

Ling Tong

List of Publications by Year in descending order

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153
papers

618
citations

687363

13
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153
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153
times ranked

670
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of flat subsurface approximation on scattering of multilayer media. <i>Waves in Random and Complex Media</i> , 2022, 32, 641-662.	2.7	2
2	Scattering From Fractal Surfaces Based on Decomposition and Reconstruction Theorem. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-12.	6.3	1
3	A General Spline-Based Method for Centerline Extraction from Different Segmented Road Maps in Remote Sensing Imagery. <i>Remote Sensing</i> , 2022, 14, 2074.	4.0	1
4	Probability Assessment of Rainfall-Induced Landslides Based on Safety Factors Using Soil Moisture Estimation From SAR Images. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021, 59, 5579-5597.	6.3	2
5	Advanced Chirp Transform Spectrometer with Novel Digital Pulse Compression Method for Spectrum Detection. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 960.	2.5	0
6	Spectral Analysis of Stationary Signals Based on Two Simplified Arrangements of Chirp Transform Spectrometer. <i>Electronics (Switzerland)</i> , 2021, 10, 65.	3.1	2
7	Direct Growth of Carbon Nanotubes on Aluminum Foil by Atmospheric Pressure Microwave Plasma Chemical Vapor Deposition. <i>Processes</i> , 2021, 9, 36.	2.8	4
8	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
9	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
10	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
11	Macroscopic Dielectric Constant Model for Layered Media With Rough Surfaces. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2020, 19, 1684-1688.	4.0	1
12	A Novel Single-Channel Arrangement in Chirp Transform Spectrometer for High-Resolution Spectrum Detection. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4896.	2.5	2
13	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
14	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
15	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
16	Phase Unwrapping Algorithm Based on Improved Weighted Quality Graph. , 2019, , .		2
17	An eye diagram parameters measurement method based on K-means clustering algorithm. , 2019, , .		5
18	Road Extraction from Unmanned Aerial Vehicle Remote Sensing Images Based on Improved Neural Networks. <i>Sensors</i> , 2019, 19, 4115.	3.8	22

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19	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
20	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
21	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
22	Macroscopic Dielectric Constant Formulation for Rough Layered Structures. , 2019, , .		2
23	Chirp Transform Spectrometer Based on Modified Single Channel Structure. , 2019, , .		0
24	A Study on Mixer Measurement Error Based on Vector Network Analyzer. , 2019, , .		0
25	A Novel Digital Filter Algorithm for High-resolution Spectrum Detection Based on Chirp Transform Spectrometer. , 2019, , .		0
26	Improve the Stability of Atmospheric Microwave Plasma by Gas-flow Control. , 2019, , .		0
27	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
28	New Network Based on D-Linknet and Densenet for High Resolution Satellite Imagery Road Extraction. , 2019, , .		5
29	New Neural Network and an Image Postprocessing Method for High Resolution Satellite Imagery Road Extraction. , 2019, , .		1
30	Road Material Information Extraction Based on Multi-Feature Fusion of Remote Sensing Image. , 2019, , .		5
31	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
32	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
33	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
34	Three-Dimensional Finite Difference Time Domain Simulation for Scattering Computation from Soil Surface. , 2018, , .		1
35	Height Estimation of Electric Power Transmission Tower Based on Tomography SAR Imaging Method using Staring Spotlight Mode Terrasar-X Data. , 2018, , .		0
36	Super-Resolution Reconstruction of Multi-Polarization Sar Images Based on Projections Onto Convex Sets Algorithm. , 2018, , .		5

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37	A Weighted Acceleration Algorithm Based on Non-Local Filter for Sar Images with The Polarization Similarity. , 2018, , .		1
38	Mountain Topographic Deformation Extracation Based on Ps-Insar. , 2018, , .		0
39	The Decomposition-Reconstitution Theorem for Scattering Computation from Random Rough Surface. , 2018, , .		1
40	A Modified Scattering Model of Row Wheat at X-Band. , 2018, , .		0
41	Evaluating Scattered Electromagnetic Field from Fractal Surface Using its Components. , 2018, , .		0
42	Backscattering from Fractal Rough Surfaces Under Tapered Wave Illumination. , 2018, , .		0
43	Road Segmentation of UAV RS Image Using Adversarial Network with Multi-Scale Context Aggregation. , 2018, , .		3
44	Remote Sensing Inversion of Water Quality Parameters in Longquan Lake Based on PSO-SVR Algorithm. , 2018, , .		5
45	A New Air Pollution Source Identification Method Based on Remotely Sensed Aerosol and Improved Glowworm Swarm Optimization. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 3454-3464.	4.9	13
46	Analysis of methane emissions from paddy rice using Bayesian assimilation. , 2017, , .		0
47	A region-based method of vegetation coverage extracting in complex terrain areas using polarimetric SAR data. , 2017, , .		0
48	A new method of leaf area index measurement based on the digital images. , 2017, , .		0
49	Remote sensing retrieval of suspended solids in Longquan Lake based on GA-SVM model. , 2017, , .		6
50	A new algorithm for high temporal and spatial resolution aerosol retrieval using gaofen-4 and landsat-8 data. , 2017, , .		0
51	Coherence estimation in the low-backscattering area using multitemporal TerraSAR-X images and its application on road detection. , 2017, , .		1
52	Snow extraction using X-band multi-temporal coherence based on InSAR technology. , 2017, , .		0
53	Estimation of underlying submerge based on microwave model and dynamic programming algorithm. , 2017, , .		0
54	Full polarimetric radar backscattering measurement of oil spilling indoor experiment. , 2017, , .		0

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55	An unsupervised segmentation method based on the variational model for fully polarimetric SAR images. , 2017, , .		2
56	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
57	DESIGN OF A MICROSTRIP-FED HEXAGONAL SHAPE LWB ANTENNA WITH TRIPLE NOTCHED BANDS. Progress in Electromagnetics Research C, 2016, 62, 77-87.	0.9	17
58	The temporal scale research of MODIS albedo product authenticity verification. IOP Conference Series: Earth and Environmental Science, 2016, 37, 012007.	0.3	0
59	Estimation of ground deformation in mountain areas with improved SAR interferometry. , 2016, , .		1
60	Landslide prediction using soil moisture estimation derived from polarimetric Radarsat-2 data and SRTM. , 2016, , .		0
61	Analysis of the interaction between electromagnetic wave and cereal parameters at row and column directions. , 2016, , .		0
62	Road detection in high-resolution SAR images using Duda and path operators. , 2016, , .		6
63	A new algorithm for aerosol retrieval using HJ-1 CCD and MODIS NDVI data over urban areas. , 2016, , .		0
64	Improved physical model in layered media for via structures. Journal of Electromagnetic Waves and Applications, 2016, 30, 2427-2443.	1.6	0
65	Improved SNR Optimum Method in POLDINSAR Coherence Optimization. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 982-986.	3.1	9
66	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
67	A LS-SVM-based classifier with Fruit Fly Optimization Algorithm for polarimetric SAR images. , 2016, , .		4
68	An improved DINSAR method for monitoring the inclination displacement of the power transmission towers using Radarsat-2 spotlight mode images. , 2016, , .		2
69	Feature extraction and classification of ocean oil spill based on SAR image. , 2016, , .		1
70	A new aerosol retrieval algorithm based on statistical segmentation using Landsat-8 OLI data. , 2016, , .		2
71	The application of the landslides detection method based on sar images to transmission line corridor area. , 2016, , .		2
72	Inversion model for the semi-flooded area based on radar backscatter measurements. , 2016, , .		0

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73	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
74	A study on vegetation cover extraction using a Wishart H- $\hat{\pm}$ classifier based on fully polarimetric Radarsat-2 data. <i>International Journal of Remote Sensing</i> , 2016, 37, 2844-2859.	2.9	4
75	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
76	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
77	Validation of FY-3B satellite temperature product. , 2015, , .		0
78	The study of 2.45 GHz atmospheric microwave plasma generator. , 2015, , .		1
79	Aerosol Retrieval over Urban Area by Syngertic Use of Feng Yun-3C MERSI and Terra MODIS Data. , 2015, , .		2
80	Air Pollution Sources Identification Precisely Based on Remotely Sensed Aerosol and Glowworm Swarm Optimization. , 2015, , .		2
81	A new method for automatic fine registration of multi-spectral remote sensing images. , 2015, , .		0
82	Adaptation of MIMICS model to wheat at multi-band (L, S, C, X). , 2015, , .		1
83	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
84	New Methods in Multibaseline Polarimetric SAR Interferometry Coherence Optimization. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2015, 12, 2016-2020.	3.1	25
85	Backscattering modeling of wheat using vector radiative transfer theory. <i>Journal of Applied Remote Sensing</i> , 2015, 9, 097093.	1.3	6
86	Survey of greener ignition and combustion systems for internal combustion engines. , 2015, , .		0
87	Area retrieval of melting snow in alpine areas. , 2014, , .		0
88	Research of methane emissions of the wetlands with backscattering properties. , 2014, , .		0
89	Road damage information extraction using high-resolution SAR imagery. , 2014, , .		2
90	Estimating ground-level PM2.5 concentration using Landsat 8 in Chengdu, China. <i>Proceedings of SPIE</i> , 2014, , .	0.8	5

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91	Multi-temporal radar backscattering measurements and modelling of rice fields using a multi-frequency (L, S, C, and X) scatterometer. International Journal of Remote Sensing, 2014, 35, 1253-1271.	2.9	10
92	Rice Biomass Estimation Using Radar Backscattering Data at S-band. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 469-479.	4.9	13
93	Determining the complex permittivity of powder materials from I-40GHz using transmission-line technique. , 2013, , .		5
94	Design and application of sink node for wireless sensor network. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2013, 32, 531-544.	0.9	7
95	Two improved methods for determining complex permittivity in coaxial line of powder materials. , 2013, , .		0
96	The study of road damage detection based on high-resolution SAR image. , 2013, , .		4
97	Flat earth removal and baseline estimation based on orbit parameters using Radarsat-2 image. , 2013, , .		3
98	Soil moisture monitoring based on HJ-1C S-band SAR image and experimental data. , 2013, , .		1
99	Multitemporal radar backscattering measurement of wheat fields using multifrequency (L, S, C, and X) and fullâ€polarization. Radio Science, 2013, 48, 471-481.	1.6	37
100	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
101	Rice biomass retrieval from multitemporal ground-based scatterometer data and RADARSAT-2 images using neural networks. Journal of Applied Remote Sensing, 2013, 7, 073509.	1.3	30
102	Spatial distribution of PM2.5 concentration based on aerosol optical thickness inverted by Landsat ETM+ data over Chengdu. , 2013, , .		0
103	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
104	Methane emissions monitoring of rice fields using RADARSAT-2 data. , 2013, , .		1
105	The remote sensing quantitative monitoring of soil moisture in the upstream of minjiang valley. , 2013, , .		0
106	Parallel implementation of MPI-based SAR image soil moisture inversion. , 2013, , .		2
107	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
108	DIRECTIONAL COUPLER USING MULTI-STAGE COUPLED STRUCTURE THEORY. Progress in Electromagnetics Research C, 2013, 45, 113-123.	0.9	4

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109	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
110	Analysis of the Shielding Effectiveness of a Metallic Sensor Rectangular Enclosure with Different Shape Rectangular Apertures. Sensor Letters, 2013, 11, 2186-2188.	0.4	0
111	Indoor Microwave Scattering Properties Measurement and Study of Soil. Key Engineering Materials, 2012, 500, 403-408.	0.4	0
112	Multi-temporal radar backscattering measurement of wheat fields and their relationship with biological variables. , 2012, , .		2
113	GIS-based city noise mapping research and development. , 2012, , .		3
114	Multifrequency and multitemporal ground-based scatterometers measurements on rice fields. , 2012, , .		5
115	Bidirectional Reflectance for Multiple Snow-Covered Land Types From MISR Products. IEEE Geoscience and Remote Sensing Letters, 2012, 9, 994-998.	3.1	5
116	Water monitoring using single SAR image: Semi-flood area. , 2012, , .		0
117	The spatial scale research of MODIS LAI product authenticity verification. , 2012, , .		0
118	A compression image method combining wavelet transform with SVD. , 2011, , .		0
119	A geometrical rectification algorithm of UAV remote sensing images based on flight attitude parameters. , 2011, , .		1
120	IMPEDANCE MEASUREMENTS OF NONUNIFORM TRANSMISSION LINES IN TIME DOMAIN USING AN IMPROVED RECURSIVE MULTIPLE REFLECTION COMPUTATION METHOD. Progress in Electromagnetics Research, 2011, 117, 149-164.	4.4	14
121	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
122	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
123	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
124	The method for soil moisture inversion based on ground-based scattering measurement. , 2011, , .		2
125	Snow BRDF characteristics from MODIS and MISR data. , 2011, , .		1
126	Multi-frequency and multi-polarization radar measurements over paddy rice field and their relationship with ground parameters. , 2011, , .		1

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127	Bistatic radar scattering measurement of sands at different sizes. <i>Annals of GIS</i> , 2011, 17, 189-195.	3.1	0
128	Geographic information public services platform based on cloud computing model. , 2011, , .		0
129	High intensity radiated field (HIRF) external environments for civil aircraft operation. , 2011, , .		0
130	Measurement on the Dielectric Constant of Grass with Rectangular Waveguide at C Band. <i>Applied Mechanics and Materials</i> , 2011, 130-134, 2138-2142.	0.2	1
131	Comparison between theoretical and measured shielded microstrip dispersion properties in a wide-frequency range. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , 2010, 29, 536-544.	0.9	0
132	Physical modeling, theoretical analysis, and experimental test of via holes in microwave planar circuits. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , 2010, 29, 545-562.	0.9	0
133	MEASUREMENTS OF PLANAR MICROWAVE CIRCUITS USING AN IMPROVED TRL CALIBRATION METHOD. <i>Progress in Electromagnetics Research</i> , 2010, 109, 263-278.	4.4	13
134	Frequency dependent transmission characteristics of microstrip line on the finite width ground. , 2010, , .		0
135	Estimation of chlorophyll-a concentration based on the semi-analytical model and remote sensing data. , 2010, , .		0
136	Long term validation of moderate resolution and multi-angle remote sensing snow albedo over Greenland. , 2010, , .		1
137	An improved method for TRL calibration. , 2010, , .		2
138	Scattering parameters analysis of the vertical Interconnected via in microwave multilayer circuits. , 2010, , .		0
139	Analysis of the Microstrip Lines with a Finite Substrate. , 2009, , .		0
140	Quantitative study of the Eco-water indices based on remote sensing. , 2009, , .		0
141	The Method of Lines for the Analysis of Microstrip Lines on the Finite Width Substrate. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2009, 30, 566-572.	2.2	0
142	An Analysis of Characteristics of Coplanar Transmission Lines with Finite Conductivity and Finite Strip Thickness by the Method of Lines. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2009, 30, 792-801.	2.2	2
143	Research on the Characteristic Test of Via Holes in Microwave Circuits. , 2009, , .		1
144	Analysis of the Electromagnetic Characteristics of Coplanar Waveguide by FDTD Method. , 2009, , .		0

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145	Comparison Study of Preconditioned Basis Functions in Spectral Domain Analysis of Microstrip. , 2009, , .		0
146	The Analysis of Electromagnetic Characteristics of Coplanar Waveguide in Different Models Using Finite-Difference Time-Domain Method. , 2008, , .		1
147	Land-Based Scatterometer Measurements and Retrieval of Surface Parameters Using Neural Networks. , 2008, , .		0
148	The Quantitative Inversion and Space-Time Variety Analysis of VWC Based on the Remote Sensing Spectrum. , 2008, , .		0
149	The analysis of electromagnetic characteristics of coplanar waveguide in different models using Finite-Difference Time-Domain method. , 2008, , .		0
150	The Measurement on the Dielectric Properties of Fresh-Water Ice with Rectangular Waveguide at 2.6GHz-3.9GHz. , 2008, , .		1
151	Symmetry Based Two-Dimensional Principal Component Analysis for Face Recognition. Lecture Notes in Computer Science, 2007, , 1048-1055.	1.3	6
152	S-Band Polarimetric Radar Scattering Measurement from Different Random Rough Surface. Key Engineering Materials, 0, 500, 416-421.	0.4	0
153	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