

Neeraj Kumar, Smieeee

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

875
papers

26,161
citations

83
h-index

116
g-index

955
ext. papers

34,543
ext. citations

5
avg, IF

8.52
L-index

#	Paper	IF	Citations
875	A survey on privacy protection in blockchain system. <i>Journal of Network and Computer Applications</i> , 2019 , 126, 45-58	7.9	302
874	A systematic review on clustering and routing techniques based upon LEACH protocol for wireless sensor networks. <i>Journal of Network and Computer Applications</i> , 2013 , 36, 623-645	7.9	286
873	A Secure Biometrics-Based Multi-Server Authentication Protocol Using Smart Cards. <i>IEEE Transactions on Information Forensics and Security</i> , 2015 , 10, 1953-1966	8	274
872	Anonymous Authentication for Wireless Body Area Networks With Provable Security. <i>IEEE Systems Journal</i> , 2017 , 11, 2590-2601	4.3	248
871	Blockchain for 5G-enabled IoT for industrial automation: A systematic review, solutions, and challenges. <i>Mechanical Systems and Signal Processing</i> , 2020 , 135, 106382	7.8	238
870	Secure Signature-Based Authenticated Key Establishment Scheme for Future IoT Applications. <i>IEEE Access</i> , 2017 , 5, 3028-3043	3.5	230
869	. <i>IEEE Transactions on Industrial Informatics</i> , 2016 , 12, 1005-1016	11.9	224
868	Fog computing for Healthcare 4.0 environment: Opportunities and challenges. <i>Computers and Electrical Engineering</i> , 2018 , 72, 1-13	4.3	222
867	Robust anonymous authentication protocol for health-care applications using wireless medical sensor networks. <i>Multimedia Systems</i> , 2015 , 21, 49-60	2.2	211
866	Edge Computing in the Industrial Internet of Things Environment: Software-Defined-Networks-Based Edge-Cloud Interplay 2018 , 56, 44-51		206
865	Design of Secure User Authenticated Key Management Protocol for Generic IoT Networks. <i>IEEE Internet of Things Journal</i> , 2018 , 5, 269-282	10.7	198
864	A systematic review on routing protocols for Vehicular Ad Hoc Networks. <i>Vehicular Communications</i> , 2014 , 1, 33-52	5.7	184
863	Design of an anonymity-preserving three-factor authenticated key exchange protocol for wireless sensor networks. <i>Computer Networks</i> , 2016 , 101, 42-62	5.4	178
862	A secure temporal-credential-based mutual authentication and key agreement scheme with pseudo identity for wireless sensor networks. <i>Information Sciences</i> , 2015 , 321, 263-277	7.7	177
861	A light weight authentication protocol for IoT-enabled devices in distributed Cloud Computing environment. <i>Future Generation Computer Systems</i> , 2018 , 78, 1005-1019	7.5	169
860	Blockchain for Industry 4.0: A Comprehensive Review. <i>IEEE Access</i> , 2020 , 8, 79764-79800	3.5	168
859	A dynamic password-based user authentication scheme for hierarchical wireless sensor networks. <i>Journal of Network and Computer Applications</i> , 2012 , 35, 1646-1656	7.9	165

858	A secure user anonymity-preserving biometric-based multi-server authenticated key agreement scheme using smart cards. <i>Expert Systems With Applications</i> , 2014 , 41, 8129-8143	7.8	162
857	Security and Privacy for the Internet of Drones: Challenges and Solutions. <i>IEEE Communications Magazine</i> , 2018 , 56, 64-69	9.1	159
856	Blockchain for smart communities: Applications, challenges and opportunities. <i>Journal of Network and Computer Applications</i> , 2019 , 144, 13-48	7.9	158
855	A robust and anonymous patient monitoring system using wireless medical sensor networks. <i>Future Generation Computer Systems</i> , 2018 , 80, 483-495	7.5	154
854	SURVIVOR: A blockchain based edge-as-a-service framework for secure energy trading in SDN-enabled vehicle-to-grid environment. <i>Computer Networks</i> , 2019 , 153, 36-48	5.4	149
853	Certificateless Searchable Public Key Encryption Scheme for Industrial Internet of Things. <i>IEEE Transactions on Industrial Informatics</i> , 2018 , 14, 759-767	11.9	144
852	Clustering in vehicular ad hoc networks: Taxonomy, challenges and solutions. <i>Vehicular Communications</i> , 2014 , 1, 134-152	5.7	138
851	BEST: Blockchain-based secure energy trading in SDN-enabled intelligent transportation system. <i>Computers and Security</i> , 2019 , 85, 288-299	4.9	136
850	Secure Remote User Authenticated Key Establishment Protocol for Smart Home Environment. <i>IEEE Transactions on Dependable and Secure Computing</i> , 2020 , 17, 391-406	3.9	136
849	Enhanced three-factor security protocol for consumer USB mass storage devices. <i>IEEE Transactions on Consumer Electronics</i> , 2014 , 60, 30-37	4.8	135
848	. <i>IEEE Transactions on Multimedia</i> , 2019 , 21, 566-578	6.6	129
847	Path planning techniques for unmanned aerial vehicles: A review, solutions, and challenges. <i>Computer Communications</i> , 2020 , 149, 270-299	5.1	129
846	Data Offloading in 5G-Enabled Software-Defined Vehicular Networks: A Stackelberg-Game-Based Approach. <i>IEEE Communications Magazine</i> , 2017 , 55, 100-108	9.1	125
845	A feature reduced intrusion detection system using ANN classifier. <i>Expert Systems With Applications</i> , 2017 , 88, 249-257	7.8	124
844	Efficient and Privacy-Preserving Data Aggregation Scheme for Smart Grid Against Internal Adversaries. <i>IEEE Transactions on Smart Grid</i> , 2017 , 8, 2411-2419	10.7	124
843	BHEEM: A Blockchain-Based Framework for Securing Electronic Health Records 2018 ,		120
842	. <i>IEEE Transactions on Network and Service Management</i> , 2019 , 16, 924-935	4.8	119
841	. <i>IEEE Vehicular Technology Magazine</i> , 2017 , 12, 55-64	9.9	119

840	SDN-Enabled Multi-Attribute-Based Secure Communication for Smart Grid in IIoT Environment. <i>IEEE Transactions on Industrial Informatics</i> , 2018 , 14, 2629-2640	11.9	118
839	Efficient and Anonymous Mobile User Authentication Protocol Using Self-Certified Public Key Cryptography for Multi-Server Architectures. <i>IEEE Transactions on Information Forensics and Security</i> , 2016 , 11, 2052-2064	8	117
838	Design and Analysis of Secure Lightweight Remote User Authentication and Key Agreement Scheme in Internet of Drones Deployment. <i>IEEE Internet of Things Journal</i> , 2019 , 6, 3572-3584	10.7	117
837	Secure Biometric-Based Authentication Scheme Using Chebyshev Chaotic Map for Multi-Server Environment. <i>IEEE Transactions on Dependable and Secure Computing</i> , 2018 , 15, 824-839	3.9	116
836	Container-as-a-Service at the Edge: Trade-off between Energy Efficiency and Service Availability at Fog Nano Data Centers. <i>IEEE Wireless Communications</i> , 2017 , 24, 48-56	13.4	115
835	An efficient ECC-based provably secure three-factor user authentication and key agreement protocol for wireless healthcare sensor networks. <i>Computers and Electrical Engineering</i> , 2018 , 69, 534-554	4.3	113
834	Lightweight and Physically Secure Anonymous Mutual Authentication Protocol for Real-Time Data Access in Industrial Wireless Sensor Networks. <i>IEEE Transactions on Industrial Informatics</i> , 2019 , 15, 4957-4968	11.9	112
833	UAV-Empowered Edge Computing Environment for Cyber-Threat Detection in Smart Vehicles. <i>IEEE Network</i> , 2018 , 32, 42-51	11.4	112
832	A user friendly mutual authentication and key agreement scheme for wireless sensor networks using chaotic maps. <i>Future Generation Computer Systems</i> , 2016 , 63, 56-75	7.5	112
831	Multimedia big data computing and Internet of Things applications: A taxonomy and process model. <i>Journal of Network and Computer Applications</i> , 2018 , 124, 169-195	7.9	112
830	Blockchain for Internet of Energy management: Review, solutions, and challenges. <i>Computer Communications</i> , 2020 , 151, 395-418	5.1	111
829	A secure authentication scheme based on elliptic curve cryptography for IoT and cloud servers. <i>Journal of Supercomputing</i> , 2018 , 74, 6428-6453	2.5	110
828	Vehicular delay-tolerant networks for smart grid data management using mobile edge computing 2016 , 54, 60-66		110
827	Provably Secure Authenticated Key Agreement Scheme for Smart Grid. <i>IEEE Transactions on Smart Grid</i> , 2016 , 1-1	10.7	110
826	A secure and robust temporal credential-based three-factor user authentication scheme for wireless sensor networks. <i>Peer-to-Peer Networking and Applications</i> , 2016 , 9, 223-244	3.1	108
825	LAM-CIoT: Lightweight authentication mechanism in cloud-based IoT environment. <i>Journal of Network and Computer Applications</i> , 2020 , 150, 102496	7.9	108
824	Design of secure key management and user authentication scheme for fog computing services. <i>Future Generation Computer Systems</i> , 2019 , 91, 475-492	7.5	107
823	Securing electronics healthcare records in Healthcare 4.0 : A biometric-based approach. <i>Computers and Electrical Engineering</i> , 2019 , 76, 398-410	4.3	106

822	Design of a provably secure biometrics-based multi-cloud-server authentication scheme. <i>Future Generation Computer Systems</i> , 2017 , 68, 320-330	7.5	106
821	. <i>IEEE Internet of Things Journal</i> , 2018 , 5, 2884-2895	10.7	106
820	Blockchain-Based Distributed Framework for Automotive Industry in a Smart City. <i>IEEE Transactions on Industrial Informatics</i> , 2019 , 15, 4197-4205	11.9	104
819	Design of Secure and Lightweight Authentication Protocol for Wearable Devices Environment. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2018 , 22, 1310-1322	7.2	103
818	Certificateless Public Key Authenticated Encryption With Keyword Search for Industrial Internet of Things. <i>IEEE Transactions on Industrial Informatics</i> , 2018 , 14, 3618-3627	11.9	102
817	. <i>IEEE Transactions on Vehicular Technology</i> , 2019 , 68, 6903-6916	6.8	100
816	Lightweight and privacy-preserving RFID authentication scheme for distributed IoT infrastructure with secure localization services for smart city environment. <i>Future Generation Computer Systems</i> , 2018 , 83, 629-637	7.5	100
815	Biometrics-Based Privacy-Preserving User Authentication Scheme for Cloud-Based Industrial Internet of Things Deployment. <i>IEEE Internet of Things Journal</i> , 2018 , 5, 4900-4913	10.7	100
814	An efficient authentication and key agreement scheme for multi-gateway wireless sensor networks in IoT deployment. <i>Journal of Network and Computer Applications</i> , 2017 , 89, 72-85	7.9	99
813	A systematic review on heterogeneous routing protocols for wireless sensor network. <i>Journal of Network and Computer Applications</i> , 2015 , 53, 39-56	7.9	99
812	Secure Message Communication Protocol Among Vehicles in Smart City. <i>IEEE Transactions on Vehicular Technology</i> , 2018 , 67, 4359-4373	6.8	99
811	Efficient Privacy-Aware Authentication Scheme for Mobile Cloud Computing Services. <i>IEEE Systems Journal</i> , 2018 , 12, 1621-1631	4.3	97
810	Cloud Centric Authentication for Wearable Healthcare Monitoring System. <i>IEEE Transactions on Dependable and Secure Computing</i> , 2020 , 17, 942-956	3.9	97
809	Edge Computing-Based Security Framework for Big Data Analytics in VANETs. <i>IEEE Network</i> , 2019 , 33, 72-81	11.4	95
808	A secure and efficient uniqueness-and-anonymity-preserving remote user authentication scheme for connected health care. <i>Journal of Medical Systems</i> , 2013 , 37, 9948	5.1	95
807	Taxonomy and analysis of security protocols for Internet of Things. <i>Future Generation Computer Systems</i> , 2018 , 89, 110-125	7.5	94
806	Applications of blockchain in ensuring the security and privacy of electronic health record systems: A survey. <i>Computers and Security</i> , 2020 , 97, 101966	4.9	92
805	AKM-IoV: Authenticated Key Management Protocol in Fog Computing-Based Internet of Vehicles Deployment. <i>IEEE Internet of Things Journal</i> , 2019 , 6, 8804-8817	10.7	91

804	Whale Optimization Algorithm With Applications to Resource Allocation in Wireless Networks. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 4285-4297	6.8	89
803	Fog Computing for Smart Grid Systems in the 5G Environment: Challenges and Solutions. <i>IEEE Wireless Communications</i> , 2019 , 26, 47-53	13.4	88
802	Authentication in cloud-driven IoT-based big data environment: Survey and outlook. <i>Journal of Systems Architecture</i> , 2019 , 97, 185-196	5.5	88
801	Authenticated key agreement scheme for fog-driven IoT healthcare system. <i>Wireless Networks</i> , 2019 , 25, 4737-4750	2.5	86
800	Collaborative trust aware intelligent intrusion detection in VANETs. <i>Computers and Electrical Engineering</i> , 2014 , 40, 1981-1996	4.3	86
799	. <i>IEEE Network</i> , 2018 , 32, 66-73	11.4	86
798	Machine Learning Models for Secure Data Analytics: A taxonomy and threat model. <i>Computer Communications</i> , 2020 , 153, 406-440	5.1	85
797	A Novel Authentication and Key Agreement Scheme for Implantable Medical Devices Deployment. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2018 , 22, 1299-1309	7.2	85
796	Privacy-preserving data aggregation scheme against internal attackers in smart grids. <i>Wireless Networks</i> , 2016 , 22, 491-502	2.5	85
795	Blockchain for IoT-Based Healthcare: Background, Consensus, Platforms, and Use Cases. <i>IEEE Systems Journal</i> , 2021 , 15, 85-94	4.3	85
794	Secure Three-Factor User Authentication Scheme for Renewable-Energy-Based Smart Grid Environment. <i>IEEE Transactions on Industrial Informatics</i> , 2017 , 13, 3144-3153	11.9	84
793	Software defined solutions for sensors in 6G/loE. <i>Computer Communications</i> , 2020 , 153, 42-47	5.1	84
792	A Multi-Tenant Cloud-Based DC Nano Grid for Self-Sustained Smart Buildings in Smart Cities 2017 , 55, 14-21		83
791	A Provably-Secure Cross-Domain Handshake Scheme with Symptoms-Matching for Mobile Healthcare Social Network. <i>IEEE Transactions on Dependable and Secure Computing</i> , 2018 , 15, 633-645	3.9	83
790	Designing Secure Lightweight Blockchain-Enabled RFID-Based Authentication Protocol for Supply Chains in 5G Mobile Edge Computing Environment. <i>IEEE Transactions on Industrial Informatics</i> , 2020 , 16, 7081-7093	11.9	83
789	. <i>IEEE Network</i> , 2019 , 33, 22-29	11.4	82
788	Optimal Decision Making for Big Data Processing at Edge-Cloud Environment: An SDN Perspective. <i>IEEE Transactions on Industrial Informatics</i> , 2018 , 14, 778-789	11.9	82
787	A secure and effective biometric-based user authentication scheme for wireless sensor networks using smart card and fuzzy extractor. <i>International Journal of Communication Systems</i> , 2017 , 30, e2933	1.7	81

786	Coalition Games for Spatio-Temporal Big Data in Internet of Vehicles Environment: A Comparative Analysis. <i>IEEE Internet of Things Journal</i> , 2015 , 2, 310-320	10.7	81
785	Intelligent Mobile Video Surveillance System as a Bayesian Coalition Game in Vehicular Sensor Networks: Learning Automata Approach. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2015 , 16, 1148-1161	6.1	81
784	Bayesian Coalition Game as-a-Service for Content Distribution in Internet of Vehicles. <i>IEEE Internet of Things Journal</i> , 2014 , 1, 544-555	10.7	81
783	Anonymous Lightweight Chaotic Map-Based Authenticated Key Agreement Protocol for Industrial Internet of Things. <i>IEEE Transactions on Dependable and Secure Computing</i> , 2020 , 17, 1133-1146	3.9	81
782	. <i>IEEE Network</i> , 2020 , 34, 295-301	11.4	80
781	Fog data analytics: A taxonomy and process model. <i>Journal of Network and Computer Applications</i> , 2019 , 128, 90-104	7.9	80
780	Blockchain-Envisioned Secure Data Delivery and Collection Scheme for 5G-Based IoT-Enabled Internet of Drones Environment. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 9097-9111	6.8	77
779	Design and analysis of authenticated key agreement scheme in cloud-assisted cyberphysical systems. <i>Future Generation Computer Systems</i> , 2020 , 108, 1267-1286	7.5	77
778	Secure anonymous mutual authentication for star two-tier wireless body area networks. <i>Computer Methods and Programs in Biomedicine</i> , 2016 , 135, 37-50	6.9	76
777	Secure clustering for efficient data dissemination in vehicular cyberphysical systems. <i>Future Generation Computer Systems</i> , 2016 , 56, 476-492	7.5	74
776	Provably Secure Fine-Grained Data Access Control Over Multiple Cloud Servers in Mobile Cloud Computing Based Healthcare Applications. <i>IEEE Transactions on Industrial Informatics</i> , 2019 , 15, 457-468 ^{11.9}	11.9	74
775	HaBiTs: Blockchain-based Telesurgery Framework for Healthcare 4.0 2019 ,		73
774	A Secure and Efficient User Anonymity-Preserving Three-Factor Authentication Protocol for Large-Scale Distributed Wireless Sensor Networks. <i>Wireless Personal Communications</i> , 2015 , 82, 1377-1404 ^{1.9}	1.9	73
773	ALCA: agent learningBased clustering algorithm in vehicular ad hoc networks. <i>Personal and Ubiquitous Computing</i> , 2013 , 17, 1683-1692	2.1	73
772	Bayesian Coalition Game for Contention-Aware Reliable Data Forwarding in Vehicular Mobile Cloud. <i>Future Generation Computer Systems</i> , 2015 , 48, 60-72	7.5	72
771	Towards energy-aware fog-enabled cloud of things for healthcare. <i>Computers and Electrical Engineering</i> , 2018 , 67, 58-69	4.3	72
770	Provably secure authenticated key agreement scheme for distributed mobile cloud computing services. <i>Future Generation Computer Systems</i> , 2017 , 68, 74-88	7.5	72
769	. <i>IEEE Transactions on Industrial Informatics</i> , 2019 , 15, 469-480	11.9	71

768	Lightweight ECC based RFID authentication integrated with an ID verifier transfer protocol. <i>Journal of Medical Systems</i> , 2014 , 38, 116	5.1	71
767	On the Design of Provably Secure Lightweight Remote User Authentication Scheme for Mobile Cloud Computing Services. <i>IEEE Access</i> , 2017 , 5, 25808-25825	3.5	71
766	A Multi-Organ Nucleus Segmentation Challenge. <i>IEEE Transactions on Medical Imaging</i> , 2020 , 39, 1380-1391	11.7	71
765	Tactile internet and its applications in 5G era: A comprehensive review. <i>International Journal of Communication Systems</i> , 2019 , 32, e3981	1.7	70
764	LSCSH: Lattice-Based Secure Cryptosystem for Smart Healthcare in Smart Cities Environment. <i>IEEE Communications Magazine</i> , 2018 , 56, 24-32	9.1	69
763	Optimized Big Data Management across Multi-Cloud Data Centers: Software-Defined-Network-Based Analysis 2018 , 56, 118-126		69
762	An intelligent approach for building a secure decentralized public key infrastructure in VANET. <i>Journal of Computer and System Sciences</i> , 2015 , 81, 1042-1058	1	69
761	Designing secure blockchain-based access control scheme in IoT-enabled Internet of Drones deployment. <i>Computer Communications</i> , 2020 , 153, 229-249	5.1	67
760	Provably secure user authentication and key agreement scheme for wireless sensor networks. <i>Security and Communication Networks</i> , 2016 , 9, 3670-3687	1.9	67
759	Learning Automata-based Opportunistic Data Aggregation and Forwarding scheme for alert generation in Vehicular Ad Hoc Networks. <i>Computer Communications</i> , 2014 , 39, 22-32	5.1	67
758	An efficient multi-gateway-based three-factor user authentication and key agreement scheme in hierarchical wireless sensor networks. <i>Security and Communication Networks</i> , 2016 , 9, 2070-2092	1.9	66
757	HomeChain: A Blockchain-Based Secure Mutual Authentication System for Smart Homes. <i>IEEE Internet of Things Journal</i> , 2020 , 7, 818-829	10.7	65
756	An advanced Internet of Thing based Security Alert System for Smart Home 2017 ,		64
755	. <i>IEEE Access</i> , 2017 , 5, 14966-14980	3.5	64
754	Network Service Chaining in Fog and Cloud Computing for the 5G Environment: Data Management and Security Challenges 2017 , 55, 114-122		64
753	Collaborative Learning Automata-Based Routing for Rescue Operations in Dense Urban Regions Using Vehicular Sensor Networks. <i>IEEE Systems Journal</i> , 2015 , 9, 1081-1090	4.3	64
752	Peer-to-Peer Cooperative Caching for Data Dissemination in Urban Vehicular Communications. <i>IEEE Systems Journal</i> , 2014 , 8, 1136-1144	4.3	64
751	A Provably Secure and Efficient Identity-Based Anonymous Authentication Scheme for Mobile Edge Computing. <i>IEEE Systems Journal</i> , 2020 , 14, 560-571	4.3	64

750	. <i>IEEE Journal on Selected Areas in Communications</i> , 2021 , 39, 603-610	14.2	64
749	An Efficient and Provably Secure Authenticated Key Agreement Protocol for Fog-Based Vehicular Ad-Hoc Networks. <i>IEEE Internet of Things Journal</i> , 2019 , 6, 8065-8075	10.7	63
748	BlockSDN: Blockchain-as-a-Service for Software Defined Networking in Smart City Applications. <i>IEEE Network</i> , 2020 , 34, 83-91	11.4	63
747	Blockchain-based security attack resilience schemes for autonomous vehicles in industry 4.0: A systematic review. <i>Computers and Electrical Engineering</i> , 2020 , 86, 106717	4.3	62
746	Anonymous two-factor authentication for consumer roaming service in global mobility networks. <i>IEEE Transactions on Consumer Electronics</i> , 2013 , 59, 811-817	4.8	62
745	A lightweight and secure two-factor authentication scheme for wireless body area networks in health-care IoT. <i>Computer Networks</i> , 2020 , 177, 107333	5.4	62
744	An Efficient and Practical Smart Card Based Anonymity Preserving User Authentication Scheme for TMIS using Elliptic Curve Cryptography. <i>Journal of Medical Systems</i> , 2015 , 39, 180	5.1	61
743	Blockchain and AI amalgamation for energy cloud management: Challenges, solutions, and future directions. <i>Journal of Parallel and Distributed Computing</i> , 2020 , 143, 148-166	4.4	61
742	Tactile Internet for Smart Communities in 5G: An Insight for NOMA-Based Solutions. <i>IEEE Transactions on Industrial Informatics</i> , 2019 , 15, 3104-3112	11.9	61
741	An improved authentication protocol for session initiation protocol using smart card. <i>Peer-to-Peer Networking and Applications</i> , 2015 , 8, 903-910	3.1	60
740	Blockchain data-based cloud data integrity protection mechanism. <i>Future Generation Computer Systems</i> , 2020 , 102, 902-911	7.5	60
739	An intelligent RFID-enabled authentication scheme for healthcare applications in vehicular mobile cloud. <i>Peer-to-Peer Networking and Applications</i> , 2016 , 9, 824-840	3.1	59
738	. <i>IEEE Transactions on Smart Grid</i> , 2019 , 10, 3364-3373	10.7	59
737	Consumption-Aware Data Analytical Demand Response Scheme for Peak Load Reduction in Smart Grid. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 8993-9004	8.9	58
736	A Secure Anonymous Authentication Protocol for Mobile Services on Elliptic Curve Cryptography. <i>IEEE Access</i> , 2016 , 4, 4394-4407	3.5	58
735	Bayesian coalition game for the internet of things: an ambient intelligence-based evaluation 2015 , 53, 48-55		58
734	BloHost: Blockchain Enabled Smart Tourism and Hospitality Management 2019 ,		57
733	BinDaaS: Blockchain-Based Deep-Learning as-a-Service in Healthcare 4.0 Applications. <i>IEEE Transactions on Network Science and Engineering</i> , 2020 , 1-1	4.9	57

732	Design of Mutually Authenticated Key Agreement Protocol Resistant to Impersonation Attacks for Multi-Server Environment. <i>IEEE Access</i> , 2017 , 5, 3622-3639	3.5	56
731	Certificateless-Signcryption-Based Three-Factor User Access Control Scheme for IoT Environment. <i>IEEE Internet of Things Journal</i> , 2020 , 7, 3184-3197	10.7	56
730	Tensor-Based Big Data Management Scheme for Dimensionality Reduction Problem in Smart Grid Systems: SDN Perspective. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2018 , 30, 1985-1998	4.2	56
729	Trust management in social Internet of Things: A taxonomy, open issues, and challenges. <i>Computer Communications</i> , 2020 , 150, 13-46	5.1	56
728	Designing Blockchain-Based Access Control Protocol in IoT-Enabled Smart-Grid System. <i>IEEE Internet of Things Journal</i> , 2021 , 8, 5744-5761	10.7	56
727	Security of Cryptocurrencies in blockchain technology: State-of-art, challenges and future prospects. <i>Journal of Network and Computer Applications</i> , 2020 , 163, 102635	7.9	55
726	A secure and efficient ECC-based user anonymity-preserving session initiation authentication protocol using smart card. <i>Peer-to-Peer Networking and Applications</i> , 2016 , 9, 171-192	3.1	55
725	SEAP: Secure and efficient authentication protocol for NFC applications using pseudonyms. <i>IEEE Transactions on Consumer Electronics</i> , 2016 , 62, 30-38	4.8	55
724	One-to-many authentication for access control in mobile pay-TV systems. <i>Science China Information Sciences</i> , 2016 , 59, 1	3.4	55
723	A Comprehensive Review on Smart Decision Support Systems for Health Care. <i>IEEE Systems Journal</i> , 2019 , 13, 3536-3545	4.3	55
722	Secure Authentication Scheme for Medicine Anti-Counterfeiting System in IoT Environment. <i>IEEE Internet of Things Journal</i> , 2017 , 4, 1634-1646	10.7	54
721	Deep learning models for traffic flow prediction in autonomous vehicles: A review, solutions, and challenges. <i>Vehicular Communications</i> , 2019 , 20, 100184	5.7	54
720	Provably Secure ECC-Based Device Access Control and Key Agreement Protocol for IoT Environment. <i>IEEE Access</i> , 2019 , 7, 55382-55397	3.5	54
719	Cryptanalysis and improvement of an access control in user hierarchy based on elliptic curve cryptosystem. <i>Information Sciences</i> , 2012 , 209, 80-92	7.7	54
718	Ant colony algorithms in MANETs: A review. <i>Journal of Network and Computer Applications</i> , 2012 , 35, 1964-1972	7.9	54
717	Blockchain-based identity management systems: A review. <i>Journal of Network and Computer Applications</i> , 2020 , 166, 102731	7.9	53
716	Blockchain-Based Mutual-Healing Group Key Distribution Scheme in Unmanned Aerial Vehicles Ad-Hoc Network. <i>IEEE Transactions on Vehicular Technology</i> , 2019 , 68, 11309-11322	6.8	53
715	An improved and effective secure password-based authentication and key agreement scheme using smart cards for the telecare medicine information system. <i>Journal of Medical Systems</i> , 2013 , 37, 9969	5.1	53

714	Efficient and Secure Anonymous Authentication With Location Privacy for IoT-Based WBANs. <i>IEEE Transactions on Industrial Informatics</i> , 2020 , 16, 2603-2611	11.9	53
713	SecSVA: Secure Storage, Verification, and Auditing of Big Data in the Cloud Environment 2018 , 56, 78-85		52
712	A Provably Secure and Lightweight Anonymous User Authenticated Session Key Exchange Scheme for Internet of Things Deployment. <i>IEEE Internet of Things Journal</i> , 2019 , 6, 8739-8752	10.7	52
711	Dynamic pricing techniques for Intelligent Transportation System in smart cities: A systematic review. <i>Computer Communications</i> , 2020 , 150, 603-625	5.1	52
710	IoT-Based Solid Waste Management Solutions: A Survey. <i>Journal of Sensor and Actuator Networks</i> , 2019 , 8, 5	3.8	52
709	. <i>IEEE Access</i> , 2017 , 5, 3273-3283	3.5	51
708	. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 5850-5863	6.8	51
707	BAKMP-IoMT: Design of Blockchain Enabled Authenticated Key Management Protocol for Internet of Medical Things Deployment. <i>IEEE Access</i> , 2020 , 8, 95956-95977	3.5	51
706	An efficient approach for mining association rules from high utility itemsets. <i>Expert Systems With Applications</i> , 2015 , 42, 5754-5778	7.8	50
705	Certificateless Provable Data Possession Scheme for Cloud-Based Smart Grid Data Management Systems. <i>IEEE Transactions on Industrial Informatics</i> , 2018 , 14, 1232-1241	11.9	50
704	Performance analysis of Bayesian coalition game-based energy-aware virtual machine migration in vehicular mobile cloud. <i>IEEE Network</i> , 2015 , 29, 62-69	11.4	49
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