30
6	New Methods in Multibaseline Polarimetric SAR Interferometry Coherence Optimization. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2015, 12, 2016-2020.	3.1	25
7	Road Extraction from Unmanned Aerial Vehicle Remote Sensing Images Based on Improved Neural Networks. <i>Sensors</i> , 2019, 19, 4115.	3.8	22
8	DESIGN OF A MICROSTRIP-FED HEXAGONAL SHAPE UWB ANTENNA WITH TRIPLE NOTCHED BANDS. <i>Progress in Electromagnetics Research C</i> , 2016, 62, 77-87.	0.9	17
9	Landslides identification based on polarimetric decomposition techniques using Radarsat-2 polarimetric images. <i>International Journal of Remote Sensing</i> , 2016, 37, 2831-2843.	2.9	17
10	IMPEDANCE MEASUREMENTS OF NONUNIFORM TRANSMISSION LINES IN TIME DOMAIN USING AN IMPROVED RECURSIVE MULTIPLE REFLECTION COMPUTATION METHOD. <i>Progress in Electromagnetics Research</i> , 2011, 117, 149-164.	4.4	14
11	Estimation of High-Resolution Daily Ground-Level PM2.5 Concentration in Beijing 2013-2017 Using 1 km MAIAC AOT Data. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 2624.	2.5	14
12	MEASUREMENTS OF PLANAR MICROWAVE CIRCUITS USING AN IMPROVED TRL CALIBRATION METHOD. <i>Progress in Electromagnetics Research</i> , 2010, 109, 263-278.	4.4	13
13	Rice Biomass Estimation Using Radar Backscattering Data at S-band. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2014, 7, 469-479.	4.9	13
14	A New Air Pollution Source Identification Method Based on Remotely Sensed Aerosol and Improved Glowworm Swarm Optimization. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2017, 10, 3454-3464.	4.9	13
15	A Method for Road Network Extraction from High-Resolution SAR Imagery Using Direction Grouping and Curve Fitting. <i>Remote Sensing</i> , 2019, 11, 2733.	4.0	13
16	A SAR Image Classification Algorithm Based on Multi-Feature Polarimetric Parameters Using FOA and LS-SVM. <i>IEEE Access</i> , 2019, 7, 175259-175276.	4.2	12
17	Rice biomass retrieval from advanced synthetic aperture radar image based on radar backscattering measurement. <i>Journal of Applied Remote Sensing</i> , 2015, 9, 097091.	1.3	11
18	Revised Improved DINSAR Algorithm for Monitoring the Inclination Displacement of Top Position of Electric Power Transmission Tower. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2018, 15, 877-881.	3.1	11

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19	Multi-temporal radar backscattering measurements and modelling of rice fields using a multi-frequency (L, S, C, and X) scatterometer. <i>International Journal of Remote Sensing</i> , 2014, 35, 1253-1271.	2.9	10
20	Improved SNR Optimum Method in POLDINSAR Coherence Optimization. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2016, 13, 982-986.	3.1	9
21	Satellite-Based Estimation of Daily Ground-Level PM2.5 Concentrations over Urban Agglomeration of Chengdu Plain. <i>Atmosphere</i> , 2019, 10, 245.	2.3	8
22	An Improved Fuzzy Region Competition-Based Framework for the Multiphase Segmentation of SAR Images. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020, 58, 2457-2470.	6.3	8
23	Design and application of sink node for wireless sensor network. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , 2013, 32, 531-544.	0.9	7
24	Backscattering modeling of wheat using vector radiative transfer theory. <i>Journal of Applied Remote Sensing</i> , 2015, 9, 097093.	1.3	6
25	Road detection in high-resolution SAR images using Duda and path operators. , 2016, , .		6
26	Remote sensing retrieval of suspended solids in Longquan Lake based on GA-SVM model. , 2017, , .		6
27	Unsupervised Multiregion Partitioning of Fully Polarimetric SAR Images With Advanced Fuzzy Active Contours. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020, 58, 1475-1486.	6.3	6
28	Synthesis of Multiwalled Carbon Nanotubes on Stainless Steel by Atmospheric Pressure Microwave Plasma Chemical Vapor Deposition. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4468.	2.5	6
29	Symmetry Based Two-Dimensional Principal Component Analysis for Face Recognition. <i>Lecture Notes in Computer Science</i> , 2007, , 1048-1055.	1.3	6
30	Multifrequency and multitemporal ground-based scatterometers measurements on rice fields. , 2012, , .		5
31	Bidirectional Reflectance for Multiple Snow-Covered Land Types From MISR Products. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2012, 9, 994-998.	3.1	5
32	Determining the complex permittivity of powder materials from l-40GHz using transmission-line technique. , 2013, , .		5
33	Estimating ground-level PM2.5 concentration using Landsat 8 in Chengdu, China. <i>Proceedings of SPIE</i> , 2014, , .	0.8	5
34	Polarimetric analysis of radar backscatter from ground-based scatterometers and wheat biomass monitoring with advanced synthetic aperture radar images. <i>Journal of Applied Remote Sensing</i> , 2016, 10, 026008.	1.3	5
35	Super-Resolution Reconstruction of Multi-Polarization Sar Images Based on Projections Onto Convex Sets Algorithm. , 2018, , .		5
36	Remote Sensing Inversion of Water Quality Parameters in Longquan Lake Based on PSO-SVR Algorithm. , 2018, , .		5

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37	An eye diagram parameters measurement method based on K-means clustering algorithm. , 2019, , .		5
38	New Network Based on D-Linknet and Densenet for High Resolution Satellite Imagery Road Extraction. , 2019, , .		5
39	Road Material Information Extraction Based on Multi-Feature Fusion of Remote Sensing Image. , 2019, , .		5
40	The study of road damage detection based on high-resolution SAR image. , 2013, , .		4
41	DIRECTIONAL COUPLER USING MULTI-STAGE COUPLED STRUCTURE THEORY. Progress in Electromagnetics Research C, 2013, 45, 113-123.	0.9	4
42	Influence of Row Wheat on Radar Backscatter for Azimuthal Look Angles at L-, S-, C-, and X-Bands. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 811-815.	3.1	4
43	A LS-SVM-based classifier with Fruit Fly Optimization Algorithm for polarimetric SAR images. , 2016, , .		4
44	A study on vegetation cover extraction using a Wishart H- $\hat{\pm}$ classifier based on fully polarimetric Radarsat-2 data. International Journal of Remote Sensing, 2016, 37, 2844-2859.	2.9	4
45	Direct Growth of Carbon Nanotubes on Aluminum Foil by Atmospheric Pressure Microwave Plasma Chemical Vapor Deposition. Processes, 2021, 9, 36.	2.8	4
46	Novel hybrid analysis method for via structure in microwave multilayer circuits. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2011, 24, 590-600.	1.9	3
47	GIS-based city noise mapping research and development. , 2012, , .		3
48	Flat earth removal and baseline estimation based on orbit parameters using Radarsat-2 image. , 2013, , .		3
49	Spatial scale conversion approach for moderate-resolution imaging spectroradiometer leaf area index product validation. Journal of Applied Remote Sensing, 2013, 7, 073463.	1.3	3
50	Study of Shielding Properties of a Rectangular Enclosure with Apertures Having Different Shapes but Same Area Using Modal Method of Moments. Research Journal of Applied Sciences, Engineering and Technology, 2013, 5, 680-688.	0.1	3
51	Road Segmentation of UAV RS Image Using Adversarial Network with Multi-Scale Context Aggregation. , 2018, , .		3
52	An Analysis of Characteristics of Coplanar Transmission Lines with Finite Conductivity and Finite Strip Thickness by the Method of Lines. Journal of Infrared, Millimeter, and Terahertz Waves, 2009, 30, 792-801.	2.2	2
53	An improved method for TRL calibration. , 2010, , .		2
54	The method for soil moisture inversion based on ground-based scattering measurement. , 2011, , .		2

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55	Multi-temporal radar backscattering measurement of wheat fields and their relationship with biological variables. , 2012, , .		2
56	Parallel implementation of MPI-based SAR image soil moisture inversion. , 2013, , .		2
57	Road damage information extraction using high-resolution SAR imagery. , 2014, , .		2
58	Aerosol Retrieval over Urban Area by Synergistic Use of Feng Yun-3C MERSI and Terra MODIS Data. , 2015, , .		2
59	Air Pollution Sources Identification Precisely Based on Remotely Sensed Aerosol and Glowworm Swarm Optimization. , 2015, , .		2
60	An improved DINSAR method for monitoring the inclination displacement of the power transmission towers using Radarsat-2 spotlight mode images. , 2016, , .		2
61	A new aerosol retrieval algorithm based on statistical segmentation using Landsat-8 OLI data. , 2016, , .		2
62	The application of the landslides detection method based on sar images to transmission line corridor area. , 2016, , .		2
63	An unsupervised segmentation method based on the variational model for fully polarimetric SAR images. , 2017, , .		2
64	Phase Unwrapping Algorithm Based on Improved Weighted Quality Graph. , 2019, , .		2
65	Macroscopic Dielectric Constant Formulation for Rough Layered Structures. , 2019, , .		2
66	A Novel Single-Channel Arrangement in Chirp Transform Spectrometer for High-Resolution Spectrum Detection. Applied Sciences (Switzerland), 2020, 10, 4896.	2.5	2
67	Impact of flat subsurface approximation on scattering of multilayer media. Waves in Random and Complex Media, 2022, 32, 641-662.	2.7	2
68	Probability Assessment of Rainfall-Induced Landslides Based on Safety Factors Using Soil Moisture Estimation From SAR Images. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 5579-5597.	6.3	2
69	Spectral Analysis of Stationary Signals Based on Two Simplified Arrangements of Chirp Transform Spectrometer. Electronics (Switzerland), 2021, 10, 65.	3.1	2
70	The Analysis of Electromagnetic Characteristics of Coplanar Waveguide in Different Models Using Finite-Difference Time-Domain Method. , 2008, , .		1
71	The Measurement on the Dielectric Properties of Fresh-Water Ice with Rectangular Waveguide at 2.6GHz-3.9GHz. , 2008, , .		1
72	Research on the Characteristic Test of Via Holes in Microwave Circuits. , 2009, , .		1

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73	Long term validation of moderate resolution and multi-angle remote sensing snow albedo over Greenland. , 2010, , .		1
74	A geometrical rectification algorithm of UAV remote sensing images based on flight attitude parameters. , 2011, , .		1
75	Snow BRDF characteristics from MODIS and MISR data. , 2011, , .		1
76	Multi-frequency and multi-polarization radar measurements over paddy rice field and their relationship with ground parameters. , 2011, , .		1
77	Measurement on the Dielectric Constant of Grass with Rectangular Waveguide at C Band. Applied Mechanics and Materials, 2011, 130-134, 2138-2142.	0.2	1
78	Soil moisture monitoring based on HJ-1C S-band SAR image and experimental data. , 2013, , .		1
79	Methane emissions monitoring of rice fields using RADARSAT-2 data. , 2013, , .		1
80	The study of 2.45 GHz atmospheric microwave plasma generator. , 2015, , .		1
81	Adaptation of MIMICS model to wheat at multi-band (L, S, C, X). , 2015, , .		1
82	Estimation of ground deformation in mountain areas with improved SAR interferometry. , 2016, , .		1
83	Feature extraction and classification of ocean oil spill based on SAR image. , 2016, , .		1
84	Coherence estimation in the low-backscattering area using multitemporal TerraSAR-X images and its application on road detection. , 2017, , .		1
85	Three-Dimensional Finite Difference Time Domain Simulation for Scattering Computation from Soil Surface. , 2018, , .		1
86	A Weighted Acceleration Algorithm Based on Non-Local Filter for Sar Images with The Polarization Similarity. , 2018, , .		1
87	The Decomposition-Reconstitution Theorem for Scattering Computation from Random Rough Surface. , 2018, , .		1
88	New Neural Network and an Image Postprocessing Method for High Resolution Satellite Imagery Road Extraction. , 2019, , .		1
89	Macroscopic Dielectric Constant Model for Layered Media With Rough Surfaces. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 1684-1688.	4.0	1
90	Scattering From Fractal Surfaces Based on Decomposition and Reconstruction Theorem. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-12.	6.3	1

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91	A General Spline-Based Method for Centerline Extraction from Different Segmented Road Maps in Remote Sensing Imagery. Remote Sensing, 2022, 14, 2074.	4.0	1
92	Land-Based Scatterometer Measurements and Retrieval of Surface Parameters Using Neural Networks. , 2008, , .		0
93	The Quantitative Inversion and Space-Time Variety Analysis of VWC Based on the Remote Sensing Spectrum. , 2008, , .		0
94	The analysis of electromagnetic characteristics of coplanar waveguide in different models using Finite-Difference Time-Domain method. , 2008, , .		0
95	Analysis of the Microstrip Lines with a Finite Substrate. , 2009, , .		0
96	Quantitative study of the Eco-water indices based on remote sensing. , 2009, , .		0
97	The Method of Lines for the Analysis of Microstrip Lines on the Finite Width Substrate. Journal of Infrared, Millimeter, and Terahertz Waves, 2009, 30, 566-572.	2.2	0
98	Analysis of the Electromagnetic Characteristics of Coplanar Waveguide by FDTD Method. , 2009, , .		0
99	Comparison Study of Preconditioned Basis Functions in Spectral Domain Analysis of Microstrip. , 2009, , .		0
100	Comparison between theoretical and measured shielded microstrip dispersion properties in a wide-frequency range. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2010, 29, 536-544.	0.9	0
101	Physical modeling, theoretical analysis, and experimental test of via holes in microwave planar circuits. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2010, 29, 545-562.	0.9	0
102	Frequency dependent transmission characteristics of microstrip line on the finite width ground. , 2010, , .		0
103	Estimation of chlorophyll-a concentration based on the semi-analytical model and remote sensing data. , 2010, , .		0
104	Scattering parameters analysis of the vertical Interconnected via in microwave multilayer circuits. , 2010, , .		0
105	A compression image method combining wavelet transform with SVD. , 2011, , .		0
106	Study on the application range of the MP&M in vias analyzing. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2011, 24, 313-321.	1.9	0
107	The method of lines for the analysis of composite-metal lossy microstrip lines. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2011, 24, 457-464.	1.9	0
108	Bistatic radar scattering measurement of sands at different sizes. Annals of GIS, 2011, 17, 189-195.	3.1	0

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109	Geographic information public services platform based on cloud computing model. , 2011, , .		0
110	High intensity radiated field (HIRF) external environments for civil aircraft operation. , 2011, , .		0
111	Indoor Microwave Scattering Properties Measurement and Study of Soil. Key Engineering Materials, 2012, 500, 403-408.	0.4	0
112	S-Band Polarimetric Radar Scattering Measurement from Different Random Rough Surface. Key Engineering Materials, 0, 500, 416-421.	0.4	0
113	Water monitoring using single SAR image: Semi-flood area. , 2012, , .		0
114	The spatial scale research of MODIS LAI product authenticity verification. , 2012, , .		0
115	Two improved methods for determining complex permittivity in coaxial line of powder materials. , 2013, , .		0
116	Study on the Shielding Effectiveness of a Metallic Rectangular Enclosure with Four Square Apertures having Different Position Arrays. Applied Mechanics and Materials, 0, 321-324, 2737-2744.	0.2	0
117	Spatial distribution of PM2.5 concentration based on aerosol optical thickness inverted by Landsat ETM+ data over Chengdu. , 2013, , .		0
118	The effects of finite metallisation thickness and conductivity in microstrip lines. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2013, 32, 495-503.	0.9	0
119	The remote sensing quantitative monitoring of soil moisture in the upstream of minjiang valley. , 2013, , .		0
120	The Effect of Apertures Position on Shielding Effectiveness of Metallic Enclosures based on Modal Method of Moments. Research Journal of Applied Sciences, Engineering and Technology, 2013, 6, 3125-3136.	0.1	0
121	Area retrieval of melting snow in alpine areas. , 2014, , .		0
122	Research of methane emissions of the wetlands with backscattering properties. , 2014, , .		0
123	Validation of FY-3B satellite temperature product. , 2015, , .		0
124	A new method for automatic fine registration of multi-spectral remote sensing images. , 2015, , .		0
125	Survey of greener ignition and combustion systems for internal combustion engines. , 2015, , .		0
126	A METHOD FOR ICE-THICKNESS DETECTING AND ICE-SECTION IMAGING BY USING FMCW-SAR ALGORITHM. Progress in Electromagnetics Research M, 2016, 48, 113-124.	0.9	0

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127	The temporal scale research of MODIS albedo product authenticity verification. IOP Conference Series: Earth and Environmental Science, 2016, 37, 012007.	0.3	0
128	Landslide prediction using soil moisture estimation derived from polarimetric Radarsat-2 data and SRTM. , 2016, , .		0
129	Analysis of the interaction between electromagnetic wave and cereal parameters at row and column directions. , 2016, , .		0
130	A new algorithm for aerosol retrieval using HJ-1 CCD and MODIS NDVI data over urban areas. , 2016, , .		0
131	Improved physical model in layered media for via structures. Journal of Electromagnetic Waves and Applications, 2016, 30, 2427-2443.	1.6	0
132	Inversion model for the semi-flooded area based on radar backscatter measurements. , 2016, , .		0
133	Analysis of methane emissions from paddy rice using Bayesian assimilation. , 2017, , .		0
134	A region-based method of vegetation coverage extracting in complex terrain areas using polarimetric SAR data. , 2017, , .		0
135	A new method of leaf area index measurement based on the digital images. , 2017, , .		0
136	A new algorithm for high temporal and spatial resolution aerosol retrieval using gaofen-4 and landsat-8 data. , 2017, , .		0
137	Snow extraction using X-band multi-temporal coherence based on InSAR technology. , 2017, , .		0
138	Estimation of underlying submerge based on microwave model and dynamic programming algorithm. , 2017, , .		0
139	Full polarimetric radar backscattering measurement of oil spilling indoor experiment. , 2017, , .		0
140	Height Estimation of Electric Power Transmission Tower Based on Tomography SAR Imaging Method using Staring Spotlight Mode Terrasar-X Data. , 2018, , .		0
141	Mountain Topographic Deformation Extracation Based on Ps-Insar. , 2018, , .		0
142	A Modified Scattering Model of Row Wheat at X-Band. , 2018, , .		0
143	Evaluating Scattered Electromagnetic Field from Fractal Surface Using its Components. , 2018, , .		0
144	Backscattering from Fractal Rough Surfaces Under Tapered Wave Illumination. , 2018, , .		0

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145	A Novel Method for Abrupt Motions Estimation of Sparse Scatterers in Differential Tomography SAR Imaging. <i>Radio Science</i> , 2019, 54, 1059-1066.	1.6	0
146	Chirp Transform Spectrometer Based on Modified Single Channel Structure. , 2019, , .		0
147	A Study on Mixer Measurement Error Based on Vector Network Analyzer. , 2019, , .		0
148	A Novel Digital Filter Algorithm for High-resolution Spectrum Detection Based on Chirp Transform Spectrometer. , 2019, , .		0
149	Improve the Stability of Atmospheric Microwave Plasma by Gas-flow Control. , 2019, , .		0
150	One-step Synthesis of Carbon Nanotubes Network with Rich Oxygenated Functional Groups via Microwave Plasma in Atmospheric Pressure. <i>MRS Advances</i> , 2020, 5, 2679-2684.	0.9	0
151	Advanced Chirp Transform Spectrometer with Novel Digital Pulse Compression Method for Spectrum Detection. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 960.	2.5	0
152	Analysis of the Shielding Effectiveness of a Metallic Sensor Rectangular Enclosure with Different Shape Rectangular Apertures. <i>Sensor Letters</i> , 2013, 11, 2186-2188.	0.4	0
153	Novel two-tone measurement of the nonlinearity and memory effects of mixers in different amplitude regions of large carrier signals. <i>Review of Scientific Instruments</i> , 2021, 92, 124710.	1.3	0