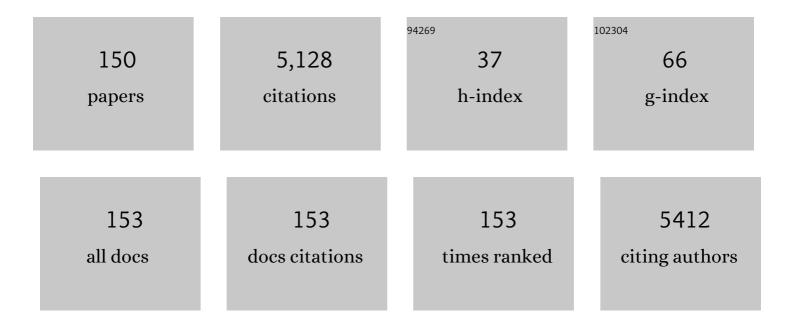
List of Publications by Year in descending order

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YUMEL CHEN

#	Article	IF	CITATIONS
1	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
2	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
3	Mid-long wavelength infrared absorptance of hyperdoped silicon via femtosecond laser microstructuring. Optics Express, 2022, 30, 1808.	1.7	5
4	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
5	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
6	Ag metal interconnect wires formed by pseudoplastic nanoparticles fluid imprinting lithography with microwave assistant sintering. Nanotechnology, 2022, , .	1.3	2
7	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
8	Implementation and performance analysis of the PDR/GNSS integration on a smartphone. GPS Solutions, 2022, 26, .	2.2	16
9	Open-source optimization method for android smartphone single point positioning. GPS Solutions, 2022, 26, .	2.2	4
10	Smartphone PDR/GNSS Integration via Factor Graph Optimization for Pedestrian Navigation. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-12.	2.4	10
11	Superior Position Estimation Based on Optimization in GNSS. IEEE Communications Letters, 2021, 25, 479-483.	2.5	6
12	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
13	Analysis and Radiometric Calibration for Backscatter Intensity of Hyperspectral LiDAR Caused by Incident Angle Effect. Sensors, 2021, 21, 2960.	2.1	8
14	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
15	SARSA in extended Kalman Filter for complex urban environments positioning. International Journal of Systems Science, 2021, 52, 3044-3059.	3.7	4
16	Hyperspectral LiDAR-Based Plant Spectral Profiles Acquisition: Performance Assessment and Results Analysis. Remote Sensing, 2021, 13, 2521.	1.8	2
17	Mixed Noise Estimation Model for Optimized Kernel Minimum Noise Fraction Transformation in Hyperspectral Image Dimensionality Reduction. Remote Sensing, 2021, 13, 2607.	1.8	12
18	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

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19	Review on Active and Passive Remote Sensing Techniques for Road Extraction. Remote Sensing, 2021, 13, 4235.	1.8	18
20	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
21	A 91-Channel Hyperspectral LiDAR for Coal/Rock Classification. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 1052-1056.	1.4	23
22	An UWB Channel Impulse Response De-Noising Method for NLOS/LOS Classification Boosting. IEEE Communications Letters, 2020, 24, 2513-2517.	2.5	32
23	Eight-Diagram Based Access Point Selection Algorithm for Indoor Localization. IEEE Transactions on Vehicular Technology, 2020, 69, 13196-13205.	3.9	6
24	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
25	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
26	A practical method utilizing multi-spectral LiDAR to aid points cloud matching in SLAM. Satellite Navigation, 2020, 1, .	4.6	9
27	Lidar-aided analysis of boreal forest backscatter at Ku band. International Journal of Applied Earth Observation and Geoinformation, 2020, 91, 102133.	1.4	3
28	UWB NLOS/LOS Classification Using Deep Learning Method. IEEE Communications Letters, 2020, 24, 2226-2230.	2.5	121
29	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
30	An Investigation of Spectral Band Selection for Hyperspectral LiDAR Technique. Electronics (Switzerland), 2020, 9, 148.	1.8	1
31	Feasibility Study on Hyperspectral LiDAR for Ancient Huizhou-Style Architecture Preservation. Remote Sensing, 2020, 12, 88.	1.8	17
32	Analyzing the Angle Effect of Leaf Reflectance Measured by Indoor Hyperspectral Light Detection and Ranging (LiDAR). Remote Sensing, 2020, 12, 919.	1.8	15
33	MIMU/Odometer Fusion with State Constraints for Vehicle Positioning during BeiDou Signal Outage: Testing and Results. Sensors, 2020, 20, 2302.	2.1	11
34	Distributed processing method for multiâ€GNSS/SINS integration system. IET Science, Measurement and Technology, 2020, 14, 755-761.	0.9	2
35	High energy efficient and thermally stable solar selective absorber constructed with TiN <sub>x</sub> O <sub>y</sub> based multilayers. Optical Materials Express, 2020, 10, 733.	1.6	4
36	Realization of strong coupling between 2D excitons and cavity photons at room temperature. Optics Letters, 2020, 45, 6571.	1.7	5

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37	Study of a High Spectral Resolution Hyperspectral LiDAR in Vegetation Red Edge Parameters Extraction. Remote Sensing, 2019, 11, 2007.	1.8	20
38	N2 and N2O production and emission variation during the flood period of Poyang Lake (China). Aquatic Sciences, 2019, 81, 1.	0.6	3
39	Tuning the Doping Ratio and Phase Transition Temperature of VO2 Thin Film by Dual-Target Co-Sputtering. Nanomaterials, 2019, 9, 834.	1.9	12
40	Semantic segmentation of road furniture in mobile laser scanning data. ISPRS Journal of Photogrammetry and Remote Sensing, 2019, 154, 98-113.	4.9	29
41	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
42	A 10-nm Spectral Resolution Hyperspectral LiDAR System Based on an Acousto-Optic Tunable Filter. Sensors, 2019, 19, 1620.	2.1	46
43	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
44	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
45	Methane emissions from the littoral zone of Poyang lake during drawdown periods. Journal of Freshwater Ecology, 2019, 34, 37-48.	0.5	5
46	A Mixed Deep Recurrent Neural Network for MEMS Gyroscope Noise Suppressing. Electronics (Switzerland), 2019, 8, 181.	1.8	40
47	Research on a chip scale atomic clock aided vector tracking loop. IET Radar, Sonar and Navigation, 2019, 13, 1101-1106.	0.9	17
48	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
49	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
50	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
51	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
52	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
53	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
54	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

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55	Fully Polarimetric Airborne Wind Vector Scatterometer to Support Space-Borne Gnss-R Measurements. , 2018, , .		Ο
56	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
57	A MEMS IMU De-Noising Method Using Long Short Term Memory Recurrent Neural Networks (LSTM-RNN). Sensors, 2018, 18, 3470.	2.1	78
58	Effectiveness Analysis of the Covariance Matrix for Spoofing Detection Application. , 2018, , .		2
59	SLAM Based Indoor Mapping Comparison:Mobile or Terrestrial ?. , 2018, , .		3
60	A Hyperspectral LiDAR with Eight Channels Covering from VIS to SWIR. , 2018, , .		6
61	The Accuracy Comparison of Three Simultaneous Localization and Mapping (SLAM)-Based Indoor Mapping Technologies. Sensors, 2018, 18, 3228.	2.1	68
62	Assessment of Heavy Metal Pollution in the Sediment of the Main Tributaries of Dongting Lake, China. Water (Switzerland), 2018, 10, 1060.	1.2	39
63	Estimation of Canopy Height Using an Airborne <i>Ku</i> -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
64	The Comparison of Canopy Height Profiles Extracted from Ku-band Profile Radar Waveforms and LiDAR Data. Remote Sensing, 2018, 10, 701.	1.8	5
65	Analysis of the baseline data based GPS spoofing detection algorithm. , 2018, , .		6
66	Feasibility Study of Ore Classification Using Active Hyperspectral LiDAR. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 1785-1789.	1.4	38
67	Effect of hydrological variability on diatom distribution in Poyang Lake, China. Chinese Journal of Oceanology and Limnology, 2017, 35, 174-184.	0.7	5
68	Possibility of Applying SLAM-Aided LiDAR in Deep Space Exploration. Springer Proceedings in Physics, 2017, , 239-248.	0.1	5
69	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
70	An overview of the laser ranging method of space laser altimeter. Infrared Physics and Technology, 2017, 86, 147-158.	1.3	24
71	Evaluation of fingerprinting-based WiFi indoor localization coexisted with Bluetooth. The Journal of Global Positioning Systems, 2017, 15, .	1.6	16
72	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

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73	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
74	An Integrated GNSS/INS/LiDAR-SLAM Positioning Method for Highly Accurate Forest Stem Mapping. Remote Sensing, 2017, 9, 3.	1.8	100
75	UAV-Borne Profiling Radar for Forest Research. Remote Sensing, 2017, 9, 58.	1.8	19
76	An Analysis of Ku-Band Profiling Radar Observations of Boreal Forest. Remote Sensing, 2017, 9, 1252.	1.8	4
77	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
78	Spatiotemporal Variability in the Water Quality of Poyang Lake and Its Associated Responses to Hydrological Conditions. Water (Switzerland), 2016, 8, 296.	1.2	27
79	A Survey of Crowd Sensing Opportunistic Signals for Indoor Localization. Mobile Information Systems, 2016, 2016, 1-16.	0.4	44
80	The performance of BeiDou signals in high latitude area in Nordic countries. , 2016, , .		1
81	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
82	Mobile laser scanning based 3D technology for mineral environment modeling and positioning. , 2016, ,		3
83	Range calibration of airborne profiling radar used in forest inventory. , 2016, , .		5
84	Scan matching technology for forest navigation with map information. , 2016, , .		5
85	Colorful solar selective absorber integrated with different colored units. Optics Express, 2016, 24, A92.	1.7	28
86	A global database of lake surface temperatures collected by in situ and satellite methods from 1985–2009. Scientific Data, 2015, 2, 150008.	2.4	153
87	LiDAR Scan Matching Aided Inertial Navigation System in GNSS-Denied Environments. Sensors, 2015, 15, 16710-16728.	2.1	99
88	Inferring Human Activity in Mobile Devices by Computing Multiple Contexts. Sensors, 2015, 15, 21219-21238.	2.1	14
89	SLAM-Aided Stem Mapping for Forest Inventory with Small-Footprint Mobile LiDAR. Forests, 2015, 6, 4588-4606.	0.9	72

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91	Fast Fingerprint Database Maintenance for Indoor Positioning Based on UGV SLAM. Sensors, 2015, 15, 5311-5330.	2.1	41
92	Hydrological changes of the past 1400 years recorded in ÎƊ of sedimentary <i>n</i> -alkanes from Poyang Lake, southeastern China. Holocene, 2015, 25, 1068-1075.	0.9	16
93	NAVIS-An UGV Indoor Positioning System Using Laser Scan Matching for Large-Area Real-Time Applications. Sensors, 2014, 14, 11805-11824.	2.1	46
94	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
95	A context detection approach using GPS module and emerging sensors in smartphone platform. , 2014, , $\cdot$		7
96	Development of a contextual thinking engine in mobile devices. , 2014, , .		2
97	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
98	The uses of ambient light for ubiquitous positioning. , 2014, , .		9
99	Knowledge-based indoor positioning based on LiDAR aided multiple sensors system for UGVs. , 2014, , .		7
100	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
101	Information Filter-Assisted Indoor Bluetooth Positioning. Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series, 2014, , 162-177.	0.5	0
102	Restoration of a subtropical eutrophic shallow lake in China: effects on nutrient concentrations and biological communities. Hydrobiologia, 2013, 718, 59-71.	1.0	40
103	Bayesian Fusion for Indoor Positioning Using Bluetooth Fingerprints. Wireless Personal Communications, 2013, 70, 1735-1745.	1.8	111
104	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
105	Human Behavior Cognition Using Smartphone Sensors. Sensors, 2013, 13, 1402-1424.	2.1	118
106	Sound positioning using a small-scale linear microphone array. , 2013, , .		5
107	Multiplatform Mobile Laser Scanning: Usability and Performance. Sensors, 2012, 12, 11712-11733.	2.1	156
108	Using LS-SVM Based Motion Recognition for Smartphone Indoor Wireless Positioning. Sensors, 2012, 12, 6155-6175.	2.1	116

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<sup>126</sup> An adaptive calibration approach for a 2-axis digital compass in a low-cost pedestrian navigation system. , 2010, , .

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127	Two-channel Hyperspectral LiDAR with a Supercontinuum Laser Source. Sensors, 2010, 10, 7057-7066.	2.1	157
128	An effective Pedestrian Dead Reckoning algorithm using a unified heading error model. , 2010, , .		50
129	Horizontal distribution and transport processes of bloom-forming Microcystis in a large shallow lake (Taihu, China). Limnologica, 2010, 40, 8-15.	0.7	69
130	Active hyperspectral LIDAR methods for object classification. , 2010, , .		1
131	An Inquiry-based Bluetooth indoor positioning approach for the Finnish pavilion at Shanghai World Expo 2010. , 2010, , .		18
132	Inquiry-Based Bluetooth Indoor Positioning via RSSI Probability Distributions. , 2010, , .		50
133	Method of pedestrian dead reckoning using speed recognition. , 2010, , .		4
134	Accelerometer assisted robust wireless signal positioning based on a hidden Markov model. , 2010, , .		33
135	A novel pedestrian dead reckoning algorithm using wearable EMG sensors to measure walking strides. , 2010, , .		16
136	Content aggregation in personal location-aware mashup. , 2010, , .		0
137	Pulsewidth coding approach for multi-sensor synchronization of urban mobile mapping system. , 2009, , .		2
138	3D city model for mobile phone using MMS data. , 2009, , .		9
139	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
140	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
141	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
142	Map updating and change detection using vehicle-based laser scanning. , 2009, , .		15
143	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
144	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

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145	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
146	Achromatizing in development of hyperspectral imager. , 2005, , .		0
147	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
148	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
149	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
150	Multi-Sensor Multi-Network Positioning. , 0, , 97-129.		0