Yuan Liu

List of Publications by Year
in descending order

162 papers	2,950 citations	172457 29 h-index	189892 50 g-index
162 all docs	162 docs citations	162 times ranked	2783 citing authors

#	Article	IF	Citations
1	Price-Based Distributed Offloading for Mobile-Edge Computing With Computation Capacity Constraints. IEEE Wireless Communications Letters, 2018, 7, 420-423.	5.0	189
2	Secure Beamforming for MIMO Two-Way Communications With an Untrusted Relay. IEEE Transactions on Signal Processing, 2014, 62, 2185-2199.	5.3	174
3	Relay Placement for Physical Layer Security: A Secure Connection Perspective. IEEE Communications Letters, 2012, 16, 878-881.	4.1	146
4	Optimal Linear Transceiver Designs for Cognitive Two-Way Relay Networks. IEEE Transactions on Signal Processing, 2013, 61, 992-1005.	5.3	114
5	Wireless Information and Power Transfer for Multirelay-Assisted Cooperative Communication. IEEE Communications Letters, 2016, 20, 784-787.	4.1	109
6	Artificial Noise Aided Secrecy Information and Power Transfer in OFDMA Systems. IEEE Transactions on Wireless Communications, 2016, 15, 3085-3096.	9.2	103
7	Energy Harvesting for Physical-Layer Security in OFDMA Networks. IEEE Transactions on Information Forensics and Security, 2016, 11, 154-162.	6.9	84
8	Energy-Efficient SWIPT in IoT Distributed Antenna Systems. IEEE Internet of Things Journal, 2018, 5, 2646-2656.	8.7	80
9	Power Allocation for Secure SWIPT Systems With Wireless-Powered Cooperative Jamming. IEEE Communications Letters, 2017, 21, 1353-1356.	4.1	78
10	Multiuser Computation Offloading and Downloading for Edge Computing With Virtualization. IEEE Transactions on Wireless Communications, 2019, 18, 4298-4311.	9.2	78
11	Resource Allocation with Subcarrier Pairing in OFDMA Two-Way Relay Networks. IEEE Wireless Communications Letters, 2012, 1, 61-64.	5.0	77
12	Optimal Channel and Relay Assignment in OFDM-Based Multi-Relay Multi-Pair Two-Way Communication Networks. IEEE Transactions on Communications, 2012, 60, 317-321.	7.8	74
13	Multi-Cell Mobile Edge Computing: Joint Service Migration and Resource Allocation. IEEE Transactions on Wireless Communications, 2021, 20, 5898-5912.	9.2	70
14	Information and Energy Cooperation in OFDM Relaying: Protocols and Optimization. IEEE Transactions on Vehicular Technology, 2016, 65, 5088-5098.	6.3	64
15	Optimization Framework and Graph-Based Approach for Relay-Assisted Bidirectional OFDMA Cellular Networks. IEEE Transactions on Wireless Communications, 2010, 9, 3490-3500.	9.2	63
16	Secure Routing in Multihop Wireless Ad-Hoc Networks With Decode-and-Forward Relaying. IEEE Transactions on Communications, 2016, 64, 753-764.	7.8	63
17	NOMA-Aided Mobile Edge Computing via User Cooperation. IEEE Transactions on Communications, 2020, 68, 2221-2235.	7.8	52
18	A Dynamic SWIPT Approach for Cooperative Cognitive Radio Networks. IEEE Transactions on Vehicular Technology, 2017, 66, 11122-11136.	6.3	50

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19	Interference-Constrained Pricing for D2D Networks. IEEE Transactions on Wireless Communications, 2017, 16, 475-486.	9.2	50
20	Robust Secure Beamforming Design for Two-User Downlink MISO Rate-Splitting Systems. IEEE Transactions on Wireless Communications, 2020, 19, 8351-8365.	9.2	49
21	Joint Resource Allocation in SWIPT-Based Multiantenna Decode-and-Forward Relay Networks. IEEE Transactions on Vehicular Technology, 2017, 66, 9192-9200.	6.3	47
22	Deep C-LSTM Neural Network for Epileptic Seizure and Tumor Detection Using High-Dimension EEG Signals. IEEE Access, 2020, 8, 37495-37504.	4.2	43
23	Physical Layer Security in Heterogeneous Networks With Jammer Selection and Full-Duplex Users. IEEE Transactions on Wireless Communications, 2017, 16, 7982-7995.	9.2	40
24	Total Dose Ionizing Radiation Effects in the Indiumâ€“Zinc Oxide Thin-Film Transistors. IEEE Electron Device Letters, 2014, 35, 369-371.	3.9	36
25	Optimal Mode Selection in D2D-Enabled Multibase Station Systems. IEEE Communications Letters, 2016, 20, 470-473.	4.1	33
26	Analysis and Simulation of Low-Frequency Noise in Indium-Zinc-Oxide Thin-Film Transistors. IEEE Journal of the Electron Devices Society, 2018, 6, 271-279.	2.1	33
27	Spectrum leasing and cooperative resource allocation in cognitive OFDMA networks. Journal of Communications and Networks, 2013, 15, 102-110.	2.6	32
28	An Auction Approach to Distributed Power Allocation for Multiuser Cooperative Networks. IEEE Transactions on Wireless Communications, 2013, 12, 237-247.	9.2	31
29	Cross-Layer Optimization of Two-Way Relaying for Statistical QoS Guarantees. IEEE Journal on Selected Areas in Communications, 2013, 31, 1583-1596.	14.0	29
30	Secure Beamforming for Untrusted MISO Cognitive Radio Networks. IEEE Transactions on Wireless Communications, 2018, 17, 4861-4872.	9.2	25
31	Energy Efficiency of Distributed Antenna Systems With Wireless Power Transfer. IEEE Journal on Selected Areas in Communications, 2019, 37, 89-99.	14.0	25
32	A Network Flow Approach to Throughput Maximization in Cooperative OFDMA Networks. IEEE Transactions on Wireless Communications, 2013, 12, 1138-1148.	9.2	24
33	QoS-Aware Transmission Policies for OFDM Bidirectional Decode-and-Forward Relaying. IEEE Transactions on Wireless Communications, 2013, 12, 2206-2216.	9.2	23
34	An Analytical Model Based on Surface Potential for a-Si:H Thin-Film Transistors. Journal of Display Technology, 2008, 4, 180-187.	1.2	22
35	Carbon Clothâ€supported MoS₂/Ag₂S/Ag₃PO₄ Composite with High Photocatalytic Activity and Recyclability. ChemCatChem, 2019, 11, 1017-1025.	3.7	22
36	Exploiting NOMA for Cooperative Edge Computing. IEEE Wireless Communications, 2019, 26, 99-103.	9.0	20

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37	Effect of Self-Assembled Monolayers (SAMs) as Surface Passivation on the Flexible a-InSnZnO Thin-Film Transistors. IEEE Transactions on Electron Devices, 2020, 67, 3157-3162.	3.0	20
38	A new broadband circularly polarized antenna with a singleâ€layer metasurface. International Journal of RF and Microwave Computer-Aided Engineering, 2020, 30, e22226.	1.2	20
39	Exploiting Trust Degree for Multiple-Antenna User Cooperation. IEEE Transactions on Wireless Communications, 2017, 16, 4908-4923.	9.2	19
40	Secure Transmission in Linear Multihop Relaying Networks. IEEE Transactions on Wireless Communications, 2018, 17, 822-834.	9.2	19
41	Subthreshold characteristics of polysilicon TFTs. Solid-State Electronics, 2008, 52, 695-703.	1.4	18
42	Hybrid Duplex Switching in Heterogeneous Networks. IEEE Transactions on Wireless Communications, 2016, 15, 7419-7431.	9.2	18
43	Cooperative Content Delivery in Multicast Multihop Device-to-Device Networks. IEEE Access, 2017, 5, 6314-6324.	4.2	18
44	A Mobile Robot Visual SLAM System With Enhanced Semantics Segmentation. IEEE Access, 2020, 8, 25442-25458.	4.2	17
45	Scaling Down Effect on Low Frequency Noise in Polycrystalline Silicon Thin-Film Transistors. IEEE Journal of the Electron Devices Society, 2019, 7, 203-209.	2.1	15
46	User Selection and Power Minimization in Full-Duplex Cloud Radio Access Networks. IEEE Transactions on Signal Processing, 2019, 67, 2426-2438.	5.3	15
47	Analytical Drain Current Model for Organic Thin-Film Transistors at Different Temperatures Considering Both Deep and Tail Trap States. IEEE Transactions on Electron Devices, 2016, 63, 4423-4431.	3.0	13
48	Low-Frequency Noise in Hybrid-Phase- Microstructure ITO-Stabilized ZnO Thin-Film Transistors. IEEE Electron Device Letters, 2018, 39, 200-203.	3.9	13
49	Charge-Then-Forward: Wireless-Powered Communication for Multiuser Relay Networks. IEEE Transactions on Communications, 2018, 66, 5155-5167.	7.8	13
50	Temperature-Dependent Low-Frequency Noise in Indiumâ€“Zincâ€“Oxide Thin-Film Transistors Down to 10 K. IEEE Transactions on Electron Devices, 2019, 66, 2192-2197.	3.0	13
51	Data Sensing and Offloading in Edge Computing Networks: TDMA or NOMA?. IEEE Transactions on Wireless Communications, 2022, 21, 4497-4508.	9.2	13
52	Deployment Optimization of Reconfigurable Intelligent Surface for Relay Systems. IEEE Transactions on Green Communications and Networking, 2022, 6, 221-233.	5.5	13
53	Secure beamforming for MIMO two-way transmission with an untrusted relay. , 2013, , .		12
54	Joint Uplink and Downlink Transmissions in User-Centric OFDMA Cloud-RAN. IEEE Transactions on Vehicular Technology, 2019, 68, 7776-7788.	6.3	12

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55	See-Through Near-Eye Display with Built-in Prescription and Two-Dimensional Exit Pupil Expansion. Applied Sciences (Switzerland), 2020, 10, 3901.	2.5	12
56	A Physical Model with the Effects of Self-Heating and Variable Resistance in Above-Threshold Region for Hydrogenated Amorphous Silicon Thin Film Transistor. Japanese Journal of Applied Physics, 2008, 47, 4436-4440.	1.5	11
57	Joint Power Splitting and Secure Beamforming Design in the Wireless-Powered Untrusted Relay Networks. , 2015, , .		11
58	Analysis of Indiumâ€“Zincâ€“Oxide Thin-Film Transistors Under Electrostatic Discharge Stress. IEEE Transactions on Electron Devices, 2018, 65, 356-360.	3.0	11
59	A novel wideband circularly polarized modified squareâ€slot antenna with loaded strips. International Journal of RF and Microwave Computer-Aided Engineering, 2019, 29, e21873.	1.2	11
60	Data-Importance Aware Radio Resource Allocation: Wireless Communication Helps Machine Learning. IEEE Communications Letters, 2020, 24, 1981-1985.	4.1	11
61	Stackelberg game for spectrum reuse in the two-tier LTE femtocell network. , 2013, , .		10
62	Distributed cross-layer resource allocation for statistical QoS provisioning in femtocell networks. , 2013, , .		10
63	Interference pricing for device-to-device communications. , 2014, , .		10
64	Distributed user association and interference coordination in HetNets using Stackelberg game. , 2015, , .		10
65	Energy efficiency in multicast multihop D2D networks. , 2016, , .		10
66	A High Gain Low-Noise Amplifier Based on ITO-Stabilized ZnO Thin-Film Transistors. IEEE Transactions on Electron Devices, 2020, 67, 5537-5543.	3.0	10
67	A Two-Timescale Approach to Mobility Management for Multicell Mobile Edge Computing. IEEE Transactions on Wireless Communications, 2022, 21, 10981-10995.	9.2	9
68	Total Ionizing Dose Radiation Effects in the P-Type Polycrystalline Silicon Thin Film Transistors. Chinese Physics Letters, 2017, 34, 018501.	3.3	8
69	Analytical Drain Current Model for Amorphous InGaZnO Thin-Film Transistors at Different Temperatures Considering Both Deep and Tail Trap States. IEEE Transactions on Electron Devices, 2017, 64, 3654-3660.	3.0	8
70	Secrecy Rate Maximization With Outage Constraint in Multihop Relaying Networks. IEEE Communications Letters, 2018, 22, 304-307.	4.1	8
71	User Cooperation for NOMA-Based Mobile Edge Computing. , 2018, , .		8
72	A Two-Sided Matching Approach for Distributed Edge Computation Offloading. , 2019, , .		8

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73	Training Efficiency of Federated Learning: A Wireless Communication Perspective. , 2020, , .		8
74	Gate Dielectric Treated by Self-Assembled Monolayers (SAMs) to Enhance the Performance of InSnZnO Thin-Film Transistors. IEEE Transactions on Electron Devices, 2022, 69, 2398-2403.	3.0	8
75	Outage Analysis of Distributed Antenna System with Delayed CSI and Unequal-Power Cochannel Interferers. IEEE Communications Letters, 2014, 18, 769-772.	4.1	7
76	Low frequency noise and radiation response in the partially depleted SOI MOSFETs with ion implanted buried oxide. Chinese Physics B, 2015, 24, 088503.	1.4	7
77	Temperature-Dependent Drain Current Characteristics and Low Frequency Noises in Indium Zinc Oxide Thin Film Transistors. Chinese Physics Letters, 2015, 32, 088506.	3.3	7
78	Degradation of currentâ€“voltage and low frequency noise characteristics under negative bias illumination stress in InZnO thin film transistors. Chinese Physics B, 2018, 27, 068504.	1.4	7
79	A Novel Envelope Detector Based on Unipolar Metal-Oxide TFTs. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 2367-2371.	3.0	7
80	Noise Is Useful: Exploiting Data Diversity for Edge Intelligence. IEEE Wireless Communications Letters, 2021, 10, 957-961.	5.0	7
81	Instability of Indium Zinc Oxide Thin-Film Transistors Under Transmission Line Pulsed Stress. IEEE Electron Device Letters, 2014, 35, 1254-1256.	3.9	6
82	Joint Low-Power Transmit and Cell Association in Heterogeneous Networks. , 2015, , .		6
83	Orientation Effect of Field-to-Line Coupling in a TEM Cell. IEEE Transactions on Electromagnetic Compatibility, 2017, 59, 970-979.	2.2	6
84	Robust Secure Resource Allocation for Downlink Two-User MISO Rate-Splitting Systems. , 2020, , .		6
85	Introducing effective temperature into Arrhenius equation with Meyer-Neldel rule for describing both Arrhenius and non-Arrhenius dependent drain current of amorphous InGaZnO TFTs. Solid-State Electronics, 2021, 181-182, 108011.	1.4	6
86	Joint Subcarrier Assignment and Power Allocation for OFDMA Full Duplex Distributed Antenna Systems. IEEE Transactions on Vehicular Technology, 2021, 70, 11554-11564.	6.3	6
87	Cooperative Spectrum Sensing and Fusion Based on Tangle Networks. IEEE Transactions on Network Science and Engineering, 2022, 9, 3614-3632.	6.4	6
88	QoS-aware policies for OFDM bidirectional transmission with decode-and-forward relaying. , 2012, , .		5
89	Adaptive scheduling for OFDM bidirectional transmission with a buffered relay. , 2013, , .		5
90	Distance-Based Hybrid Duplex in Heterogeneous Networks. , 2015, , .		5

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91	Joint Secure Beamforming for Cognitive Radio Networks with Untrusted Secondary Users. , 2015, , .		5
92	Link Scheduling in SWIPT Systems. , 2016, , .		5
93	Optimal power splitting for SWIPT-based MIMO DF relay systems. , 2017, , .		5
94	Temperature Dependence of Electrical Characteristics in Indium-Zinc-Oxide Thin Film Transistors from 10 K to 400 K. Chinese Physics Letters, 2018, 35, 098502.	3.3	5
95	Multicell Grant-Free Uplink IoT Networks With Hard Deadline Services in URLLC. IEEE Wireless Communications Letters, 2022, 11, 1448-1452.	5.0	5
96	Cross-layer resource allocation of two-way relaying for statistical delay-QoS guarantees. , 2012, , .		4
97	Energy harvesting for secure OFDMA systems. , 2014, , .		4
98	Trapped-Charge-Effect-Based Above-Threshold Current Expressions for Amorphous Silicon TFTs Consistent With Paoâ€“Sah Model. IEEE Transactions on Electron Devices, 2014, 61, 3744-3750.	3.0	4
99	Secrecy Wireless Information and Power Transfer in OFDMA Systems. , 2015, , .		4
100	Jammer Selection in Heterogeneous Networks with Full-Duplex Users. , 2016, , .		4
101	Investigation of top gate GaN thin-film transistor fabricated by DC magnetron sputtering. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2018, 36, 032203.	1.2	4
102	Joint Uplink-Downlink Resource Allocation in OFDMA Cloud Radio Access Networks. , 2018, , .		4
103	Admission Control Based Distributed Multiuser Computation Offloading for Edge Computing. , 2019, , .		4
104	Dynamic Channel Selection and Transmission Scheduling for Cognitive Radio Networks. IEEE Internet of Things Journal, 2022, 9, 24429-24443.	8.7	4
105	Auction-Based Optimal Power Allocation in Multiuser Cooperative Networks. , 2011, , .		3
106	An optimal graph approach for optimizing OFDMA relay networks. , 2012, , .		3
107	Secure beamforming based on sparsity in multiple amplify-and-forward MIMO relay networks. , 2014, , .		3
108	Sparse Beamforming in Multiple Multi-Antenna Amplify-and-Forward Relay Networks. IEEE Communications Letters, 2014, 18, 1023-1026.	4.1	3

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109	On the performance analysis of finite wireless network. , 2015, , .		3
110	Secure Routing in Full-Duplex Jamming Multihop Relaying. , 2016, , .		3
111	Subgraph feature extraction based on multi-view dictionary learning for graph classification. Knowledge-Based Systems, 2021, 214, 106716.	7.1	3
112	User Selection Aware Joint Radio-and-Computing Resource Allocation for Federated Edge Learning. , 2020, , .		3
113	An Implementation of Embedded Geographic Information System Based on Cloud Computing. , 2011, , .		2
114	Secrecy Wireless Information and Power Transfer in OFDMA Systems. , 2014, , .		2
115	Decoupled uplink-downlink association for finite multi-tier networks. , 2015, , .		2
116	Dynamic Energy Harvesting in Cooperative Cognitive Radio Networks. , 2016, , .		2
117	170â€‰keV Proton radiation effects on low-frequency noise of bipolar junction transistors. Radiation Effects and Defects in Solids, 2017, 172, 313-322.	1.2	2
118	Negative gate bias stress effects on conduction and low frequency noise characteristics in p-type poly-Si thin-film transistors. Chinese Physics B, 2019, 28, 088502.	1.4	2
119	Arithmetic and Logic Circuits Based on ITO-Stabilized ZnO TFT for Transparent Electronics. IEEE Transactions on Circuits and Systems I: Regular Papers, 2022, 69, 356-365.	5.4	2
120	A Spatiotemporal Model for Hard-deadline Multi-stream Traffic in Uplink IoT Networks. IEEE Internet of Things Journal, 2021, , 1-1.	8.7	2
121	Channel-Adaptive Quantization for Wireless Federated Learning. , 2021, , .		2
122	A physics-based compact model for MoS₂ field-effect transistors considering the band-tail effect and contact resistance. Japanese Journal of Applied Physics, 2020, 59, 104004.	1.5	2
123	A physical model based on surface potential for double-gate a-Si:H TFTs. , 2009, , .		1
124	Total dose irradiation effects in the μA741 operational amplifier with different biases. , 2013, , .		1
125	Variation of offset voltage in the irradiated bipolar voltage comparators. , 2014, , .		1
126	Joint Power Splitting and Secure Beamforming Design in the Wireless-Powered Untrusted Relay Networks. , 2014, , .		1

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127	Modeling of thermal behavior in the amorphous silicon thin film transistors. , 2014, , .		1
128	Analysis of low frequency noise characteristics in p-type polycrystallineÂsilicon thin film transistors. Modern Physics Letters B, 2017, 31, 1740020.	1.9	1
129	Simultaneous Wireless Information and Power Transfer with Finite-Alphabet Inputs. Wireless Personal Communications, 2017, 96, 655-668.	2.7	1
130	Uplink simultaneous wireless information and power transfer with non-orthogonal multiple access. , 2017, , .		1
131	Low-Frequency Noise in Amorphous Indium Zinc Oxide Thin Film Transistors with Aluminum Oxide Gate Insulator. Chinese Physics Letters, 2018, 35, 048502.	3.3	1
132	Relay-Assisted Multiuser Wireless Powered Communication with Processing Costs. , 2018, , .		1
133	Modeling of contact resistance effect on low frequency noise in indiumâ€“zinc oxide thin-film transistors. Modern Physics Letters B, 2019, 33, 1950185.	1.9	1
134	DOA Estimation without Source Number for Cyber-Physical Interactions. Complexity, 2020, 2020, 1-5.	1.6	1
135	Joint 3D Placement and Power Allocation for UAV-aided MIMO-NOMA Networks. , 2020, , .		1
136	Dimension Scaling Effects on Conduction and Low Frequency Noise Characteristics of ITO-Stabilized ZnO Thin Film Transistors. IEEE Journal of the Electron Devices Society, 2020, 8, 435-441.	2.1	1
137	Broadband Dual-Polarized Multidipole Antenna for Base Station Applications. International Journal of Antennas and Propagation, 2021, 2021, 1-8.	1.2	1
138	Effect of Hydrogen on Long-Term Reliability of InZnO TFTs Characterized by Low-Frequency Noise. IEEE Journal of the Electron Devices Society, 2021, 9, 778-782.	2.1	1
139	Cooperative Computation Offloading in NOMA-Based Edge Computing. , 2020, , .		1
140	Temperature dependence of conduction and low frequency noise characteristics in GaN Schottky barrier diodes. Modern Physics Letters B, 2021, 35, 2150134.	1.9	1
141	Service Migration for Multi-Cell Mobile Edge Computing. , 2020, , .		1
142	Differentially Private Federated Learning in Multi-Cell Networks. , 2021, , .		1
143	Surface-potential-based drain current model for two-dimensional organic TFTs using the multiple trapping and release conduction theory. Solid-State Electronics, 2022, 187, 108206.	1.4	1
144	Graph-Based Optimization for Relay-Assisted Bidirectional Cellular Networks. , 2010, , .		0

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145	Modeling of reverse subthreshold currents in the A-Si:H TFTs. , 2013, , .		0
146	Electromagnetic interference effects in the bipolar voltage comparators. , 2014, , .		0
147	Simulations of single event transient effects in the LM139 voltage comparator. , 2014, , .		0
148	Distance-Based Hybrid Duplex in Heterogeneous Networks. , 2014, , .		0
149	Joint Secure Beamforming for Cognitive Radio Networks with Untrusted Secondary Users. , 2014, , .		0
150	Joint Low-Power Transmit and Cell Association in Heterogeneous Networks. , 2014, , .		0
151	SINR analysis of heterogeneous networks with hybrid duplex. , 2015, , .		0
152	Comparative study of mobility extraction methods in p-type polycrystalline silicon thin film transistors. Modern Physics Letters B, 2017, 31, 1740007.	1.9	0
153	User-Centric OFDMA Cloud Radio Access Networks with Fronthaul Capacity Constraints. , 2017, , .		0
154	Drain current model based on the Meyer-Neldel Rule for polycrystalline ZnO thin-film transistors at different temperatures. , 2017, , .		0
155	Wireless Powered Relaying for Multiuser Transmission. , 2017, , .		0
156	Energy-Efficient SWIPT in Distributed Antenna Systems. , 2017, , .		0
157	User-Centric Energy Efficiency of Distributed Antenna Systems with Wireless Power Transfer. , 2018, , .		0
158	Analytical Drain Current Model for Amorphous and Polycrystalline Silicon Thin-Film Transistors at Different Temperatures Considering Both Deep and Tail Trap States. , 2018, , .		0
159	Temperature dependence of conduction and low frequency noise characteristics in hydrogenated amorphous silicon thin film transistors. Modern Physics Letters B, 2019, 33, 1950009.	1.9	0
160	A surface potential-based DC model considering interface trap states for 4H-SiC power MOSFETs. AIP Advances, 2020, 10, 095224.	1.3	0
161	67â€4: Visual Simultaneous Localization and Mapping with Deep Neural Network Based Loop Detection for Augmented Reality. Digest of Technical Papers SID International Symposium, 2020, 51, 1005-1008.	0.3	0
162	DC model for SiC MOSFETs using artificial neural network optimized by artificial bee colony algorithm. AIP Advances, 2021, 11, 115219.	1.3	0