

Zhihan Lv

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

121
papers

3,880
citations

37
h-index

58
g-index

135
ext. papers

4,897
ext. citations

4.3
avg, IF

6.8
L-index

#	Paper	IF	Citations
121	A Joint Multi-Criteria Utility-Based Network Selection Approach for Vehicle-to-Infrastructure Networking. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2018 , 19, 3305-3319	6.1	177
120	Energy-Efficient Multi-Constraint Routing Algorithm With Load Balancing for Smart City Applications. <i>IEEE Internet of Things Journal</i> , 2016 , 3, 1437-1447	10.7	164
119	Tuning the K ⁺ concentration in the tunnel of OMS-2 nanorods leads to a significant enhancement of the catalytic activity for benzene oxidation. <i>Environmental Science & Technology</i> , 2013 , 47, 13730-6	10.3	163
118	Touch-less interactive augmented reality game on vision-based wearable device. <i>Personal and Ubiquitous Computing</i> , 2015 , 19, 551-567	2.1	161
117	Game on, science - how video game technology may help biologists tackle visualization challenges. <i>PLoS ONE</i> , 2013 , 8, e57990	3.7	151
116	Fuzzy System Based Medical Image Processing for Brain Disease Prediction. <i>Frontiers in Neuroscience</i> , 2021 , 15, 714318	5.1	143
115	An energy-efficient cooperative multicast routing in multi-hop wireless networks for smart medical applications. <i>Neurocomputing</i> , 2017 , 220, 160-169	5.4	120
114	Semi-Supervised Support Vector Machine for Digital Twins Based Brain Image Fusion. <i>Frontiers in Neuroscience</i> , 2021 , 15, 705323	5.1	104
113	Trustworthiness in Industrial IoT Systems Based on Artificial Intelligence. <i>IEEE Transactions on Industrial Informatics</i> , 2021 , 17, 1496-1504	11.9	102
112	Medical image fusion method by deep learning. <i>International Journal of Cognitive Computing in Engineering</i> , 2021 , 2, 21-29	1.1	101
111	Infrastructure Monitoring and Operation for Smart Cities Based on IoT System. <i>IEEE Transactions on Industrial Informatics</i> , 2020 , 16, 1957-1962	11.9	87
110	A Real-Time Monitoring System of Industry Carbon Monoxide Based on Wireless Sensor Networks. <i>Sensors</i> , 2015 , 15, 29535-46	3.8	79
109	BIM Big Data Storage in WebVRGIS. <i>IEEE Transactions on Industrial Informatics</i> , 2020 , 16, 2566-2573	11.9	79
108	A Self-Assessment Stereo Capture Model Applicable to the Internet of Things. <i>Sensors</i> , 2015 , 15, 20925-44	3.4	76
107	Multimodal Hand and Foot Gesture Interaction for Handheld Devices. <i>ACM Transactions on Multimedia Computing, Communications and Applications</i> , 2014 , 11, 1-19	3.4	69
106	Intelligent Security Planning for Regional Distributed Energy Internet. <i>IEEE Transactions on Industrial Informatics</i> , 2020 , 16, 3540-3547	11.9	66
105	Multimedia cloud transmission and storage system based on internet of things. <i>Multimedia Tools and Applications</i> , 2017 , 76, 17735-17750	2.5	64

104	General analysis of SRS-limited high-power fiber lasers and design strategy. <i>Optics Express</i> , 2016 , 24, 26715-26721	3.3	63
103	Collaborative Multi-hop Routing in Cognitive Wireless Networks. <i>Wireless Personal Communications</i> , 2016 , 86, 901-923	1.9	59
102	Rapid Delaunay triangulation for randomly distributed point cloud data using adaptive Hilbert curve. <i>Computers and Graphics</i> , 2016 , 54, 65-74	1.8	53
101	A Distributed Parallel Cooperative Coevolutionary Multiobjective Evolutionary Algorithm for Large-Scale Optimization. <i>IEEE Transactions on Industrial Informatics</i> , 2017 , 13, 2030-2038	11.9	53
100	A Low-Power and Portable Biomedical Device for Respiratory Monitoring with a Stable Power Source. <i>Sensors</i> , 2015 , 15, 19618-32	3.8	52
99	Advanced Machine-Learning Methods for Brain-Computer Interfacing. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2021 , 18, 1688-1698	3	52
98	Change detection method for remote sensing images based on an improved Markov random field. <i>Multimedia Tools and Applications</i> , 2017 , 76, 17719-17734	2.5	51
97	Artificial intelligence for securing industrial-based cyberphysical systems. <i>Future Generation Computer Systems</i> , 2021 , 117, 291-298	7.5	48
96	3.15 kW direct diode-pumped near diffraction-limited all-fiber-integrated fiber laser. <i>Applied Optics</i> , 2015 , 54, 4556-60	1.7	47
95	Research on Disease Prediction Based on Improved DeepFM and IoMT. <i>IEEE Access</i> , 2021 , 9, 39043-39054	3.5	46
94	Assessment of lively street network based on geographic information system and space syntax. <i>Multimedia Tools and Applications</i> , 2017 , 76, 17801-17819	2.5	45
93	Big data analysis of the Internet of Things in the digital twins of smart city based on deep learning. <i>Future Generation Computer Systems</i> , 2022 , 128, 167-177	7.5	44
92	Cyber security in smart cities: A review of deep learning-based applications and case studies. <i>Sustainable Cities and Society</i> , 2021 , 66, 102655	10.1	44
91	Industrial Security Solution for Virtual Reality. <i>IEEE Internet of Things Journal</i> , 2021 , 8, 6273-6281	10.7	41
90	Effect of delivery room temperature on the admission temperature of premature infants: a randomized controlled trial. <i>Journal of Perinatology</i> , 2013 , 33, 264-7	3.1	40
89	Deep-Learning-Enabled Security Issues in the Internet of Things. <i>IEEE Internet of Things Journal</i> , 2021 , 8, 9531-9538	10.7	40
88	Spatio-Temporal Kronecker Compressive Sensing for Traffic Matrix Recovery. <i>IEEE Access</i> , 2016 , 4, 3046-3053	3.9	39
87	An energy-efficient multicast algorithm with maximum network throughput in multi-hop wireless networks. <i>Journal of Communications and Networks</i> , 2016 , 18, 713-724	4.1	38

86	Quality Index for Stereoscopic Images by Separately Evaluating Adding and Subtracting. <i>PLoS ONE</i> , 2015 , 10, e0145800	3.7	38
85	Virtual reality in the context of Internet of Things. <i>Neural Computing and Applications</i> , 2020 , 32, 9593-9602	4.2	37
84	WebVRGIS based traffic analysis and visualization system. <i>Advances in Engineering Software</i> , 2016 , 93, 1-8	3.6	35
83	Towards a face recognition method based on uncorrelated discriminant sparse preserving projection. <i>Multimedia Tools and Applications</i> , 2017 , 76, 17669-17683	2.5	34
82	MCRS: A course recommendation system for MOOCs. <i>Multimedia Tools and Applications</i> , 2018 , 77, 7051-7059	2.5	34
81	A multicast delivery approach with minimum energy consumption for wireless multi-hop networks. <i>Telecommunication Systems</i> , 2016 , 62, 771-782	2.3	33
80	PMU Placement in Electric Transmission Networks for Reliable State Estimation Against False Data Injection Attacks. <i>IEEE Internet of Things Journal</i> , 2017 , 4, 1978-1986	10.7	33
79	Soft frequency reuse-based optimization algorithm for energy efficiency of multi-cell networks. <i>Computers and Electrical Engineering</i> , 2018 , 66, 316-331	4.3	31
78	WebVRWeb Virtual Reality Engine Based on P2P network. <i>Journal of Networks</i> , 2011 , 6,		31
77	Synergistic effect of Cu-ion and WO ₃ nanofibers on the enhanced photocatalytic degradation of Rhodamine B and aniline solution. <i>Applied Surface Science</i> , 2018 , 451, 306-314	6.7	30
76	Investigation of stimulated Raman scattering effect in high-power fiber amplifiers seeded by narrow-band filtered superfluorescent source. <i>Optics Express</i> , 2016 , 24, 8708-17	3.3	29
75	Big Data Analysis Technology for Electric Vehicle Networks in Smart Cities. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021 , 22, 1807-1816	6.1	29
74	A Bayesian approach for sleep and wake classification based on dynamic time warping method. <i>Multimedia Tools and Applications</i> , 2017 , 76, 17765-17784	2.5	27
73	Cyclist Social Force Model at Unsignalized Intersections With Heterogeneous Traffic. <i>IEEE Transactions on Industrial Informatics</i> , 2017 , 13, 782-792	11.9	27
72	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021 , 1-10	6.1	27
71	AI Empowered Communication Systems for Intelligent Transportation Systems. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021 , 22, 4579-4587	6.1	26
70	Deep Learning in Security of Internet of Things. <i>IEEE Internet of Things Journal</i> , 2021 , 1-1	10.7	26
69	The role of exogenous neural stem cells transplantation in cerebral ischemic stroke. <i>Journal of Biomedical Nanotechnology</i> , 2014 , 10, 3219-30	4	25

68	Optimization of collaborative resource allocation for mobile edge computing. <i>Computer Communications</i> , 2020 , 161, 19-27	5.1	25
67	Development and Characterization a Single-Active-Chamber Piezoelectric Membrane Pump with Multiple Passive Check Valves. <i>Sensors</i> , 2016 , 16,	3.8	25
66	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021 , 22, 5275-5282	6.1	24
65	Roles of root cell wall components and root plaques in regulating elemental uptake in rice subjected to selenite and different speciation of antimony. <i>Environmental and Experimental Botany</i> , 2019 , 163, 36-44	5.9	23
64	Traffic Management and Forecasting System Based on 3D GIS 2015 ,		21
63	Modeling network traffic for traffic matrix estimation and anomaly detection based on Bayesian network in cloud computing networks. <i>Annales Des Telecommunications/Annals of Telecommunications</i> , 2017 , 72, 297-305	2	21
62	Maximum connectivity-based channel allocation algorithm in cognitive wireless networks for medical applications. <i>Neurocomputing</i> , 2017 , 220, 41-51	5.4	21
61	Synthesis of barbituric acid doped carbon nitride for efficient solar-driven photocatalytic degradation of aniline. <i>Applied Surface Science</i> , 2018 , 428, 739-747	6.7	19
60	A Framework for Multi-Dimensional WebGIS Based Interactive Online Virtual Community. <i>Advanced Science Letters</i> , 2012 , 7, 215-219	0.1	19
59	AI-empowered IoT Security for Smart Cities. <i>ACM Transactions on Internet Technology</i> , 2021 , 21, 1-21	3.8	19
58	Virtual Reality Based GIS Analysis Platform. <i>Lecture Notes in Computer Science</i> , 2015 , 638-645	0.9	16
57	Digital Twins in Unmanned Aerial Vehicles for Rapid Medical Resource Delivery in Epidemics. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021 , 1-9	6.1	16
56	The research on optimization of auto supply chain network robust model under macroeconomic fluctuations. <i>Chaos, Solitons and Fractals</i> , 2016 , 89, 105-114	9.3	15
55	High performance ultra-compact SOI waveguide crossing. <i>Optics Express</i> , 2018 , 26, 25602-25610	3.3	15
54	Toward architectural and protocol-level foundation for end-to-end trustworthiness in Cloud/Fog computing. <i>IEEE Transactions on Big Data</i> , 2017 , 1-1	3.2	13
53	The effect of a seasonal stratification variation on the load exerted by internal solitary waves on a cylindrical pile. <i>Acta Oceanologica Sinica</i> , 2014 , 33, 21-26	1	12
52	ARPPS: Augmented Reality Pipeline Prospect System. <i>Lecture Notes in Computer Science</i> , 2015 , 647-656	0.9	12
51	The damage mechanisms of fused silica irradiated by 355 nm laser in vacuum. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2008 , 266, 2936-2940	1.2	12

50	Dynamic systems based on preference graph and distance. <i>Discrete and Continuous Dynamical Systems - Series S</i> , 2015 , 8, 1139-1154	2.8	11
49	Quality assessment for virtual reality technology based on real scene. <i>Neural Computing and Applications</i> , 2018 , 29, 1199-1208	4.8	10
48	Analyzing modal power in multi-mode waveguide via machine learning. <i>Optics Express</i> , 2018 , 26, 22100-22109	3.1	10
47	Laser-induced defects in fused silica by UV laser irradiation. <i>Journal of Non-Crystalline Solids</i> , 2007 , 353, 4212-4217	3.9	10
46	Upper Limb Rehabilitation System for Stroke Survivors Based on Multi-Modal Sensors and Machine Learning. <i>IEEE Access</i> , 2021 , 9, 30283-30291	3.5	10
45	A Cyber-Physical System for Product Conceptual Design Based on an Intelligent Psycho-Physiological Approach. <i>IEEE Access</i> , 2017 , 5, 5378-5387	3.5	9
44	Optimal Cooperative Wireless Communication for Mobile User Data Offloading. <i>IEEE Access</i> , 2018 , 6, 16224-16234	3.5	9
43	293 W, GHz narrow-linewidth, polarization maintaining nanosecond fiber amplifier with SBS suppression employing simultaneous phase and intensity modulation. <i>Optics Express</i> , 2015 , 23, 25896-9033	3.3	9
42	. <i>IEEE Transactions on Industrial Informatics</i> , 2017 , 13, 1979-1988	11.9	8
41	The Influence of Swell on the Atmospheric Boundary Layer under Nonneutral Conditions. <i>Journal of Physical Oceanography</i> , 2018 , 48, 925-936	2.4	8
40	Nonrigid Optical Flow Ground Truth for Real-World Scenes With Time-Varying Shading Effects. <i>IEEE Robotics and Automation Letters</i> , 2017 , 2, 231-238	4.2	8
39	3D character recognition using binocular camera for medical assist. <i>Neurocomputing</i> , 2017 , 220, 17-22	5.4	8
38	Virtual geographic environment based coach passenger flow forecasting 2015 ,		8
37	Recovery of fused silica surface damage resistance by ion beam etching. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2008 , 266, 3370-3374	1.2	8
36	A real-time image dehazing method considering dark channel and statistics features. <i>Journal of Real-Time Image Processing</i> , 2017 , 13, 479-490	1.9	7
35	pH-Switchable molecular self-assemblies in surface active ionic liquid/anionic surfactant mixed system. <i>Journal of Molecular Liquids</i> , 2019 , 278, 195-200	6	7
34	Design of intelligent recognition system based on gait recognition technology in smart transportation. <i>Multimedia Tools and Applications</i> , 2016 , 75, 17501-17514	2.5	7
33	Design of a low-crosstalk half-wavelength pitch nano-structured silicon waveguide array. <i>Optics Letters</i> , 2019 , 44, 3266-3269	3	7

32	Studies on the synthesis, surface activity and the ability to form pH-regulated wormlike micelles with surfactant containing carboxyl group. <i>Journal of Molecular Liquids</i> , 2020 , 309, 113182	6	6
31	Coverage-enhancing approach in multimedia directional sensor networks for smart transportation. <i>Multimedia Tools and Applications</i> , 2016 , 75, 17593-17615	2.5	6
30	UAV-assisted wireless relay networks for mobile offloading and trajectory optimization. <i>Peer-to-Peer Networking and Applications</i> , 2019 , 12, 1820-1834	3.1	6
29	Empirical Analysis and Modeling of the Activity Dilemmas in Big Social Networks. <i>IEEE Access</i> , 2017 , 5, 967-974	3.5	6
28	Bulk damage and stress behavior of fused silica irradiated by nanosecond laser. <i>Optical Engineering</i> , 2014 , 53, 047103	1.1	5
27	An online marking system conducive to learning. <i>Journal of Intelligent and Fuzzy Systems</i> , 2016 , 31, 2463-2471	4.1	5
26	Joint Optimization of Traffic and Computation Offloading in UAV-Assisted Wireless Networks 2018		5
25	A near-optimal cloud offloading under multi-user multi-radio environments. <i>Peer-to-Peer Networking and Applications</i> , 2019 , 12, 1454-1465	3.1	4
24	Robust3D: a robust 3D face reconstruction application. <i>Neural Computing and Applications</i> , 2020 , 32, 8893-8900	4.8	4
23	Single-frequency pulsed Brillouin-thulium fiber laser at 2 μm with nonlinear polarization rotation and active phase modulation. <i>Applied Physics Express</i> , 2014 , 7, 102701	2.4	3
22	Mathematical Models for Simulating Coded Digital Communication: A Comprehensive Tutorial by Big Data Analytics in Cyber-Physical Systems. <i>IEEE Access</i> , 2016 , 4, 9018-9026	3.5	3
21	Optimal Content Caching Policy Considering Mode Selection and User Preference under Overlay D2D Communications 2018 ,		3
20	Implementing two methods in GIS software for indoor routing: an empirical study. <i>Multimedia Tools and Applications</i> , 2016 , 75, 17449-17464	2.5	2
19	Research on medical applications of contrast sensitivity function to red-green gratings in 3D space. <i>Neurocomputing</i> , 2017 , 220, 34-40	5.4	2
18	Quantitative measurement of CO ₂ laser-induced residual stress in fused silica optics. <i>Optical Engineering</i> , 2015 , 54, 057105	1.1	2
17	A Novel Approach for Upper Limb Functionality Assessment Based on Deep Learning and Multimodal Sensing Data. <i>IEEE Access</i> , 2021 , 9, 77138-77148	3.5	2
16	Enhanced Modal Coupling Loss in a Two-Mode SOI Waveguide of Broken Parity-Time Symmetry. <i>IEEE Photonics Journal</i> , 2018 , 10, 1-9	1.8	2
15	Exclusive generation of orbital angular momentum modes in parity-time symmetry fiber gratings. <i>Applied Physics Letters</i> , 2019 , 114, 141103	3.4	1

14	A multi-user multi-operator computing pricing method for Internet of things based on bi-level optimization. <i>International Journal of Distributed Sensor Networks</i> , 2020 , 16, 155014771990011	1.7	1
13	3D seabed: 3D modeling and visualization platform for the seabed 2014 ,		1
12	The propagating speed of internal solitary waves investigated by X-band radar near Dongsha island 2010 ,		1
11	TVS: a trusted verification scheme for office documents based on blockchain. <i>Complex & Intelligent Systems</i> ,1	7.1	1
10	Guest Editorial Software Defined Internet of Vehicles. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021 , 22, 3504-3510	6.1	1
9	Multimedia security in laboratory system based on cloud platform. <i>Journal of Intelligent and Fuzzy Systems</i> , 2016 , 31, 2473-2481	1.6	1
8	A joint optimization method for data offloading in D2D-enabled cellular networks 2018 ,		1
7	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021 , 1-10	6.1	1
6	Digital Twins-Based Automated Pilot for Energy-Efficiency Assessment of Intelligent Transportation Infrastructure. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022 , 1-11	6.1	1
5	Digital Twins Based VR Simulation for Accident Prevention of Intelligent Vehicle. <i>IEEE Transactions on Vehicular Technology</i> , 2022 , 1-1	6.8	0
4	The Scanner of Heterogeneous Traffic Flow in Smart Cities by an Updating Model of Connected and Automated Vehicles. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022 , 1-10	6.1	0
3	Second-harmonic phase-matching based on zero refractive index materials. <i>Japanese Journal of Applied Physics</i> , 2019 , 58, 072005	1.4	
2	MeetDurian: Can Location-Based Games be Used to Improve COVID-19 Hygiene Habits?. <i>Games and Culture</i> ,155541202110495	1.9	
1	Personalized Situation Adaptive Human-Vehicles-Interaction (HVI) Prediction in COVID-19 Context. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021 , 1-10	6.1	