Yuwei Chen

List of Publications by Year
in descending order

150 papers	5,128 citations	94269 37 h-index	102304 66 g-index
153 all docs	153 docs citations	153 times ranked	5412 citing authors

#	Article	IF	Citations
1	Assessing river water quality using water quality index in Lake Taihu Basin, China. Science of the Total Environment, 2018, 612, 914-922.	3.9	384
2	Full waveform hyperspectral LiDAR for terrestrial laser scanning. Optics Express, 2012, 20, 7119.	1.7	324
3	Changes of nutrients and phytoplankton chlorophyll-a in a large shallow lake, Taihu, China: an 8-year investigation. Hydrobiologia, 2003, 506-509, 273-279.	1.0	199
4	Nitrogen dynamics and microbial food web structure during a summer cyanobacterial bloom in a subtropical, shallow, well-mixed, eutrophic lake (Lake Taihu, China). Hydrobiologia, 2007, 581, 195-207.	1.0	158
5	Two-channel Hyperspectral LiDAR with a Supercontinuum Laser Source. Sensors, 2010, 10, 7057-7066.	2.1	157
6	Multiplatform Mobile Laser Scanning: Usability and Performance. Sensors, 2012, 12, 11712-11733.	2.1	156
7	Water quality assessment based on the water quality index method in Lake Poyang: The largest freshwater lake in China. Scientific Reports, 2017, 7, 17999.	1.6	156
8	A global database of lake surface temperatures collected by in situ and satellite methods from 1985â€"2009. Scientific Data, 2015, 2, 150008.	2.4	153
9	Earlier and warmer springs increase cyanobacterial (<i>Microcystis</i> spp.) blooms in subtropical Lake Taihu, China. Freshwater Biology, 2014, 59, 1076-1085.	1.2	138
10	Distribution of polycyclic aromatic hydrocarbon (PAH) residues in several tissues of edible fishes from the largest freshwater lake in China, Poyang Lake, and associated human health risk assessment. Ecotoxicology and Environmental Safety, 2014, 104, 323-331.	2.9	138
11	UWB NLOS/LOS Classification Using Deep Learning Method. IEEE Communications Letters, 2020, 24, 2226-2230.	2.5	121
12	Human Behavior Cognition Using Smartphone Sensors. Sensors, 2013, 13, 1402-1424.	2.1	118
13	Using LS-SVM Based Motion Recognition for Smartphone Indoor Wireless Positioning. Sensors, 2012, 12, 6155-6175.	2.1	116
14	Bayesian Fusion for Indoor Positioning Using Bluetooth Fingerprints. Wireless Personal Communications, 2013, 70, 1735-1745.	1.8	111
15	An Integrated GNSS/INS/LiDAR-SLAM Positioning Method for Highly Accurate Forest Stem Mapping. Remote Sensing, 2017, 9, 3.	1.8	100
16	LiDAR Scan Matching Aided Inertial Navigation System in GNSS-Denied Environments. Sensors, 2015, 15, 16710-16728.	2.1	99
17	Nutrient ratios and phytoplankton community structure in the large, shallow, eutrophic, subtropical Lakes Okeechobee (Florida, USA) and Taihu (China). Limnology, 2009, 10, 215-227.	0.8	94
18	A MEMS IMU De-Noising Method Using Long Short Term Memory Recurrent Neural Networks (LSTM-RNN). Sensors, 2018, 18, 3470.	2.1	78

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19	Natural attenuation processes applying to antimony: A study in the abandoned antimony mine in Goesdorf, Luxembourg. Science of the Total Environment, 2009, 407, 6205-6216.	3.9	73
20	SLAM-Aided Stem Mapping for Forest Inventory with Small-Footprint Mobile LiDAR. Forests, 2015, 6, 4588-4606.	0.9	72
21	Horizontal distribution and transport processes of bloom-forming Microcystis in a large shallow lake (Taihu, China). Limnologica, 2010, 40, 8-15.	0.7	69
22	The Accuracy Comparison of Three Simultaneous Localization and Mapping (SLAM)-Based Indoor Mapping Technologies. Sensors, 2018, 18, 3228.	2.1	68
23	Determination of cadmium in aqueous samples by vapour generation with sodium tetraethylborate(III) reagent. Journal of Analytical Atomic Spectrometry, 1989, 4, 319.	1.6	56
24	iParking: An Intelligent Indoor Location-Based Smartphone Parking Service. Sensors, 2012, 12, 14612-14629.	2.1	56
25	Spatial distribution of chlorophyll a and its relationship with the environment during summer in Lake Poyang: a Yangtze-connected lake. Hydrobiologia, 2014, 732, 61-70.	1.0	56
26	Multiple Strategies of Bloom-Forming Microcystis to Minimize Damage by Solar Ultraviolet Radiation in Surface Waters. Microbial Ecology, 2009, 57, 667-674.	1.4	54
27	An effective Pedestrian Dead Reckoning algorithm using a unified heading error model. , 2010, , .		50
28	Inquiry-Based Bluetooth Indoor Positioning via RSSI Probability Distributions. , 2010, , .		50
29	Hybrid Kernel Based Machine Learning Using Received Signal Strength Measurements for Indoor Localization. IEEE Transactions on Vehicular Technology, 2018, 67, 2824-2829.	3.9	50
30	NAVIS-An UGV Indoor Positioning System Using Laser Scan Matching for Large-Area Real-Time Applications. Sensors, 2014, 14, 11805-11824.	2.1	46
31	A 10-nm Spectral Resolution Hyperspectral LiDAR System Based on an Acousto-Optic Tunable Filter. Sensors, 2019, 19, 1620.	2.1	46
32	Potential influence of water level changes on energy flows in a lake food web. Science Bulletin, 2011, 56, 2794-2802.	1.7	44
33	A Survey of Crowd Sensing Opportunistic Signals for Indoor Localization. Mobile Information Systems, 2016, 2016, 1-16.	0.4	44
34	Fast Fingerprint Database Maintenance for Indoor Positioning Based on UGV SLAM. Sensors, 2015, 15, 5311-5330.	2.1	41
35	Restoration of a subtropical eutrophic shallow lake in China: effects on nutrient concentrations and biological communities. Hydrobiologia, 2013, 718, 59-71.	1.0	40
36	A Mixed Deep Recurrent Neural Network for MEMS Gyroscope Noise Suppressing. Electronics (Switzerland), 2019, 8, 181.	1.8	40

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37	Assessment of Heavy Metal Pollution in the Sediment of the Main Tributaries of Dongting Lake, China. Water (Switzerland), 2018, 10, 1060.	1.2	39
38	Intra-habitat heterogeneity of microbial food web structure under the regime of eutrophication and sediment resuspension in the large subtropical shallow Lake Taihu, China. Hydrobiologia, 2007, 581, 241-254.	1.0	38
39	Feasibility Study of Ore Classification Using Active Hyperspectral LiDAR. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 1785-1789.	1.4	38
40	Climate exerts a greater modulating effect on the phytoplankton community after 2007 in eutrophic Lake Taihu, China: Evidence from 25 years of recordings. Ecological Indicators, 2019, 105, 82-91.	2.6	36
41	Temporal-spatial variations of euphotic depth of typical lake regions in Lake Taihu and its ecological environmental significance. Science in China Series D: Earth Sciences, 2006, 49, 431-442.	0.9	34
42	Accelerometer assisted robust wireless signal positioning based on a hidden Markov model. , 2010, , .		33
43	Performance Analysis of a Deep Simple Recurrent Unit Recurrent Neural Network (SRU-RNN) in MEMS Gyroscope De-Noising. Sensors, 2018, 18, 4471.	2.1	32
44	An UWB Channel Impulse Response De-Noising Method for NLOS/LOS Classification Boosting. IEEE Communications Letters, 2020, 24, 2513-2517.	2.5	32
45	Effects of resuspension and eutrophication level on summer phytoplankton dynamics in two hypertrophic areas of Lake Taihu, China. Aquatic Ecology, 2010, 44, 41-54.	0.7	31
46	Comparison of EMG-based and Accelerometer-based Speed Estimation Methods in Pedestrian Dead Reckoning. Journal of Navigation, 2011, 64, 265-280.	1.0	31
47	Composition, diversity, and environmental correlates of benthic macroinvertebrate communities in the five largest freshwater lakes of China. Hydrobiologia, 2017, 788, 85-98.	1.0	30
48	Knowledge-based error detection and correction method of a Multi-sensor Multi-network positioning platform for pedestrian indoor navigation. , 2010, , .		29
49	Reliability considerations of multi-sensor multi-network pedestrian navigation. IET Radar, Sonar and Navigation, 2012, 6, 157.	0.9	29
50	A comparison of factors influencing the summer phytoplankton biomass in China's three largest freshwater lakes: Poyang, Dongting, and Taihu. Hydrobiologia, 2017, 792, 283-302.	1.0	29
51	Semantic segmentation of road furniture in mobile laser scanning data. ISPRS Journal of Photogrammetry and Remote Sensing, 2019, 154, 98-113.	4.9	29
52	Sensing strides using EMG signal for pedestrian navigation. GPS Solutions, 2011, 15, 161-170.	2.2	28
53	Colorful solar selective absorber integrated with different colored units. Optics Express, 2016, 24, A92.	1.7	28
54	Spatiotemporal Variability in the Water Quality of Poyang Lake and Its Associated Responses to Hydrological Conditions. Water (Switzerland), 2016, 8, 296.	1.2	27

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55	The evaluation of WiFi positioning in a Bluetooth and WiFi coexistence environment. , 2012, , .		26
56	Electromyography-Based Locomotion Pattern Recognition and Personal Positioning Toward Improved Context-Awareness Applications. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2013, 43, 1216-1227.	5.9	26
57	Spatial and temporal heterogeneities in water quality and their potential drivers in Lake Poyang (China) from 2009 to 2015. Limnologica, 2018, 69, 115-124.	0.7	26
58	A Liquid Crystal Tunable Filter-Based Hyperspectral LiDAR System and Its Application on Vegetation Red Edge Detection. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 291-295.	1.4	25
59	An overview of the laser ranging method of space laser altimeter. Infrared Physics and Technology, 2017, 86, 147-158.	1.3	24
60	A 91-Channel Hyperspectral LiDAR for Coal/Rock Classification. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 1052-1056.	1.4	23
61	Information filter with speed detection for indoor Bluetooth positioning. , 2011, , .		21
62	Study of a High Spectral Resolution Hyperspectral LiDAR in Vegetation Red Edge Parameters Extraction. Remote Sensing, 2019, 11, 2007.	1.8	20
63	UAV-Borne Profiling Radar for Forest Research. Remote Sensing, 2017, 9, 58.	1.8	19
64	Tradeoffs in the Spatial and Spectral Resolution of Airborne Hyperspectral Imaging Systems: A Crop Identification Case Study. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-18.	2.7	19
65	An Inquiry-based Bluetooth indoor positioning approach for the Finnish pavilion at Shanghai World Expo 2010. , 2010, , .		18
66	Review on Active and Passive Remote Sensing Techniques for Road Extraction. Remote Sensing, 2021, 13, 4235.	1.8	18
67	Research on a chip scale atomic clock aided vector tracking loop. IET Radar, Sonar and Navigation, 2019, 13, 1101-1106.	0.9	17
68	Research on a chip scale atomic clock driven GNSS/SINS deeply coupled navigation system for augmented performance. IET Radar, Sonar and Navigation, 2019, 13, 326-331.	0.9	17
69	Feasibility Study on Hyperspectral LiDAR for Ancient Huizhou-Style Architecture Preservation. Remote Sensing, 2020, 12, 88.	1.8	17
70	A novel pedestrian dead reckoning algorithm using wearable EMG sensors to measure walking strides. , 2010, , .		16
71	Hydrological changes of the past 1400 years recorded in δD of sedimentary <i>n</i>-alkanes from Poyang Lake, southeastern China. Holocene, 2015, 25, 1068-1075.	0.9	16
72	Evaluation of fingerprinting-based WiFi indoor localization coexisted with Bluetooth. The Journal of Global Positioning Systems, 2017, 15, .	1.6	16

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73	Implementation and performance analysis of the PDR/GNSS integration on a smartphone. GPS Solutions, 2022, 26, .	2.2	16
74	Map updating and change detection using vehicle-based laser scanning. , 2009, , .		15
75	Constraint Kalman filter for indoor bluetooth localization. , 2015, , .		15
76	Analyzing the Angle Effect of Leaf Reflectance Measured by Indoor Hyperspectral Light Detection and Ranging (LiDAR). Remote Sensing, 2020, 12, 919.	1.8	15
77	Dynamic variations of water quality in Taihu Lake and multivariate analysis of its influential factors. Chinese Geographical Science, 1996, 6, 364-374.	1.2	14
78	Inferring Human Activity in Mobile Devices by Computing Multiple Contexts. Sensors, 2015, 15, 21219-21238.	2.1	14
79	Multi-sensor multi-network seamless positioning with visual aiding. , 2011, , .		13
80	IVPR: An Instant Visual Place Recognition Approach Based on Structural Lines in Manhattan World. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 4173-4187.	2.4	13
81	Tuning the Doping Ratio and Phase Transition Temperature of VO2 Thin Film by Dual-Target Co-Sputtering. Nanomaterials, 2019, 9, 834.	1.9	12
82	Mixed Noise Estimation Model for Optimized Kernel Minimum Noise Fraction Transformation in Hyperspectral Image Dimensionality Reduction. Remote Sensing, 2021, 13, 2607.	1.8	12
83	Wearable electromyography sensor based outdoor-indoor seamless pedestrian navigation using motion recognition method. , 2011, , .		11
84	MIMU/Odometer Fusion with State Constraints for Vehicle Positioning during BeiDou Signal Outage: Testing and Results. Sensors, 2020, 20, 2302.	2.1	11
85	Smartphone PDR/GNSS Integration via Factor Graph Optimization for Pedestrian Navigation. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-12.	2.4	10
86	3D city model for mobile phone using MMS data. , 2009, , .		9
87	The uses of ambient light for ubiquitous positioning. , 2014, , .		9
88	Estimating Ground Level and Canopy Top Elevation With Airborne Microwave Profiling Radar. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 2283-2294.	2.7	9
89	A practical method utilizing multi-spectral LiDAR to aid points cloud matching in SLAM. Satellite Navigation, 2020, 1, .	4.6	9
90	An adaptive calibration approach for a 2-axis digital compass in a low-cost pedestrian navigation system. , 2010, , .		8

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91	Motion Restricted Information Filter for Indoor Bluetooth Positioning. International Journal of Embedded and Real-Time Communication Systems, 2012, 3, 54-66.	0.3	8
92	Horizontal distribution of pelagic crustacean zooplankton biomass and body size in contrasting habitat types in Lake Poyang, China. Environmental Science and Pollution Research, 2019, 26, 2270-2280.	2.7	8
93	Analysis and Radiometric Calibration for Backscatter Intensity of Hyperspectral LiDAR Caused by Incident Angle Effect. Sensors, 2021, 21, 2960.	2.1	8
94	Sensor assisted 3D personal navigation on a smart phone in GPS degraded environments. , 2011, , .		7
95	A context detection approach using GPS module and emerging sensors in smartphone platform. , 2014, , .		7
96	Knowledge-based indoor positioning based on LiDAR aided multiple sensors system for UGVs. , 2014, , .		7
97	A Novel Pedestrian Dead Reckoning Solution Using Motion Recognition Algorithm with Wearable EMG Sensors. The Journal of Global Positioning Systems, 2011, 10, 39-49.	1.6	7
98	A Hyperspectral LiDAR with Eight Channels Covering from VIS to SWIR. , 2018, , .		6
99	Analysis of the baseline data based GPS spoofing detection algorithm. , 2018, , .		6
100	Eight-Diagram Based Access Point Selection Algorithm for Indoor Localization. IEEE Transactions on Vehicular Technology, 2020, 69, 13196-13205.	3.9	6
101	Superior Position Estimation Based on Optimization in GNSS. IEEE Communications Letters, 2021, 25, 479-483.	2.5	6
102	Preliminary verification of hyperspectral LiDAR covering VIS-NIR-SWIR used for objects classification. European Journal of Remote Sensing, 2022, 55, 291-303.	1.7	6
103	Sound positioning using a small-scale linear microphone array. , 2013, , .		5
104	Range calibration of airborne profiling radar used in forest inventory. , 2016, , .		5
105	Scan matching technology for forest navigation with map information. , 2016, , .		5
106	Effect of hydrological variability on diatom distribution in Poyang Lake, China. Chinese Journal of Oceanology and Limnology, 2017, 35, 174-184.	0.7	5
107	Possibility of Applying SLAM-Aided LiDAR in Deep Space Exploration. Springer Proceedings in Physics, 2017, , 239-248.	0.1	5
108	Feasibility Study of Using Mobile Laser Scanning Point Cloud Data for GNSS Line of Sight Analysis. Mobile Information Systems, 2017, 2017, 1-11.	0.4	5

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109	The Comparison of Canopy Height Profiles Extracted from Ku-band Profile Radar Waveforms and LiDAR Data. Remote Sensing, 2018, 10, 701.	1.8	5
110	Methane emissions from the littoral zone of Poyang lake during drawdown periods. Journal of Freshwater Ecology, 2019, 34, 37-48.	0.5	5
111	Adjustment on the received optical power of a ground-based optical instrument by a corner cube retroreflector with a curved front-face. Applied Optics, 2021, 60, 405.	0.9	5
112	Realization of strong coupling between 2D excitons and cavity photons at room temperature. Optics Letters, 2020, 45, 6571.	1.7	5
113	Mid-long wavelength infrared absorptance of hyperdoped silicon via femtosecond laser microstructuring. Optics Express, 2022, 30, 1808.	1.7	5
114	Method of pedestrian dead reckoning using speed recognition. , 2010, , .		4
115	CO2 Emission Increases with Damage Severity in Moso Bamboo Forests Following a Winter Storm in Southern China. Scientific Reports, 2016, 6, 30351.	1.6	4
116	An Analysis of Ku-Band Profiling Radar Observations of Boreal Forest. Remote Sensing, 2017, 9, 1252.	1.8	4
117	Estimation of Canopy Height Using an Airborne *Ku*-Band Frequency-Modulated Continuous Waveform Profiling Radar. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 3590-3597.	2.3	4
118	Spatial and seasonal variation in N2-fixing cyanobacteria in Poyang Lake from 2012 to 2016: roles of nutrient ratios and hydrology. Aquatic Sciences, 2019, 81, 1.	0.6	4
119	Simulation of Ku-Band Profile Radar Waveform by Extending Radiosity Applicable to Porous Individual Objects (RAPID2) Model. Remote Sensing, 2020, 12, 684.	1.8	4
120	SARSA in extended Kalman Filter for complex urban environments positioning. International Journal of Systems Science, 2021, 52, 3044-3059.	3.7	4
121	High energy efficient and thermally stable solar selective absorber constructed with TiN_xO_y based multilayers. Optical Materials Express, 2020, 10, 733.	1.6	4
122	Feasibility Study of Wood-Leaf Separation Based on Hyperspectral LiDAR Technology in Indoor Circumstances. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 729-738.	2.3	4
123	A Synthetic Algorithm on the Skew-Normal Decomposition for Satellite LiDAR Waveforms. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	2.7	4
124	Open-source optimization method for android smartphone single point positioning. GPS Solutions, 2022, 26, .	2.2	4
125	Mobile laser scanning based 3D technology for mineral environment modeling and positioning. , 2016, , .		3
126	SLAM Based Indoor Mapping Comparison:Mobile or Terrestrial ?. , 2018, , .		3

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127	N2 and N2O production and emission variation during the flood period of Poyang Lake (China). Aquatic Sciences, 2019, 81, 1.	0.6	3
128	Airborne Wind Vector Scatterometer for Sea Surface Measurements. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 2470-2476.	2.3	3
129	Lidar-aided analysis of boreal forest backscatter at Ku band. International Journal of Applied Earth Observation and Geoinformation, 2020, 91, 102133.	1.4	3
130	Pulsewidth coding approach for multi-sensor synchronization of urban mobile mapping system. , 2009, , .		2
131	3D personal navigation in smart phone using geocoded images. , 2012, , .		2
132	Development of a contextual thinking engine in mobile devices. , 2014, , .		2
133	Effectiveness Analysis of the Covariance Matrix for Spoofing Detection Application. , 2018, , .		2
134	A practical method for employing multi-spectral LiDAR intensities in points cloud classification. International Journal of Remote Sensing, 2020, 41, 8366-8379.	1.3	2
135	Hyperspectral LiDAR-Based Plant Spectral Profiles Acquisition: Performance Assessment and Results Analysis. Remote Sensing, 2021, 13, 2521.	1.8	2
136	Using Microwave Profile Radar to Estimate Forest Canopy Leaf Area Index: Linking 3D Radiative Transfer Model and Forest Gap Model. Remote Sensing, 2021, 13, 297.	1.8	2
137	Distributed processing method for multiâ€GNSS/SINS integration system. IET Science, Measurement and Technology, 2020, 14, 755-761.	0.9	2
138	Instance-Aware Semantic Segmentation of Road Furniture in Mobile Laser Scanning Data. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 17516-17529.	4.7	2
139	Ag metal interconnect wires formed by pseudoplastic nanoparticles fluid imprinting lithography with microwave assistant sintering. Nanotechnology, 2022, , .	1.3	2
140	Active hyperspectral LIDAR methods for object classification. , 2010, , .		1
141	Lane detection based on a visual-aided multiple sensors platform. , 2012, , .		1
142	The performance of BeiDou signals in high latitude area in Nordic countries. , 2016, , .		1
143	The Determination of Effective Beamwidth of Ku Band Profiling Radar Based on Waveform Matching Method in the Boreal Forest of Finland. Remote Sensing, 2020, 12, 2710.	1.8	1
144	An Investigation of Spectral Band Selection for Hyperspectral LiDAR Technique. Electronics (Switzerland), 2020, 9, 148.	1.8	1

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145	Achromatizing in development of hyperspectral imager. , 2005, , .		0
146	Content aggregation in personal location-aware mashup. , 2010, , .		0
147	Fully Polarimetric Airborne Wind Vector Scatterometer to Support Space-Borne Gnss-R Measurements. , 2018, , .		0
148	The Penetration Analysis of Airborne Ku-Band Radar Versus Satellite Infrared Lidar Based on the Height and Energy Percentiles in the Boreal Forest. Remote Sensing, 2021, 13, 1650.	1.8	0
149	Information Filter-Assisted Indoor Bluetooth Positioning. Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series, 2014, , 162-177.	0.5	0
150	Multi-Sensor Multi-Network Positioning. , 0, , 97-129.		0