Liehuang Zhu

List of Publications by Year
in descending order

233	7,061	76326	69250
papers	citations	40	77
		h-index	g-index

237	237	237	5064
all docs	docs citations	times ranked	citing authors

#	ARTICLE	IF	CITATIONS
1	Privacy-Preserving Energy Trading Using Consortium Blockchain in Smart Grid. IEEE Transactions on Industrial Informatics, 2019, 15, 3548-3558.	11.3	424
2	Privacy-Preserving Support Vector Machine Training Over Blockchain-Based Encrypted IoT Data in Smart Cities. IEEE Internet of Things Journal, 2019, 6, 7702-7712.	8.7	313
3	Permissioned Blockchain and Edge Computing Empowered Privacy-Preserving Smart Grid Networks. IEEE Internet of Things Journal, 2019, 6, 7992-8004.	8.7	295
4	A PEFKS- and CP-ABE-Based Distributed Security Scheme in Interest-Centric Opportunistic Networks. International Journal of Distributed Sensor Networks, 2013, 2013, 1-10.	2.2	246
5	Blockchain-Based Data Preservation System for Medical Data. Journal of Medical Systems, 2018, 42, 141.	3.6	227
6	Controllable and trustworthy blockchain-based cloud data management. Future Generation Computer Systems, 2019, 91, 527-535.	7.5	222
7	Blockchain-Assisted Secure Device Authentication for Cross-Domain Industrial IoT. IEEE Journal on Selected Areas in Communications, 2020, 38, 942-954.	14.0	201
8	A Blockchain-Based Privacy-Preserving Payment Mechanism for Vehicle-to-Grid Networks. IEEE Network, 2018, 32, 184-192.	6.9	199
9	Blockchain Meets Cloud Computing: A Survey. IEEE Communications Surveys and Tutorials, 2020, 22, 2009-2030.	39.4	199
10	Differential Privacy-Based Blockchain for Industrial Internet-of-Things. IEEE Transactions on Industrial Informatics, 2020, 16, 4156-4165.	11.3	181
11	Efficient and Privacy-Preserving Carpooling Using Blockchain-Assisted Vehicular Fog Computing. IEEE Internet of Things Journal, 2019, 6, 4573-4584.	8.7	158
12	2FLIP: A Two-Factor Lightweight Privacy-Preserving Authentication Scheme for VANET. IEEE Transactions on Vehicular Technology, 2016, 65, 896-911.	6.3	157
13	Search pattern leakage in searchable encryption: Attacks and new construction. Information Sciences, 2014, 265, 176-188.	6.9	145
14	Privacy-Preserving Image Retrieval for Medical IoT Systems: A Blockchain-Based Approach. IEEE Network, 2019, 33, 27-33.	6.9	140
15	Cloud-Based Approximate Constrained Shortest Distance Queries Over Encrypted Graphs With Privacy Protection. IEEE Transactions on Information Forensics and Security, 2018, 13, 940-953.	6.9	134
16	Classification of Encrypted Traffic With Second-Order Markov Chains and Application Attribute Bigrams. IEEE Transactions on Information Forensics and Security, 2017, 12, 1830-1843.	6.9	131
17	Privacy-Preserving Content-Oriented Wireless Communication in Internet-of-Things. IEEE Internet of Things Journal, 2018, 5, 3059-3067.	8.7	128
18	EFFECT: an efficient flexible privacy-preserving data aggregation scheme with authentication in smart grid. Science China Information Sciences, 2019, 62, 1.	4.3	112

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19	PPDP: An efficient and privacy-preserving disease prediction scheme in cloud-based e-Healthcare system. Future Generation Computer Systems, 2018, 79, 16-25.	7.5	106
20	Accurate Decentralized Application Identification via Encrypted Traffic Analysis Using Graph Neural Networks. IEEE Transactions on Information Forensics and Security, 2021, 16, 2367-2380.	6.9	99
21	Privacy-Preserving DDoS Attack Detection Using Cross-Domain Traffic in Software Defined Networks. IEEE Journal on Selected Areas in Communications, 2018, 36, 628-643.	14.0	93
22	Blockchain-Based Incentives for Secure and Collaborative Data Sharing in Multiple Clouds. IEEE Journal on Selected Areas in Communications, 2020, 38, 1229-1241.	14.0	89
23	ASAP: An Anonymous Smart-Parking and Payment Scheme in Vehicular Networks. IEEE Transactions on Dependable and Secure Computing, 2020, 17, 703-715.	5.4	85
24	Cost-friendly Differential Privacy for Smart Meters: Exploiting the Dual Roles of the Noise. IEEE Transactions on Smart Grid, 2016, , 1-1.	9.0	78
25	Achieving Searchable and Privacy-Preserving Data Sharing for Cloud-Assisted E-Healthcare System. IEEE Internet of Things Journal, 2019, 6, 8345-8356.	8.7	74
26	Achieving differential privacy of trajectory data publishing in participatory sensing. Information Sciences, 2017, 400-401, 1-13.	6.9	69
27	Content-based multi-source encrypted image retrieval in clouds with privacy preservation. Future Generation Computer Systems, 2020, 109, 621-632.	7.5	65
28	Secure Phrase Search for Intelligent Processing of Encrypted Data in Cloud-Based IoT. IEEE Internet of Things Journal, 2019, 6, 1998-2008.	8.7	62
29	Fuzzy keyword search on encrypted cloud storage data with small index. , 2011, , .		61
30	Secure SVM Training Over Vertically-Partitioned Datasets Using Consortium Blockchain for Vehicular Social Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 5773-5783.	6.3	59
31	LESPP: lightweight and efficient strong privacy preserving authentication scheme for secure VANET communication. Computing (Vienna/New York), 2016, 98, 685-708.	4.8	58
32	Privacy-Preserving Authentication and Data Aggregation for Fog-Based Smart Grid. IEEE Communications Magazine, 2019, 57, 80-85.	6.1	58
33	A privacy-preserving data aggregation scheme for dynamic groups in fog computing. Information Sciences, 2020, 514, 118-130.	6.9	57
34	Optimizing Feature Selection for Efficient Encrypted Traffic Classification: A Systematic Approach. IEEE Network, 2020, 34, 20-27.	6.9	52
35	BSFP: Blockchain-Enabled Smart Parking With Fairness, Reliability and Privacy Protection. IEEE Transactions on Vehicular Technology, 2020, 69, 6578-6591.	6.3	51
36	Reliable and Privacy-Preserving Truth Discovery for Mobile Crowdsensing Systems. IEEE Transactions on Dependable and Secure Computing, 2019, , 1-1.	5.4	50

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37	Fine-Grained Webpage Fingerprinting Using Only Packet Length Information of Encrypted Traffic. IEEE Transactions on Information Forensics and Security, 2021, 16, 2046-2059.	6.9	50
38	SDN Controllers. ACM Computing Surveys, 2021, 53, 1-40.	23.0	50
39	Blockchain-Enabled Reengineering of Cloud Datacenters. IEEE Cloud Computing, 2018, 5, 21-25.	3.9	48
40	Privacy-Preserving Traffic Monitoring with False Report Filtering via Fog-Assisted Vehicular Crowdsensing. IEEE Transactions on Services Computing, 2021, 14, 1902-1913.	4.6	48
41	LPTD: Achieving lightweight and privacy-preserving truth discovery in CIoT. Future Generation Computer Systems, 2019, 90, 175-184.	7.5	46
42	SUAA: A Secure User Authentication Scheme with Anonymity for the Single & Multi-server Environments. Information Sciences, 2019, 477, 369-385.	6.9	43
43	Privacy-preserving contact tracing in 5G-integrated and blockchain-based medical applications. Computer Standards and Interfaces, 2021, 77, 103520.	5.4	43
44	A round-optimal lattice-based blind signature scheme for cloud services. Future Generation Computer Systems, 2017, 73, 106-114.	7.5	41
45	Blockchain-Enabled Trustworthy Group Communications in UAV Networks. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 4118-4130.	8.0	40
46	Big Data Mining of Users' Energy Consumption Patterns in the Wireless Smart Grid. IEEE Wireless Communications, 2018, 25, 84-89.	9.0	39
47	Exploiting Unintended Property Leakage in Blockchain-Assisted Federated Learning for Intelligent Edge Computing. IEEE Internet of Things Journal, 2021, 8, 2265-2275.	8.7	38
48	PRIF: A Privacy-Preserving Interest-Based Forwarding Scheme for Social Internet of Vehicles. IEEE Internet of Things Journal, 2018, 5, 2457-2466.	8.7	37
49	Location Privacy-Preserving Task Recommendation With Geometric Range Query in Mobile Crowdsensing. IEEE Transactions on Mobile Computing, 2022, 21, 4410-4425.	5.8	35
50	PPMR: A Privacy-Preserving Online Medical Service Recommendation Scheme in eHealthcare System. IEEE Internet of Things Journal, 2019, 6, 5665-5673.	8.7	34
51	LAMANCO: A Lightweight Anonymous Mutual Authentication Scheme for N -Times Computing Offloading in IoT. IEEE Internet of Things Journal, 2019, 6, 4462-4471.	8.7	34
52	Privacy Leakage in Smart Homes and Its Mitigation: IFTTT as a Case Study. IEEE Access, 2019, 7, 63457-63471.	4.2	30
53	Blockchain-based multimedia sharing in vehicular social networks with privacy protection. Multimedia Tools and Applications, 2020, 79, 8085-8105.	3.9	30
54	An Energy-Aware High Performance Task Allocation Strategy in Heterogeneous Fog Computing Environments. IEEE Transactions on Computers, 2021, 70, 626-639.	3.4	30

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55	PTBI: An efficient privacy-preserving biometric identification based on perturbed term in the cloud. Information Sciences, 2017, 409-410, 56-67.	6.9	29
56	Identifying the vulnerabilities of bitcoin anonymous mechanism based on address clustering. Science China Information Sciences, 2020, 63, 1.	4.3	29
57	PGAS: Privacy-preserving graph encryption for accurate constrained shortest distance queries. Information Sciences, 2020, 506, 325-345.	6.9	28
58	TPPR: A Trust-Based and Privacy-Preserving Platoon Recommendation Scheme in VANET. IEEE Transactions on Services Computing, 2022, 15, 806-818.	4.6	28
59	Zero-to-Stable Driver Identification: A Non-Intrusive and Scalable Driver Identification Scheme. IEEE Transactions on Vehicular Technology, 2020, 69, 163-171.	6.3	27
60	An Efficient and Privacy-Preserving Biometric Identification Scheme in Cloud Computing. IEEE Access, 2018, 6, 19025-19033.	4.2	26
61	Anonymous and Verifiable Reputation System for E-Commerce Platforms Based on Blockchain. IEEE Transactions on Network and Service Management, 2021, 18, 4434-4449.	4.9	26
62	Toward Delay-Tolerant Flexible Data Access Control for Smart Grid With Renewable Energy Resources. IEEE Transactions on Industrial Informatics, 2017, 13, 3216-3225.	11.3	25
63	Secure Fog-Assisted Crowdsensing With Collusion Resistance: From Data Reporting to Data Requesting. IEEE Internet of Things Journal, 2019, 6, 5473-5484.	8.7	25
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65	An Identity-Based Anti-Quantum Privacy-Preserving Blind Authentication in Wireless Sensor Networks. Sensors, 2018, 18, 1663.	3.8	24
66	Encrypted traffic classification of decentralized applications on ethereum using feature fusion. , 2019, , .		24
67	Enabling Privacy-Preserving Shortest Distance Queries on Encrypted Graph Data. IEEE Transactions on Dependable and Secure Computing, 2021, 18, 192-204.	5.4	24
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69	Cross-cluster asymmetric group key agreement for wireless sensor networks. Science China Information Sciences, 2018, 61, 1.	4.3	23
70	Achieving Privacy-Friendly Storage and Secure Statistics for Smart Meter Data on Outsourced Clouds. IEEE Transactions on Cloud Computing, 2019, 7, 638-649.	4.4	23
71	PRVB: Achieving Privacy-Preserving and Reliable Vehicular Crowdsensing via Blockchain Oracle. IEEE Transactions on Vehicular Technology, 2021, 70, 831-843.	6.3	23
72	VLA. , 2019, 3, 1-19.		22

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73	RTSense: Providing Reliable Trust-Based Crowdsensing Services in CVCC. IEEE Network, 2018, 32, 20-26.	6.9	21
74	Webpage Fingerprinting using Only Packet Length Information. , 2019, , .		21
75	Three-Stage Stackelberg Long-Term Incentive Mechanism and Monetization for Mobile Crowdsensing: An Online Learning Approach. IEEE Transactions on Network Science and Engineering, 2021, 8, 1385-1398.	6.4	21
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77	TJET: Ternary Join-Exit-Tree Based Dynamic Key Management for Vehicle Platooning. IEEE Access, 2017, 5, 26973-26989.	4.2	20
78	PAVS: A New Privacy-Preserving Data Aggregation Scheme for Vehicle Sensing Systems. Sensors, 2017, 17, 500.	3.8	20
79	An Identity‐Based Proxy Signature on NTRU Lattice. Chinese Journal of Electronics, 2018, 27, 297-303.	1.5	20
80	Pay as How You Behave: A Truthful Incentive Mechanism for Mobile Crowdsensing. IEEE Internet of Things Journal, 2019, 6, 10053-10063.	8.7	20
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84	Effective and Robust Physical-World Attacks on Deep Learning Face Recognition Systems. IEEE Transactions on Information Forensics and Security, 2021, 16, 4063-4077.	6.9	19
85	Graph Encryption for Top-K Nearest Keyword Search Queries on Cloud. IEEE Transactions on Sustainable Computing, 2017, 2, 371-381.	3.1	18
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87	Traffic Monitoring in Self-Organizing VANETs: A Privacy-Preserving Mechanism for Speed Collection and Analysis. IEEE Wireless Communications, 2019, 26, 18-23.	9.0	18
88	Privacy-Preserving Machine Learning Training in IoT Aggregation Scenarios. IEEE Internet of Things Journal, 2021, 8, 12106-12118.	8.7	18
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90	Chain-Based Covert Data Embedding Schemes in Blockchain. IEEE Internet of Things Journal, 2022, 9, 14699-14707.	8.7	17

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96	Edge Computing and Lightning Network Empowered Secure Food Supply Management. IEEE Internet of Things Journal, 2022, 9, 14247-14259.	8.7	15
97	Trust-Based Privacy-Preserving Photo Sharing in Online Social Networks. IEEE Transactions on Multimedia, 2019, 21, 591-602.	7.2	14
98	Who is Driving? Event-Driven Driver Identification and Impostor Detection Through Support Vector Machine. IEEE Sensors Journal, 2020, 20, 6552-6559.	4.7	14
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100	Multi-Access Filtering for Privacy-Preserving Fog Computing. IEEE Transactions on Cloud Computing, 2022, 10, 539-552.	4.4	13
101	Efficient Fine-Grained Website Fingerprinting via Encrypted Traffic Analysis with Deep Learning. , 2021, , .		13
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103	Provable Data Integrity of Cloud Storage Service With Enhanced Security in the Internet of Things. IEEE Access, 2019, 7, 6226-6239.	4.2	12
104	Differentially Private Publication Scheme for Trajectory Data. , 2016, , .		11
105	Side-Channel Attack on a Protected RFID Card. IEEE Access, 2018, 6, 58395-58404.	4.2	11
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110	Computationally sound symbolic security reduction analysis of the group key exchange protocols using bilinear pairings. Information Sciences, 2012, 209, 93-112.	6.9	10
111	A Novel Traceroute-Based Detection Scheme for Wi-Fi Evil Twin Attacks. , 2017, , .		10
112	A machine learning based golden-free detection method for command-activated hardware Trojan. Information Sciences, 2020, 540, 292-307.	6.9	10
113	PPLS: a privacy-preserving location-sharing scheme in mobile online social networks. Science China Information Sciences, 2020, 63, 1.	4.3	10
114	Aggregate in my way: Privacy-preserving data aggregation without trusted authority in ICN. Future Generation Computer Systems, 2020, 111, 107-116.	7.5	10
115	SearchBC: A Blockchain-Based PEKS Framework for IoT Services. IEEE Internet of Things Journal, 2021, 8, 5031-5044.	8.7	10
116	Achieving adaptively secure data access control with privacy protection for lightweight IoT devices. Science China Information Sciences, 2021, 64, 1.	4.3	10
117	An Efficient Confidentiality and Integrity Preserving Aggregation Protocol in Wireless Sensor Networks. International Journal of Distributed Sensor Networks, 2014, 10, 565480.	2.2	10
118	User-Defined Privacy-Preserving Traffic Monitoring Against n-by-1 Jamming Attack. IEEE/ACM Transactions on Networking, 2022, 30, 2060-2073.	3.8	10
119	An Efficient and Secure RFID Batch Authentication Protocol with Group Tags Ownership Transfer. , 2015, , .		9
120	A mutual authentication and key update protocol in satellite communication network. Automatika, 2020, 61, 334-344.	2.0	9
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122	Privacy-Preserving Data Synchronization Using Tensor-Based Fully Homomorphic Encryption. , 2018, , .		8
123	Blockchain Technology in Internet of Things. , 2019, , .		8
124	A universal method for realizing nonâ€repudiable provable data possession in cloud storage. Security and Communication Networks, 2016, 9, 2291-2301.	1.5	7
125	SmartDetect: A Smart Detection Scheme for Malicious Web Shell Codes via Ensemble Learning. Lecture Notes in Computer Science, 2018, , 196-205.	1.3	7
126	Malicious Bitcoin Transaction Tracing Using Incidence Relation Clustering. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2018, , 313-323.	0.3	7

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128	Proof of Continuous Work for Reliable Data Storage Over Permissionless Blockchain. IEEE Internet of Things Journal, 2022, 9, 7866-7875.	8.7	7
129	A Blockchain-Based Storage System With Financial Incentives for Load-balancing. IEEE Transactions on Network Science and Engineering, 2021, 8, 1178-1188.	6.4	7
130	A blockchain-based dynamic searchable symmetric encryption scheme under multiple clouds. Peer-to-Peer Networking and Applications, 2021, 14, 3647-3659.	3.9	7
131	Reputation-Based Trustworthy Supply Chain Management Using Smart Contract. Lecture Notes in Computer Science, 2020, , 35-49.	1.3	7
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133	Scalable protocol for cross-domain group password-based authenticated key exchange. Frontiers of Computer Science, 2015, 9, 157-169.	2.4	6
134	Attack-Resilient TLS Certificate Transparency. IEEE Access, 2020, 8, 98958-98973.	4.2	6
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136	Blockchain Empowered Differentially Private and Auditable Data Publishing in Industrial IoT. IEEE Transactions on Industrial Informatics, 2021, 17, 7659-7668.	11.3	6
137	An Approach of Secure Two-Way-Pegged Multi-sidechain. Lecture Notes in Computer Science, 2020, , 551-564.	1.3	6
138	Certificate-aware encrypted traffic classification using Second-Order Markov Chain. , 2016, , .		5
139	Right or wrong collision rate analysis without profiling: full-automatic collision fault attack. Science China Information Sciences, 2018, 61, 1.	4.3	5
140	Content-centric Caching Using Deep Reinforcement Learning in Mobile Computing. , 2019, , .		5
141	Guest Editorial: Special Section on Security and Privacy in Industry 4.0. IEEE Transactions on Industrial Informatics, 2020, 16, 6530-6531.	11.3	5
142	WiPOS: A POS Terminal Password Inference System Based on Wireless Signals. IEEE Internet of Things Journal, 2020, 7, 7506-7516.	8.7	5
143	Privacy-preserving voluntary-tallying leader election for internet of things. Information Sciences, 2021, 574, 461-472.	6.9	5
144	Efficient Framework for Genetic Algorithm-Based Correlation Power Analysis. IEEE Transactions on Information Forensics and Security, 2021, 16, 4882-4894.	6.9	5

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145	Privacy-Preserving and Fault-Tolerant Aggregation of Time-Series Data With a Semi-Trusted Authority. IEEE Internet of Things Journal, 2022, 9, 12231-12240.	8.7	5
146	Risk-Aware Checkpoint Selection in Cloud-Based Scientific Workflow. , 2012, , .		4
147	Achieving bandwidth guarantees in multi-tenant cloud networks using a dual-hose model. , 2014, , .		4
148	Closeness-based routing with temporal constraint for mobile social delay tolerant networks. , 2014, , .		4
149	Conditional Ciphertext-Policy Attribute-Based Encryption Scheme in Vehicular Cloud Computing. Mobile Information Systems, 2016, 2016, 1-10.	0.6	4
150	Risk-aware intermediate dataset backup strategy in cloud-based data intensive workflows. Future Generation Computer Systems, 2016, 55, 524-533.	7.5	4
151	Side-Channel Attacks and Countermeasures for Identity-Based Cryptographic Algorithm SM9. Security and Communication Networks, 2018, 2018, 1-14.	1.5	4
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153	SCM: Secure and accountable TLS certificate management. International Journal of Communication Systems, 2020, 33, e4503.	2.5	4
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155	Privacy for 5G-Supported Vehicular Networks. IEEE Open Journal of the Communications Society, 2021, 2, 1935-1956.	6.9	4
156	A Multiple Sieve Approach Based on Artificial Intelligent Techniques and Correlation Power Analysis. ACM Transactions on Multimedia Computing, Communications and Applications, 2021, 17, 1-21.	4.3	4
157	Reliable and Privacy-Preserving Top-k Disease Matching Schemes for E-Healthcare Systems. IEEE Internet of Things Journal, 2022, 9, 5537-5547.	8.7	4
158	LNBFSM: A Food Safety Management System Using Blockchain and Lightning Network. Lecture Notes in Computer Science, 2020, , 19-34.	1.3	4
159	Secure Data Aggregation in Wireless Sensor Networks. Springer Briefs in Electrical and Computer Engineering, 2017, , 3-31.	0.5	4
160	Toward Reliable and Confidential Release for Smart Contract via ID-Based TRE. IEEE Internet of Things Journal, 2022, 9, 11422-11433.	8.7	4
161	Report When Malicious: Deniable and Accountable Searchable Message-Moderation System. IEEE Transactions on Information Forensics and Security, 2022, 17, 1597-1609.	6.9	4
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165	A Collusion-Resistant and Privacy-Preserving Data Aggregation Protocol in Crowdsensing System. Mobile Information Systems, 2017, 2017, 1-11.	0.6	3
166	Meter Reading Aggregation Scheme with Universally Symbolic Analysis for Smart Grid. Chinese Journal of Electronics, 2019, 28, 577-584.	1.5	3
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171	Efficient and Privacy-Preserving Non-Interactive Truth Discovery for Mobile Crowdsensing. , 2020, , .		3
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176	Self-adaptive anonymous communication scheme under SDN architecture. , 2015, , .		2
177	Reasoning task dependencies for robust service selection in data intensive workflows. Computing (Vienna/New York), 2015, 97, 337-355.	4.8	2
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179	Location-based Privacy-preserving Techniques in Connected Environment: A Survey. , 2019, , .		2
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185	Blockchain: Empowering Secure Data Sharing. , 2020, , .		2
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