

Xiaojun Wang

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107
papers

836
citations

15
h-index

24
g-index

143
ext. papers

1,061
ext. citations

2.9
avg, IF

4.54
L-index

#	Paper	IF	Citations
107	Highly power-efficient quantum cascade lasers. <i>Nature Photonics</i> , 2010 , 4, 95-98	33.9	119
106	Multilevel pattern mining architecture for automatic network monitoring in heterogeneous wireless communication networks. <i>China Communications</i> , 2016 , 13, 108-116	3	69
105	Low power architecture for high speed packet classification 2008 ,		33
104	Parallel photonic quantum computation assisted by quantum dots in one-side optical microcavities. <i>Scientific Reports</i> , 2014 , 4, 5732	4.9	32
103	A novel quantum image steganography algorithm based on exploiting modification direction. <i>Multimedia Tools and Applications</i> , 2019 , 78, 7981-8001	2.5	26
102	Low latency flexible FPGA implementation of point multiplication on elliptic curves over GF(p). <i>International Journal of Circuit Theory and Applications</i> , 2017 , 45, 214-228	2	23
101	High performance hardware support for elliptic curve cryptography over general prime field. <i>Microprocessors and Microsystems</i> , 2017 , 51, 331-342	2.4	22
100	Universal quantum computation with qudits. <i>Science China: Physics, Mechanics and Astronomy</i> , 2014 , 57, 1712-1717	3.6	21
99	Quantum Image Steganography Protocol Based on Quantum Image Expansion and Grover Search Algorithm. <i>IEEE Access</i> , 2019 , 7, 50849-50857	3.5	19
98	Matrix Coding-Based Quantum Image Steganography Algorithm. <i>IEEE Access</i> , 2019 , 7, 35684-35698	3.5	17
97	Effect of quantum noise on deterministic remote state preparation of an arbitrary two-particle state via various quantum entangled channels. <i>Quantum Information Processing</i> , 2017 , 16, 1	1.6	17
96	Serial and parallel interleaved modular multipliers on FPGA platform 2015 ,		16
95	Hybrid quantum-state joining and splitting assisted by quantum dots in one-side optical microcavities. <i>Physical Review A</i> , 2015 , 91,	2.6	15
94	Geometry of quantum computation with qudits. <i>Scientific Reports</i> , 2014 , 4, 4044	4.9	15
93	An Enhanced Privacy-Preserving Authentication Scheme for Vehicle Sensor Networks. <i>Sensors</i> , 2017 , 17,	3.8	15
92	A secure controlled quantum image steganography algorithm. <i>Quantum Information Processing</i> , 2020 , 19, 1	1.6	15
91	An Efficient V2I Authentication Scheme for VANETs. <i>Mobile Information Systems</i> , 2018 , 2018, 1-11	1.4	15

90	Single-mode quantum cascade lasers based on a folded Fabry-Perot cavity. <i>Applied Physics Letters</i> , 2011 , 98, 061110	3.4	14
89	A distributed and efficient system architecture for smart home. <i>International Journal of Sensor Networks</i> , 2016 , 20, 119	0.8	13
88	FPGA Based High Speed SPA Resistant Elliptic Curve Scalar Multiplier Architecture. <i>International Journal of Reconfigurable Computing</i> , 2016 , 2016, 1-10	2.1	13
87	Ultra-High Throughput Low-Power Packet Classification. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2014 , 22, 286-299	2.6	11
86	Energy efficient packet classification hardware accelerator. <i>Parallel and Distributed Processing Symposium (IPDPS), Proceedings of the International Conference on</i> , 2008 ,		11
85	Deterministic generations of quantum state with no more than six qubits. <i>Quantum Information Processing</i> , 2015 , 14, 901-920	1.6	10
84	Teleportation of a ququart system using hyperentangled photons assisted by atomic-ensemble memories. <i>Physical Review A</i> , 2016 , 93,	2.6	10
83	Quantum private comparison based on quantum dense coding. <i>Science China Information Sciences</i> , 2016 , 59, 1	3.4	10
82	Multi-Factorial Energy Aware Resource Management in Edge Networks. <i>IEEE Transactions on Green Communications and Networking</i> , 2019 , 3, 45-56	4	10
81	Hybrid Toffoli gate on photons and quantum spins. <i>Scientific Reports</i> , 2015 , 5, 16716	4.9	9
80	Greedy Tree Growing Heuristics on Block-Test Scheduling Under Power Constraints. <i>Journal of Electronic Testing: Theory and Applications (JETTA)</i> , 2004 , 20, 61-78	0.7	8
79	Efficient atomic and photonic multipartite W state concentration via photonic faraday rotation. <i>European Physical Journal D</i> , 2014 , 68, 1	1.3	7
78	Comparative study of power consumption of a NetFPGA-based forwarding node in publishSubscribe Internet routing. <i>Computer Communications</i> , 2014 , 44, 36-43	5.1	7
77	Unified quantum no-go theorems and transforming of quantum pure states in a restricted set. <i>Quantum Information Processing</i> , 2017 , 16, 1	1.6	7
76	Radix-4 and radix-8 booth encoded interleaved modular multipliers over general Fp 2014 ,		7
75	Secure Video Streaming with Lightweight Cipher PRESENT in an SDN Testbed. <i>Computers, Materials and Continua</i> , 2018 , 57, 353-363	3.9	7
74	Improved quantum ripple-carry addition circuit. <i>Science China Information Sciences</i> , 2016 , 59, 1	3.4	7
73	Hierarchical power management architecture and optimal local control policy for energy efficient networks. <i>Journal of Communications and Networks</i> , 2016 , 18, 540-550	4.1	7

72	Quantum Computation Based on Photons with Three Degrees of Freedom. <i>Scientific Reports</i> , 2016 , 6, 25977	4.9	6
71	Chaotic map-based time-aware multi-keyword search scheme with designated server. <i>Wireless Communications and Mobile Computing</i> , 2016 , 16, 1851-1858	1.9	6
70	A high-speed RSD-based flexible ECC processor for arbitrary curves over general prime field. <i>International Journal of Circuit Theory and Applications</i> , 2018 , 46, 1858-1878	2	6
69	Redundant-Signed-Digit-Based High Speed Elliptic Curve Cryptographic Processor. <i>Journal of Circuits, Systems and Computers</i> , 2019 , 28, 1950081	0.9	6
68	Universal remote quantum computation assisted by the cavity input-output process. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2015 , 471, 20150274	2.4	6
67	QoE-oriented resource allocation for multiuser-multiservice femtocell networks. <i>China Communications</i> , 2015 , 12, 27-41	3	6
66	StriFA: Stride Finite Automata for High-Speed Regular Expression Matching in Network Intrusion Detection Systems. <i>IEEE Systems Journal</i> , 2013 , 7, 374-384	4.3	6
65	The effect of quantum noise on two different deterministic remote state preparation of an arbitrary three-particle state protocols. <i>Quantum Information Processing</i> , 2018 , 17, 1	1.6	6
64	Traffic Aware Energy Efficient Router: Architecture, Prototype and Algorithms. <i>IEEE Journal on Selected Areas in Communications</i> , 2016 , 34, 3814-3827	14.2	5
63	Anti-Noise Bidirectional Quantum Steganography Protocol with Large Payload. <i>International Journal of Theoretical Physics</i> , 2018 , 57, 1903-1927	1.1	5
62	Assessing Chinese campus building energy performance using fuzzy analytic network approach. <i>Journal of Intelligent and Fuzzy Systems</i> , 2015 , 29, 2629-2638	1.6	5
61	Intelligent coal mine monitoring system based on the Internet of Things 2013 ,		5
60	Multi-Engine Packet Classification Hardware Accelerator 2009 ,		5
59	Keep Forwarding Path Freshest in VANET via Applying Reinforcement Learning 2019 ,		5
58	Design and Performance Comparison of Modular Multipliers Implemented on FPGA Platform. <i>Lecture Notes in Computer Science</i> , 2016 , 251-260	0.9	4
57	Efficient montgomery multiplier for pairing and elliptic curve based cryptography 2014 ,		4
56	Distributed atomic quantum information processing via optical fibers. <i>Scientific Reports</i> , 2017 , 7, 1234	4.9	4
55	Controlled Photon Switch Assisted by Coupled Quantum Dots. <i>Scientific Reports</i> , 2015 , 5, 11169	4.9	4

54	Efficient quantum transmission in multiple-source networks. <i>Scientific Reports</i> , 2014 , 4, 4571	4.9	4
53	. <i>IEEE Journal on Selected Areas in Communications</i> , 2014 , 1-1	14.2	4
52	Power consumption analysis of a NetFPGA based router. <i>Journal of China Universities of Posts and Telecommunications</i> , 2012 , 19, 94-99		4
51	Ultra-high throughput string matching for Deep Packet Inspection 2010 ,		4
50	2008 ,		4
49	A Low-Cost Self-Test Architecture Integrated With PRESENT Cipher Core. <i>IEEE Access</i> , 2019 , 7, 46045-46058	9.58	3
48	Energy saving local control policy for Green Reconfigurable Routers 2015 ,		3
47	TCP/IP Reassembly in Network Intrusion Detection and Prevention Systems. <i>International Journal of Information Security and Privacy</i> , 2014 , 8, 63-76	0.9	3
46	Towards efficient and scalable data mining using spark 2014 ,		3
45	Hardware acceleration of regular expression repetitions in deep packet inspection. <i>IET Information Security</i> , 2013 , 7, 327-335	1.4	3
44	StriD²FA: Scalable Regular Expression Matching for Deep Packet Inspection 2011 ,		3
43	Dynamic frequency scaling architecture for energy efficient router 2012 ,		3
42	Cellular automata based secure distributed storage scheme with integrity proof. <i>Computers and Electrical Engineering</i> , 2017 , 59, 291-304	4.3	2
41	Generations of N-atom GHZ state and (2 ⁿ)-atom W state assisted by quantum dots in optical microcavities. <i>Quantum Information Processing</i> , 2015 , 14, 3661-3676	1.6	2
40	Distributed two-hop proportional fair resource allocation in Long Term Evolution Advanced networks. <i>Wireless Communications and Mobile Computing</i> , 2016 , 16, 264-278	1.9	2
39	Typical universal entanglers. <i>Science China: Physics, Mechanics and Astronomy</i> , 2014 , 57, 1913-1917	3.6	2
38	Flow-table updating strategy for efficient use of renewable energy in software defined wireless relay networks. <i>Journal of Communications and Networks</i> , 2017 , 19, 605-617	4.1	2
37	Power measurement of NetFPGA based router 2012 ,		2

36	Wavelength selection and spectral narrowing of Distributed Bragg Reflector quantum cascade lasers up to peak optical power. <i>Optics Express</i> , 2013 , 21, 31012-8	3.3	2
35	ADAPTIVE WEIGHTED LEAST SQUARES SVM BASED SNOWING MODEL FOR IMAGE DENOISING. <i>International Journal of Wavelets, Multiresolution and Information Processing</i> , 2013 , 11, 1350043	0.9	2
34	Power Analysis of Packet Classification on Programmable Network Processors 2007 ,		2
33	Distributed Photonic Quantum Computations Assisted by Atomic Ensembles. <i>IEEE Journal of Quantum Electronics</i> , 2016 , 52, 1-8	2	2
32	A Performance Comparison of the PRESENT Lightweight Cryptography Algorithm on Different Hardware Platforms 2018 ,		2
31	Energy-efficient operation of a network of OpenFlow switches featuring hardware acceleration and frequency scaling. <i>Transactions on Emerging Telecommunications Technologies</i> , 2019 , 30, e3619	1.9	1
30	An overview of phishing attacks and their detection techniques. <i>International Journal of Internet Protocol Technology</i> , 2016 , 9, 187	0.3	1
29	PROGRES: A Programmable Green Router With Controlled Service Rate. <i>IEEE Access</i> , 2019 , 7, 143792-143804	3.9	1
28	Adaptive partial frequency reuse in LTE-Advanced relay networks 2015 ,		1
27	Energy evaluation of gigabit routers towards energy efficient network 2014 ,		1
26	Service-aware bidirectional throughput optimisation route-selection strategy in long-term evolution-advanced networks. <i>IET Networks</i> , 2014 , 3, 259-266	2.8	1
25	Pattern overlap in bit-parallel implementation of regular expression repetition quantifiers. <i>International Journal of Security and Networks</i> , 2013 , 8, 231	0.5	1
24	End-to-end QoS guaranteed seamless handover scheme for cognitive heterogeneous networks 2010 ,		1
23	Energy efficient cooperative relaying and cognitive radio technologies to deliver green communication 2011 ,		1
22	Power-constrained block-test list scheduling 2000 ,		1
21	Energy-efficiency-aware flow-based access control in HetNets with renewable energy supply. <i>International Journal of Computational Science and Engineering</i> , 2020 , 21, 437	0.4	1
20	Greening the NetFPGA Reference Router. <i>Energies</i> , 2016 , 9, 500	3.1	1
19	A flexible and robust wireless home network structure. <i>International Journal of Sensor Networks</i> , 2016 , 21, 116	0.8	1

18	Joint Power Control and User Association Strategy in Green HetNets Using Deep Q-Network with LSTM 2019 ,		1
17	Joint Optimization of Multi-Hop Broadcast Protocol and MAC Protocol in Vehicular Ad Hoc Networks. <i>Sensors</i> , 2021 , 21,	3.8	1
16	Splitting an Arbitrary Three-Qubit State via a Five-Qubit Cluster State and a Bell State.. <i>Entropy</i> , 2022 , 24,	2.8	1
15	Optimizing energy-efficiency for program partitioning and mapping onto multi-core packet processing systems. <i>Journal of China Universities of Posts and Telecommunications</i> , 2012 , 19, 79-86		0
14	Lattice-based public-key encryption with conjunctive keyword search in multi-user setting for IIoT. <i>Cluster Computing</i> ,1	2.1	0
13	Outsourced Mutual Private Set Intersection Protocol for Edge-Assisted IoT. <i>Security and Communication Networks</i> , 2021 , 2021, 1-11	1.9	0
12	Analysis and Optimization of Multi-hop Broadcast Communication in the Internet of Vehicles Based on C-V2X Mode 4. <i>IEEE Sensors Journal</i> , 2022 , 1-1	4	0
11	Energy efficient virtual network embedding for wireless multi-hop cellular networks using multi-commodity flow algorithm. <i>International Journal of Sensor Networks</i> , 2019 , 29, 203	0.8	
10	The impact of networking algorithms on the power consumption of routers. <i>Energy Efficiency</i> , 2018 , 11, 189-201	3	
9	Green Precision Time Protocol Router Using Dynamic Frequency Scaling. <i>Lecture Notes in Computer Science</i> , 2016 , 104-115	0.9	
8	C2BF: Cache-based Counting Bloom Filter for Precise Matching in Network Packet Processing. <i>Procedia Engineering</i> , 2012 , 29, 3747-3754		
7	Tag-DFA for Improved DFA Compression in Deep Packet Inspection. <i>Procedia Engineering</i> , 2012 , 29, 3755-3762		
6	A Decentralized Multi-agent Reinforcement Learning Approach for Resource Sharing and Allocation in Renewable Energy Powered Wireless Networks. <i>Communications in Computer and Information Science</i> , 2020 , 640-651	0.3	
5	Green Energy Forecast Based on Improved Grey Model for Green Base Stations. <i>Lecture Notes in Computer Science</i> , 2016 , 12-22	0.9	
4	SDEC: Spectrum-Aware Degree-Ranking-Based Energy-Efficient Clustering Algorithm for Multi-hop CRN. <i>Lecture Notes in Computer Science</i> , 2014 , 230-240	0.9	
3	Redactable Blockchain Trust Scheme Based on Reputation Consensus for MEC. <i>Computational Intelligence and Neuroscience</i> , 2022 , 2022, 1-14	3	
2	Linkable Ring Signature Scheme from INTRU Lattice. <i>Communications in Computer and Information Science</i> , 2022 , 40-53	0.3	
1	A Fair Blockchain Transaction Based on Commitment. <i>Communications in Computer and Information Science</i> , 2022 , 54-69	0.3	

