

Yuan Liu

List of Publications by Year in Descending Order

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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.

133
papers

2,002
citations

24
h-index

40
g-index

162
ext. papers

2,529
ext. citations

4.5
avg, IF

5.99
L-index

#	Paper	IF	Citations
133	Deployment Optimization of Reconfigurable Intelligent Surface for Relay Systems. <i>IEEE Transactions on Green Communications and Networking</i> , 2022 , 1-1	4	0
132	Surface-potential-based drain current model for two-dimensional organic TFTs using the multiple trapping and release conduction theory. <i>Solid-State Electronics</i> , 2022 , 187, 108206	1.7	
131	Gate Dielectric Treated by Self-Assembled Monolayers (SAMs) to Enhance the Performance of InSnZnO Thin-Film Transistors. <i>IEEE Transactions on Electron Devices</i> , 2022 , 1-6	2.9	1
130	Cooperative Spectrum Sensing and Fusion Based on Tangle Networks. <i>IEEE Transactions on Network Science and Engineering</i> , 2022 , 1-1	4.9	2
129	Multi-Cell Grant-Free Uplink IoT Networks with Hard Deadline Services in URLLC. <i>IEEE Wireless Communications Letters</i> , 2022 , 1-1	5.9	0
128	DC model for SiC MOSFETs using artificial neural network optimized by artificial bee colony algorithm. <i>AIP Advances</i> , 2021 , 11, 115219	1.5	
127	Data Sensing and Offloading in Edge Computing Networks: TDMA or NOMA?. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 1-1	9.6	2
126	Temperature dependence of conduction and low frequency noise characteristics in GaN Schottky barrier diodes. <i>Modern Physics Letters B</i> , 2021 , 35, 2150134	1.6	1
125	Noise Is Useful: Exploiting Data Diversity for Edge Intelligence. <i>IEEE Wireless Communications Letters</i> , 2021 , 10, 957-961	5.9	2
124	Arithmetic and Logic Circuits Based on ITO-Stabilized ZnO TFT for Transparent Electronics. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2021 , 1-10	3.9	1
123	A Spatiotemporal Model for Hard-deadline Multi-stream Traffic in Uplink IoT Networks. <i>IEEE Internet of Things Journal</i> , 2021 , 1-1	10.7	1
122	Subgraph feature extraction based on multi-view dictionary learning for graph classification. <i>Knowledge-Based Systems</i> , 2021 , 214, 106716	7.3	1
121	Introducing effective temperature into Arrhenius equation with Meyer-Neldel rule for describing both Arrhenius and non-Arrhenius dependent drain current of amorphous InGaZnO TFTs. <i>Solid-State Electronics</i> , 2021 , 181-182, 108011	1.7	0
120	Multi-Cell Mobile Edge Computing: Joint Service Migration and Resource Allocation. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 20, 5898-5912	9.6	21
119	Broadband Dual-Polarized Multidipole Antenna for Base Station Applications. <i>International Journal of Antennas and Propagation</i> , 2021 , 2021, 1-8	1.2	
118	Effect of Hydrogen on Long-Term Reliability of InZnO TFTs Characterized by Low-Frequency Noise. <i>IEEE Journal of the Electron Devices Society</i> , 2021 , 9, 778-782	2.3	
117	Joint Subcarrier Assignment and Power Allocation for OFDMA Full Duplex Distributed Antenna Systems. <i>IEEE Transactions on Vehicular Technology</i> , 2021 , 1-1	6.8	2

116	67-4: Visual Simultaneous Localization and Mapping with Deep Neural Network Based Loop Detection for Augmented Reality. <i>Digest of Technical Papers SID International Symposium</i> , 2020 , 51, 1005-1008	0.5	8
115	See-Through Near-Eye Display with Built-in Prescription and Two-Dimensional Exit Pupil Expansion. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 3901	2.6	7
114	Data-Importance Aware Radio Resource Allocation: Wireless Communication Helps Machine Learning. <i>IEEE Communications Letters</i> , 2020 , 24, 1981-1985	3.8	6
113	A Mobile Robot Visual SLAM System With Enhanced Semantics Segmentation. <i>IEEE Access</i> , 2020 , 8, 25442-25458	3.7	8
112	Deep C-LSTM Neural Network for Epileptic Seizure and Tumor Detection Using High-Dimension EEG Signals. <i>IEEE Access</i> , 2020 , 8, 37495-37504	3.5	18
111	A Novel Envelope Detector Based on Unipolar Metal-Oxide TFTs. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2020 , 67, 2367-2371	3.5	6
110	NOMA-Aided Mobile Edge Computing via User Cooperation. <i>IEEE Transactions on Communications</i> , 2020 , 68, 2221-2235	6.9	27
109	A new broadband circularly polarized antenna with a single-layer metasurface. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2020 , 30, e22226	1.5	10
108	A physics-based compact model for MoS ₂ field-effect transistors considering the band-tail effect and contact resistance. <i>Japanese Journal of Applied Physics</i> , 2020 , 59, 104004	1.4	1
107	User Selection Aware Joint Radio-and-Computing Resource Allocation for Federated Edge Learning 2020 ,		1
106	Training Efficiency of Federated Learning: A Wireless Communication Perspective 2020 ,		2
105	Cooperative Computation Offloading in NOMA-Based Edge Computing 2020 ,		1
104	A High Gain Low-Noise Amplifier Based on ITO-Stabilized ZnO Thin-Film Transistors. <i>IEEE Transactions on Electron Devices</i> , 2020 , 67, 5537-5543	2.9	2
103	Effect of Self-Assembled Monolayers (SAMs) as Surface Passivation on the Flexible a-InSnZnO Thin-Film Transistors. <i>IEEE Transactions on Electron Devices</i> , 2020 , 67, 3157-3162	2.9	9
102	Robust Secure Resource Allocation for Downlink Two-User MISO Rate-Splitting Systems 2020 ,		4
101	Robust Secure Beamforming Design for Two-User Downlink MISO Rate-Splitting Systems. <i>IEEE Transactions on Wireless Communications</i> , 2020 , 19, 8351-8365	9.6	14
100	A surface potential-based DC model considering interface trap states for 4H-SiC power MOSFETs. <i>AIP Advances</i> , 2020 , 10, 095224	1.5	
99	DOA Estimation without Source Number for Cyber-Physical Interactions. <i>Complexity</i> , 2020 , 2020, 1-5	1.6	

98	Dimension Scaling Effects on Conduction and Low Frequency Noise Characteristics of ITO-Stabilized ZnO Thin Film Transistors. <i>IEEE Journal of the Electron Devices Society</i> , 2020 , 8, 435-441	2.3	
97	Joint Uplink and Downlink Transmissions in User-Centric OFDMA Cloud-RAN. <i>IEEE Transactions on Vehicular Technology</i> , 2019 , 68, 7776-7788	6.8	9
96	. <i>IEEE Wireless Communications</i> , 2019 , 26, 99-103	13.4	14
95	Temperature dependence of conduction and low frequency noise characteristics in hydrogenated amorphous silicon thin film transistors. <i>Modern Physics Letters B</i> , 2019 , 33, 1950009	1.6	
94	A novel wideband circularly polarized modified square-slot antenna with loaded strips. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2019 , 29, e21873	1.5	7
93	Modeling of contact resistance effect on low frequency noise in indiumzinc oxide thin-film transistors. <i>Modern Physics Letters B</i> , 2019 , 33, 1950185	1.6	0
92	Temperature-Dependent Low-Frequency Noise in IndiumZincOxide Thin-Film Transistors Down to 10 K. <i>IEEE Transactions on Electron Devices</i> , 2019 , 66, 2192-2197	2.9	4
91	User Selection and Power Minimization in Full-Duplex Cloud Radio Access Networks. <i>IEEE Transactions on Signal Processing</i> , 2019 , 67, 2426-2438	4.8	9
90	Negative gate bias stress effects on conduction and low frequency noise characteristics in p-type poly-Si thin-film transistors. <i>Chinese Physics B</i> , 2019 , 28, 088502	1.2	0
89	Multuser Computation Offloading and Downloading for Edge Computing With Virtualization. <i>IEEE Transactions on Wireless Communications</i> , 2019 , 18, 4298-4311	9.6	46
88	Scaling Down Effect on Low Frequency Noise in Polycrystalline Silicon Thin-Film Transistors. <i>IEEE Journal of the Electron Devices Society</i> , 2019 , 1-1	2.3	10
87	Admission Control Based Distributed Multuser Computation Offloading for Edge Computing 2019 ,		4
86	A Two-Sided Matching Approach for Distributed Edge Computation Offloading 2019 ,		7
85	Energy Efficiency of Distributed Antenna Systems With Wireless Power Transfer. <i>IEEE Journal on Selected Areas in Communications</i> , 2019 , 37, 89-99	14.2	18
84	Secrecy Rate Maximization With Outage Constraint in Multihop Relaying Networks. <i>IEEE Communications Letters</i> , 2018 , 22, 304-307	3.8	6
83	Analysis of IndiumZincOxide Thin-Film Transistors Under Electrostatic Discharge Stress. <i>IEEE Transactions on Electron Devices</i> , 2018 , 65, 356-360	2.9	8
82	Price-Based Distributed Offloading for Mobile-Edge Computing With Computation Capacity Constraints. <i>IEEE Wireless Communications Letters</i> , 2018 , 7, 420-423	5.9	131
81	Analysis and Simulation of Low-Frequency Noise in Indium-Zinc-Oxide Thin-Film Transistors. <i>IEEE Journal of the Electron Devices Society</i> , 2018 , 6, 271-279	2.3	24

80	Energy-Efficient SWIPT in IoT Distributed Antenna Systems. <i>IEEE Internet of Things Journal</i> , 2018 , 5, 2646-2656	1.7	51
79	Investigation of top gate GaN thin-film transistor fabricated by DC magnetron sputtering. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2018 , 36, 032203	1.3	3
78	Charge-Then-Forward: Wireless-Powered Communication for Multiuser Relay Networks. <i>IEEE Transactions on Communications</i> , 2018 , 66, 5155-5167	6.9	12
77	Degradation of current-voltage and low frequency noise characteristics under negative bias illumination stress in InZnO thin film transistors. <i>Chinese Physics B</i> , 2018 , 27, 068504	1.2	4
76	Relay-Assisted Multiuser Wireless Powered Communication with Processing Costs 2018 ,		1
75	Joint Uplink-Downlink Resource Allocation in OFDMA Cloud Radio Access Networks 2018 ,		2
74	Secure Transmission in Linear Multihop Relaying Networks. <i>IEEE Transactions on Wireless Communications</i> , 2018 , 17, 822-834	9.6	14
73	Carbon Cloth-supported MoS ₂ /Ag ₂ S/Ag ₃ PO ₄ Composite with High Photocatalytic Activity and Recyclability. <i>ChemCatChem</i> , 2018 , 11, 1017	5.2	5
72	User Cooperation for NOMA-Based Mobile Edge Computing 2018 ,		7
71	Temperature Dependence of Electrical Characteristics in Indium-Zinc-Oxide Thin Film Transistors from 10 K to 400 K. <i>Chinese Physics Letters</i> , 2018 , 35, 098502	1.8	3
70	Low-Frequency Noise in Amorphous Indium Zinc Oxide Thin Film Transistors with Aluminum Oxide Gate Insulator. <i>Chinese Physics Letters</i> , 2018 , 35, 048502	1.8	
69	Secure Beamforming for Untrusted MISO Cognitive Radio Networks. <i>IEEE Transactions on Wireless Communications</i> , 2018 , 17, 4861-4872	9.6	19
68	Low-Frequency Noise in Hybrid-Phase- Microstructure ITO-Stabilized ZnO Thin-Film Transistors. <i>IEEE Electron Device Letters</i> , 2018 , 39, 200-203	4.4	9
67	Orientation Effect of Field-to-Line Coupling in a TEM Cell. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2017 , 59, 970-979	2	4
66	Power Allocation for Secure SWIPT Systems With Wireless-Powered Cooperative Jamming. <i>IEEE Communications Letters</i> , 2017 , 21, 1353-1356	3.8	58
65	Cooperative Content Delivery in Multicast Multihop Device-to-Device Networks. <i>IEEE Access</i> , 2017 , 5, 6314-6324	3.5	14
64	Analysis of low frequency noise characteristics in p-type polycrystalline silicon thin film transistors. <i>Modern Physics Letters B</i> , 2017 , 31, 1740020	1.6	1
63	Total Ionizing Dose Radiation Effects in the P-Type Polycrystalline Silicon Thin Film Transistors. <i>Chinese Physics Letters</i> , 2017 , 34, 018501	1.8	6

62	170 keV Proton radiation effects on low-frequency noise of bipolar junction transistors. <i>Radiation Effects and Defects in Solids</i> , 2017 , 172, 313-322	0.9	2
61	Joint Resource Allocation in SWIPT-Based Multiantenna Decode-and-Forward Relay Networks. <i>IEEE Transactions on Vehicular Technology</i> , 2017 , 66, 9192-9200	6.8	38
60	Exploiting Trust Degree for Multiple-Antenna User Cooperation. <i>IEEE Transactions on Wireless Communications</i> , 2017 , 16, 4908-4923	9.6	13
59	Comparative study of mobility extraction methods in p-type polycrystalline silicon thin film transistors. <i>Modern Physics Letters B</i> , 2017 , 31, 1740007	1.6	
58	Uplink simultaneous wireless information and power transfer with non-orthogonal multiple access 2017 ,		1
57	Analytical Drain Current Model for Amorphous InGaZnO Thin-Film Transistors at Different Temperatures Considering Both Deep and Tail Trap States. <i>IEEE Transactions on Electron Devices</i> , 2017 , 64, 3654-3660	2.9	5
56	A Dynamic SWIPT Approach for Cooperative Cognitive Radio Networks. <i>IEEE Transactions on Vehicular Technology</i> , 2017 , 66, 11122-11136	6.8	37
55	Simultaneous Wireless Information and Power Transfer with Finite-Alphabet Inputs. <i>Wireless Personal Communications</i> , 2017 , 96, 655-668	1.9	1
54	Optimal power splitting for SWIPT-based MIMO DF relay systems 2017 ,		5
53	Physical Layer Security in Heterogeneous Networks With Jammer Selection and Full-Duplex Users. <i>IEEE Transactions on Wireless Communications</i> , 2017 , 16, 7982-7995	9.6	29
52	Interference-Constrained Pricing for D2D Networks. <i>IEEE Transactions on Wireless Communications</i> , 2017 , 16, 475-486	9.6	41
51	. <i>IEEE Transactions on Vehicular Technology</i> , 2016 , 65, 5088-5098	6.8	51
50	Energy efficiency in multicast multihop D2D networks 2016 ,		6
49	Hybrid Duplex Switching in Heterogeneous Networks. <i>IEEE Transactions on Wireless Communications</i> , 2016 , 15, 7419-7431	9.6	14
48	Artificial Noise Aided Secrecy Information and Power Transfer in OFDMA Systems. <i>IEEE Transactions on Wireless Communications</i> , 2016 , 15, 3085-3096	9.6	88
47	Wireless Information and Power Transfer for Multirelay-Assisted Cooperative Communication. <i>IEEE Communications Letters</i> , 2016 , 20, 784-787	3.8	92
46	Optimal Mode Selection in D2D-Enabled Multibase Station Systems. <i>IEEE Communications Letters</i> , 2016 , 20, 470-473	3.8	29
45	Secure Routing in Multihop Wireless Ad-Hoc Networks With Decode-and-Forward Relaying. <i>IEEE Transactions on Communications</i> , 2016 , 64, 753-764	6.9	51

44	Energy Harvesting for Physical-Layer Security in OFDMA Networks. <i>IEEE Transactions on Information Forensics and Security</i> , 2016 , 11, 154-162	8	66
43	Jammer Selection in Heterogeneous Networks with Full-Duplex Users 2016 ,		4
42	Dynamic Energy Harvesting in Cooperative Cognitive Radio Networks 2016 ,		2
41	Secure Routing in Full-Duplex Jamming Multihop Relaying 2016 ,		3
40	Link Scheduling in SWIPT Systems 2016 ,		3
39	Analytical Drain Current Model for Organic Thin-Film Transistors at Different Temperatures Considering Both Deep and Tail Trap States. <i>IEEE Transactions on Electron Devices</i> , 2016 , 63, 4423-4431	2.9	8
38	Temperature-Dependent Drain Current Characteristics and Low Frequency Noises in Indium Zinc Oxide Thin Film Transistors. <i>Chinese Physics Letters</i> , 2015 , 32, 088506	1.8	4
37	Distance-Based Hybrid Duplex in Heterogeneous Networks 2015 ,		5
36	Joint Low-Power Transmit and Cell Association in Heterogeneous Networks 2015 ,		5
35	Secrecy Wireless Information and Power Transfer in OFDMA Systems 2015 ,		1
34	Joint Secure Beamforming for Cognitive Radio Networks with Untrusted Secondary Users 2015 ,		4
33	Low frequency noise and radiation response in the partially depleted SOI MOSFETs with ion implanted buried oxide. <i>Chinese Physics B</i> , 2015 , 24, 088503	1.2	4
32	Joint Power Splitting and Secure Beamforming Design in the Wireless-Powered Untrusted Relay Networks 2015 ,		8
31	Distributed user association and interference coordination in HetNets using Stackelberg game 2015 ,		9
30	Secure Beamforming for MIMO Two-Way Communications With an Untrusted Relay. <i>IEEE Transactions on Signal Processing</i> , 2014 , 62, 2185-2199	4.8	127
29	Outage Analysis of Distributed Antenna System with Delayed CSI and Unequal-Power Cochannel Interferers. <i>IEEE Communications Letters</i> , 2014 , 18, 769-772	3.8	5
28	Total Dose Ionizing Radiation Effects in the Indium-Zinc Oxide Thin-Film Transistors. <i>IEEE Electron Device Letters</i> , 2014 , 35, 369-371	4.4	28
27	Instability of Indium Zinc Oxide Thin-Film Transistors Under Transmission Line Pulsed Stress. <i>IEEE Electron Device Letters</i> , 2014 , 35, 1254-1256	4.4	5

26	Sparse Beamforming in Multiple Multi-Antenna Amplify-and-Forward Relay Networks. <i>IEEE Communications Letters</i> , 2014 , 18, 1023-1026	3.8	2
25	Secrecy Wireless Information and Power Transfer in OFDMA Systems 2014 ,		1
24	Energy harvesting for secure OFDMA systems 2014 ,		2
23	Interference pricing for device-to-device communications 2014 ,		10
22	Trapped-Charge-Effect-Based Above-Threshold Current Expressions for Amorphous Silicon TFTs Consistent With Pao-Sah Model. <i>IEEE Transactions on Electron Devices</i> , 2014 , 61, 3744-3750	2.9	2
21	Spectrum leasing and cooperative resource allocation in cognitive OFDMA networks. <i>Journal of Communications and Networks</i> , 2013 , 15, 102-110	4.1	24
20	Stackelberg game for spectrum reuse in the two-tier LTE femtocell network 2013 ,		1
19	Secure beamforming for MIMO two-way transmission with an untrusted relay 2013 ,		11
18	. <i>IEEE Transactions on Signal Processing</i> , 2013 , 61, 992-1005	4.8	75
17	An Auction Approach to Distributed Power Allocation for Multiuser Cooperative Networks. <i>IEEE Transactions on Wireless Communications</i> , 2013 , 12, 237-247	9.6	27
16	A Network Flow Approach to Throughput Maximization in Cooperative OFDMA Networks. <i>IEEE Transactions on Wireless Communications</i> , 2013 , 12, 1138-1148	9.6	19
15	QoS-Aware Transmission Policies for OFDM Bidirectional Decode-and-Forward Relaying. <i>IEEE Transactions on Wireless Communications</i> , 2013 , 12, 2206-2216	9.6	19
14	Adaptive scheduling for OFDM bidirectional transmission with a buffered relay 2013 ,		2
13	Distributed cross-layer resource allocation for statistical QoS provisioning in femtocell networks 2013 ,		7
12	Cross-Layer Optimization of Two-Way Relaying for Statistical QoS Guarantees. <i>IEEE Journal on Selected Areas in Communications</i> , 2013 , 31, 1583-1596	14.2	17
11	Resource Allocation with Subcarrier Pairing in OFDMA Two-Way Relay Networks. <i>IEEE Wireless Communications Letters</i> , 2012 , 1, 61-64	5.9	60
10	Optimal Channel and Relay Assignment in OFDM-Based Multi-Relay Multi-Pair Two-Way Communication Networks. <i>IEEE Transactions on Communications</i> , 2012 , 60, 317-321	6.9	55
9	Relay Placement for Physical Layer Security: A Secure Connection Perspective. <i>IEEE Communications Letters</i> , 2012 , 16, 878-881	3.8	108

8	QoS-aware policies for OFDM bidirectional transmission with decode-and-forward relaying 2012 ,		4
7	An optimal graph approach for optimizing OFDMA relay networks 2012 ,		2
6	Cross-layer resource allocation of two-way relaying for statistical delay-QoS guarantees 2012 ,		3
5	Optimization Framework and Graph-Based Approach for Relay-Assisted Bidirectional OFDMA Cellular Networks. <i>IEEE Transactions on Wireless Communications</i> , 2010 , 9, 3490-3500	9.6	49
4	A physical model based on surface potential for double-gate a-Si:H TFTs 2009 ,		1
3	An Analytical Model Based on Surface Potential for a-Si:H Thin-Film Transistors. <i>Journal of Display Technology</i> , 2008 , 4, 180-187		19
2	A Physical Model with the Effects of Self-Heating and Variable Resistance in Above-Threshold Region for Hydrogenated Amorphous Silicon Thin Film Transistor. <i>Japanese Journal of Applied Physics</i> , 2008 , 47, 4436-4440	1.4	9
1	Subthreshold characteristics of polysilicon TFTs. <i>Solid-State Electronics</i> , 2008 , 52, 695-703	1.7	14