Qiang Liu

List of Publications by Year
in descending order

72 papers	10,488 citations	61857 43 h-index	98622 67 g-index
74 all docs	74 docs citations	74 times ranked	12376 citing authors

#	Article	IF	Citations
1	Design of robust superhydrophobic surfaces. Nature, 2020, 582, 55-59.	13.7	1,124
2	Plant phenology and global climate change: Current progresses and challenges. Global Change Biology, 2019, 25, 1922-1940.	4.2	944
3	Eradication of metastatic mouse cancers resistant to immune checkpoint blockade by suppression of myeloid-derived cells. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 11774-11779.	3.3	578
4	The cytokine storm of severe influenza and development of immunomodulatory therapy. Cellular and Molecular Immunology, 2016, 13, 3-10.	4.8	571
5	High-Performance Strain Sensors with Fish-Scale-Like Graphene-Sensing Layers for Full-Range Detection of Human Motions. ACS Nano, 2016, 10, 7901-7906.	7.3	500
6	Leaf onset in the northern hemisphere triggered by daytime temperature. Nature Communications, 2015, 6, 6911.	5.8	384
7	A proprotein convertase subtilisin/kexin type 9 neutralizing antibody reduces serum cholesterol in mice and nonhuman primates. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 9820-9825.	3.3	372
8	Extreme Learning Machines [Trends & Controversies]. IEEE Intelligent Systems, 2013, 28, 30-59.	4.0	329
9	A Digital Twin-Based Approach for Designing and Multi-Objective Optimization of Hollow Glass Production Line. IEEE Access, 2017, 5, 26901-26911.	2.6	320
10	Delayed autumn phenology in the Northern Hemisphere is related to change in both climate and spring phenology. Global Change Biology, 2016, 22, 3702-3711.	4.2	319
11	Digital twin-driven manufacturing cyber-physical system for parallel controlling of smart workshop. Journal of Ambient Intelligence and Humanized Computing, 2019, 10, 1155-1166.	3.3	299
12	Temperature, precipitation, and insolation effects on autumn vegetation phenology in temperate China. Global Change Biology, 2016, 22, 644-655.	4.2	294
13	Digital twins-based smart manufacturing system design in Industry 4.0: A review. Journal of Manufacturing Systems, 2021, 60, 119-137.	7.6	291
14	A Survey on Security Threats and Defensive Techniques of Machine Learning: A Data Driven View. IEEE Access, 2018, 6, 12103-12117.	2.6	274
15	Blockchain-empowered sustainable manufacturing and product lifecycle management in industry 4.0: A survey. Renewable and Sustainable Energy Reviews, 2020, 132, 110112.	8.2	271
16	Digital twin-driven rapid reconfiguration of the automated manufacturing system via an open architecture model. Robotics and Computer-Integrated Manufacturing, 2020, 63, 101895.	6.1	212
17	The Global Land Surface Satellite (GLASS) Product Suite. Bulletin of the American Meteorological Society, 2021, 102, E323-E337.	1.7	203
18	The Crystal Structure of PCSK9: A Regulator of Plasma LDL-Cholesterol. Structure, 2007, 15, 545-552.	1.6	201

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19	Extension of the growing season increases vegetation exposure to frost. Nature Communications, 2018, 9, 426.	5.8	190
20	Blockchain-Secured Smart Manufacturing in Industry 4.0: A Survey. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 237-252.	5.9	174
21	Digital twin-based designing of the configuration, motion, control, and optimization model of a flow-type smart manufacturing system. Journal of Manufacturing Systems, 2021, 58, 52-64.	7.6	169
22	Plant phenological responses to climate change on the Tibetan Plateau: research status and challenges. National Science Review, 2015, 2, 454-467.	4.6	161
23	Increased heat requirement for leaf flushing in temperate woody species over 1980â€"2012: effects of chilling, precipitation and insolation. Global Change Biology, 2015, 21, 2687-2697.	4.2	158
24	Makerchain: A blockchain with chemical signature for self-organizing process in social manufacturing. Journal of Cleaner Production, 2019, 234, 767-778.	4.6	157
25	High-Quality Graphene Ribbons Prepared from Graphene Oxide Hydrogels and Their Application for Strain Sensors. ACS Nano, 2015, 9, 12320-12326.	7.3	148
26	The impacts of climate extremes on the terrestrial carbon cycle: A review. Science China Earth Sciences, 2019, 62, 1551-1563.	2.3	134
27	Divergent changes in the elevational gradient of vegetation activities over the last 30 years. Nature Communications, 2019, 10, 2970.	5.8	119
28	Digital twin-driven joint optimisation of packing and storage assignment in large-scale automated high-rise warehouse product-service system. International Journal of Computer Integrated Manufacturing, 2021, 34, 783-800.	2.9	112
29	Digital twins-based remote semi-physical commissioning of flow-type smart manufacturing systems. Journal of Cleaner Production, 2021, 306, 127278.	4.6	91
30	Transparent Polymeric Strain Sensors for Monitoring Vital Signs and Beyond. ACS Applied Materials & Interfaces, 2018, 10, 3895-3901.	4.0	85
31	Retrieval of leaf area index using temporal, spectral, and angular information from multiple satellite data. Remote Sensing of Environment, 2014, 145, 25-37.	4.6	83
32	Random Fourier extreme learning machine with $\ell_{2,1}$ regularization. Neurocomputing, 2016, 174, 143-153.	3.5	77
33	Disentangling the mechanisms behind winter snow impact on vegetation activity in northern ecosystems. Global Change Biology, 2018, 24, 1651-1662.	4.2	76
34	A loosely-coupled deep reinforcement learning approach for order acceptance decision of mass-individualized printed circuit board manufacturing in industry 4.0. Journal of Cleaner Production, 2021, 280, 124405.	4.6	67
35	Peroxisome Proliferator-activated Receptor Î³ Activation by Ligands and Dephosphorylation Induces Proprotein Convertase Subtilisin Kexin Type 9 and Low Density Lipoprotein Receptor Expression. Journal of Biological Chemistry, 2012, 287, 23667-23677.	1.6	66
36	The Global Land Surface Satellite (GLASS) Remote Sensing Data Processing System and Products. Remote Sensing, 2013, 5, 2436-2450.	1.8	66

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37	Antiviral and anti-inflammatory activity of arbidol hydrochloride in influenza A (H1N1) virus infection. Acta Pharmacologica Sinica, 2013, 34, 1075-1083.	2.8	63
38	Optimal temperature of vegetation productivity and its linkage with climate and elevation on the Tibetan Plateau. Global Change Biology, 2021, 27, 1942-1951.	4.2	60
39	Strain energy-based multiaxial fatigue life prediction under normal/shear stress interaction. International Journal of Damage Mechanics, 2019, 28, 708-739.	2.4	57
40	Vegetation dynamics and factor analysis in arid and semi-arid Inner Mongolia. Environmental Earth Sciences, 2015, 73, 2343-2352.	1.3	55
41	Three‐dimensional change in temperature sensitivity of northern vegetation phenology. Global Change Biology, 2020, 26, 5189-5201.	4.2	48
42	Characteristics of human infection with avian influenza viruses and development of new antiviral agents. Acta Pharmacologica Sinica, 2013, 34, 1257-1269.	2.8	47
43	Fibrous strain sensor with ultra-sensitivity, wide sensing range, and large linearity for full-range detection of human motion. Nanoscale, 2018, 10, 17512-17519.	2.8	46
44	Simulating the onset of spring vegetation growth across the Northern Hemisphere. Global Change Biology, 2018, 24, 1342-1356.	4.2	44
45	Jiawei-Yupingfeng-Tang, a Chinese herbal formula, inhibits respiratory viral infections in vitro and in vivo. Journal of Ethnopharmacology, 2013, 150, 521-528.	2.0	41
46	Modeling leaf senescence of deciduous tree species in Europe. Global Change Biology, 2020, 26, 4104-4118.	4.2	41
47	Climatic Warming Increases Spatial Synchrony in Spring Vegetation Phenology Across the Northern Hemisphere. Geophysical Research Letters, 2019, 46, 1641-1650.	1.5	40
48	Heterogeneous Metric Learning of Categorical Data with Hierarchical Couplings. IEEE Transactions on Knowledge and Data Engineering, 2018, 30, 1254-1267.	4.0	34
49	Shifts in vegetation growth in response to multiple factors on the Mongolian Plateau from 1982 to 2011. Physics and Chemistry of the Earth, 2015, 87-88, 50-59.	1.2	29
50	Analysis of the Phenology in the Mongolian Plateau by Inter-Comparison of Global Vegetation Datasets. Remote Sensing, 2013, 5, 5193-5208.	1.8	28
51	Financial time series prediction using ℓ 2,1 RF-ELM. Neurocomputing, 2018, 277, 176-186.	3.5	23
52	The role of plant phenology in stomatal ozone flux modeling. Global Change Biology, 2018, 24, 235-248.	4.2	22
53	Estimation of Gross Primary Productivity (GPP) Phenology of a Short-Rotation Plantation Using Remotely Sensed Indices Derived from Sentinel-2 Images. Remote Sensing, 2020, 12, 2104.	1.8	22
54	Resilience dynamics modeling and control for a reconfigurable electronic assembly line under spatio-temporal disruptions. Journal of Manufacturing Systems, 2021, 60, 852-863.	7.6	21

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55	Development of a remotely sensing seasonal vegetationâ€based Palmer Drought Severity Index and its application of global drought monitoring over 1982â€"2011. Journal of Geophysical Research D: Atmospheres, 2014, 119, 9419-9440.	1.2	20
56	A DDoS Detection Method for Socially Aware Networking Based on Forecasting Fusion Feature Sequence. Computer Journal, 2018, 61, 959-970.	1.5	19
57	Group Recommendation Based on Financial Social Network for Robo-Advisor. IEEE Access, 2018, 6, 54527-54535.	2.6	19
58	Digital Twin-Driven Rapid Customized Design of Board-Type Furniture Production Line. Journal of Computing and Information Science in Engineering, 2021, 21, .	1.7	18
59	Simultaneous Estimation of Leaf Area Index, Fraction of Absorbed Photosynthetically Active Radiation, and Surface Albedo From Multiple-Satellite Data. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 4334-4354.	2.7	14
60	Therapeutic inhibition of keratinocyte TRPV3 sensory channel by local anesthetic dyclonine. ELife, 2021, 10, .	2.8	14
61	MST-GEN: An Efficient Parameter Selection Method for One-Class Extreme Learning Machine. IEEE Transactions on Cybernetics, 2017, 47, 3266-3279.	6.2	13
62	Poisoning Machine Learning Based Wireless IDSs via Stealing Learning Model. Lecture Notes in Computer Science, 2018, , 261-273.	1.0	7
63	An Inhibitory Antibody against Dipeptidyl Peptidase IV Improves Glucose Tolerance in Vivo. Journal of Biological Chemistry, 2013, 288, 1307-1316.	1.6	6
64	Evaluating Deep Learning for Image Classification in Adversarial Environment. IEICE Transactions on Information and Systems, 2020, E103.D, 825-837.	0.4	6
65	Influence of Different Coupling Modes on the Robustness of Smart Grid under Targeted Attack. Sensors, 2018, 18, 1699.	2.1	5
66	The industrial solvent 1,4-dioxane causes hyperalgesia by targeting capsaicin receptor TRPV1. BMC Biology, 2022, 20, 10.	1.7	3
67	iWEP: An Intelligent WLAN Early Warning Platform Using Edge Computing. , 2019, , .		2
68	Model Capacity Vulnerability in Hyper-Parameters Estimation. IEEE Access, 2020, 8, 21602-21612.	2.6	2
69	AutoCEW: An Autonomous Cyberspace Early Warning Framework via Ensemble Learning. , 2021, , .		0
70	A Simple yet Effective Unsupervised Adversarial Example Generation Framework for Vulnerability Assessment on Deep Learning. Communications in Computer and Information Science, 2021, , 107-122.	0.4	0
71	Research on SDN Enabled by Machine Learning: An Overview. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2020, , 190-203.	0.2	0
72	The Kv1.3 ion channel acts as a host factor restricting viral entry. FASEB Journal, 2021, 35, e20995.	0.2	0