Ruhul Amin

List of Publications by Year
in descending order

83 papers	3,256 citations	136740 32 h-index	155451 55 g-index
84 all docs	84 docs citations	84 times ranked	1999 citing authors

#	Article	IF	Citations
1	A secure light weight scheme for user authentication and key agreement in multi-gateway based wireless sensor networks. Ad Hoc Networks, 2016, 36, 58-80.	3.4	250
2	Design of an anonymity-preserving three-factor authenticated key exchange protocol for wireless sensor networks. Computer Networks, 2016, 101, 42-62.	3.2	248
3	A robust and anonymous patient monitoring system using wireless medical sensor networks. Future Generation Computer Systems, 2018, 80, 483-495.	4.9	241
4	A light weight authentication protocol for IoT-enabled devices in distributed Cloud Computing environment. Future Generation Computer Systems, 2018, 78, 1005-1019.	4.9	227
5	A Novel User Authentication and Key Agreement Protocol for Accessing Multi-Medical Server Usable in TMIS. Journal of Medical Systems, 2015, 39, 33.	2.2	91
6	Blockchain based secured information sharing protocol in supply chain management system with key distribution mechanism. Journal of Information Security and Applications, 2020, 54, 102554.	1.8	88
7	An Efficient and Robust RSA-Based Remote User Authentication for Telecare Medical Information Systems. Journal of Medical Systems, 2015, 39, 145.	2.2	85
8	An Efficient and Practical Smart Card Based Anonymity Preserving User Authentication Scheme for TMIS using Elliptic Curve Cryptography. Journal of Medical Systems, 2015, 39, 180.	2.2	77
9	A Standard Mutual Authentication Protocol for Cloud Computing Based Health Care System. Journal of Medical Systems, 2017, 41, 50.	2.2	75
10	Robust secure communication protocol for smart healthcare system with FPGA implementation. Future Generation Computer Systems, 2019, 100, 938-951.	4.9	75
11	An overview of cloudâ€fog computing: Architectures, applications with security challenges. Security and Privacy, 2019, 2, e72.	1.9	73
12	Design and Analysis of Bilinear Pairing Based Mutual Authentication and Key Agreement Protocol Usable in Multi-server Environment. Wireless Personal Communications, 2015, 84, 439-462.	1.8	69
13	Efficient authentication protocol for secure multimedia communications in IoT-enabled wireless sensor networks. Multimedia Tools and Applications, 2018, 77, 18295-18325.	2.6	69
14	Design of authentication protocol for wireless sensor network-based smart vehicular system. Vehicular Communications, 2017, 9, 64-71.	2.7	68
15	Blockchain-based secured event-information sharing protocol in internet of vehicles for smart cities. Computers and Electrical Engineering, 2020, 86, 106719.	3.0	67
16	A Secure Three-Factor User Authentication and Key Agreement Protocol for TMIS With User Anonymity. Journal of Medical Systems, 2015, 39, 78.	2.2	63
17	PUF-Based Authentication and Key Agreement Protocols for IoT, WSNs, and Smart Grids: A Comprehensive Survey. IEEE Internet of Things Journal, 2022, 9, 8205-8228.	5.5	62
18	An untraceable and anonymous password authentication protocol for heterogeneous wireless sensor networks. Journal of Network and Computer Applications, 2018, 104, 133-144.	5.8	61

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19	Cryptanalysis and Enhancement of Anonymity Preserving Remote User Mutual Authentication and Session Key Agreement Scheme for E-Health Care Systems. Journal of Medical Systems, 2015, 39, 140.	2.2	60
20	An Improved RSA Based User Authentication and Session Key Agreement Protocol Usable in TMIS. Journal of Medical Systems, 2015, 39, 79.	2.2	56
21	Review on â€œBlockchain technology based medical healthcare system with privacy issuesâ€. Security and Privacy, 2019, 2, e83.	1.9	55
22	Blockchain-Based Secured IPFS-Enable Event Storage Technique With Authentication Protocol in VANET. IEEE/CAA Journal of Automatica Sinica, 2021, 8, 1913-1922.	8.5	53
23	Decentralized secure storage of medical records using Blockchain and <scp>IPFS</scp>: A comparative analysis with future directions. Security and Privacy, 2021, 4, e162.	1.9	45
24	Blockchain-Based Internet of Things and Industrial IoT: A Comprehensive Survey. Security and Communication Networks, 2021, 2021, 1-21.	1.0	42
25	A more secure and privacyâ€aware anonymous user authentication scheme for distributed mobile cloud computing environments. Security and Communication Networks, 2016, 9, 4650-4666.	1.0	37
26	A Two-Factor RSA-Based Robust Authentication System for Multiserver Environments. Security and Communication Networks, 2017, 2017, 1-15.	1.0	37
27	A privacy-preserving RFID authentication protocol based on El-Gamal cryptosystem for secure TMIS. Information Sciences, 2020, 527, 382-393.	4.0	37
28	Design and Analysis of an Enhanced Patient-Server Mutual Authentication Protocol for Telecare Medical Information System. Journal of Medical Systems, 2015, 39, 137.	2.2	36
29	Security analysis and design of an efficient ECCâ€based twoâ€factor password authentication scheme. Security and Communication Networks, 2016, 9, 4166-4181.	1.0	36
30	A robust ElGamalâ€based passwordâ€authentication protocol using smart card for clientâ€server communication. International Journal of Communication Systems, 2017, 30, e3242.	1.6	35
31	A Provably Secure Three-Factor Session Initiation Protocol for Multimedia Big Data Communications. IEEE Internet of Things Journal, 2018, 5, 3408-3418.	5.5	35
32	A robust mutual authentication protocol for WSN with multiple base-stations. Ad Hoc Networks, 2018, 75-76, 1-18.	3.4	34
33	CFSec: Password based secure communication protocol in cloud-fog environment. Journal of Parallel and Distributed Computing, 2020, 140, 52-62.	2.7	33
34	An enhanced multiâ€server authentication protocol using password and smartâ€card: cryptanalysis and design. Security and Communication Networks, 2016, 9, 4615-4638.	1.0	30
35	An anonymous and provably secure authentication scheme for mobile user. International Journal of Communication Systems, 2016, 29, 1529-1544.	1.6	30
36	A software agent enabled biometric security algorithm for secure file access in consumer storage devices. IEEE Transactions on Consumer Electronics, 2017, 63, 53-61.	3.0	30

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37	Efficient biometric and password based mutual authentication for consumer USB mass storage devices. IEEE Transactions on Consumer Electronics, 2015, 61, 491-499.	3.0	27
38	An Unlinkable Authenticated Key Agreement With Collusion Resistant for VANETs. IEEE Transactions on Vehicular Technology, 2021, 70, 7992-8006.	3.9	25
39	Cryptanalysis and Design of a Three-Party Authenticated Key Exchange Protocol Using Smart Card. Arabian Journal for Science and Engineering, 2015, 40, 3135-3149.	1.1	24
40	Provably Secure and Lightweight Identity-Based Authenticated Data Sharing Protocol for Cyber-Physical Cloud Environment. IEEE Transactions on Cloud Computing, 2021, 9, 318-330.	3.1	24
41	Provably Secure Threshold-Based ABE Scheme Without Bilinear Map. Arabian Journal for Science and Engineering, 2016, 41, 3201-3213.	1.1	22
42	Provably Secure Pairing-Free Identity-Based Partially Blind Signature Scheme and Its Application in Online E-cash System. Arabian Journal for Science and Engineering, 2016, 41, 3163-3176.	1.1	20
43	An improved three party authenticated key exchange protocol using hash function and elliptic curve cryptography for mobile-commerce environments. Journal of King Saud University - Computer and Information Sciences, 2017, 29, 311-324.	2.7	20
44	Design of Robust Mutual Authentication and Key Establishment Security Protocol for Cloud-Enabled Smart Grid Communication. IEEE Systems Journal, 2021, 15, 3565-3572.	2.9	20
45	Cryptanalysis and Improvement of an RSA Based Remote User Authentication Scheme Using Smart Card. Wireless Personal Communications, 2017, 96, 4629-4659.	1.8	19
46	A Novel Reference Security Model with the Situation Based Access Policy for Accessing EPHR Data. Journal of Medical Systems, 2016, 40, 242.	2.2	18
47	Robust Authentication Protocol for Dynamic Charging System of Electric Vehicles. IEEE Transactions on Vehicular Technology, 2021, 70, 11338-11351.	3.9	18
48	An enhanced mutual authentication and key establishment protocol for TMIS using chaotic map. Journal of Information Security and Applications, 2020, 53, 102539.	1.8	18
49	A robust mutual authentication scheme for session initiation protocol with key establishment. Peer-to-Peer Networking and Applications, 2018, 11, 900-916.	2.6	17
50	An enhanced bilinear pairing based authenticated key agreement protocol for multiserver environment. International Journal of Communication Systems, 2017, 30, e3358.	1.6	16
51	Insider Attack Protection: Lightweight Password-Based Authentication Techniques Using ECC. IEEE Systems Journal, 2020, 14, 1972-1983.	2.9	16
52	A robust and efficient bilinear pairing based mutual authentication and session key verification over insecure communication. Multimedia Tools and Applications, 2018, 77, 11041-11066.	2.6	14
53	Remote Access Control Mechanism Using Rabin Public Key Cryptosystem. Advances in Intelligent Systems and Computing, 2015, , 525-533.	0.5	14
54	An enhanced anonymity resilience security protocol for vehicular ad-hoc network with Scyther simulation. Computers and Electrical Engineering, 2020, 82, 106554.	3.0	14

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55	A lightweight two-gateway based payment protocol ensuring accountability and unlinkable anonymity with dynamic identity. Computers and Electrical Engineering, 2017, 57, 223-240.	3.0	13
56	An anonymous and robust multiâ€server authentication protocol using multiple registration servers. International Journal of Communication Systems, 2017, 30, e3457.	1.6	12
57	A Lightweight Secure Communication Protocol for IoT Devices Using Physically Unclonable Function. Lecture Notes in Computer Science, 2019, , 26-35.	1.0	12
58	CoMSeC++: PUF-based secured light-weight mutual authentication protocol for Drone-enabled WSN. Computer Networks, 2021, 199, 108476.	3.2	12
59	Authenticated Key Agreement Protocol for Secure Communication Establishment in Vehicle-to-Grid Environment With FPGA Implementation. IEEE Transactions on Vehicular Technology, 2022, 71, 3470-3479.	3.9	11
60	Anonymity preserving secure hash function based authentication scheme for consumer USB mass storage device. , 2015, , .		10
61	A Privacy Preserving Authentication Protocol Using Quantum Computing for V2I Authentication in Vehicular Ad Hoc Networks. Security and Communication Networks, 2022, 2022, 1-17.	1.0	10
62	Design of routing protocol for multi-sink based wireless sensor networks. Wireless Networks, 2019, 25, 4331-4347.	2.0	9
63	Software-Defined Network enabled Vehicle to Vehicle secured data transmission protocol in VANETs. Journal of Information Security and Applications, 2021, 58, 102729.	1.8	9
64	An efficient remote mutual authentication scheme using smart mobile phone over insecure networks. , 2015, , .		8
65	eUASBP: enhanced user authentication scheme based on bilinear pairing. Journal of Ambient Intelligence and Humanized Computing, 2020, 11, 2827-2840.	3.3	8
66	PUF enable lightweight key-exchange and mutual authentication protocol for multi-server based D2D communication. Journal of Information Security and Applications, 2021, 61, 102900.	1.8	8
67	EuDaimon: PUF-Based Robust and Lightweight Authenticated Session Key Establishment Protocol for IoT-Enabled Smart Society. IEEE Systems Journal, 2022, 16, 2891-2898.	2.9	8
68	Improving Security of Lightweight Authentication Technique for Heterogeneous Wireless Sensor Networks. Wireless Personal Communications, 2017, 95, 3141-3166.	1.8	7
69	Design of a secure file storage and access protocol for cloud-enabled Internet of Things environment. Computers and Electrical Engineering, 2021, 94, 107298.	3.0	7
70	Cryptanalysis and an Efficient Secure ID-based Remote User Authentication using Smart Card. International Journal of Computer Applications, 2013, 75, 43-48.	0.2	7
71	Design of an enhanced authentication protocol and its verification using AVISPA. , 2016, , .		6
72	Mitigating distributed denial of service attack: Blockchain and <scp>s</scp>oftwareâ€defined networking based approach, network model with future research challenges. Security and Privacy, 2021, 4, e163.	1.9	6

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73	SafeCom: Robust mutual authentication and session key sharing protocol for underwater wireless sensor networks. Journal of Systems Architecture, 2022, 130, 102650.	2.5	6
74	An Improved Efficient Remote User Authentication Scheme in Multi-server Environment using Smart Card. International Journal of Computer Applications, 2013, 69, 1-6.	0.2	5
75	Blockchain and <scp>IPFS</scp>â€based reliable land registry system. Security and Privacy, 2022, 5, .	1.9	5
76	An enhanced mutually authenticated security protocol with key establishment for cloud enabled smart vehicle to grid network. Peer-to-Peer Networking and Applications, 2022, 15, 2347-2363.	2.6	5
77	Secure Remote Login Scheme with Password and Smart Card Update Facilities. Advances in Intelligent Systems and Computing, 2016, , 495-505.	0.5	4
78	Decentralized management of online user reviews with immutability using IPFS and Ethereum blockchain. , 2022, , .		4
79	Design of Secure and Efficient Electronic Payment System for Mobile Users. Communications in Computer and Information Science, 2017, , 34-43.	0.4	3
80	Security on â€œSecure Remote Login Scheme with Password and Smart Card Update Facilitiesâ€• Communications in Computer and Information Science, 2017, , 26-33.	0.4	2
81	A Robust and Efficient Three-Factor Authentication and Session Key Agreement Mechanism for SIP. , 2017, , .		2
82	Malicious node detection using ID-based authentication technique. , 2016, , .		1
83	Design of secure authentication protocol in SOCKS V5 for VPN using mobile phone. , 2015, , .		0