

# Mohamed Amine Ferrag

## List of Publications by Year in descending order

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86  
papers

4,718  
citations

172386

29  
h-index

110317

64  
g-index

93  
all docs

93  
docs citations

93  
times ranked

3685  
citing authors

#	ARTICLE	IF	CITATIONS
1	Blockchain Technologies for the Internet of Things: Research Issues and Challenges. IEEE Internet of Things Journal, 2019, 6, 2188-2204.	5.5	480
2	Deep learning for cyber security intrusion detection: Approaches, datasets, and comparative study. Journal of Information Security and Applications, 2020, 50, 102419.	1.8	421
3	Security and Privacy in Fog Computing: Challenges. IEEE Access, 2017, 5, 19293-19304.	2.6	413
4	Internet of Things for the Future of Smart Agriculture: A Comprehensive Survey of Emerging Technologies. IEEE/CAA Journal of Automatica Sinica, 2021, 8, 718-752.	8.5	246
5	Security and Privacy for Green IoT-Based Agriculture: Review, Blockchain Solutions, and Challenges. IEEE Access, 2020, 8, 32031-32053.	2.6	223
6	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
7	Authentication Protocols for Internet of Things: A Comprehensive Survey. Security and Communication Networks, 2017, 2017, 1-41.	1.0	193
8	Security for 4G and 5G cellular networks: A survey of existing authentication and privacy-preserving schemes. Journal of Network and Computer Applications, 2018, 101, 55-82.	5.8	190
9	A Survey on Smart Agriculture: Development Modes, Technologies, and Security and Privacy Challenges. IEEE/CAA Journal of Automatica Sinica, 2021, 8, 273-302.	8.5	187
10	Edge-IIoTset: A New Comprehensive Realistic Cyber Security Dataset of IoT and IIoT Applications for Centralized and Federated Learning. IEEE Access, 2022, 10, 40281-40306.	2.6	168
11	RDTIDS: Rules and Decision Tree-Based Intrusion Detection System for Internet-of-Things Networks. Future Internet, 2020, 12, 44.	2.4	142
12	A Novel Hierarchical Intrusion Detection System Based on Decision Tree and Rules-Based Models. , 2019, , .		140
13	Cyber security of critical infrastructures. ICT Express, 2018, 4, 42-45.	3.3	122
14	The Performance Evaluation of Blockchain-Based Security and Privacy Systems for the Internet of Things: A Tutorial. IEEE Internet of Things Journal, 2021, 8, 17236-17260.	5.5	111
15	Deep Learning-Based Intrusion Detection for Distributed Denial of Service Attack in Agriculture 4.0. Electronics (Switzerland), 2021, 10, 1257.	1.8	110
16	Blockchain and Random Subspace Learning-Based IDS for SDN-Enabled Industrial IoT Security. Sensors, 2019, 19, 3119.	2.1	107
17	Privacy-Preserving Schemes for Ad Hoc Social Networks: A Survey. IEEE Communications Surveys and Tutorials, 2017, 19, 3015-3045.	24.8	103
18	Federated Deep Learning for Cyber Security in the Internet of Things: Concepts, Applications, and Experimental Analysis. IEEE Access, 2021, 9, 138509-138542.	2.6	103

#	ARTICLE	IF	CITATIONS
19	A systematic review of data protection and privacy preservation schemes for smart grid communications. <i>Sustainable Cities and Society</i> , 2018, 38, 806-835.	5.1	73
20	FELIDS: Federated learning-based intrusion detection system for agricultural Internet of Things. <i>Journal of Parallel and Distributed Computing</i> , 2022, 165, 17-31.	2.7	67
21	DeliveryCoin: An IDS and Blockchain-Based Delivery Framework for Drone-Delivered Services. <i>Computers</i> , 2019, 8, 58.	2.1	56
22	Authentication and Authorization for Mobile IoT Devices Using Biofeatures: Recent Advances and Future Trends. <i>Security and Communication Networks</i> , 2019, 2019, 1-20.	1.0	51
23	Fighting COVID-19 and Future Pandemics With the Internet of Things: Security and Privacy Perspectives. <i>IEEE/CAA Journal of Automatica Sinica</i> , 2021, 8, 1477-1499.	8.5	48
24	An intrusion detection system based on combining probability predictions of a tree of classifiers. <i>International Journal of Communication Systems</i> , 2018, 31, e3547.	1.6	47
25	Cyber security for fog-based smart grid SCADA systems: Solutions and challenges. <i>Journal of Information Security and Applications</i> , 2020, 52, 102500.	1.8	46
26	Authentication schemes for smart mobile devices: threat models, countermeasures, and open research issues. <i>Telecommunication Systems</i> , 2020, 73, 317-348.	1.6	44
27	Cyber Ranges and TestBeds for Education, Training, and Research. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 1809.	1.3	44
28	Cyber Security Intrusion Detection for Agriculture 4.0: Machine Learning-Based Solutions, Datasets, and Future Directions. <i>IEEE/CAA Journal of Automatica Sinica</i> , 2022, 9, 407-436.	8.5	38
29	PetroBlock: A Blockchain-Based Payment Mechanism for Fueling Smart Vehicles. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 3055.	1.3	32
30	Physical Security and Safety of IoT Equipment: A Survey of Recent Advances and Opportunities. <i>IEEE Transactions on Industrial Informatics</i> , 2022, 18, 4319-4330.	7.2	31
31	EASBF: An efficient authentication scheme over blockchain for fog computing-enabled internet of vehicles. <i>Journal of Information Security and Applications</i> , 2021, 59, 102802.	1.8	30
32	Internet of Cloud: Security and Privacy Issues. <i>Studies in Big Data</i> , 2018, , 271-301.	0.8	28
33	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> , 2017, 66, 481-503.	1.6	27
34	Digital Twins and Cyber Security “ solution or challenge?. , 2021, , .		24
35	Deep Learning Techniques for Cyber Security Intrusion Detection : A Detailed Analysis. , 2019, , .		23
36	An efficient indexing for Internet of Things massive data based on cloud“fog computing. <i>Transactions on Emerging Telecommunications Technologies</i> , 2020, 31, e3868.	2.6	22

#	ARTICLE	IF	CITATIONS
37	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> , 2020, 20, 997.	2.1	18
38	Privacy-preserving Schemes for Fog-based IoT Applications: Threat models, Solutions, and Challenges. , 2018, , .		16
39	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> , 2017, 4, 152155.	1.5	16
40	Threats, Countermeasures and Attribution of Cyber Attacks on Critical Infrastructures. <i>EAI Endorsed Transactions on Security and Safety</i> , 2018, 5, 155856.	0.5	16
41	EPISA: 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> , 2016, 11, 107.	0.1	15
42	EPEC: an efficient privacy-preserving energy consumption scheme for smart grid communications. <i>Telecommunication Systems</i> , 2017, 66, 671-688.	1.6	15
43	Blockchain and Its Role in the Internet of Things. <i>Springer Proceedings in Business and Economics</i> , 2019, , 1029-1038.	0.3	15
44	WHISPER: A Location Privacy-Preserving Scheme Using Transmission Range Changing for Internet of Vehicles. <i>Sensors</i> , 2021, 21, 2443.	2.1	13
45	Pseudonym change-based privacy-preserving schemes in vehicular ad-hoc networks: A survey. <i>Journal of Information Security and Applications</i> , 2020, 55, 102618.	1.8	12
46	Vulnerability Assessment of Cyber Security for SCADA Systems. <i>Computer Communications and Networks</i> , 2018, , 59-80.	0.8	11
47	Intrusion Detection in Critical Infrastructures: A Literature Review. <i>Smart Cities</i> , 2021, 4, 1146-1157.	5.5	11
48	ECPDR. <i>International Journal of Embedded and Real-Time Communication Systems</i> , 2013, 4, 43-71.	0.3	10
49	A Detailed Analysis of Using Supervised Machine Learning for Intrusion Detection. <i>Springer Proceedings in Business and Economics</i> , 2020, , 629-639.	0.3	9
50	A Robust Security Framework based on Blockchain and SDN for Fog Computing enabled Agricultural Internet of Things. , 2020, , .		9
51	Cyber Security: From Regulations and Policies to Practice. <i>Springer Proceedings in Business and Economics</i> , 2019, , 763-770.	0.3	8
52	Teaching the process of building an Intrusion Detection System using data from a small-scale SCADA testbed. <i>Internet Technology Letters</i> , 2020, 3, e132.	1.4	8
53	The Impact of the Adversary's Eavesdropping Stations on the Location Privacy Level in Internet of Vehicles. , 2020, , .		7
54	The Security Aspects of Automotive Over-the-Air Updates. <i>International Journal of Cyber Warfare and Terrorism</i> , 2020, 10, 64-81.	0.3	6

#	ARTICLE	IF	CITATIONS
55	SDGchain: When Service Dependency Graph Meets Blockchain to Enhance Privacy. , 2021, , .		6
56	A novel Two-Factor HoneyToken Authentication Mechanism. , 2021, , .		6
57	SDPP: an intelligent secure detection scheme with strong privacy-preserving for mobile peer-to-peer social network. International Journal of Information and Computer Security, 2014, 6, 241.	0.2	5
58	Security and Privacy in Mobile Ad hoc Social Networks. Advances in Information Security, Privacy, and Ethics Book Series, 2014, , 222-243.	0.4	5
59	A Mamdani Type Fuzzy Inference System to Calculate Employee Susceptibility to Phishing Attacks. Applied Sciences (Switzerland), 2021, 11, 9083.	1.3	4
60	Security and privacy challenges in the field of iOS device forensics. AIMS Electronics and Electrical Engineering, 2020, 4, 249-258.	0.8	4
61	Clustering and parallel indexing of big IoT data in the fog cloud computing level. Transactions on Emerging Telecommunications Technologies, 2022, 33, .	2.6	4
62	A Survey on Big IoT Data Indexing: Potential Solutions, Recent Advancements, and Open Issues. Future Internet, 2022, 14, 19.	2.4	4
63	Intrusion Detection Systems for Industrial Internet of Things: A Survey. , 2021, , .		4
64	Taxonomy of Biometric-based Authentication Schemes for Mobile Computing Devices. , 2018, , .		3
65	EPSA: an efficient and privacy-preserving scheme against wormhole attack on reactive routing for mobile ad hoc social networks. International Journal of Security and Networks, 2016, 11, 107.	0.1	3
66	BLOSTER: Blockchain-based System for Detection of Fraudulent Rules in Software-Defined Networks. , 0, , .		3
67	Network Countermeasure Selection Under Blockchain Based Privacy Preserving. , 2021, , .		3
68	SAMA: Security-Aware Monitoring Approach for Location Abusing and UAV GPS-Spoofing Attacks on Internet of Vehicles. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2022, , 343-360.	0.2	3
69	Digital Transformation and Cybersecurity of Critical Infrastructures. Applied Sciences (Switzerland), 2021, 11, 8357.	1.3	2
70	Taxonomy of Supervised Machine Learning for Intrusion Detection Systems. Springer Proceedings in Business and Economics, 2020, , 619-628.	0.3	2
71	Securing the Future Autonomous Vehicle: A Cyber-Physical Systems Approach. , 2015, , 216-239.		2
72	Cybersecurity of Critical Infrastructures: Challenges and Solutions. Sensors, 2022, 22, 5105.	2.1	2

#	ARTICLE	IF	CITATIONS
73	Big IoT Data Indexing: Architecture, Techniques and Open Research Challenges. , 2019, , .		1
74	Between Location protection and Overthrowing: A Contrariness Framework Study for Smart Vehicles. , 2021, , .		1
75	Quantum Cryptography in Maritime Telecommunications. , 2021, , .		1
76	A Tutorial on Cross-Site Scripting Attack. , 2021, , 277-296.		1
77	Blockchain Technology for 6G Communication Networks. , 2021, , 77-96.		1
78	Achieving Secure and Privacy-Preserving in Mobile Social Networks. Advances in Computer and Electrical Engineering Book Series, 2019, , 94-126.	0.2	1
79	Blockchain Based Voting Systems. , 2020, , .		1
80	The Cost Perspective of Password Security. Advances in Information Security, Privacy, and Ethics Book Series, 2020, , 319-330.	0.4	1
81	Blockchain Technology: A case study in supply chain management. , 2021, , .		1
82	A new static path planning strategy for drones. Internet Technology Letters, 2022, 5, .	1.4	1
83	Achieving Secure and Privacy-Preserving in Mobile Social Networks. , 2021, , 380-412.		0
84	A Secure Routing Scheme Against Malicious Nodes in Ad Hoc Networks. Advances in Information Security, Privacy, and Ethics Book Series, 2018, , 284-307.	0.4	0
85	Cyber Threats in the Healthcare Sector and Countermeasures. Advances in Business Strategy and Competitive Advantage Book Series, 2020, , 109-124.	0.2	0
86	Preserving the Location Privacy of Drivers Using Transmission Range Changing Techniques in Internet of Vehicles. , 2020, , .		0