

Peter Chong

List of Publications by Year in descending order

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212
papers

4,250
citations

136950

32
h-index

133252

59
g-index

218
all docs

218
docs citations

218
times ranked

4666
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | A survey of clustering schemes for mobile ad hoc networks. IEEE Communications Surveys and Tutorials, 2005, 7, 32-48. | 39.4 | 687 |
| 2 | Precise Two-Photon Photodynamic Therapy using an Efficient Photosensitizer with Aggregation-Induced Emission Characteristics. Advanced Materials, 2017, 29, 1701076. | 21.0 | 258 |
| 3 | Broadband Wide-Angle Multifunctional Polarization Converter via Liquid-Metal-Based Metasurface. Advanced Optical Materials, 2017, 5, 1600938. | 7.3 | 172 |
| 4 | Visible Light Communication: A System Perspective-Overview and Challenges. Sensors, 2019, 19, 1153. | 3.8 | 152 |
| 5 | Modeling and Performance Analysis of Clustered Device-to-Device Networks. IEEE Transactions on Wireless Communications, 2016, , 1-1. | 9.2 | 143 |
| 6 | Water-Resonator-Based Metasurface: An Ultrabroadband and Near-Unity Absorption. Advanced Optical Materials, 2017, 5, 1601103. | 7.3 | 112 |
| 7 | Poisson Hole Process: Theory and Applications to Wireless Networks. IEEE Transactions on Wireless Communications, 2016, 15, 7531-7546. | 9.2 | 93 |
| 8 | Fundamentals of Cluster-Centric Content Placement in Cache-Enabled Device-to-Device Networks. IEEE Transactions on Communications, 2016, 64, 2511-2526. | 7.8 | 93 |
| 9 | A Comprehensive Study of IoT and WSN MAC Protocols: Research Issues, Challenges and Opportunities. IEEE Access, 2018, 6, 76228-76262. | 4.2 | 86 |
| 10 | An Evolutionary Self-Cooperative Trust Scheme Against Routing Disruptions in MANETs. IEEE Transactions on Mobile Computing, 2019, 18, 42-55. | 5.8 | 77 |
| 11 | Efficient data dissemination in cooperative multi-RSU Vehicular Ad Hoc Networks (VANETs). Journal of Systems and Software, 2016, 117, 508-527. | 4.5 | 76 |
| 12 | An Energy-Efficient Region-Based RPL Routing Protocol for Low-Power and Lossy Networks. IEEE Internet of Things Journal, 2016, 3, 1319-1333. | 8.7 | 74 |
| 13 | Sensor Technologies for Fall Detection Systems: A Review. IEEE Sensors Journal, 2020, 20, 6889-6919. | 4.7 | 73 |
| 14 | Multihop cellular networks: Technology and economics. Computer Networks, 2008, 52, 1825-1837. | 5.1 | 69 |
| 15 | Controller placement optimization in hierarchical distributed software defined vehicular networks. Computer Networks, 2018, 135, 226-239. | 5.1 | 69 |
| 16 | Feeling Positive About Reopening? New Normal Scenarios From COVID-19 US Reopen Sentiment Analytics. IEEE Access, 2020, 8, 142173-142190. | 4.2 | 65 |
| 17 | Forecasting spread of COVID-19 using google trends: A hybrid GWO-deep learning approach. Chaos, Solitons and Fractals, 2021, 142, 110336. | 5.1 | 65 |
| 18 | Multi-Resident Non-Contact Vital Sign Monitoring Using Radar: A Review. IEEE Sensors Journal, 2021, 21, 4061-4084. | 4.7 | 59 |

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| 19 | 0.2 λ Thick Adaptive Retroreflector Made of Spin-Locked Metasurface. <i>Advanced Materials</i> , 2018, 30, e1802721. | 21.0 | 58 |
| 20 | A comprehensive study of RPL and P2P-RPL routing protocols: Implementation, challenges and opportunities. <i>Peer-to-Peer Networking and Applications</i> , 2017, 10, 1232-1256. | 3.9 | 56 |
| 21 | Broadcast Performance Analysis and Improvements of the LTE-V2V Autonomous Mode at Road Intersection. <i>IEEE Transactions on Vehicular Technology</i> , 2019, 68, 9359-9369. | 6.3 | 54 |
| 22 | Link Stability Based Optimized Routing Framework for Software Defined Vehicular Networks. <i>IEEE Transactions on Vehicular Technology</i> , 2019, 68, 2934-2945. | 6.3 | 54 |
| 23 | An efficient clustering scheme for large and dense mobile ad hoc networks (MANETs). <i>Computer Communications</i> , 2006, 30, 5-16. | 5.1 | 51 |
| 24 | Arbitrary and Independent Polarization Control In Situ via a Single Metasurface. <i>Advanced Optical Materials</i> , 2018, 6, 1800728. | 7.3 | 49 |
| 25 | A Secure and Authenticated Key Management Protocol (SA-KMP) for Vehicular Networks. <i>IEEE Transactions on Vehicular Technology</i> , 2016, 65, 9570-9584. | 6.3 | 46 |
| 26 | Multifunctional Hyperbolic Nanogroove Metasurface for Submolecular Detection. <i>Small</i> , 2017, 13, 1700600. | 10.0 | 46 |
| 27 | Design and implementation of bluetooth energy meter. , 0, , . | | 45 |
| 28 | Device-to-Device Communications: A Contemporary Survey. <i>Wireless Personal Communications</i> , 2018, 98, 1247-1284. | 2.7 | 42 |
| 29 | Adaptable metasurface for dynamic anomalous reflection. <i>Applied Physics Letters</i> , 2017, 110, . | 3.3 | 39 |
| 30 | Design and Implementation of a Self-Powered Smart Water Meter. <i>Sensors</i> , 2019, 19, 4177. | 3.8 | 36 |
| 31 | Socioeconomic factors analysis for COVID-19 US reopening sentiment with Twitter and census data. <i>Heliyon</i> , 2021, 7, e06200. | 3.2 | 36 |
| 32 | Liquid-metal-based metasurface for terahertz absorption material: Frequency-agile and wide-angle. <i>APL Materials</i> , 2017, 5, 066103. | 5.1 | 33 |
| 33 | An energy-efficient and cluster-parent based RPL with power-level refinement for low-power and lossy networks. <i>Computer Communications</i> , 2017, 104, 17-33. | 5.1 | 33 |
| 34 | Solutions for the "Silent Node" Problem in an Automatic Meter Reading System Using Power-Line Communications. <i>IEEE Transactions on Power Delivery</i> , 2008, 23, 150-156. | 4.3 | 32 |
| 35 | Performance Comparison of Flat and Cluster-Based Hierarchical Ad Hoc Routing with Entity and Group Mobility. , 2009, , . | | 32 |
| 36 | Metafluidic metamaterial: a review. <i>Advances in Physics: X</i> , 2018, 3, 1417055. | 4.1 | 32 |

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| 37 | Delay efficient software defined networking based architecture for vehicular networks. , 2016, , . | | 29 |
| 38 | Design and implementation of user interface for mobile devices. IEEE Transactions on Consumer Electronics, 2004, 50, 1156-1161. | 3.6 | 27 |
| 39 | Analysis and Improvement of Reliability Through Coding for Safety Message Broadcasting in Urban Vehicular Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 6774-6787. | 6.3 | 27 |
| 40 | A survey of inter-flow network coding in wireless mesh networks with unicast traffic. Computer Networks, 2015, 91, 738-751. | 5.1 | 26 |
| 41 | The non-aqueous synthesis of shape controllable Cu ₂ S plasmonic nanostructures in a continuous-flow millifluidic chip for the generation of photo-induced heating. Nanoscale, 2016, 8, 6609-6622. | 5.6 | 24 |
| 42 | Efficient Real-Time Coding-Assisted Heterogeneous Data Access in Vehicular Networks. IEEE Internet of Things Journal, 2018, 5, 3499-3512. | 8.7 | 24 |
| 43 | Technologies in Multihop Cellular Networks [Guest Editorial]. , 2007, 45, 64-65. | | 23 |
| 44 | Biodegradable charged polyester-based vectors (BCPVs) as an efficient non-viral transfection nanoagent for gene knockdown of the BCR α -ABL hybrid oncogene in a human chronic myeloid leukemia cell line. Nanoscale, 2016, 8, 9405-9416. | 5.6 | 23 |
| 45 | Millifluidic synthesis of cadmium sulfide nanoparticles and their application in bioimaging. RSC Advances, 2017, 7, 36819-36832. | 3.6 | 22 |
| 46 | Split Archimedean spiral metasurface for controllable GHz asymmetric transmission. Applied Physics Letters, 2019, 114, . | 3.3 | 22 |
| 47 | A Network-Based Dynamic Channel Assignment Scheme for TDMA Cellular Systems. International Journal of Wireless Information Networks, 2001, 8, 155-165. | 2.7 | 21 |
| 48 | A Review of Group Mobility Models for Mobile Ad Hoc Networks. Wireless Personal Communications, 2015, 85, 1317-1331. | 2.7 | 21 |
| 49 | Performance of Efficient CBRP in Mobile Ad Hoc Networks (MANETS). , 2008, , . | | 19 |
| 50 | Machine-to-Machine Communication and Research Challenges: A Survey. Wireless Personal Communications, 2017, 97, 3569-3585. | 2.7 | 19 |
| 51 | A Novel Hybrid MAC Protocol for Basic Safety Message Broadcasting in Vehicular Networks. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 4269-4282. | 8.0 | 19 |
| 52 | Two-Phase Cooperative Broadcasting Based on Batched Network Code. IEEE Transactions on Communications, 2016, 64, 706-714. | 7.8 | 18 |
| 53 | Reliable State Estimation of an Unmanned Aerial Vehicle Over a Distributed Wireless IoT Network. IEEE Transactions on Reliability, 2019, 68, 1061-1069. | 4.6 | 17 |
| 54 | Performance of Reuse Partitioning in Cellular Systems with Mobile Users. International Journal of Wireless Information Networks, 2003, 10, 17-31. | 2.7 | 16 |

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| 55 | A Dynamic Channel Assignment Scheme for TDMA-based Multihop Cellular Networks. IEEE Transactions on Wireless Communications, 2008, 7, 1999-2003. | 9.2 | 16 |
| 56 | Reversible and Fast Responsive Optical Fiber Relative Humidity Sensor Based on Polyelectrolyte Self-Assembly Multilayer Film. IEEE Sensors Journal, 2018, 18, 1081-1086. | 4.7 | 16 |
| 57 | V2X Content Distribution Based on Batched Network Coding With Distributed Scheduling. IEEE Access, 2018, 6, 59449-59461. | 4.2 | 16 |
| 58 | Connectivity aware tribrid routing framework for a generalized software defined vehicular network. Computer Networks, 2019, 152, 167-177. | 5.1 | 16 |
| 59 | Harnessing the High Bandwidth of Multiradio Multichannel 802.11n Mesh Networks. IEEE Transactions on Mobile Computing, 2014, 13, 448-456. | 5.8 | 15 |
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| 62 | Link Dynamics Based Packet Routing Framework for Software Defined Vehicular Networks. , 2017, , . | | 13 |
| 63 | Coverage and Area Spectral Efficiency of Clustered Device-to-Device Networks. , 2015, , . | | 12 |
| 64 | An Energy-Efficient and Self-Regioning Based RPL for Low-Power and Lossy Networks. , 2016, , . | | 12 |
| 65 | Performance Analysis and Boost for a MAC Protocol in Vehicular Networks. IEEE Transactions on Vehicular Technology, 2019, 68, 8721-8728. | 6.3 | 12 |
| 66 | A Comprehensive Open-Source Simulation Framework for LiFi Communication. Sensors, 2021, 21, 2485. | 3.8 | 12 |
| 67 | The effect of code-multiplexing on the high speed downlink packet access (HSDPA) in a WCDMA network. , 0, , . | | 11 |
| 68 | Performance analysis of multihop cellular network with fixed channel assignment. Wireless Networks, 2010, 16, 511-526. | 3.0 | 11 |
| 69 | Capacity improvement in cellular systems with reuse partitioning. Journal of Communications and Networks, 2001, 3, 1-8. | 2.6 | 10 |
| 70 | Time Slot Allocation Schemes for Multihop TDD-CDMA Cellular System. , 2007, , . | | 10 |
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| 72 | Leader Based Group Routing in Disconnected Mobile Ad Hoc Networks with Group Mobility. Wireless Personal Communications, 2013, 71, 2003-2021. | 2.7 | 9 |

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| 84 | A Performance Comparison of Flat and Cluster Based Routings in Mobile Ad Hoc Networks. International Journal of Wireless Information Networks, 2012, 19, 122-137. | 2.7 | 7 |
| 85 | CEO: Consistency of Encoding and Overhearing in Network Coding-Aware Routing. IEEE Wireless Communications Letters, 2013, 2, 187-190. | 5.0 | 7 |
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| 95 | Combined orthogonal physical-layer network coding over fading two-way relay channels. International Journal of Communication Systems, 2014, 27, 4265-4279. | 2.5 | 6 |
| 96 | Interference-aware resource allocation for device-to-device communications in cellular networks. , 2015, , . | | 6 |
| 97 | Hybrid division duplex for HetNets: Coordinated interference management with uplink power control. , 2015, , . | | 6 |
| 98 | Radio Resource Allocation for D2D-Enabled Massive Machine Communication in the 5G Era. , 2016, , . | | 6 |
| 99 | A Reliable and Energy-efficient Opportunistic Routing Protocol for Dense Lossy Networks. IEEE Wireless Communications Letters, 2016, , 1-1. | 5.0 | 6 |
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| 112 | BSM dissemination with network coded relaying in VANETs at NLOS intersections. , 2017, , . | | 5 |
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| 115 | Resource Allocation Based Performance Analysis for 5G Vehicular Networks in Urban Areas. , 2020, , . | | 5 |
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| 128 | Design & implementation of user interface for mobile devices. , 0, , . | | 3 |
| 129 | Cross Time Slot Capacity Analysis for Uplink Transmission in Multihop Cellular System. , 2006, , . | | 3 |
| 130 | A Dynamic Channel Assignment Scheme for TDMA-Based Multihop Cellular Networks. , 2007, , . | | 3 |
| 131 | Energy consumption in TDD-CDMA multihop cellular networks. , 2009, , . | | 3 |
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| 133 | G-ER: Group-epidemic routing for mobile ad hoc networks with buffer sharing mechanism. , 2011, , . | | 3 |
| 134 | WSN-based energy-efficient data communication protocol for smart green building environment. , 2015, , . | | 3 |
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| 137 | A Time-Free Comparison-Based System-Level Fault Diagnostic Model for Highly Dynamic Networks. , 2016, , . | | 3 |
| 138 | An Overview of Trust-Based Routing Design Under Adversarial Mobile Ad Hoc Network Environment. Wireless Personal Communications, 2017, 96, 3923-3946. | 2.7 | 3 |
| 139 | Cooperative Data Routing & Scheduling In Software Defined Vehicular Networks. , 2018, , . | | 3 |
| 140 | Performance Analysis of Opportunistic Fog Based Radio Access Networks. IEEE Access, 2020, 8, 225191-225200. | 4.2 | 3 |
| 141 | Dynamic Channel Assignment for Multihop Cellular Networks with Any Reuse Factor. IEEE Communications Letters, 2008, 12, 346-348. | 4.1 | 2 |
| 142 | A medium access control scheme for TDD-CDMA cellular networks with two-hop relay architecture. IEEE Transactions on Wireless Communications, 2009, 8, 2280-2285. | 9.2 | 2 |
| 143 | Routing for group mobility in mobile ad hoc networks with delay-tolerant approach. , 2010, , . | | 2 |
| 144 | Dynamic Interference Mitigation in Two Tier HetNets: Modeling and Analysis. , 2014, , . | | 2 |

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| 146 | An automatic layout faults detection technique in responsive web pages considering JavaScript defined dynamic layouts. , 2016, , . | | 2 |
| 147 | Simulation study of routing attacks under network coding environment. , 2016, , . | | 2 |
| 148 | A Cloud-Based Network Architecture for Big Data Services. , 2016, , . | | 2 |
| 149 | Microfluidic Metasurfaces: Broadband Wide- \angle Multifunctional Polarization Converter via Liquid-Metal-Based Metasurface (Advanced Optical Materials 7/2017). Advanced Optical Materials, 2017, 5, . | 7.3 | 2 |
| 150 | Cooperative forwarding in multi-radio multi-channel multi-flow wireless networks. , 2017, , . | | 2 |
| 151 | Efficient Flow Instantiation via Source Routing in Software Defined Vehicular Networks. , 2017, , . | | 2 |
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| 153 | Recent Advances on Cellular D2D Communications. Future Internet, 2018, 10, 10. | 3.8 | 2 |
| 154 | Simulation study of some PRMA-based protocols with channel reservation for data traffic. , 2005, , . | | 2 |
| 155 | Miniaturized Fluidic Devices and Their Biophotonic Applications. , 2016, , 1-47. | | 2 |
| 156 | Performance study of GPRS/EDGE systems for voice and data transmission in cellular systems. , 0, , . | | 1 |
| 157 | Capacity optimizing channel allocation scheme supporting multiple services with mobile users in cellular system. , 2005, , . | | 1 |
| 158 | Performance of Microcell/Macrocell cellular systems with reuse partitioning. , 2006, , . | | 1 |
| 159 | Capacity improvement with dynamic channel assignment and reuse partitioning in cellular systems. Journal of Communications and Networks, 2006, 8, 13-20. | 2.6 | 1 |
| 160 | Design and implementation of a UWB peer-to-peer communication network. , 2007, , . | | 1 |
| 161 | Asymmetric FCA for Downlink and Uplink Transmission in Clustered Multihop Cellular Network. Wireless Personal Communications, 2008, 44, 341-360. | 2.7 | 1 |
| 162 | High-Speed Multimedia Services for TDD-CDMA Multihop Cellular Networks (Invited). , 2008, , . | | 1 |

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| 163 | Simulation Study of the SIR in Mobile Ad-Hoc Networks. <i>Wireless Personal Communications</i> , 2009, 48, 239-245. | 2.7 | 1 |
| 164 | Design and Implementation of a Centralized Sensor Protocol for Information via Negotiation. , 2010, , . | | 1 |
| 165 | Real-life experiments of Multi-Radio Multi-Channel wireless mesh networks: 802.11n is not any better than 802.11a!. , 2011, , . | | 1 |
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| 168 | Performance Comparison of Time Slot Allocation Schemes in TDD-CDMA Multihop Cellular Networks. <i>Wireless Personal Communications</i> , 2012, 62, 557-576. | 2.7 | 1 |
| 169 | Combined orthogonal physical-layer network coding (COPNC) for asymmetric two-way relay channels. , 2013, , . | | 1 |
| 170 | Cubic-based 3-D localization for wireless sensor networks. , 2013, , . | | 1 |
| 171 | A neighborhood connectivity-based trust scheme to identify active black hole attacks. , 2014, , . | | 1 |
| 172 | Poster: Trust-based routing with neighborhood connectivity to prevent single and colluded active black hole. , 2014, , . | | 1 |
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| 174 | On striking the balance between the fairness of service and throughput in roadside units based vehicular ad hoc networks. <i>International Journal of Vehicle Autonomous Systems</i> , 2016, 13, 168. | 0.2 | 1 |
| 175 | Optical Fibre-Based Environmental Sensors Utilizing Wireless Smart Grid Platform. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2017, , 253-258. | 0.3 | 1 |
| 176 | Robustness of radiometric fingerprinting in the presence of an impersonator. , 2017, , . | | 1 |
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| 182 | Embedded human interface device for voice and data communication. , 0, , . | | 0 |
| 183 | Simulation study of some PRMA-based protocols with channel reservation for data traffic. International Journal of Ad Hoc and Ubiquitous Computing, 2007, 2, 167. | 0.5 | 0 |
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| 189 | Performance Investigation of CDMA/PRMA with Imperfect Power Control in TDD Cellular Systems. Wireless Personal Communications, 2010, 54, 349-360. | 2.7 | 0 |
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