

# Ruhul Amin

## List of Publications by Year in Descending Order

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**Version:** 2024-04-24

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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.

79  
papers

2,123  
citations

25  
h-index

44  
g-index

84  
ext. papers

2,632  
ext. citations

3.6  
avg, IF

5.89  
L-index

#	Paper	IF	Citations
79	Cryptanalysis on ESEAP: ECC-Based Secure and Efficient Mutual Authentication Protocol Using Smart Card <i>Lecture Notes in Networks and Systems</i> , <b>2023</b> , 609-617	0.5	
78	PUF-based Authentication and Key Agreement Protocols for IoT, WSNs and Smart Grids: A Comprehensive Survey. <i>IEEE Internet of Things Journal</i> , <b>2022</b> , 1-1	10.7	8
77	Authenticated Key Agreement protocol for Secure Communication Establishment in Vehicle-to-Grid Environment with FPGA Implementation. <i>IEEE Transactions on Vehicular Technology</i> , <b>2022</b> , 1-1	6.8	3
76	A Privacy Preserving Authentication Protocol Using Quantum Computing for V2I Authentication in Vehicular Ad Hoc Networks. <i>Security and Communication Networks</i> , <b>2022</b> , 2022, 1-17	1.9	2
75	Mitigating distributed denial of service attack: Blockchain and software-defined networking based approach, network model with future research challenges. <i>Security and Privacy</i> , <b>2021</b> , 4, e163	1.8	1
74	Decentralized secure storage of medical records using Blockchain and IPFS: A comparative analysis with future directions. <i>Security and Privacy</i> , <b>2021</b> , 4, e162	1.8	11
73	Software-Defined Network enabled Vehicle to Vehicle secured data transmission protocol in VANETs. <i>Journal of Information Security and Applications</i> , <b>2021</b> , 58, 102729	3.5	3
72	Provably Secure and Lightweight Identity-Based Authenticated Data Sharing Protocol for Cyber-Physical Cloud Environment. <i>IEEE Transactions on Cloud Computing</i> , <b>2021</b> , 9, 318-330	3.3	19
71	Design of Robust Mutual Authentication and Key Establishment Security Protocol for Cloud-Enabled Smart Grid Communication. <i>IEEE Systems Journal</i> , <b>2021</b> , 15, 3565-3572	4.3	7
70	Robust Authentication Protocol for Dynamic Charging System of Electric Vehicles. <i>IEEE Transactions on Vehicular Technology</i> , <b>2021</b> , 1-1	6.8	4
69	An Unlinkable Authenticated Key Agreement With Collusion Resistant for VANETs. <i>IEEE Transactions on Vehicular Technology</i> , <b>2021</b> , 70, 7992-8006	6.8	10
68	Blockchain-Based Internet of Things and Industrial IoT: A Comprehensive Survey. <i>Security and Communication Networks</i> , <b>2021</b> , 2021, 1-21	1.9	13
67	PUF enable lightweight key-exchange and mutual authentication protocol for multi-server based D2D communication. <i>Journal of Information Security and Applications</i> , <b>2021</b> , 61, 102900	3.5	4
66	Design of a secure file storage and access protocol for cloud-enabled Internet of Things environment. <i>Computers and Electrical Engineering</i> , <b>2021</b> , 94, 107298	4.3	2
65	CoMSeC++: PUF-based secured light-weight mutual authentication protocol for Drone-enabled WSN. <i>Computer Networks</i> , <b>2021</b> , 199, 108476	5.4	1
64	Blockchain-Based Secured IPFS-Enable Event Storage Technique With Authentication Protocol in VANET. <i>IEEE/CAA Journal of Automatica Sinica</i> , <b>2021</b> , 8, 1913-1922	7	15
63	EuDaimon: PUF-Based Robust and Lightweight Authenticated Session Key Establishment Protocol for IoT-Enabled Smart Society. <i>IEEE Systems Journal</i> , <b>2021</b> , 1-8	4.3	2

62	Blockchain based secured information sharing protocol in supply chain management system with key distribution mechanism. <i>Journal of Information Security and Applications</i> , <b>2020</b> , 54, 102554	3.5	47
61	Blockchain-based secured event-information sharing protocol in internet of vehicles for smart cities. <i>Computers and Electrical Engineering</i> , <b>2020</b> , 86, 106719	4.3	43
60	CFSec: Password based secure communication protocol in cloud-fog environment. <i>Journal of Parallel and Distributed Computing</i> , <b>2020</b> , 140, 52-62	4.4	17
59	An enhanced anonymity resilience security protocol for vehicular ad-hoc network with Scyther simulation. <i>Computers and Electrical Engineering</i> , <b>2020</b> , 82, 106554	4.3	10
58	An enhanced mutual authentication and key establishment protocol for TMIS using chaotic map. <i>Journal of Information Security and Applications</i> , <b>2020</b> , 53, 102539	3.5	11
57	eUASBP: enhanced user authentication scheme based on bilinear pairing. <i>Journal of Ambient Intelligence and Humanized Computing</i> , <b>2020</b> , 11, 2827-2840	3.7	4
56	A privacy-preserving RFID authentication protocol based on El-Gamal cryptosystem for secure TMIS. <i>Information Sciences</i> , <b>2020</b> , 527, 382-393	7.7	18
55	Insider Attack Protection: Lightweight Password-Based Authentication Techniques Using ECC. <i>IEEE Systems Journal</i> , <b>2020</b> , 14, 1972-1983	4.3	8
54	Robust secure communication protocol for smart healthcare system with FPGA implementation. <i>Future Generation Computer Systems</i> , <b>2019</b> , 100, 938-951	7.5	34
53	An overview of cloud-fog computing: Architectures, applications with security challenges. <i>Security and Privacy</i> , <b>2019</b> , 2, e72	1.8	28
52	A Lightweight Secure Communication Protocol for IoT Devices Using Physically Unclonable Function. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 26-35	0.9	10
51	Design of routing protocol for multi-sink based wireless sensor networks. <i>Wireless Networks</i> , <b>2019</b> , 25, 4331-4347	2.5	6
50	Review on Blockchain technology based medical healthcare system with privacy issues. <i>Security and Privacy</i> , <b>2019</b> , 2, e83	1.8	26
49	An untraceable and anonymous password authentication protocol for heterogeneous wireless sensor networks. <i>Journal of Network and Computer Applications</i> , <b>2018</b> , 104, 133-144	7.9	46
48	A robust mutual authentication protocol for WSN with multiple base-stations. <i>Ad Hoc Networks</i> , <b>2018</b> , 75-76, 1-18	4.8	20
47	A robust and anonymous patient monitoring system using wireless medical sensor networks. <i>Future Generation Computer Systems</i> , <b>2018</b> , 80, 483-495	7.5	154
46	A light weight authentication protocol for IoT-enabled devices in distributed Cloud Computing environment. <i>Future Generation Computer Systems</i> , <b>2018</b> , 78, 1005-1019	7.5	169
45	A robust and efficient bilinear pairing based mutual authentication and session key verification over insecure communication. <i>Multimedia Tools and Applications</i> , <b>2018</b> , 77, 11041-11066	2.5	10

44	A Provably Secure Three-Factor Session Initiation Protocol for Multimedia Big Data Communications. <i>IEEE Internet of Things Journal</i> , <b>2018</b> , 5, 3408-3418	10.7	24
43	Efficient authentication protocol for secure multimedia communications in IoT-enabled wireless sensor networks. <i>Multimedia Tools and Applications</i> , <b>2018</b> , 77, 18295-18325	2.5	40
42	A robust mutual authentication scheme for session initiation protocol with key establishment. <i>Peer-to-Peer Networking and Applications</i> , <b>2018</b> , 11, 900-916	3.1	11
41	An improved three party authenticated key exchange protocol using hash function and elliptic curve cryptography for mobile-commerce environments. <i>Journal of King Saud University - Computer and Information Sciences</i> , <b>2017</b> , 29, 311-324	2.5	13
40	A Standard Mutual Authentication Protocol for Cloud Computing Based Health Care System. <i>Journal of Medical Systems</i> , <b>2017</b> , 41, 50	5.1	57
39	Improving Security of Lightweight Authentication Technique for Heterogeneous Wireless Sensor Networks. <i>Wireless Personal Communications</i> , <b>2017</b> , 95, 3141-3166	1.9	5
38	Design of authentication protocol for wireless sensor network-based smart vehicular system. <i>Vehicular Communications</i> , <b>2017</b> , 9, 64-71	5.7	40
37	Security on Secure Remote Login Scheme with Password and Smart Card Update Facilities□ <i>Communications in Computer and Information Science</i> , <b>2017</b> , 26-33	0.3	2
36	Design of Secure and Efficient Electronic Payment System for Mobile Users. <i>Communications in Computer and Information Science</i> , <b>2017</b> , 34-43	0.3	1
35	A robust ElGamal-based password-authentication protocol using smart card for client-server communication. <i>International Journal of Communication Systems</i> , <b>2017</b> , 30, e3242	1.7	26
34	Cryptanalysis and Improvement of an RSA Based Remote User Authentication Scheme Using Smart Card. <i>Wireless Personal Communications</i> , <b>2017</b> , 96, 4629-4659	1.9	15
33	A software agent enabled biometric security algorithm for secure file access in consumer storage devices. <i>IEEE Transactions on Consumer Electronics</i> , <b>2017</b> , 63, 53-61	4.8	24
32	An anonymous and robust multi-server authentication protocol using multiple registration servers. <i>International Journal of Communication Systems</i> , <b>2017</b> , 30, e3457	1.7	8
31	A Two-Factor RSA-Based Robust Authentication System for Multiserver Environments. <i>Security and Communication Networks</i> , <b>2017</b> , 2017, 1-15	1.9	25
30	An enhanced bilinear pairing based authenticated key agreement protocol for multiserver environment. <i>International Journal of Communication Systems</i> , <b>2017</b> , 30, e3358	1.7	15
29	A lightweight two-gateway based payment protocol ensuring accountability and unlinkable anonymity with dynamic identity. <i>Computers and Electrical Engineering</i> , <b>2017</b> , 57, 223-240	4.3	12
28	A Robust and Efficient Three-Factor Authentication and Session Key Agreement Mechanism for SIP <b>2017</b> ,		1
27	A secure light weight scheme for user authentication and key agreement in multi-gateway based wireless sensor networks. <i>Ad Hoc Networks</i> , <b>2016</b> , 36, 58-80	4.8	192

26	Design of an enhanced authentication protocol and its verification using AVISPA <b>2016</b> ,		4
25	Security analysis and design of an efficient ECC-based two-factor password authentication scheme. <i>Security and Communication Networks</i> , <b>2016</b> , 9, 4166-4181	1.9	28
24	An enhanced multi-server authentication protocol using password and smart-card: cryptanalysis and design. <i>Security and Communication Networks</i> , <b>2016</b> , 9, 4615-4638	1.9	25
23	A more secure and privacy-aware anonymous user authentication scheme for distributed mobile cloud computing environments. <i>Security and Communication Networks</i> , <b>2016</b> , 9, 4650-4666	1.9	30
22	An anonymous and provably secure authentication scheme for mobile user. <i>International Journal of Communication Systems</i> , <b>2016</b> , 29, 1529-1544	1.7	22
21	Design of an anonymity-preserving three-factor authenticated key exchange protocol for wireless sensor networks. <i>Computer Networks</i> , <b>2016</b> , 101, 42-62	5.4	178
20	Secure Remote Login Scheme with Password and Smart Card Update Facilities. <i>Advances in Intelligent Systems and Computing</i> , <b>2016</b> , 495-505	0.4	4
19	Malicious node detection using ID-based authentication technique <b>2016</b> ,		1
18	Provably Secure Pairing-Free Identity-Based Partially Blind Signature Scheme and Its Application in Online E-cash System. <i>Arabian Journal for Science and Engineering</i> , <b>2016</b> , 41, 3163-3176		17
17	Provably Secure Threshold-Based ABE Scheme Without Bilinear Map. <i>Arabian Journal for Science and Engineering</i> , <b>2016</b> , 41, 3201-3213		12
16	A Novel Reference Security Model with the Situation Based Access Policy for Accessing EPHR Data. <i>Journal of Medical Systems</i> , <b>2016</b> , 40, 242	5.1	17
15	An efficient remote mutual authentication scheme using smart mobile phone over insecure networks <b>2015</b> ,		8
14	An Improved RSA Based User Authentication and Session Key Agreement Protocol Usable in TMIS. <i>Journal of Medical Systems</i> , <b>2015</b> , 39, 79	5.1	39
13	A Secure Three-Factor User Authentication and Key Agreement Protocol for TMIS With User Anonymity. <i>Journal of Medical Systems</i> , <b>2015</b> , 39, 78	5.1	53
12	Cryptanalysis and Design of a Three-Party Authenticated Key Exchange Protocol Using Smart Card. <i>Arabian Journal for Science and Engineering</i> , <b>2015</b> , 40, 3135-3149		21
11	Anonymity preserving secure hash function based authentication scheme for consumer USB mass storage device <b>2015</b> ,		9
10	Design and Analysis of Bilinear Pairing Based Mutual Authentication and Key Agreement Protocol Usable in Multi-server Environment. <i>Wireless Personal Communications</i> , <b>2015</b> , 84, 439-462	1.9	53
9	An Efficient and Practical Smart Card Based Anonymity Preserving User Authentication Scheme for TMIS using Elliptic Curve Cryptography. <i>Journal of Medical Systems</i> , <b>2015</b> , 39, 180	5.1	61

8	Cryptanalysis and Enhancement of Anonymity Preserving Remote User Mutual Authentication and Session Key Agreement Scheme for E-Health Care Systems. <i>Journal of Medical Systems</i> , <b>2015</b> , 39, 140	5.1	49
7	Design and Analysis of an Enhanced Patient-Server Mutual Authentication Protocol for Telecare Medical Information System. <i>Journal of Medical Systems</i> , <b>2015</b> , 39, 137	5.1	28
6	An efficient and robust RSA-based remote user authentication for telecare medical information systems. <i>Journal of Medical Systems</i> , <b>2015</b> , 39, 145	5.1	64
5	Efficient biometric and password based mutual authentication for consumer USB mass storage devices. <i>IEEE Transactions on Consumer Electronics</i> , <b>2015</b> , 61, 491-499	4.8	25
4	A novel user authentication and key agreement protocol for accessing multi-medical server usable in TMIS. <i>Journal of Medical Systems</i> , <b>2015</b> , 39, 33	5.1	75
3	Remote Access Control Mechanism Using Rabin Public Key Cryptosystem. <i>Advances in Intelligent Systems and Computing</i> , <b>2015</b> , 525-533	0.4	12
2	An Improved Efficient Remote User Authentication Scheme in Multi-server Environment using Smart Card. <i>International Journal of Computer Applications</i> , <b>2013</b> , 69, 1-6	1.1	4
1	Cryptanalysis and an Efficient Secure ID-based Remote User Authentication using Smart Card. <i>International Journal of Computer Applications</i> , <b>2013</b> , 75, 43-48	1.1	5