# Ibrar Yaqoob

List of Publications by Year
in descending order

| 79 | 10,989 | 94269 | 82410 |
|---|---|---|---|
| papers | citations | 37 | 72 |
| | | h-index | g-index |

| 81 | 81 | 81 | 10066 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 1 | The rise of "big data" on cloud computing: Review and open research issues. Information Systems, 2015, 47, 98-115. | 2.4 | 1,853 |
| 2 | The role of big data in smart city. International Journal of Information Management, 2016, 36, 748-758. | 10.5 | 763 |
| 3 | Big IoT Data Analytics: Architecture, Opportunities, and Open Research Challenges. IEEE Access, 2017, 5, 5247-5261. | 2.6 | 645 |
| 4 | Edge computing: A survey. Future Generation Computer Systems, 2019, 97, 219-235. | 4.9 | 634 |
| 5 | Internet-of-Things-Based Smart Cities: Recent Advances and Challenges. , 2017, 55, 16-24. | | 455 |
| 6 | Internet of Things Architecture: Recent Advances, Taxonomy, Requirements, and Open Challenges. IEEE Wireless Communications, 2017, 24, 10-16. | 6.6 | 442 |
| 7 | The role of big data analytics in Internet of Things. Computer Networks, 2017, 129, 459-471. | 3.2 | 439 |
| 8 | Internet-of-things-based smart environments: state of the art, taxonomy, and open research challenges. IEEE Wireless Communications, 2016, 23, 10-16. | 6.6 | 315 |
| 9 | Big Data: Survey, Technologies, Opportunities, and Challenges. Scientific World Journal, The, 2014, 2014, 1-18. | 0.8 | 313 |
| 10 | Big data: From beginning to future. International Journal of Information Management, 2016, 36, 1231-1247. | 10.5 | 282 |
| 11 | The Role of Edge Computing in Internet of Things. IEEE Communications Magazine, 2018, 56, 110-115. | 4.9 | 260 |
| 12 | The role of big data analytics in industrial Internet of Things. Future Generation Computer Systems, 2019, 99, 247-259. | 4.9 | 234 |
| 13 | Edge-Computing-Enabled Smart Cities: A Comprehensive Survey. IEEE Internet of Things Journal, 2020, 7, 10200-10232. | 5.5 | 219 |
| 14 | Internet of things forensics: Recent advances, taxonomy, requirements, and open challenges. Future Generation Computer Systems, 2019, 92, 265-275. | 4.9 | 217 |
| 15 | Complementing IoT Services Through Software Defined Networking and Edge Computing: A Comprehensive Survey. IEEE Communications Surveys and Tutorials, 2020, 22, 1761-1804. | 24.8 | 208 |
| 16 | The rise of ransomware and emerging security challenges in the Internet of Things. Computer Networks, 2017, 129, 444-458. | 3.2 | 197 |
| 17 | 6G Wireless Systems: A Vision, Architectural Elements, and Future Directions. IEEE Access, 2020, 8, 147029-147044. | 2.6 | 193 |
| 18 | Enabling Communication Technologies for Smart Cities. , 2017, 55, 112-120. | | 178 |

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| 19 | Blockchain for healthcare data management: opportunities, challenges, and future recommendations. Neural Computing and Applications, 2022, 34, 11475-11490. | 3.2 | 165 |
| 20 | Autonomous Driving Cars in Smart Cities: Recent Advances, Requirements, and Challenges. IEEE Network, 2020, 34, 174-181. | 4.9 | 155 |
| 21 | A survey of big data management: Taxonomy and state-of-the-art. Journal of Network and Computer Applications, 2016, 71, 151-166. | 5.8 | 153 |
| 22 | Bringing Computation Closer toward the User Network: Is Edge Computing the Solution?. , 2017, 55, 138-144. | | 152 |
| 23 | Blockchain for IoT-based smart cities: Recent advances, requirements, and future challenges. Journal of Network and Computer Applications, 2021, 181, 103007. | 5.8 | 139 |
| 24 | Blockchain for Digital Twins: Recent Advances and Future Research Challenges. IEEE Network, 2020, 34, 290-298. | 4.9 | 136 |
| 25 | The role of blockchain technology in telehealth and telemedicine. International Journal of Medical Informatics, 2021, 148, 104399. | 1.6 | 123 |
| 26 | Network Slicing: Recent Advances, Taxonomy, Requirements, and Open Research Challenges. IEEE Access, 2020, 8, 36009-36028. | 2.6 | 121 |
| 27 | Automating Procurement Contracts in the Healthcare Supply Chain Using Blockchain Smart Contracts. IEEE Access, 2021, 9, 37397-37409. | 2.6 | 109 |
| 28 | A Blockchain-Based Approach for the Creation of Digital Twins. IEEE Access, 2020, 8, 34113-34126. | 2.6 | 102 |
| 29 | Big Data Analytics in Industrial IoT Using a Concentric Computing Model. , 2018, 56, 37-43. | | 101 |
| 30 | Blockchain-Based Forward Supply Chain and Waste Management for COVID-19 Medical Equipment and Supplies. IEEE Access, 2021, 9, 44905-44927. | 2.6 | 93 |
| 31 | Overcoming the Key Challenges to Establishing Vehicular Communication: Is SDN the Answer?. , 2017, 55, 128-134. | | 88 |
| 32 | Mobile ad hoc cloud: A survey. Wireless Communications and Mobile Computing, 2016, 16, 2572-2589. | 0.8 | 87 |
| 33 | Blockchain-Based Solution for COVID-19 Digital Medical Passports and Immunity Certificates. IEEE Access, 2020, 8, 222093-222108. | 2.6 | 85 |
| 34 | MapReduce: Review and open challenges. Scientometrics, 2016, 109, 389-422. | 1.6 | 74 |
| 35 | Blockchain for Giving Patients Control Over Their Medical Records. IEEE Access, 2020, 8, 193102-193115. | 2.6 | 73 |
| 36 | Infotainment Enabled Smart Cars: A Joint Communication, Caching, and Computation Approach. IEEE Transactions on Vehicular Technology, 2019, 68, 8408-8420. | 3.9 | 52 |

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| 37 | Recent Advances and Challenges in Mobile Big Data. , 2018, 56, 102-108. | | 47 |
| 38 | Ensuring protocol compliance and data transparency in clinical trials using Blockchain smart contracts. BMC Medical Research Methodology, 2020, 20, 224. | 1.4 | 47 |
| 39 | Applications of Blockchain Technology in Clinical Trials: Review and Open Challenges. Arabian Journal for Science and Engineering, 2021, 46, 3001-3015. | 1.7 | 47 |
| 40 | Process Migration-Based Computational Offloading Framework for IoT-Supported Mobile Edge/Cloud Computing. IEEE Internet of Things Journal, 2020, 7, 4171-4182. | 5.5 | 44 |
| 41 | Social-Aware Resource Allocation and Optimization for D2D Communication. IEEE Wireless Communications, 2017, 24, 122-129. | 6.6 | 43 |
| 42 | Blockchain-Based Solution for the Traceability of Spare Parts in Manufacturing. IEEE Access, 2020, 8, 100308-100322. | 2.6 | 43 |
| 43 | Blockchain for aerospace and defense: Opportunities and open research challenges. Computers and Industrial Engineering, 2021, 151, 106982. | 3.4 | 43 |
| 44 | An Application Development Framework for Internet-of-Things Service Orchestration. IEEE Internet of Things Journal, 2020, 7, 4543-4556. | 5.5 | 40 |
| 45 | Blockchain for deep learning: review and open challenges. Cluster Computing, 2023, 26, 197-221. | 3.5 | 40 |
| 46 | Blockchain-Based Solution for Distribution and Delivery of COVID-19 Vaccines. IEEE Access, 2021, 9, 71372-71387. | 2.6 | 37 |
| 47 | Data Collection in Smart Communities Using Sensor Cloud: Recent Advances, Taxonomy, and Future Research Directions. IEEE Communications Magazine, 2018, 56, 192-197. | 4.9 | 36 |
| 48 | Resource Optimized Federated Learning-Enabled Cognitive Internet of Things for Smart Industries. IEEE Access, 2020, 8, 168854-168864. | 2.6 | 36 |
| 49 | Heterogeneity-Aware Task Allocation in Mobile Ad Hoc Cloud. IEEE Access, 2017, 5, 1779-1795. | 2.6 | 35 |
| 50 | Blockchain-Based Multi-Party Authorization for Accessing IPFS Encrypted Data. IEEE Access, 2020, 8, 196813-196825. | 2.6 | 32 |
| 51 | Blockchain for Waste Management in Smart Cities: A Survey. IEEE Access, 2021, 9, 131520-131541. | 2.6 | 32 |
| 52 | appXchain: Application-Level Interoperability for Blockchain Networks. IEEE Access, 2021, 9, 87777-87791. | 2.6 | 31 |
| 53 | Fully Decentralized Multi-Party Consent Management for Secure Sharing of Patient Health Records. IEEE Access, 2020, 8, 225777-225791. | 2.6 | 31 |
| 54 | VANETâ€"LTE based heterogeneous vehicular clustering for driving assistance and route planning applications. Computer Networks, 2018, 145, 128-140. | 3.2 | 30 |

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| 55 | Trustworthy IoT Data Streaming Using Blockchain and IPFS. IEEE Access, 2022, 10, 17707-17721. | 2.6 | 30 |
| 56 | Managing big RDF data in clouds: Challenges, opportunities, and solutions. Sustainable Cities and Society, 2018, 39, 375-386. | 5.1 | 29 |
| 57 | A novel countermeasure technique for reactive jamming attack in internet of things. Multimedia Tools and Applications, 2019, 78, 29899-29920. | 2.6 | 27 |
| 58 | COVID-19 Contact Tracing Using Blockchain. IEEE Access, 2021, 9, 62956-62971. | 2.6 | 27 |
| 59 | Channel Clustering and QoS Level Identification Scheme for Multi-Channel Cognitive Radio Networks. IEEE Communications Magazine, 2018, 56, 164-171. | 4.9 | 24 |
| 60 | MapReduce scheduling algorithms: a review. Journal of Supercomputing, 2020, 76, 4915-4945. | 2.4 | 24 |
| 61 | Blockchain in oil and gas industry: Applications, challenges, and future trends. Technology in Society, 2022, 68, 101941. | 4.8 | 23 |
| 62 | Blockchain Architectures for Physical Internet: A Vision, Features, Requirements, and Applications. IEEE Network, 2021, 35, 174-181. | 4.9 | 20 |
| 63 | Towards Coexistence of Cellular and WiFi Networks in Unlicensed Spectrum: A Neural Networks Based Approach. IEEE Access, 2019, 7, 110023-110034. | 2.6 | 18 |
| 64 | Blockchain-Based Decentralized Digital Manufacturing and Supply for COVID-19 Medical Devices and Supplies. IEEE Access, 2021, 9, 137923-137940. | 2.6 | 18 |
| 65 | A Novel Contract Theory-Based Incentive Mechanism for Cooperative Task-Offloading in Electrical Vehicular Networks. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 8380-8395. | 4.7 | 17 |
| 66 | The Role of Blockchain Technology in Aviation Industry. IEEE Aerospace and Electronic Systems Magazine, 2021, 36, 4-15. | 2.3 | 17 |
| 67 | Blockchain for Electric Vehicles Energy Trading: Requirements, Opportunities, and Challenges. IEEE Access, 2021, 9, 156947-156961. | 2.6 | 17 |
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| 69 | Blockchain-Enabled Telehealth Services Using Smart Contracts. IEEE Access, 2021, 9, 151944-151959. | 2.6 | 14 |
| 70 | Multi-objective optimization model for seamless application execution in mobile cloud computing. , 2013, , . | | 12 |
| 71 | Green industrial networking: recent advances, taxonomy, and open research challenges. , 2016, 54, 38-45. | | 12 |
| 72 | Blockchain-Based Management of Blood Donation. IEEE Access, 2021, 9, 163016-163032. | 2.6 | 12 |

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| 73 | Blockchain-Based Management for Organ Donation and Transplantation. IEEE Access, 2022, 10, 59013-59025. | 2.6 | 11 |
| 74 | Blockchain-Based Energy Trading in Electric Vehicles Using an Auctioning and Reputation Scheme. IEEE Access, 2021, 9, 165542-165556. | 2.6 | 9 |
| 75 | Blockchain-Based Solution for the Administration of Controlled Medication. IEEE Access, 2021, 9, 145397-145414. | 2.6 | 8 |
| 76 | Low-Energy Plasma Focus Device as an Electron Beam Source. Scientific World Journal, The, 2014, 2014, 1-9. | 0.8 | 6 |
| 77 | Trustworthy Blockchain Gateways for Resource-Constrained Clients and IoT Devices. IEEE Access, 2021, 9, 132875-132887. | 2.6 | 4 |
| 78 | A Blockchain-Based Solution for Mitigating Overproduction and Underconsumption of Medical Supplies. IEEE Access, 2022, 10, 71669-71682. | 2.6 | 4 |
| 79 | Cognitive Radio Sensor Networks. Advances in Wireless Technologies and Telecommunication Book Series, 2014, , 160-195. | 0.3 | 2 |