

# Mohamed Amine Ferrag

## List of Publications by Year in Descending Order

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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.

75  
papers

2,269  
citations

22  
h-index

47  
g-index

93  
ext. papers

3,327  
ext. citations

3.1  
avg, IF

6.17  
L-index

#	Paper	IF	Citations
75	Physical Security and Safety of IoT Equipment: A Survey of Recent Advances and Opportunities. <i>IEEE Transactions on Industrial Informatics</i> , <b>2022</b> , 1-1	11.9	5
74	Cyber Security Intrusion Detection for Agriculture 4.0: Machine Learning-Based Solutions, Datasets, and Future Directions. <i>IEEE/CAA Journal of Automatica Sinica</i> , <b>2022</b> , 9, 407-436	7	5
73	SAMA: Security-Aware Monitoring Approach for Location Abusing and UAV GPS-Spoofing Attacks on Internet of Vehicles. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , <b>2022</b> , 343-360	0.2	
72	Edge-IIoTset: A New Comprehensive Realistic Cyber Security Dataset of IoT and IIoT Applications for Centralized and Federated Learning. <i>IEEE Access</i> , <b>2022</b> , 1-1	3.5	10
71	FELIDS: Federated learning-based intrusion detection system for agricultural Internet of Things. <i>Journal of Parallel and Distributed Computing</i> , <b>2022</b> , 165, 17-31	4.4	2
70	A Survey on Big IoT Data Indexing: Potential Solutions, Recent Advancements, and Open Issues. <i>Future Internet</i> , <b>2022</b> , 14, 19	3.3	0
69	. <i>IEEE Access</i> , <b>2021</b> , 9, 138509-138542	3.5	12
68	Digital Twins and Cyber Security Solution or challenge? <b>2021</b> ,		4
67	PetroBlock: A Blockchain-Based Payment Mechanism for Fueling Smart Vehicles. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 3055	2.6	15
66	WHISPER: A Location Privacy-Preserving Scheme Using Transmission Range Changing for Internet of Vehicles. <i>Sensors</i> , <b>2021</b> , 21,	3.8	3
65	Internet of Things for the Future of Smart Agriculture: A Comprehensive Survey of Emerging Technologies. <i>IEEE/CAA Journal of Automatica Sinica</i> , <b>2021</b> , 8, 718-752	7	89
64	Deep Learning-Based Intrusion Detection for Distributed Denial of Service Attack in Agriculture 4.0. <i>Electronics (Switzerland)</i> , <b>2021</b> , 10, 1257	2.6	26
63	EASBF: An efficient authentication scheme over blockchain for fog computing-enabled internet of vehicles. <i>Journal of Information Security and Applications</i> , <b>2021</b> , 59, 102802	3.5	10
62	A Survey on Smart Agriculture: Development Modes, Technologies, and Security and Privacy Challenges. <i>IEEE/CAA Journal of Automatica Sinica</i> , <b>2021</b> , 8, 273-302	7	61
61	The Performance Evaluation of Blockchain-based Security and Privacy Systems for the Internet of Things: A Tutorial. <i>IEEE Internet of Things Journal</i> , <b>2021</b> , 1-1	10.7	31
60	Blockchain Technology: Security and Privacy Issues. <i>Smart Innovation, Systems and Technologies</i> , <b>2021</b> , 95-107	0.5	
59	Achieving Secure and Privacy-Preserving in Mobile Social Networks <b>2021</b> , 380-412		

58	Between Location protection and Overthrowing: A Contrariness Framework Study for Smart Vehicles <b>2021</b> ,			1
57	Cyber Ranges and TestBeds for Education, Training, and Research. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 1809	2.6		8
56	Intrusion Detection in Critical Infrastructures: A Literature Review. <i>Smart Cities</i> , <b>2021</b> , 4, 1146-1157	3.3		2
55	Digital Transformation and Cybersecurity of Critical Infrastructures. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 8357	2.6		
54	A Mamdani Type Fuzzy Inference System to Calculate Employee Susceptibility to Phishing Attacks. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 9083	2.6		
53	. <i>IEEE/CAA Journal of Automatica Sinica</i> , <b>2021</b> , 8, 1477-1499	7		19
52	<b>2020</b> ,			1
51	The Security Aspects of Automotive Over-the-Air Updates. <i>International Journal of Cyber Warfare and Terrorism</i> , <b>2020</b> , 10, 64-81	0.3		2
50	A Detailed Analysis of Using Supervised Machine Learning for Intrusion Detection. <i>Springer Proceedings in Business and Economics</i> , <b>2020</b> , 629-639	0.2		3
49	RDTIDS: Rules and Decision Tree-Based Intrusion Detection System for Internet-of-Things Networks. <i>Future Internet</i> , <b>2020</b> , 12, 44	3.3		49
48	An efficient indexing for Internet of Things massive data based on cloud-fog computing. <i>Transactions on Emerging Telecommunications Technologies</i> , <b>2020</b> , 31, e3868	1.9		6
47	Use Of Smartphones for Ensuring Vulnerable Road User Safety through Path Prediction and Early Warning: An In-Depth Review of Capabilities, Limitations and Their Applications in Cooperative Intelligent Transport Systems. <i>Sensors</i> , <b>2020</b> , 20,	3.8		8
46	Security and Privacy Issues and Solutions for Fog <b>2020</b> , 353-374			8
45	Cyber security for fog-based smart grid SCADA systems: Solutions and challenges. <i>Journal of Information Security and Applications</i> , <b>2020</b> , 52, 102500	3.5		22
44	. <i>IEEE Access</i> , <b>2020</b> , 8, 32031-32053	3.5		107
43	A Robust Security Framework based on Blockchain and SDN for Fog Computing enabled Agricultural Internet of Things <b>2020</b> ,			3
42	Cyber Threats in the Healthcare Sector and Countermeasures. <i>Advances in Business Strategy and Competitive Advantage Book Series</i> , <b>2020</b> , 109-124	0.3		
41	Security and privacy challenges in the field of iOS device forensics. <i>AIMS Electronics and Electrical Engineering</i> , <b>2020</b> , 4, 249-258	1		2

40	The Cost Perspective of Password Security. <i>Advances in Information Security, Privacy, and Ethics Book Series</i> , <b>2020</b> , 319-330	0.3	1
39	Taxonomy of Supervised Machine Learning for Intrusion Detection Systems. <i>Springer Proceedings in Business and Economics</i> , <b>2020</b> , 619-628	0.2	2
38	Teaching the process of building an Intrusion Detection System using data from a small-scale SCADA testbed. <i>Internet Technology Letters</i> , <b>2020</b> , 3, e132	1.3	5
37	Deep learning for cyber security intrusion detection: Approaches, datasets, and comparative study. <i>Journal of Information Security and Applications</i> , <b>2020</b> , 50, 102419	3.5	194
36	Pseudonym change-based privacy-preserving schemes in vehicular ad-hoc networks: A survey. <i>Journal of Information Security and Applications</i> , <b>2020</b> , 55, 102618	3.5	6
35	DeepCoin: A Novel Deep Learning and Blockchain-Based Energy Exchange Framework for Smart Grids. <i>IEEE Transactions on Engineering Management</i> , <b>2020</b> , 67, 1285-1297	2.6	93
34	Authentication schemes for smart mobile devices: threat models, countermeasures, and open research issues. <i>Telecommunication Systems</i> , <b>2020</b> , 73, 317-348	2.3	28
33	DeliveryCoin: An IDS and Blockchain-Based Delivery Framework for Drone-Delivered Services. <i>Computers</i> , <b>2019</b> , 8, 58	1.9	36
32	Authentication and Authorization for Mobile IoT Devices Using Biofeatures: Recent Advances and Future Trends. <i>Security and Communication Networks</i> , <b>2019</b> , 2019, 1-20	1.9	32
31	A Novel Hierarchical Intrusion Detection System Based on Decision Tree and Rules-Based Models <b>2019</b> ,		57
30	Blockchain and Random Subspace Learning-Based IDS for SDN-Enabled Industrial IoT Security. <i>Sensors</i> , <b>2019</b> , 19,	3.8	65
29	Blockchain and Its Role in the Internet of Things. <i>Springer Proceedings in Business and Economics</i> , <b>2019</b> , 1029-1038	0.2	12
28	Cyber Security: From Regulations and Policies to Practice. <i>Springer Proceedings in Business and Economics</i> , <b>2019</b> , 763-770	0.2	6
27	Achieving Secure and Privacy-Preserving in Mobile Social Networks. <i>Advances in Computer and Electrical Engineering Book Series</i> , <b>2019</b> , 94-126	0.3	1
26	Blockchain Technologies for the Internet of Things: Research Issues and Challenges. <i>IEEE Internet of Things Journal</i> , <b>2019</b> , 6, 2188-2204	10.7	289
25	Cyber security of critical infrastructures. <i>ICT Express</i> , <b>2018</b> , 4, 42-45	4.9	71
24	An intrusion detection system based on combining probability predictions of a tree of classifiers. <i>International Journal of Communication Systems</i> , <b>2018</b> , 31, e3547	1.7	21
23	Internet of Cloud: Security and Privacy Issues. <i>Studies in Big Data</i> , <b>2018</b> , 271-301	0.9	15

22	A systematic review of data protection and privacy preservation schemes for smart grid communications. <i>Sustainable Cities and Society</i> , <b>2018</b> , 38, 806-835	10.1	51
21	Threats, Countermeasures and Attribution of Cyber Attacks on Critical Infrastructures. <i>EAI Endorsed Transactions on Security and Safety</i> , <b>2018</b> , 5, 155856	1.3	9
20	A Secure Routing Scheme Against Malicious Nodes in Ad Hoc Networks. <i>Advances in Information Security, Privacy, and Ethics Book Series</i> , <b>2018</b> , 284-307	0.3	
19	Security for 4G and 5G cellular networks: A survey of existing authentication and privacy-preserving schemes. <i>Journal of Network and Computer Applications</i> , <b>2018</b> , 101, 55-82	7.9	126
18	Taxonomy of Biometric-based Authentication Schemes for Mobile Computing Devices <b>2018</b> ,		1
17	Privacy-preserving Schemes for Fog-based IoT Applications: Threat models, Solutions, and Challenges <b>2018</b> ,		6
16	Vulnerability Assessment of Cyber Security for SCADA Systems. <i>Computer Communications and Networks</i> , <b>2018</b> , 59-80	0.5	3
15	ESSPR: an efficient secure routing scheme based on searchable encryption with vehicle proxy re-encryption for vehicular peer-to-peer social network. <i>Telecommunication Systems</i> , <b>2017</b> , 66, 481-503	2.3	22
14	EPEC: an efficient privacy-preserving energy consumption scheme for smart grid communications. <i>Telecommunication Systems</i> , <b>2017</b> , 66, 671-688	2.3	14
13	. <i>IEEE Communications Surveys and Tutorials</i> , <b>2017</b> , 19, 3015-3045	37.1	85
12	Authentication Protocols for Internet of Things: A Comprehensive Survey. <i>Security and Communication Networks</i> , <b>2017</b> , 2017, 1-41	1.9	137
11	Security and Privacy in Fog Computing: Challenges. <i>IEEE Access</i> , <b>2017</b> , 5, 19293-19304	3.5	302
10	Security Solutions and Applied Cryptography in Smart Grid Communications. <i>Advances in Information Security, Privacy, and Ethics Book Series</i> , <b>2017</b> ,	0.3	10
9	A Novel Intrusion Detection Mechanism for SCADA systems which Automatically Adapts to Network Topology Changes. <i>EAI Endorsed Transactions on Industrial Networks and Intelligent Systems</i> , <b>2017</b> , 4, 152155	1.5	8
8	EPSA: an efficient and privacy-preserving scheme against wormhole attack on reactive routing for mobile ad hoc social networks. <i>International Journal of Security and Networks</i> , <b>2016</b> , 11, 107	0.5	14
7	EPSA: an efficient and privacy-preserving scheme against wormhole attack on reactive routing for mobile ad hoc social networks. <i>International Journal of Security and Networks</i> , <b>2016</b> , 11, 107	0.5	3
6	Securing the Future Autonomous Vehicle: A Cyber-Physical Systems Approach <b>2015</b> , 216-239		1
5	SDPP: an intelligent secure detection scheme with strong privacy-preserving for mobile peer-to-peer social network. <i>International Journal of Information and Computer Security</i> , <b>2014</b> , 6, 241	0.4	5

4	Security and Privacy in Mobile Ad hoc Social Networks. <i>Advances in Information Security, Privacy, and Ethics Book Series</i> , <b>2014</b> , 222-243	0.3	3
3	ECPDR. <i>International Journal of Embedded and Real-Time Communication Systems</i> , <b>2013</b> , 4, 43-71	0.6	5
2	Deep Learning Techniques for Cyber Security Intrusion Detection : A Detailed Analysis		12
1	BLOSTER: Blockchain-based System for Detection of Fraudulent Rules in Software-Defined Networks		1