

Integrated Blockchain and Edge Computing Systems: A Challenges

IEEE Communications Surveys and Tutorials

21, 1508-1532

DOI: [10.1109/comst.2019.2894727](https://doi.org/10.1109/comst.2019.2894727)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Enabling Proof-of-Work for Low-End IoT Devices. , 2019, , .		1
2	Blockchain-Based Secure Storage Management with Edge Computing for IoT. Electronics (Switzerland), 2019, 8, 828.	1.8	43
3	Blockchain-Based Distributed Software-Defined Vehicular Networks: A Dueling Deep $\{Q\}$ -Learning Approach. IEEE Transactions on Cognitive Communications and Networking, 2019, 5, 1086-1100.	4.9	70
4	Edge Computing in 5G: A Review. IEEE Access, 2019, 7, 127276-127289.	2.6	226
5	QoS Aware Transcoding for Live Streaming in Edge-Clouds Aided HetNets: An Enhanced Actor-Critic Approach. IEEE Transactions on Vehicular Technology, 2019, 68, 11295-11308.	3.9	44
6	A Survey on Blockchain: A Game Theoretical Perspective. IEEE Access, 2019, 7, 47615-47643.	2.6	112
7	Blockchain Technology in Healthcare: A Comprehensive Review and Directions for Future Research. Applied Sciences (Switzerland), 2019, 9, 1736.	1.3	302
8	Delay and Communication Tradeoffs for Blockchain Systems With Lightweight IoT Clients. IEEE Internet of Things Journal, 2019, 6, 2354-2365.	5.5	90
9	Edge computing: A survey. Future Generation Computer Systems, 2019, 97, 219-235.	4.9	634
10	The Messaging Model Design Based Blockchain and Edge Computing for the Internet of Things. , 2019, , .		2
11	SEC-BlockEdge: Security Threats in Blockchain-Edge based Industrial IoT Networks. , 2019, , .		10
12	The Messaging Protocols Analysis of Integrating Blockchain and Edge Computing for IoT. , 2019, , .		2
13	A Framework of Decentralized Electricity Market Based on The Collaborative Mechanism of Blockchain and Edge Computing. , 2019, , .		6
14	Device-Enhanced MEC: Multi-Access Edge Computing (MEC) Aided by End Device Computation and Caching: A Survey. IEEE Access, 2019, 7, 166079-166108.	2.6	146
15	A Blockchain-Based Traffic Conditions and Driving Behaviors Warning Scheme in the Internet of Vehicles. , 2019, , .		4
16	Blockchain Applications for Industry 4.0 and Industrial IoT: A Review. IEEE Access, 2019, 7, 176935-176951.	2.6	246
17	Blockchain-Based Secure Spectrum Trading for Unmanned-Aerial-Vehicle-Assisted Cellular Networks: An Operator's Perspective. IEEE Internet of Things Journal, 2020, 7, 451-466.	5.5	127
18	DeepCoin: A Novel Deep Learning and Blockchain-Based Energy Exchange Framework for Smart Grids. IEEE Transactions on Engineering Management, 2020, 67, 1285-1297.	2.4	208

#	ARTICLE	IF	CITATIONS
19	Survey: Sharding in Blockchains. IEEE Access, 2020, 8, 14155-14181.	2.6	136
20	Prediction of the price of Ethereum blockchain cryptocurrency in an industrial finance system. Computers and Electrical Engineering, 2020, 81, 106527.	3.0	106
21	A Decentralized and Trusted Edge Computing Platform for Internet of Things. IEEE Internet of Things Journal, 2020, 7, 3910-3922.	5.5	52
22	Cyber-Physical-Social Systems: A State-of-the-Art Survey, Challenges and Opportunities. IEEE Communications Surveys and Tutorials, 2020, 22, 389-425.	24.8	106
23	Cooperative Computation Offloading and Resource Allocation for Blockchain-Enabled Mobile-Edge Computing: A Deep Reinforcement Learning Approach. IEEE Internet of Things Journal, 2020, 7, 6214-6228.	5.5	224
24	Distributed Dynamic Resource Management and Pricing in the IoT Systems With Blockchain-as-a-Service and UAV-Enabled Mobile Edge Computing. IEEE Internet of Things Journal, 2020, 7, 1974-1993.	5.5	91
25	Blockchain Based Smart Contracts for Internet of Medical Things in e-Healthcare. Electronics (Switzerland), 2020, 9, 1609.	1.8	108
26	When Blockchain Meets SGX: An Overview, Challenges, and Open Issues. IEEE Access, 2020, 8, 170404-170420.	2.6	37
27	UAV-Assisted Data Transmission in Blockchain-Enabled M2M Communications with Mobile Edge Computing. IEEE Network, 2020, 34, 242-249.	4.9	33
28	Task Offloading Strategy of 6G Heterogeneous Edge-Cloud Computing Model considering Mass Customization Mode Collaborative Manufacturing Environment. Mathematical Problems in Engineering, 2020, 2020, 1-8.	0.6	5
29	Double-Blockchain Assisted Secure and Anonymous Data Aggregation for Fog-Enabled Smart Grid. Engineering, 2022, 8, 159-169.	3.2	37
30	Blockchain-based public auditing for big data in cloud storage. Information Processing and Management, 2020, 57, 102382.	5.4	137
31	A survey on recent optimal techniques for securing <scp>unmanned aerial vehicles</scp> applications. Transactions on Emerging Telecommunications Technologies, 2021, 32, e4133.	2.6	55
32	Blockchain for Internet of things applications: A review and open issues. Journal of Network and Computer Applications, 2020, 172, 102839.	5.8	44
33	Collective Remote Attestation at the Internet of Things Scale: State-of-the-Art and Future Challenges. IEEE Communications Surveys and Tutorials, 2020, 22, 2447-2461.	24.8	35
34	Applications of blockchain in ensuring the security and privacy of electronic health record systems: A survey. Computers and Security, 2020, 97, 101966.	4.0	231
35	A security integration model for private data of intelligent mobile communication based on edge computing. Computer Communications, 2020, 162, 204-211.	3.1	5
36	A Survey on the Usage of Blockchain Technology for Cyber-Threats in the Context of Industry 4.0. Sustainability, 2020, 12, 9179.	1.6	44

#	ARTICLE	IF	CITATIONS
37	Edge Computing to Secure IoT Data Ownership and Trade with the Ethereum Blockchain. Sensors, 2020, 20, 3965.	2.1	37
38	Fog computing systems: State of the art, research issues and future trends, with a focus on resilience. Journal of Network and Computer Applications, 2020, 169, 102784.	5.8	35
39	ChainFaaS: An Open Blockchain-Based Serverless Platform. IEEE Access, 2020, 8, 131760-131778.	2.6	15
40	6G Wireless Systems: A Vision, Architectural Elements, and Future Directions. IEEE Access, 2020, 8, 147029-147044.	2.6	193
41	Cerberus: Privacy-Preserving Computation in Edge Computing. , 2020, , .		6
42	Towards Mobile Edge Computing: Taxonomy, Challenges, Applications and Future Realms. IEEE Access, 2020, 8, 189129-189162.	2.6	26
43	On the Design of Secure Communication Framework for Blockchain-Based Internet of Intelligent Battlefield Things Environment. , 2020, , .		10
44	Integration of Blockchain and Cloud of Things: Architecture, Applications and Challenges. IEEE Communications Surveys and Tutorials, 2020, 22, 2521-2549.	24.8	117
45	BlockEdge: Blockchain-Edge Framework for Industrial IoT Networks. IEEE Access, 2020, 8, 154166-154185.	2.6	61
46	Edge Computing and Its Convergence With Blockchain in 5G and Beyond: Security, Challenges, and Opportunities. IEEE Access, 2020, 8, 205340-205373.	2.6	30
47	Comparative Analysis of Bitcoin, Ethereum, and Libra. , 2020, , .		10
49	Integrating consortium blockchain into edge server to defense against ransomware attack. Procedia Computer Science, 2020, 177, 120-127.	1.2	3
50	Practical Modeling and Analysis of Blockchain Radio Access Network. IEEE Transactions on Communications, 2020, , 1-1.	4.9	27
51	A Tutorial and Future Research for Building a Blockchain-Based Secure Communication Scheme for Internet of Intelligent Things. IEEE Access, 2020, 8, 88700-88716.	2.6	41
52	Complementing IoT Services Through Software Defined Networking and Edge Computing: A Comprehensive Survey. IEEE Communications Surveys and Tutorials, 2020, 22, 1761-1804.	24.8	208
53	Enhanced Lightning Network (off-chain)-based micropayment in IoT ecosystems. Future Generation Computer Systems, 2020, 112, 283-296.	4.9	29
54	Blockchain for 5G and beyond networks: A state of the art survey. Journal of Network and Computer Applications, 2020, 166, 102693.	5.8	239
55	Communication Aspects of the Integration of Wireless IoT Devices with Distributed Ledger Technology. IEEE Network, 2020, 34, 47-53.	4.9	26

#	ARTICLE	IF	CITATIONS
56	Differential privacy in blockchain technology: A futuristic approach. Journal of Parallel and Distributed Computing, 2020, 145, 50-74.	2.7	58
57	A Review on Application of Blockchain in 5G and Beyond Networks: Taxonomy, Field-Trials, Challenges and Opportunities. IEEE Access, 2020, 8, 115876-115904.	2.6	58
58	Blockchain-Incentivized D2D and Mobile Edge Caching: A Deep Reinforcement Learning Approach. IEEE Network, 2020, 34, 150-157.	4.9	24
59	Reputation-Based Coalition Formation for Secure Self-Organized and Scalable Sharding in IoT Blockchains With Mobile-Edge Computing. IEEE Internet of Things Journal, 2020, 7, 11830-11850.	5.5	36
60	Reinforcement Learning in Blockchain-Enabled IIoT Networks: A Survey of Recent Advances and Open Challenges. Sustainability, 2020, 12, 5161.	1.6	48
61	Blockchain and Machine Learning for Communications and Networking Systems. IEEE Communications Surveys and Tutorials, 2020, 22, 1392-1431.	24.8	167
62	Reliable Task Management Based on a Smart Contract for Runtime Verification of Sensing and Actuating Tasks in IoT Environments. Sensors, 2020, 20, 1207.	2.1	25
63	Applications of blockchain in unmanned aerial vehicles: A review. Vehicular Communications, 2020, 23, 100249.	2.7	130
64	Blockchain-Enabled Cross-Domain Object Detection for Autonomous Driving: A Model Sharing Approach. IEEE Internet of Things Journal, 2020, 7, 3681-3692.	5.5	60
65	Expected Income of New Currency in Blockchain Based on Data-Mining Technology. Electronics (Switzerland), 2020, 9, 160.	1.8	2
66	Blockchain Meets Cloud Computing: A Survey. IEEE Communications Surveys and Tutorials, 2020, 22, 2009-2030.	24.8	199
67	Blockchain Empowered Cooperative Authentication With Data Traceability in Vehicular Edge Computing. IEEE Transactions on Vehicular Technology, 2020, 69, 4221-4232.	3.9	61
68	Edge-Computing-Enabled Smart Cities: A Comprehensive Survey. IEEE Internet of Things Journal, 2020, 7, 10200-10232.	5.5	219
69	Bayesian Reinforcement Learning and Bayesian Deep Learning for Blockchains With Mobile Edge Computing. IEEE Transactions on Cognitive Communications and Networking, 2021, 7, 319-335.	4.9	19
70	ECBCM: A prestige-based edge computing blockchain security consensus model. Transactions on Emerging Telecommunications Technologies, 2021, 32, e4015.	2.6	7
71	CREAT: Blockchain-Assisted Compression Algorithm of Federated Learning for Content Caching in Edge Computing. IEEE Internet of Things Journal, 2022, 9, 14151-14161.	5.5	55
72	Ethereum smart contract security research: survey and future research opportunities. Frontiers of Computer Science, 2021, 15, 1.	1.6	98
73	Convergence of Blockchain and Edge Computing for Secure and Scalable IIoT Critical Infrastructures in Industry 4.0. IEEE Internet of Things Journal, 2021, 8, 2300-2317.	5.5	153

#	ARTICLE	IF	CITATIONS
74	Blockchain for the Internet of Vehicles Towards Intelligent Transportation Systems: A Survey. IEEE Internet of Things Journal, 2021, 8, 4157-4185.	5.5	213
75	When Deep Reinforcement Learning Meets Federated Learning: Intelligent Multitimescale Resource Management for Multiaccess Edge Computing in 5G Ultradense Network. IEEE Internet of Things Journal, 2021, 8, 2238-2251.	5.5	162
76	A Blockchain-Based Containerized Edge Computing Platform for the Internet of Vehicles. IEEE Internet of Things Journal, 2021, 8, 2395-2408.	5.5	42
77	Towards 6G wireless communication networks: vision, enabling technologies, and new paradigm shifts. Science China Information Sciences, 2021, 64, 1.	2.7	858
78	A survey on network forwarding in Software-Defined Networking. Journal of Network and Computer Applications, 2021, 176, 102947.	5.8	12
79	Blockchain-Based Edge Computing Resource Allocation in IoT: A Deep Reinforcement Learning Approach. IEEE Internet of Things Journal, 2021, 8, 2226-2237.	5.5	93
80	Energy-Efficient Resource Allocation for Blockchain-Enabled Industrial Internet of Things With Deep Reinforcement Learning. IEEE Internet of Things Journal, 2021, 8, 2318-2329.	5.5	53
81	Intelligent Charging Path Planning for IoT Network Over Blockchain-Based Edge Architecture. IEEE Internet of Things Journal, 2021, 8, 2379-2394.	5.5	12
82	Joint Chain-Based Service Provisioning and Request Scheduling for Blockchain-Powered Edge Computing. IEEE Internet of Things Journal, 2021, 8, 2135-2149.	5.5	9
83	Distributed Charging-Record Management for Electric Vehicle Networks via Blockchain. IEEE Internet of Things Journal, 2021, 8, 2150-2162.	5.5	12
84	Blockchain-Based Secure Computation Offloading in Vehicular Networks. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 4073-4087.	4.7	27
85	LayerChain: A Hierarchical Edge-Cloud Blockchain for Large-Scale Low-Delay Industrial Internet of Things Applications. IEEE Transactions on Industrial Informatics, 2021, 17, 5077-5086.	7.2	33
86	Learning-Based Mobile Edge Computing Resource Management to Support Public Blockchain Networks. IEEE Transactions on Mobile Computing, 2021, 20, 1092-1109.	3.9	33
87	Trustworthy Blockchain-Empowered Collaborative Edge Computing-as-a-Service Scheduling and Data Sharing in the IIoE. IEEE Internet of Things Journal, 2022, 9, 14752-14766.	5.5	17
88	Potential Identity Resolution Systems for the Industrial Internet of Things: A Survey. IEEE Communications Surveys and Tutorials, 2021, 23, 391-430.	24.8	27
89	Profit Maximizing Smart Manufacturing Over AI-Enabled Configurable Blockchains. IEEE Internet of Things Journal, 2022, 9, 346-358.	5.5	10
90	Data Security and Privacy Requirements in Edge Computing. Advances in Computational Intelligence and Robotics Book Series, 2021, , 171-187.	0.4	0
91	Privacy-Preserving Blockchain-Based Federated Learning for Marine Internet of Things. IEEE Transactions on Computational Social Systems, 2022, 9, 159-173.	3.2	19

#	ARTICLE	IF	CITATIONS
92	A Blockchain-Based Multi-Cloud Storage Data Auditing Scheme to Locate Faults. IEEE Transactions on Cloud Computing, 2022, 10, 2252-2263.	3.1	75
93	Resource Allocation and Service Provisioning in Multi-Agent Cloud Robotics: A Comprehensive Survey. IEEE Communications Surveys and Tutorials, 2021, 23, 842-870.	24.8	66
94	Cipher Block Chaining Support Vector Machine for Secured Decentralized Cloud Enabled Intelligent IoT Architecture. IEEE Access, 2021, 9, 98013-98025.	2.6	29
95	A Trusted Consensus Scheme for Collaborative Learning in the Edge AI Computing Domain. IEEE Network, 2021, 35, 204-210.	4.9	13
96	Understanding the Trends in Blockchain Domain Through an Unsupervised Systematic Patent Analysis. IEEE Transactions on Engineering Management, 2023, 70, 1991-2005.	2.4	12
97	Secure and Efficient Data Sharing Among Vehicles Based on Consortium Blockchain. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 8857-8867.	4.7	56
98	Accelerating at the Edge: A Storage-Elastic Blockchain for Latency-Sensitive Vehicular Edge Computing. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 11862-11876.	4.7	17
99	A Survey on Multi-Access Edge Computing Applied to Video Streaming: Some Research Issues and Challenges. IEEE Communications Surveys and Tutorials, 2021, 23, 871-903.	24.8	83
100	Large-Scale Data Storage Scheme in Blockchain Ledger Using IPFS and NoSQL. Advances in Information Security, Privacy, and Ethics Book Series, 2021, , 91-116.	0.4	8
101	Demystifying Blockchain Technology for Resource-Constrained IoT Devices: Parameters, Challenges and Future Perspective. IEEE Access, 2021, 9, 129264-129277.	2.6	4
102	The Use of Blockchain to Support Distributed AI Implementation in IoT Systems. IEEE Internet of Things Journal, 2022, 9, 14790-14802.	5.5	13
104	The Intersection of Blockchain and 6G Technologies. Computer Communications and Networks, 2021, , 393-417.	0.8	1
105	LARS: A Latency-aware and Real-time Scheduling Framework for Edge-enabled Internet of Vehicles. IEEE Transactions on Services Computing, 2021, , 1-1.	3.2	8
106	Investigation on Industry Applications of Blockchain Technology. Advances in Marketing, Customer Relationship Management, and E-services Book Series, 2021, , 143-158.	0.7	0
107	HIDRA: A Distributed Blockchain-Based Architecture for Fog/Edge Computing Environments. IEEE Access, 2021, 9, 75231-75251.	2.6	17
108	Fusion of Blockchain Technology with 5G: A Symmetric Beginning. , 2021, , 61-81.		2
109	Transaction Throughput Optimization for Integrated Blockchain and MEC System in IoT. IEEE Transactions on Wireless Communications, 2022, 21, 1022-1036.	6.1	15
110	ChainSensing: A Novel Mobile Crowdsensing Framework With Blockchain. IEEE Internet of Things Journal, 2022, 9, 2999-3010.	5.5	9

#	ARTICLE	IF	CITATIONS
111	Privacy-Preserving Mechanism in Smart Home Using Blockchain. IEEE Access, 2021, 9, 103651-103669.	2.6	30
112	IIoT Data Sharing Based on Blockchain: A Multileader Multifollower Stackelberg Game Approach. IEEE Internet of Things Journal, 2022, 9, 4396-4410.	5.5	22
113	Blockchain-Enabled Internet of Things (IoT) Platforms for Pharmaceutical and Biomedical Research. Advances in Intelligent Systems and Computing, 2021, , 589-600.	0.5	26
114	Adaptive and Robust Routing With Lyapunov-Based Deep RL in MEC Networks Enabled by Blockchains. IEEE Internet of Things Journal, 2021, 8, 2208-2225.	5.5	16
115	A Blockchain-Driven IIoT Traffic Classification Service for Edge Computing. IEEE Internet of Things Journal, 2021, 8, 2124-2134.	5.5	19
116	Revealing Development Trends in Blockchain-Based 5G Network Technologies through Patent Analysis. Sustainability, 2021, 13, 2548.	1.6	8
117	6G Enabled Smart Infrastructure for Sustainable Society: Opportunities, Challenges, and Research Roadmap. Sensors, 2021, 21, 1709.	2.1	120
118	ChainsFL: Blockchain-driven Federated Learning from Design to Realization. , 2021, , .		15
120	A Blockchain-Based Trusted Edge Platform in Edge Computing Environment. Sensors, 2021, 21, 2126.	2.1	19
121	Joint optimization of network selection and task offloading for vehicular edge computing. Journal of Cloud Computing: Advances, Systems and Applications, 2021, 10, .	2.1	27
122	CoopEdge: A Decentralized Blockchain-based Platform for Cooperative Edge Computing. , 2021, , .		85
123	Re-establishment and Regarding Trust and Transparency, Blockchainâ€™s Contribution to the Solution of a Thousand-Year Problem. DÄ¼zce Åœniversitesi Bilim Ve Teknoloji Dergisi, 0, , .	0.2	1
124	B-ReST: Blockchain-Enabled Resource Sharing and Transactions in Fog Computing. IEEE Wireless Communications, 2021, 28, 172-180.	6.6	25
125	A Survey of State-of-the-Art on Blockchains. ACM Computing Surveys, 2022, 54, 1-42.	16.1	68
126	Blockchain-Enabled Access Management System for Edge Computing. Electronics (Switzerland), 2021, 10, 1000.	1.8	7
127	Integration of Blockchain and Machine Learning for Microgrids. , 2021, , .		2
128	Cloud/Edge Computing Resource Allocation and Pricing for Mobile Blockchain: An Iterative Greedy and Search Approach. IEEE Transactions on Computational Social Systems, 2021, 8, 451-463.	3.2	39
129	A Blockchain-aided Self-Sovereign Identity Framework for Edge-based UAV Delivery System. , 2021, , .		5

#	ARTICLE	IF	CITATIONS
130	Edge-Based Blockchain Architecture for Event-Driven IoT using Hierarchical Identity Based Encryption. Information Processing and Management, 2021, 58, 102528.	5.4	27
131	Deep reinforcement learning-based incentive mechanism design for short video sharing through D2D communication. Peer-to-Peer Networking and Applications, 2021, 14, 3946-3958.	2.6	3
132	A survey for the application of blockchain technology in the media. Peer-to-Peer Networking and Applications, 2021, 14, 3143-3165.	2.6	29
133	Deep reinforcement learning for blockchain in industrial IoT: A survey. Computer Networks, 2021, 191, 108004.	3.2	58
134	Blockchain-Based Security Framework for a Critical Industry 4.0 Cyber-Physical System. IEEE Communications Magazine, 2021, 59, 128-134.	4.9	31
135	Applying machine learning techniques for caching in next-generation edge networks: A comprehensive survey. Journal of Network and Computer Applications, 2021, 181, 103005.	5.8	80
136	Blockchain for decentralization of internet: prospects, trends, and challenges. Cluster Computing, 2021, 24, 2841-2866.	3.5	69
137	Reliable Data Transmission over Energy-Efficient Vehicular Network Based on Blockchain and MEC. , 2021, , .		2
138	Blockchain-based trust management in cloud computing systems: a taxonomy, review and future directions. Journal of Cloud Computing: Advances, Systems and Applications, 2021, 10, .	2.1	44
139	Edge Blockchain Assisted Lightweight Privacy-Preserving Data Aggregation for Smart Grid. IEEE Transactions on Network and Service Management, 2021, 18, 1246-1259.	3.2	51
140	Securing IoT-Blockchain Applications Through Honesty-Based Distributed Proof of Authority Consensus Algorithm. , 2021, , .		10
141	Security Concerns of Fog Computing in Field of Healthcare using Blockchain: A Review. , 2021, , .		1
142	An Overview of Blockchain Technology: Applications, Challenges and Future Trends. , 2021, , .		15
143	Blockchain-empowered Data-driven Networks. ACM Computing Surveys, 2022, 54, 1-38.	16.1	20
144	S-PoDL: A two-stage computational-efficient consensus mechanism for blockchain-enabled multi-access edge computing. Physical Communication, 2021, 46, 101338.	1.2	6
145	A Novel IoV Block-Streaming Service Awareness and Trusted Verification Scheme in 6G. IEEE Transactions on Vehicular Technology, 2021, 70, 5197-5210.	3.9	30
146	BloTHR: Electronic Health Record Servicing Scheme in IoT-Blockchain Ecosystem. IEEE Internet of Things Journal, 2021, 8, 10857-10872.	5.5	61
147	A Survey on Blockchain-Based Search Engines. Applied Sciences (Switzerland), 2021, 11, 7063.	1.3	6

#	ARTICLE	IF	CITATIONS
148	Can blockchain link the future?. Digital Communications and Networks, 2022, 8, 687-694.	2.7	20
149	IoT Service Slicing and Task Offloading for Edge Computing. IEEE Internet of Things Journal, 2021, 8, 11526-11547.	5.5	46
150	Edge-enabled Mobile Crowdsensing to Support Effective Rewarding for Data Collection in Pandemic Events. Journal of Grid Computing, 2021, 19, 28.	2.5	8
151	Fog Computing for Smart Grids. , 2021, , 7-31.		0
152	Smart water conservation through a machine learning and blockchain-enabled decentralized edge computing network. Applied Soft Computing Journal, 2021, 106, 107274.	4.1	16
153	IoT Big Data provenance scheme using blockchain on Hadoop ecosystem. Journal of Big Data, 2021, 8, .	6.9	19
154	A Blockchain-Based Deep Learning Approach for Cyber Security in Next Generation Industrial Cyber-Physical Systems. IEEE Transactions on Industrial Informatics, 2021, 17, 5522-5532.	7.2	51
155	Blockchain for securing aerial communications: Potentials, solutions, and research directions. Physical Communication, 2021, 47, 101390.	1.2	17
156	A Study on Lightweight And Secure Edge Computing Based Blockchain. , 2021, , .		1
158	Blockchain and MEC-assisted reliable billing data transmission over electric vehicular network: An actor-critic RL approach. China Communications, 2021, 18, 279-296.	2.0	7
159	A comprehensive review on blockchain and Internet of Things in healthcare. Transactions on Emerging Telecommunications Technologies, 2021, 32, e4333.	2.6	39
160	Drug Packaging Management Based on the Effect of Medical Images on the Intracellular Polysaccharide Synthesis and Antivertigo Activity of Phalaenopsis. Journal of Healthcare Engineering, 2021, 2021, 1-12.	1.1	0
161	Enabling Massive IoT Toward 6G: A Comprehensive Survey. IEEE Internet of Things Journal, 2021, 8, 11891-11915.	5.5	282
162	A Blockchain-Based Microgrid Data Disaster Backup Scheme in Edge Computing. Security and Communication Networks, 2021, 2021, 1-19.	1.0	3
163	Distributed Secure Edge Computing Architecture Based on Blockchain for Real-Time Data Integrity in IoT Environments. Actuators, 2021, 10, 197.	1.2	9
164	Federated Learning Meets Blockchain in Edge Computing: Opportunities and Challenges. IEEE Internet of Things Journal, 2021, 8, 12806-12825.	5.5	255
165	BEI-TAB: Enabling Secure and Distributed Airport Baggage Tracking with Hybrid Blockchain-Edge System. Wireless Communications and Mobile Computing, 2021, 2021, 1-12.	0.8	0
166	A Review of Blockchain-Based Applications and Challenges. Wireless Personal Communications, 2022, 123, 1201-1243.	1.8	11

#	ARTICLE	IF	CITATIONS
167	Joint Distributed Cache and Power Control in Haptic Communications: A Potential Game Approach. IEEE Internet of Things Journal, 2021, 8, 14418-14430.	5.5	9
168	Deep reinforcement learning assisted edge-terminal collaborative offloading algorithm of blockchain computing tasks for energy Internet. International Journal of Electrical Power and Energy Systems, 2021, 131, 107022.	3.3	19
169	Integration of federated machine learning and blockchain for the provision of secure big data analytics for Internet of Things. Computers and Security, 2021, 109, 102393.	4.0	55
170	Throughput-Efficient Lagrange Coded Private Blockchain for Secured IoT Systems. IEEE Internet of Things Journal, 2021, 8, 14874-14895.	5.5	10
171	Federated deep reinforcement learning based secure data sharing for Internet of Things. Computer Networks, 2021, 197, 108327.	3.2	19
172	DR-BFT: A consensus algorithm for blockchain-based multi-layer data integrity framework in dynamic edge computing system. Future Generation Computer Systems, 2021, 124, 33-48.	4.9	16
173	Blockchain-based decentralized architecture for cloud storage system. Journal of Information Security and Applications, 2021, 62, 102970.	1.8	10
174	Toward secure distributed data storage with error locating in blockchain enabled edge computing. Computer Standards and Interfaces, 2022, 79, 103560.	3.8	32
175	Decentralized transactive energy community in edge grid with positive buildings and interactive electric vehicles. International Journal of Electrical Power and Energy Systems, 2022, 135, 107510.	3.3	47
176	A Blockchain-Based Machine Learning Framework for Edge Services in IIoT. IEEE Transactions on Industrial Informatics, 2022, 18, 1918-1929.	7.2	58
177	A Survey of Decentralizing Applications via Blockchain: The 5G and Beyond Perspective. IEEE Communications Surveys and Tutorials, 2021, 23, 2191-2217.	24.8	60
178	Enabling and Leveraging AI in the Intelligent Edge: A Review of Current Trends and Future Directions. IEEE Open Journal of the Communications Society, 2021, 2, 2311-2341.	4.4	2
179	Blockchain-Empowered Drone Networks: Architecture, Features, and Future. IEEE Network, 2021, 35, 86-93.	4.9	18
180	Dynamic Shift from Cloud Computing to Industry 4.0: Eco-Friendly Choice or Climate Change Threat. Lecture Notes on Data Engineering and Communications Technologies, 2021, , 275-293.	0.5	3
181	A Survey on Blockchain Technology: Evolution, Architecture and Security. IEEE Access, 2021, 9, 61048-61073.	2.6	182
182	Edge Computing Integrated with Blockchain Technologies. Lecture Notes in Computer Science, 2020, , 268-288.	1.0	16
183	Tangle the Blockchain: Toward IOTA and Blockchain Integration for IoT Environment. Advances in Intelligent Systems and Computing, 2021, , 429-440.	0.5	3
184	Serving at the Edge: A Redactable Blockchain with Fixed Storage. Lecture Notes in Computer Science, 2020, , 654-667.	1.0	6

#	ARTICLE	IF	CITATIONS
185	Libra Critique Towards Global Decentralized Financial System. Communications in Computer and Information Science, 2019, , 661-672.	0.4	5
186	An overview of privacy preserving schemes for industrial Internet of Things. China Communications, 2020, 17, 1-18.	2.0	22
187	Blockchain-Enabled Edge Intelligence for IoT: Background, Emerging Trends and Open Issues. Future Internet, 2021, 13, 48.	2.4	27
188	Blockchain-Based Multi-Access Edge Computing for Future Vehicular Networks: A Deep Compressed Neural Network Approach. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 12161-12175.	4.7	19
189	Blockchain for Edge of Things: Applications, Opportunities, and Challenges. IEEE Internet of Things Journal, 2022, 9, 964-988.	5.5	90
190	Joint Offloading and Resource Allocation in Cooperative Blockchain-Enabled MEC System. , 2021, , .		2
191	Blockchain-based solutions for cloud computing: A survey. Journal of Network and Computer Applications, 2021, 196, 103246.	5.8	16
192	A way forward towards a technologyâ€driven development of industry 4.0 using big data analytics in 5Gâ€enabled IIoT. International Journal of Communication Systems, 2022, 35, .	1.6	11
193	Survey on blockchain for future smart grids: Technical aspects, applications, integration challenges and future research. Energy Reports, 2021, 7, 6530-6564.	2.5	58
195	Challenges in Adoption of Blockchain in Developing Countries. , 2019, , .		7
196	A Blockchain Based Solution for Securing Data of IoT Devices. Lecture Notes in Computer Science, 2020, , 122-129.	1.0	1
197	Resource Management for Energy-Efficient and Blockchain-Enabled Industrial IoT: A DRL Approach. , 2020, , .		3
198	Deep Reinforcement Learning based Node Pairing Scheme in Edge-Chain for IoT Applications. , 2020, , .		2
199	Security and Privacy Implementation in Smart Home: Attributes Based Access Control and Smart Contracts. , 2020, , .		11
200	A Lightweight Cross-Domain Proximity-Based Authentication Method for IoT Based on IOTA. , 2020, , .		6
201	Elaborative Investigation of Blockchain Technology in Intelligent Networks. Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series, 2022, , 93-106.	0.5	0
202	A Game-Based Secure Trading of Big Data and IoT Services: Blockchain as a Two-Sided Market. Lecture Notes in Computer Science, 2020, , 85-100.	1.0	9
203	A Secure Cross-Shard View-Change Protocol for Sharding Blockchains. Lecture Notes in Computer Science, 2021, , 372-390.	1.0	4

#	ARTICLE	IF	CITATIONS
205	CSEdge: Enabling Collaborative Edge Storage for Multi-Access Edge Computing Based on Blockchain. IEEE Transactions on Parallel and Distributed Systems, 2022, 33, 1873-1887.	4.0	55
206	Blockchain-Enhanced Spatiotemporal Data Aggregation for UAV-Assisted Wireless Sensor Networks. IEEE Transactions on Industrial Informatics, 2022, 18, 4520-4530.	7.2	16
207	Blockchain technology as a Fog computing security and privacy solution: An overview. Computer Communications, 2022, 182, 129-152.	3.1	38
208	Modeling Collaborative AI for Dynamic Systems of Blockchain-ed Autonomous Agents. , 2021, , .		2
209	What roles do smart sensors play in citizens' water use? From the perspective of household water-saving. Water Science and Technology: Water Supply, 2022, 22, 3519-3525.	1.0	7
210	Distributed Ledgers for Distributed Edge. , 2021, , .		2
211	Dronesâ€™ Edge Intelligence Over Smart Environments in B5G: Blockchain and Federated Learning Synergy. IEEE Transactions on Green Communications and Networking, 2022, 6, 295-312.	3.5	58
212	Blockchain-Empowered Space-Air-Ground Integrated Networks: Opportunities, Challenges, and Solutions. IEEE Communications Surveys and Tutorials, 2022, 24, 160-209.	24.8	66
213	Blockchain for Mobile Edge Computing: Consensus Mechanisms and Scalability. , 2021, , 333-357.		18
214	Blockchain-Based Electronic Health Records Management: A Comprehensive Review and Future Research Direction. IEEE Access, 2022, 10, 5768-5789.	2.6	29
215	Blockchain-IoT peer device storage optimization using an advanced time-variant multi-objective particle swarm optimization algorithm. Eurasip Journal on Wireless Communications and Networking, 2022, 2022, .	1.5	11
216	Hdpoa: Honesty-Based Distributed Proof of Authority Via Scalable Work Consensus Protocol for IoT-Blockchain Applications. SSRN Electronic Journal, 0, , .	0.4	1
217	Energy innovations through blockchain: Challenges, opportunities, and the road ahead. Electricity Journal, 2022, 35, 107059.	1.3	14
218	A taxonomy study on securing Blockchain-based Industrial applications: An overview, application perspectives, requirements, attacks, countermeasures, and open issues. Journal of Industrial Information Integration, 2022, 26, 100312.	4.3	20
219	Information fusion for edge intelligence: A survey. Information Fusion, 2022, 81, 171-186.	11.7	42
220	A Space-Air-Ground Integrated Network Assisted Maritime Communication Network Based on Mobile Edge Computing. , 2020, , .		15
221	Design and Implementation of Digital Transaction System Based on Blockchain Environment. , 2020, , .		0
222	A Secure Distributed Blockchain Platform for Use in AI-Enabled IoT Applications. , 2020, , .		5

#	ARTICLE	IF	CITATIONS
223	Fog Computing enabled Smart Grid Blockchain Architecture and Performance Optimization with DRL Approach. , 2020, , .		2
225	Tangle the Blockchain:Towards Connecting Blockchain and DAG. , 2021, , .		3
226	BEI-TAB: Enabling Secure and Distributed Airport Baggage Tracking with Hybrid Blockchain-Edge System. , 2021, , .		1
227	Research on Data Security of Unmanned Aerial Vehicles. , 2021, , .		0
228	Cloud for Holography and Augmented Reality. , 2021, , .		8
229	Quality Optimization of Live Streaming Services over HTTP with Reinforcement Learning. , 2021, , .		3
230	Acceptance of Tourism Blockchain Based on Utaut and Connectivism Theory. SSRN Electronic Journal, 0, , .	0.4	1
231	DAGmap: Multi-Drone SLAM via a DAG-Based Distributed Ledger. Drones, 2022, 6, 34.	2.7	6
232	BloSM: Blockchain-Based Service Migration for Connected Cars in Embedded Edge Environment. Electronics (Switzerland), 2022, 11, 341.	1.8	4
233	Applications of Auction and Mechanism Design in Edge Computing: A Survey. IEEE Transactions on Cognitive Communications and Networking, 2022, 8, 1034-1058.	4.9	27
234	Elaborative Investigation of Blockchain Technology in Intelligent Networks. Advances in Computer and Electrical Engineering Book Series, 2022, , 60-79.	0.2	0
235	Blockchain for Cybersecurity in Edge Networks. IEEE Consumer Electronics Magazine, 2024, 13, 97-102.	2.3	15
236	A survey on blockchain for big data: Approaches, opportunities, and future directions. Future Generation Computer Systems, 2022, 131, 209-226.	4.9	184
237	A Blockchain-Assisted Electronic Medical Records by Using Proxy Reencryption and Multisignature. Security and Communication Networks, 2022, 2022, 1-13.	1.0	2
238	Distributed Ledger Technologies for Network Slicing: A Survey. IEEE Access, 2022, 10, 19412-19442.	2.6	16
239	Advanced digital signatures for preserving privacy and trust management in hierarchical heterogeneous IoT: Taxonomy, capabilities, and objectives. Internet of Things (Netherlands), 2022, 18, 100492.	4.9	13
240	An Overview of Fog Computing and Edge Computing Security and Privacy Issues. Sensors, 2021, 21, 8226.	2.1	29
241	RBaaS: A Robust Blockchain as a Service Paradigm in Cloud-Edge Collaborative Environment. IEEE Access, 2022, 10, 35437-35444.	2.6	10

#	ARTICLE	IF	CITATIONS
242	5G Communication for edge. Advances in Computers, 2022, , .	1.2	0
243	Downsampling and Transparent Coding for Blockchain. IEEE Transactions on Network Science and Engineering, 2022, 9, 2139-2149.	4.1	6
244	Toward Data Authenticity and Integrity for Blockchain-Based Mobile Edge Computing. IEEE Sensors Journal, 2022, 22, 9967-9980.	2.4	1
245	Aerial Computing: A New Computing Paradigm, Applications, and Challenges. IEEE Internet of Things Journal, 2022, 9, 8339-8363.	5.5	38
246	Research on Cross-chain Technology of Blockchain: Challenges and Prospects. , 2022, , .		3
247	Zero trust in edge computing environment: a blockchain based practical scheme. Mathematical Biosciences and Engineering, 2022, 19, 4196-4216.	1.0	7
248	Blockchain technology for IoT edge devices and data security. Advances in Computers, 2022, , 379-412.	1.2	5
249	A Secure Blockchain Platform for Supporting AI-Enabled IoT Applications at the Edge Layer. IEEE Access, 2022, 10, 18583-18595.	2.6	20
250	DRL-Based V2V Computation Offloading for Blockchain-Enabled Vehicular Networks. IEEE Transactions on Mobile Computing, 2023, 22, 3882-3897.	3.9	23
251	Blockchain-Enabled Approach for Big Data Processing in Edge Computing. IEEE Internet of Things Journal, 2022, 9, 18473-18486.	5.5	8
252	Intelligent Blockchain-Based Secure Routing for Multidomain SDN-Enabled IoT Networks. Wireless Communications and Mobile Computing, 2022, 2022, 1-10.	0.8	16
253	Covid-19 Vaccination A Strategic Approach Using Block chain Technology. , 2022, 1, .		0
254	Tunneling the barriers of blockchain technology in remanufacturing for achieving sustainable development goals: A circular manufacturing perspective. Business Strategy and the Environment, 2022, 31, 3769-3785.	8.5	46
255	Reputation-Based Sharding Consensus Model in Information-Centric Networking. Electronics (Switzerland), 2022, 11, 830.	1.8	0
256	Classification of resource management approaches in fog/edge paradigm and future research prospects: a systematic review. Journal of Supercomputing, 2022, 78, 13145-13204.	2.4	14
257	Distributed ledger technologies in vehicular mobile edge computing: a survey. Complex & Intelligent Systems, 2022, 8, 4403-4419.	4.0	1
258	EC-SAGINs: Edge-Computing-Enhanced Space-Air-Ground-Integrated Networks for Internet of Vehicles. IEEE Internet of Things Journal, 2022, 9, 5742-5754.	5.5	59
259	Blockchain-Based Trust Verification and Streaming Service Awareness for Big Data-Driven 5G and Beyond Vehicle-to-Everything (V2X) Communication. Wireless Communications and Mobile Computing, 2022, 2022, 1-13.	0.8	3

#	ARTICLE	IF	CITATIONS
260	AI Strategy for Stake Cloud Computing and Edge Computing: A State of the art survey. , 2021, , .		3
261	A Comprehensive Survey on Sharding in Blockchains. Mobile Information Systems, 2021, 2021, 1-22.	0.4	5
262	MEC and Blockchain-Enabled Energy-Efficient Internet of Vehicles Based on A3C Approach. , 2021, , .		8
263	Quantum Chain of Things (QCoT): A New Paradigm for Integrating Quantum Computing, Blockchain, and Internet of Things. , 2021, , .		8
264	FAITH: A Fast Blockchain-Assisted Edge Computing Platform for Healthcare Applications. IEEE Transactions on Industrial Informatics, 2022, 18, 9217-9226.	7.2	8
265	Application of artificial intelligence and machine learning in blockchain technology. , 2022, , 169-185.		3
266	Blockchain-Based Reliable Framework for Land Registration Information System. International Journal of Technology Diffusion, 2022, 13, 1-16.	0.2	2
268	Ultra-Lightweight and Secure Blockchain-Assisted Charging Scheduling Scheme for Vehicular Edge Networks by Utilization of NanoPi NEO. IEEE Transactions on Vehicular Technology, 2022, 71, 8116-8123.	3.9	3
269	An innovative approach for resource sharing and scheduling in a sustainable distributed manufacturing system. Advanced Engineering Informatics, 2022, 52, 101620.	4.0	11
270	Blockchain-Empowered High-Frequency Spectrum Management IoT: A Multilayer PBFT Consensus Perspective. Wireless Communications and Mobile Computing, 2022, 2022, 1-17.	0.8	1
271	Blockchain Applicability for the Internet of Things: Performance and Scalability Challenges and Solutions. Electronics (Switzerland), 2022, 11, 1416.	1.8	5
272	Embedded Intelligence: State-of-the-Art and Research Challenges. IEEE Access, 2022, 10, 59236-59258.	2.6	7
273	Securing Hybrid Architecture of Cloudlet Computing in 5G Networks Enabling IoT and Mobile Wireless Devices. Recent Advances in Computer Science and Communications, 2022, 15, .	0.5	0
274	Blockchain-based IoT enabled health monitoring system. Journal of Supercomputing, 2022, 78, 17284-17308.	2.4	9
275	A Survey on the Convergence of Edge Computing and AI for UAVs: Opportunities and Challenges. IEEE Internet of Things Journal, 2022, 9, 15435-15459.	5.5	92
276	A Survey of State-of-the-art on Edge Computing: Theoretical Models, Technologies, Directions, and Development Paths. IEEE Access, 2022, 10, 54038-54063.	2.6	7
277	Secure and reliable computation offloading in blockchain-assisted cyber-physical IoT systems. Digital Communications and Networks, 2022, 8, 625-635.	2.7	5
278	A load balancing scheme based on deep learning in blockchain network. , 2021, , .		1

#	ARTICLE	IF	CITATIONS
279	Cloudâ€Edge Collaborative Resource Allocation for Blockchain-Enabled Internet of Things: A Collective Reinforcement Learning Approach. IEEE Internet of Things Journal, 2022, 9, 23115-23129.	5.5	10
280	Toward Digital Twin Oriented Modeling of Complex Networked Systems and Their Dynamics: A Comprehensive Survey. IEEE Access, 2022, 10, 66886-66923.	2.6	9
281	Performance Analysis of Blockchain-Enabled Data-Sharing Scheme in Cloud-Edge Computing-Based IoT Networks. IEEE Internet of Things Journal, 2022, 9, 21520-21536.	5.5	14
282	current and potential role of blockchain-based technology in managing medical records in Africa. , 2022, 1, 52-68.		4
283	Integrating Edge Intelligence and Blockchain: What, Why, and How. IEEE Communications Surveys and Tutorials, 2022, 24, 2193-2229.	24.8	13
284	A Novel Non-Volatile Memory Update Mechanism for 6G Edge Computing. IEEE Transactions on Network Science and Engineering, 2023, 10, 1431-1444.	4.1	2
285	SDBlockEdge: SDN-Blockchain Enabled Multihop Task Offloading in Collaborative Edge Computing. IEEE Sensors Journal, 2022, 22, 15537-15548.	2.4	8
286	S-Hidra: A Blockchain and Sdn Domain-Based Architecture to Orchestrate Fog Computing Environments. SSRN Electronic Journal, 0, , .	0.4	0
287	Cooperative Computation Offloading in Blockchain-Based Vehicular Edge Computing Networks. IEEE Transactions on Intelligent Vehicles, 2022, 7, 783-798.	9.4	26
288	Secure Task Offloading in Blockchain-Enabled Mobile Edge Computing With Deep Reinforcement Learning. IEEE Transactions on Network and Service Management, 2022, 19, 4872-4887.	3.2	18
290	Industrial Cyber Intelligent Control Operating System that Hybrid with IEC 61499 and Big Data on Edge Computing. , 2022, , .		1
291	Acceptance of tourism blockchain based on UTAUT and connectivism theory. Technology in Society, 2022, 71, 102027.	4.8	23
292	Systematic Review on AI-Blockchain Based E-Healthcare Records Management Systems. IEEE Access, 2022, 10, 94583-94615.	2.6	19
293	Blockchain for 5G Advanced Wireless Networks. , 2022, , .		1
294	Internet of Things and Blockchain Integration: Security, Privacy, Technical, and Design Challenges. Future Internet, 2022, 14, 216.	2.4	20
295	An Edge Computing Data Privacy-Preserving Scheme Based on Blockchain and Homomorphic Encryption. , 2022, , .		4
296	Task Offloading Method of Internet of Vehicles Based on Cloud-Edge Computing. , 2022, , .		3
297	Edge Intelligence in Smart Grids: A Survey on Architectures, Offloading Models, Cyber Security Measures, and Challenges. Journal of Sensor and Actuator Networks, 2022, 11, 47.	2.3	14

#	ARTICLE	IF	CITATIONS
298	A Hierarchy Byzantine Fault Tolerance Consensus Protocol Based on Node Reputation. <i>Sensors</i> , 2022, 22, 5887.	2.1	4
299	Edge Computing with Artificial Intelligence: A Machine Learning Perspective. <i>ACM Computing Surveys</i> , 2023, 55, 1-35.	16.1	54
300	Blockchain search engine: Its current research status and future prospect in Internet of Things network. <i>Future Generation Computer Systems</i> , 2022, , .	4.9	3
301	A survey on blockchain-enabled federated learning and its prospects with digital twin. <i>Digital Communications and Networks</i> , 2022, , .	2.7	10
302	Trust in Edge-based Internet of Things Architectures: State of the Art and Research Challenges. <i>ACM Computing Surveys</i> , 2023, 55, 1-34.	16.1	21
305	HDPoA: Honesty-based distributed proof of authority via scalable work consensus protocol for IoT-blockchain applications. <i>Computer Networks</i> , 2022, 217, 109337.	3.2	4
306	Blockchain-based vehicular ad-hoc networks: A comprehensive survey. <i>Ad Hoc Networks</i> , 2022, 137, 102980.	3.4	12
308	Collaborative and Intelligent Resource Optimization for Computing and Caching in IoV With Blockchain and MEC Using A3C Approach. <i>IEEE Transactions on Vehicular Technology</i> , 2023, 72, 1449-1463.	3.9	10
309	Blockchain for Achieving Accountable Outsourcing Computations in Edge Computing. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
310	Blockchain Systems, Technologies, and Applications: A Methodology Perspective. <i>IEEE Communications Surveys and Tutorials</i> , 2023, 25, 353-385.	24.8	13
311	Trustworthy Federated Learning via Blockchain. <i>IEEE Internet of Things Journal</i> , 2023, 10, 92-109.	5.5	21
312	Blockchain Driven Edge Intelligence. <i>Wireless Networks</i> , 2022, , 43-78.	0.3	0
313	Edge Computing for Internet of Everything: A Survey. <i>IEEE Internet of Things Journal</i> , 2022, 9, 23472-23485.	5.5	50
314	A Blockchain-Based Efficient Data Integrity Verification Scheme in Multi-Cloud Storage. <i>IEEE Access</i> , 2022, 10, 105920-105929.	2.6	5
315	Distributed Ledger Technology Based Architecture for Decentralized Device-to-Device Communication Network. <i>IEEE Access</i> , 2022, 10, 92006-92022.	2.6	1
316	Anomaly Detection in Blockchain Networks: A Comprehensive Survey. <i>IEEE Communications Surveys and Tutorials</i> , 2023, 25, 289-318.	24.8	55
317	BIECS: A Blockchain-based Intelligent Edge Cooperation System for Latency-Sensitive Services. , 2022, , .		6
318	Building Integrated Photovoltaics 4.0: Digitization of the Photovoltaic Integration in Buildings for a Resilient Infra at Large Scale. <i>Electronics (Switzerland)</i> , 2022, 11, 2700.	1.8	16

#	ARTICLE	IF	CITATIONS
319	Lightweight Federated Reinforcement Learning for Independent Request Scheduling in Microgrids. , 2022, , .		2
320	Game-theoretic Designs for Blockchain-based IoT: Taxonomy and Research Directions. , 2022, , .		2
321	An Efficient Blockchain Transaction Retrieval System. Future Internet, 2022, 14, 267.	2.4	4
322	Developing a blockchain-based digitally secured model for the educational sector in Saudi Arabia toward digital transformation. PeerJ Computer Science, 0, 8, e1120.	2.7	3
324	Trusty authentication of devices using blockchain-cloud of things (B-CoT) for fulfilling commercial services. International Journal of Systems Assurance Engineering and Management, 0, , .	1.5	3
325	A Smart Contract Approach in Pakistan Using Blockchain for Land Management. International Journal of Innovations in Science and Technology, 2022, 4, 425-435.	0.1	1
326	Distributed Ledger Technologies for Cellular Networks and Beyond 5G: a survey. , 2022, , .		1
327	Dynamic Resource Allocation in an Adversarial Urban IoT Environment. Wireless Communications and Mobile Computing, 2022, 2022, 1-12.	0.8	0
328	Integration of blockchain and edge computing in internet of things: A survey. Future Generation Computer Systems, 2023, 144, 307-326.	4.9	22
329	A survey on the use of blockchain for future 6G: Technical aspects, use cases, challenges and research directions. Journal of Industrial Information Integration, 2022, 30, 100404.	4.3	17
330	Building blocks of sharding blockchain systems: Concepts, approaches, and open problems. Computer Science Review, 2022, 46, 100513.	10.2	22
331	A Full Dive Into Realizing the Edge-Enabled Metaverse: Visions, Enabling Technologies, and Challenges. IEEE Communications Surveys and Tutorials, 2023, 25, 656-700.	24.8	116
332	A Survey on Mobile Edge Computing for Video Streaming: Opportunities and Challenges. IEEE Access, 2022, 10, 120514-120550.	2.6	20
333	Energy-Aware UAV Based on Blockchain Model Using IoE Application in 6G Network-Driven Cyberwin. Energies, 2022, 15, 8304.	1.6	7
334	Fully homomorphic encryption-based privacy-preserving scheme for cross edge blockchain network. Journal of Systems Architecture, 2023, 134, 102782.	2.5	7
335	Intelligent contracts: Making smart contracts smart for blockchain intelligence. Computers and Electrical Engineering, 2022, 104, 108421.	3.0	2
336	A systematic review of the purposes of Blockchain and fog computing integration: classification and open issues. Journal of Cloud Computing: Advances, Systems and Applications, 2022, 11, .	2.1	7
337	A Survey of Multi-Access Edge Computing and Vehicular Networking. IEEE Access, 2022, 10, 123436-123451.	2.6	6

#	ARTICLE	IF	CITATIONS
338	Blockchain-Based Co-Operative Caching for Secure Content Delivery in CCN-Enabled V2G Networks. IEEE Transactions on Vehicular Technology, 2023, 72, 5274-5289.	3.9	3
339	CoopEdge+: Enabling Decentralized, Secure and Cooperative Multi-Access Edge Computing Based on Blockchain. IEEE Transactions on Parallel and Distributed Systems, 2023, 34, 894-908.	4.0	9
340	S-HIDRA: A blockchain and SDN domain-based architecture to orchestrate fog computing environments. Computer Networks, 2023, 221, 109512.	3.2	4
341	Blockchain Storage Optimisation With Multi-Level Distributed Caching. IEEE Transactions on Network and Service Management, 2022, 19, 3724-3736.	3.2	3
342	A Survey of Blockchain and Intelligent Networking for the Metaverse. IEEE Internet of Things Journal, 2023, 10, 3587-3610.	5.5	50
343	Integration of Blockchain and Auction Models: A Survey, Some Applications, and Challenges. IEEE Communications Surveys and Tutorials, 2023, 25, 497-537.	24.8	6
344	A Blockchain Sharding Protocol supporting Dynamic Locality in Mobile Edge Computing. , 2022, , .		0
345	Analysis of the Security and Reliability of Cryptocurrency Systems Using Knowledge Discovery and Machine Learning Methods. Sensors, 2022, 22, 9083.	2.1	3
346	Security provisions in smart edge computing devices using blockchain and machine learning algorithms: a novel approach. Cluster Computing, 2024, 27, 27-52.	3.5	1
347	Forecasting Ethereum Price by Tuned Long Short-Term Memory Model. , 2022, , .		6
348	A privacy-preserving data transfer in a blockchain-based commercial real estate platform using random address generation mechanism. Journal of Supercomputing, 0, , .	2.4	1
349	Blockchain technology in energy systems: A state-of-the-art review. IET Blockchain, 2023, 3, 35-59.	1.1	8
350	Blockchain and Pharmaceuticals: A Bibliometric and Systematic Literature Review of Scientific Publications Between 2000 and 2021. EAI/Springer Innovations in Communication and Computing, 2023, , 25-48.	0.9	0
351	Mobile edge computing-enabled blockchain: contract-guided computation offloading. Journal of Supercomputing, 2023, 79, 7970-7996.	2.4	1
353	Blockchain-Assisted Verifiable and Secure Remote Sensing Image Retrieval in Cloud Environment. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2023, 16, 1378-1389.	2.3	3
354	Blockchain Technology in Cybersecurity Management. Advanced Sciences and Technologies for Security Applications, 2023, , 421-426.	0.4	0
355	MapChain-D: A Distributed Blockchain for IIoT Data Storage and Communications. IEEE Transactions on Industrial Informatics, 2023, 19, 9766-9776.	7.2	5
356	A certificateless Multi-receiver Encryption scheme based on SM2 signature algorithm. High-Confidence Computing, 2023, 3, 100103.	2.2	2

#	ARTICLE	IF	CITATIONS
357	Blockchain for achieving accountable outsourcing computations in edge computing. Computer Communications, 2023, 200, 17-29.	3.1	2
358	Adding Hardware Security into IoT-Blockchain Platforms. , 2022, , .		1
359	The Capability-Security Trade-Off of Blockchain for Data Sharing at the Network Edge. , 2022, , .		1
360	Partial Computation Offloading and Resource Allocation via Deep Deterministic Policy Gradient. , 2022, , .		0
361	Energy-Efficient Resource Allocation for MEC and Blockchain-Enabled IoT via CRL Approach. , 2022, , .		0
362	Securing Optical Networks Using Quantum-Secured Blockchain: An Overview. Sensors, 2023, 23, 1228.	2.1	6
363	Contemporary Role of Blockchain in Industry 4.0. Advanced Technologies and Societal Change, 2023, , 111-122.	0.8	2
364	Distributed Ledger Technologies for Managing Heterogenous Computing Systems at the Edge. , 2022, , .		1
365	A Blockchain-Based Multi-Cloud Storage Data Consistency Verification Scheme. , 2022, , .		0
366	A Secure and Scalable IoT Data Management System based on Blockchain. , 2022, , .		0
367	Speeding at the Edge: An Efficient and Secure Redactable Blockchain for IoT-Based Smart Grid Systems. IEEE Internet of Things Journal, 2023, 10, 12886-12897.	5.5	3
368	Performance Comparison of Different Deep Reinforcement Learning Algorithms for Task Scheduling Problem in Blockchain-Enabled Internet of Vehicles. IEEE Transactions on Vehicular Technology, 2023, 72, 9322-9336.	3.9	0
369	Blockchain Meets Metaverse and Digital Asset Management: A Comprehensive Survey. IEEE Access, 2023, 11, 26258-26288.	2.6	24
370	Toward An Experimental Federated 6G Testbed: A Federated Learning Approach. , 2022, , .		3
371	An End-to-End LoRaWAN-based IoT Platform with Built-in Network Coverage Testing Capability. , 2022, , .		0
372	How can applications of blockchain and artificial intelligence improve performance of Internet of Things? â€” A survey. Computer Networks, 2023, 224, 109634.	3.2	8
373	A framework for IoT based on Blockchain and Edge Computing in Cyber Physical Systems. , 2022, , .		1
374	Semantic analysis of blockchain intelligence with proposed agenda for future issues. International Journal of Systems Assurance Engineering and Management, 2023, 14, 34-54.	1.5	4

#	ARTICLE	IF	CITATIONS
375	Recent Advances of Blockchain and Its Applications. Journal of Social Computing, 2022, 3, 363-394.	1.5	3
376	Edge Devices and Blockchain Integration in IoT System: A Novel Design Approach. , 2023, , .		0
377	Blockchain-Based Continuous Knowledge Transfer in Decentralized Edge Computing Architecture. Electronics (Switzerland), 2023, 12, 1154.	1.8	3
378	Communication and Energy Efficient Edge Intelligence. , 2022, , .		0
379	Data Integrity Verification Scheme Based on Blockchain Smart Contract. , 2022, , .		1
380	Resource Allocation of IoT systems Integrated with Blockchain and Mobile Edge Computing. , 2022, , .		0
381	An Efficient and Secure Node-sampling Consensus Mechanism for Blockchain Systems. , 2022, , .		0
383	Blockchain Integrated with Industrial IOT Towards Industry 4.0. , 2023, , .		2
384	Why Decentralize Deep Learning?. , 2023, , .		0
385	HLOChain: A Hierarchical Blockchain Framework with Lightweight Consensus and Optimized Storage for IoT. Security and Communication Networks, 2023, 2023, 1-14.	1.0	1
386	Secure IoU in Adversarial Environments: User Authentication and Performance Optimization. IEEE Transactions on Vehicular Technology, 2023, , 1-13.	3.9	1
387	An arbitrable outsourcing data audit scheme supporting credit reward and punishment and multi-user sharing. Journal of Parallel and Distributed Computing, 2023, 178, 100-111.	2.7	1
388	Blockchains for Artificial Intelligence of Things: A Comprehensive Survey. IEEE Internet of Things Journal, 2023, 10, 14483-14506.	5.5	3
391	Distributed computing to blockchain: Architecture, technology, and applications. , 2023, , 39-54.		0
400	BMDP:Blockchain-Based Multi-Cloud Storage Data Provenance. , 2023, , .		1
407	SECBlock-IIoT: A Secure Blockchain-enabled Edge Computing Framework for Industrial Internet of Things. , 2023, , .		2
409	Data Analytics on Blockchains. , 2023, , .		1
411	Analysis of Multi-layer Information Flow in Four-Layer Blockchain Model. Lecture Notes in Networks and Systems, 2023, , 338-348.	0.5	0

#	ARTICLE	IF	CITATIONS
412	Distributed Twins in Edge Computing: Blockchain and IOTA. , 2023, , .		1
415	Resources in IoT Through Bcotechnology. , 2023, , .		0
416	The Emergence and Challenges of Blockchain Technology in Business and IoT Applications. , 2023, , .		0
420	A Feasibility Study ofÂaÂLightweight Fog Computing Architecture Integrating Blockchain Technology forÂSmart E-Health Applications. Communications in Computer and Information Science, 2023, , 253-276.	0.4	0
421	Evolution of Blockchain Technology. Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series, 2023, , 67-104.	0.5	0
426	Secure Crowdsourced Blockchain Computation Intelligence for IoT Systems. , 2023, , .		0
430	Automatic Detection of API Access Control Vulnerabilities in Decentralized Web3 Applications. , 2023, , .		0
431	Blockchain Suitability: A Decision-Making Flowchart and Web. , 2023, , .		0
433	The Role of Machine Learning in the Advancement of 6G Technology: Opportunities and Challenges. , 2023, , 309-331.		0
434	Edge Computing: Architecture, Implications and Future with Latest Trends. , 2023, , .		0
445	dNextG: A Zero-Trust Decentralized Mobile Network User Plane. , 2023, , .		0
449	VANET-Sec: A Framework to Secure Vehicular Ad-Hoc Networks Using a Permissioned Blockchain. , 2023, , .		1
452	Block Chain based Secured Wireless Patient Health Monitoring System. , 2023, , .		0
453	Intelligent Sharding Decision for Blockchain-Enabled Industrial IoT Based on A3C Approach. , 2023, , .		0
455	Smart Contract Evaluation By Multi-Criteria Analysis: Selection Challenges And Open Issues, a Review. , 2023, , .		0
461	Remote Public Data Auditing to Secure Cloud Storage. Communications in Computer and Information Science, 2024, , 70-79.	0.4	0
462	Evaluation of Search Engine Optimization Based on Blockchain Technology. , 2023, , .		0
463	Blockchain-Based Multi-Cloud Data Storage System Disaster Recovery. , 2023, , .		0

#	ARTICLE	IF	CITATIONS
465	Transformation of Corporate Social Responsibility Practices: Adapting Artificial Intelligence and Internet of Things. Communications in Computer and Information Science, 2024, , 165-177.	0.4	0
471	Design of credibility-based PBFT algorithm. , 2023, , .		0
474	Distributed Ledger Technology for Next-Generation Cellular Networks: A SWOT Analysis. , 2024, , 281-304.		0