# Björn Ottersten

## List of Publications by Year
in descending order

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|---|---|---|---|
| 363<br>papers | 17,396<br>citations | 15504<br>65<br>h-index | 21540<br>114<br>g-index |
| 364<br>all docs | 364<br>docs citations | 364<br>times ranked | 8156<br>citing authors |

| # | Article | IF | Citations |
|---|---------|----|-----|
| 1 | Energy Efficiency Optimization for Backscatter Enhanced NOMA Cooperative V2X Communications Under Imperfect CSI. IEEE Transactions on Intelligent Transportation Systems, 2023, 24, 12961-12972. | 8.0 | 31 |
| 2 | UAV Relay-Assisted Emergency Communications in IoT Networks: Resource Allocation and Trajectory Optimization. IEEE Transactions on Wireless Communications, 2022, 21, 1621-1637. | 9.2 | 51 |
| 3 | Efficient Algorithms for Constant-Modulus Analog Beamforming. IEEE Transactions on Signal Processing, 2022, 70, 756-771. | 5.3 | 10 |
| 4 | Dynamic Bandwidth Allocation and Precoding Design for Highly-Loaded Multiuser MISO in Beyond 5G Networks. IEEE Transactions on Wireless Communications, 2022, 21, 1794-1805. | 9.2 | 6 |
| 5 | Uplink Power Control in Massive MIMO With Double Scattering Channels. IEEE Transactions on Wireless Communications, 2022, 21, 1989-2005. | 9.2 | 15 |
| 6 | Throughput Enhancement in FD- and SWIPT-Enabled IoT Networks Over Nonidentical Rayleigh Fading Channels. IEEE Internet of Things Journal, 2022, 9, 10172-10186. | 8.7 | 9 |
| 7 | Downlink Transmit Design for Massive MIMO LEO Satellite Communications. IEEE Transactions on Communications, 2022, 70, 1014-1028. | 7.8 | 38 |
| 8 | A Family of Deep Learning Architectures for Channel Estimation and Hybrid Beamforming in Multi-Carrier mm-Wave Massive MIMO. IEEE Transactions on Cognitive Communications and Networking, 2022, 8, 642-656. | 7.9 | 15 |
| 9 | On the Optimality of the Stationary Solution of Secrecy Rate Maximization for MIMO Wiretap Channel. IEEE Wireless Communications Letters, 2022, 11, 357-361. | 5.0 | 3 |
| 10 | Reconfigurable Intelligent Surface-Assisted Cell-Free Massive MIMO Systems Over Spatially-Correlated Channels. IEEE Transactions on Wireless Communications, 2022, 21, 5106-5128. | 9.2 | 67 |
| 11 | Joint Multislot Scheduling and Precoding for Unicast and Multicast Scenarios in Multiuser MISO Systems. IEEE Transactions on Wireless Communications, 2022, 21, 5004-5018. | 9.2 | 1 |
| 12 | Joint Parameter Estimation From Binary Observations Over Decentralized Channels. IEEE Transactions on Signal Processing, 2022, 70, 509-522. | 5.3 | 1 |
| 13 | Optimal Sensor Placement for Source Localization: A Unified ADMM Approach. IEEE Transactions on Vehicular Technology, 2022, 71, 4359-4372. | 6.3 | 24 |
| 14 | Throughput Maximization for Backscatter- and Cache-Assisted Wireless Powered UAV Technology. IEEE Transactions on Vehicular Technology, 2022, 71, 5187-5202. | 6.3 | 18 |
| 15 | Detection of Spoofing Attacks in Aeronautical Ad-Hoc Networks Using Deep Autoencoders. IEEE Transactions on Information Forensics and Security, 2022, 17, 1010-1023. | 6.9 | 5 |
| 16 | Resource Allocation in Heterogeneously-Distributed Joint Radar-Communications Under Asynchronous Bayesian Tracking Framework. IEEE Journal on Selected Areas in Communications, 2022, 40, 2026-2042. | 14.0 | 18 |
| 17 | Demand and Interference Aware Adaptive Resource Management for High Throughput GEO Satellite Systems. IEEE Open Journal of the Communications Society, 2022, 3, 759-775. | 6.9 | 3 |
| 18 | Architectures and Synchronization Techniques for Distributed Satellite Systems: A Survey. IEEE Access, 2022, 10, 45375-45409. | 4.2 | 14 |

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|---|---------|-----|-----------|
| 19 | Impact of Phase-Noise and Spatial Correlation on Double-RIS-Assisted Multiuser MISO Networks. IEEE Wireless Communications Letters, 2022, 11, 1473-1477. | 5.0 | 5 |
| 20 | RF Precoding for Cognitive Radio Systems. IEEE Wireless Communications Letters, 2022, 11, 1845-1849. | 5.0 | 1 |
| 21 | Massive MIMO Hybrid Precoding for LEO Satellite Communications With Twin-Resolution Phase Shifters and Nonlinear Power Amplifiers. IEEE Transactions on Communications, 2022, 70, 5543-5557. | 7.8 | 6 |
| 22 | Radio Resource Management Techniques for Multibeam Satellite Systems. IEEE Communications Letters, 2021, 25, 2448-2452. | 4.1 | 36 |
| 23 | Transfer Learning and Meta Learning-Based Fast Downlink Beamforming Adaptation. IEEE Transactions on Wireless Communications, 2021, 20, 1742-1755. | 9.2 | 45 |
| 24 | Efficient Federated Learning Algorithm for Resource Allocation in Wireless IoT Networks. IEEE Internet of Things Journal, 2021, 8, 3394-3409. | 8.7 | 61 |
| 25 | Coverage Probability and Ergodic Capacity of Intelligent Reflecting Surface-Enhanced Communication Systems. IEEE Communications Letters, 2021, 25, 69-73. | 4.1 | 72 |
| 26 | Generalized Multiplexed Waveform Design Framework for Cost-Optimized MIMO Radar. IEEE Transactions on Signal Processing, 2021, 69, 88-102. | 5.3 | 3 |
| 27 | Design Optimization for Low-Complexity FPGA Implementation of Symbol-Level Multiuser Precoding. IEEE Access, 2021, 9, 30698-30711. | 4.2 | 3 |
| 28 | Localization With One-Bit Passive Radars in Narrowband Internet-of-Things Using Multivariate Polynomial Optimization. IEEE Transactions on Signal Processing, 2021, 69, 2525-2540. | 5.3 | 22 |
| 29 | Data-Driven Precoded MIMO Detection Robust to Channel Estimation Errors. IEEE Open Journal of the Communications Society, 2021, 2, 1144-1157. | 6.9 | 1 |
| 30 | Trend-Aware Proactive Caching via Tensor Train Decomposition: A Bayesian Viewpoint. IEEE Open Journal of the Communications Society, 2021, 2, 975-989. | 6.9 | 1 |
| 31 | NOMA-Enabled Multi-Beam Satellite Systems: Joint Optimization to Overcome Offered-Requested Data Mismatches. IEEE Transactions on Vehicular Technology, 2021, 70, 900-913. | 6.3 | 22 |
| 32 | DoA Estimation Using Low-Resolution Multi-Bit Sparse Array Measurements. IEEE Signal Processing Letters, 2021, 28, 1400-1404. | 3.6 | 6 |
| 33 | Completion Time Minimization in NOMA Systems: Learning for Combinatorial Optimization. IEEE Networking Letters, 2021, 3, 15-18. | 1.9 | 3 |
| 34 | Short-Packet Communications for MIMO NOMA Systems Over Nakagami-$m$ Fading: BLER and Minimum Blocklength Analysis. IEEE Transactions on Vehicular Technology, 2021, 70, 3583-3598. | 6.3 | 40 |
| 35 | Energy-Efficient Hybrid Symbol-Level Precoding for Large-Scale mmWave Multiuser MIMO Systems. IEEE Transactions on Communications, 2021, 69, 3119-3134. | 7.8 | 9 |
| 36 | Energy Minimization in UAV-Aided Networks: Actor-Critic Learning for Constrained Scheduling Optimization. IEEE Transactions on Vehicular Technology, 2021, 70, 5028-5042. | 6.3 | 25 |

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| 37 | Adaptive Waveform Design for Automotive Joint Radar-Communication Systems. IEEE Transactions on Vehicular Technology, 2021, 70, 4273-4290. | 6.3 | 15 |
| 38 | Orthorectified Polar Format Algorithm for Generalized Spotlight SAR Imaging With DEM. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 3999-4007. | 6.3 | 10 |
| 39 | Machine Learning-Enabled Joint Antenna Selection and Precoding Design: From Offline Complexity to Online Performance. IEEE Transactions on Wireless Communications, 2021, 20, 3710-3722. | 9.2 | 24 |
| 40 | Automotive Squint-Forward-Looking SAR: High Resolution and Early Warning. IEEE Journal on Selected Topics in Signal Processing, 2021, 15, 904-912. | 10.8 | 7 |
| 41 | Feasible Point Pursuit and Successive Convex Approximation for Transmit Power Minimization in SWIPT-Multigroup Multicasting Systems. IEEE Transactions on Green Communications and Networking, 2021, 5, 884-894. | 5.5 | 6 |
| 42 | Symbol-Level Precoding With Constellation Rotation in the Finite Block Length Regime. IEEE Communications Letters, 2021, 25, 2314-2318. | 4.1 | 2 |
| 43 | Joint Symbol Level Precoding and Combining for MIMO-OFDM Transceiver Architectures Based on One-Bit DACs and ADCs. IEEE Transactions on Wireless Communications, 2021, 20, 4601-4613. | 9.2 | 9 |
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| 45 | System Modeling and Design Aspects of Next Generation High Throughput Satellites. IEEE Communications Letters, 2021, 25, 2443-2447. | 4.1 | 14 |
| 46 | Outage Probability Analysis of IRS-Assisted Systems Under Spatially Correlated Channels. IEEE Wireless Communications Letters, 2021, 10, 1815-1819. | 5.0 | 64 |
| 47 | Precoding for Satellite Communications: Why, How and What Next?. IEEE Communications Letters, 2021, 25, 2453-2457. | 4.1 | 12 |
| 48 | Hybrid Beamforming, User Scheduling, and Resource Allocation for Integrated Terrestrial-Satellite Communication. IEEE Transactions on Vehicular Technology, 2021, 70, 8868-8882. | 6.3 | 22 |
| 49 | A Remote Carrier Synchronization Technique for Coherent Distributed Remote Sensing Systems. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 1909-1922. | 4.9 | 3 |
| 50 | Effective Rate Evaluation of RIS-Assisted Communications Using the Sums of Cascaded $\alpha$-$\mu$ Random Variates. IEEE Access, 2021, 9, 5832-5844. | 4.2 | 19 |
| 51 | On the Secrecy Capacity of MIMO Wiretap Channels: Convex Reformulation and Efficient Numerical Methods. IEEE Transactions on Communications, 2021, 69, 6865-6878. | 7.8 | 9 |
| 52 | Multi-Antenna Data-Driven Eavesdropping Attacks and Symbol-Level Precoding Countermeasures. IEEE Open Journal of Vehicular Technology, 2021, 2, 321-336. | 4.9 | 0 |
| 53 | Finite-Alphabet Symbol-Level Multiuser Precoding for Massive MU-MIMO Downlink. IEEE Transactions on Signal Processing, 2021, 69, 5595-5610. | 5.3 | 3 |
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| 56 | On the Performance of One-Bit DoA Estimation via Sparse Linear Arrays. IEEE Transactions on Signal Processing, 2021, 69, 6165-6182. | 5.3 | 26 |
| 57 | Reconfigurable Intelligent Surfaces in Challenging Environments: Underwater, Underground, Industrial and Disaster. IEEE Access, 2021, 9, 150214-150233. | 4.2 | 24 |
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| 59 | Hybrid Analog-Digital Transceiver Designs for Multi-User MIMO mmWave Cognitive Radio Systems. IEEE Transactions on Cognitive Communications and Networking, 2020, 6, 310-324. | 7.9 | 22 |
| 60 | Full-Duplex Enabled Mobile Edge Caching: From Distributed to Cooperative Caching. IEEE Transactions on Wireless Communications, 2020, 19, 1141-1153. | 9.2 | 10 |
| 61 | Hybrid Transceivers Design for Large-Scale Antenna Arrays Using Majorization-Minimization Algorithms. IEEE Transactions on Signal Processing, 2020, 68, 701-714. | 5.3 | 35 |
| 62 | An Asymptotically Efficient Weighted Least Squares Estimator for Co-Array-Based DoA Estimation. IEEE Transactions on Signal Processing, 2020, 68, 589-604. | 5.3 | 20 |
| 63 | Oversampled DFT-Modulated Biorthogonal Filter Banks: Perfect Reconstruction Designs and Multiplierless Approximations. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 2777-2781. | 3.0 | 3 |
| 64 | Symbol Level Precoding With Low Resolution DACs for Constant Envelope OFDM MU-MIMO Systems. IEEE Access, 2020, 8, 12856-12866. | 4.2 | 10 |
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| 66 | Massive MIMO Transmission for LEO Satellite Communications. IEEE Journal on Selected Areas in Communications, 2020, 38, 1851-1865. | 14.0 | 205 |
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| 68 | Weighted Sum-SINR and Fairness Optimization for SWIPT-Multigroup Multicasting Systems With Heterogeneous Users. IEEE Open Journal of the Communications Society, 2020, 1, 1470-1484. | 6.9 | 5 |
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| 70 | Constant Envelope MIMO-OFDM Precoding for Low Complexity Large-Scale Antenna Array Systems. IEEE Transactions on Wireless Communications, 2020, 19, 7973-7985. | 9.2 | 11 |
| 71 | Beam Illumination Pattern Design in Satellite Networks: Learning and Optimization for Efficient Beam Hopping. IEEE Access, 2020, 8, 136655-136667. | 4.2 | 45 |
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| 76 | Joint Forecasting and Interpolation of Time-Varying Graph Signals Using Deep Learning. IEEE Transactions on Signal and Information Processing Over Networks, 2020, 6, 761-773. | 2.8 | 8 |
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| 78 | On the Spectral and Energy Efficiencies of Full-Duplex Cell-Free Massive MIMO. IEEE Journal on Selected Areas in Communications, 2020, 38, 1698-1718. | 14.0 | 64 |
| 79 | A RAN Resource Slicing Mechanism for Multiplexing of eMBB and URLLC Services in OFDMA Based 5G Wireless Networks. IEEE Access, 2020, 8, 45674-45688. | 4.2 | 53 |
| 80 | Robust SINR-Constrained Symbol-Level Multiuser Precoding With Imperfect Channel Knowledge. IEEE Transactions on Signal Processing, 2020, 68, 1837-1852. | 5.3 | 13 |
| 81 | A Tutorial on Interference Exploitation via Symbol-Level Precoding: Overview, State-of-the-Art and Future Directions. IEEE Communications Surveys and Tutorials, 2020, 22, 796-839. | 39.4 | 158 |
| 82 | Coarse Trajectory Design for Energy Minimization in UAV-Enabled. IEEE Transactions on Vehicular Technology, 2020, 69, 9483-9496. | 6.3 | 68 |
| 83 | Inexact Block Coordinate Descent Algorithms for Nonsmooth Nonconvex Optimization. IEEE Transactions on Signal Processing, 2020, 68, 947-961. | 5.3 | 39 |
| 84 | Fast Adaptive Reparametrization (FAR) With Application to Human Action Recognition. IEEE Signal Processing Letters, 2020, 27, 580-584. | 3.6 | 3 |
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| 86 | Random Access-Based Reliable Uplink Communication and Power Transfer Using Dynamic Power Splitting. IEEE Transactions on Wireless Communications, 2020, 19, 4307-4320. | 9.2 | 2 |
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| 92 | On the Successful Delivery Probability of Full-Duplex-Enabled Mobile Edge Caching. IEEE Communications Letters, 2019, 23, 1016-1020. | 4.1 | 4 |
| 93 | Cache-Aided Simultaneous Wireless Information and Power Transfer (SWIPT) With Relay Selection. IEEE Journal on Selected Areas in Communications, 2019, 37, 187-201. | 14.0 | 40 |
| 94 | Symbol-Level Precoding for Low Complexity Transmitter Architectures in Large-Scale Antenna Array Systems. IEEE Transactions on Wireless Communications, 2019, 18, 852-863. | 9.2 | 41 |
| 95 | Constructive Interference for Generic Constellations. IEEE Signal Processing Letters, 2018, 25, 586-590. | 3.6 | 38 |
| 96 | Symbol-Level Precoding for the Nonlinear Multiuser MISO Downlink Channel. IEEE Transactions on Signal Processing, 2018, 66, 1331-1345. | 5.3 | 51 |
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| 102 | Energy Minimization for Cache-Assisted Content Delivery Networks With Wireless Backhaul. IEEE Wireless Communications Letters, 2018, 7, 332-335. | 5.0 | 36 |
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| 104 | Deformation Based Curved Shape Representation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 1338-1351. | 13.9 | 31 |
| 105 | Symbol-Level Precoding Design Based on Distance Preserving Constructive Interference Regions. IEEE Transactions on Signal Processing, 2018, 66, 5817-5832. | 5.3 | 31 |
| 106 | Successive Convex Approximation Algorithms for Sparse Signal Estimation With Nonconvex Regularizations. IEEE Journal on Selected Topics in Signal Processing, 2018, 12, 1286-1302. | 10.8 | 22 |
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| 109 | Reduced complexity satellite broadcast receiver with interference mitigation in correlated noise. International Journal of Satellite Communications and Networking, 2018, 36, 402-415. | 1.8 | 2 |
| 110 | NOMA Aided Interference Management for Full-Duplex Self-Backhauling HetNets. IEEE Communications Letters, 2018, 22, 1696-1699. | 4.1 | 16 |
| 111 | Faster-Than-Nyquist Signaling Through Spatio-Temporal Symbol-Level Precoding for the Multiuser MISO Downlink Channel. IEEE Transactions on Wireless Communications, 2018, 17, 5915-5928. | 9.2 | 19 |
| 112 | Energy-Efficient and Secure Resource Allocation for Multiple-Antenna NOMA With Wireless Power Transfer. IEEE Transactions on Green Communications and Networking, 2018, 2, 1059-1071. | 5.5 | 46 |
| 113 | Energy-Efficient Multicell Multigroup Multicasting With Joint Beamforming and Antenna Selection. IEEE Transactions on Signal Processing, 2018, 66, 4904-4919. | 5.3 | 40 |
| 114 | Ergodic Capacity Analysis of AF DH MIMO Relay Systems With Residual Transceiver Hardware Impairments: Conventional and Large System Limits. IEEE Transactions on Vehicular Technology, 2017, 66, 7010-7025. | 6.3 | 23 |
| 115 | Interference Constraint Active Learning with Uncertain Feedback for Cognitive Radio Networks. IEEE Transactions on Wireless Communications, 2017, 16, 4654-4668. | 9.2 | 14 |
| 116 | Simultaneous Sensing and Transmission for Cognitive Radios With Imperfect Signal Cancellation. IEEE Transactions on Wireless Communications, 2017, 16, 5599-5615. | 9.2 | 19 |
| 117 | Special issue on â€œ<scp>C</scp>ognitive <scp>R</scp>adio and <scp>N</scp>etworks for <scp>S</scp>atellite and <scp>S</scp>pace <scp>C</scp>ommunicationsâ€• International Journal of Satellite Communications and Networking, 2017, 35, 377-378. | 1.8 | 0 |
| 118 | Symbol-Level Multiuser MISO Precoding for Multi-Level Adaptive Modulation. IEEE Transactions on Wireless Communications, 2017, 16, 5511-5524. | 9.2 | 69 |
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| 120 | On the Energy-Efficiency of Hybrid Analogâ€"Digital Transceivers for Single- and Multi-Carrier Large Antenna Array Systems. IEEE Journal on Selected Areas in Communications, 2017, 35, 1980-1995. | 14.0 | 73 |
| 121 | Per-Antenna Constant Envelope Precoding and Antenna Subset Selection: A Geometric Approach. IEEE Transactions on Signal Processing, 2016, 64, 6089-6104. | 5.3 | 27 |
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| 127 | Energy-Efficient Symbol-Level Precoding in Multiuser MISO Based on Relaxed Detection Region. IEEE Transactions on Wireless Communications, 2016, 15, 3755-3767. | 9.2 | 63 |
| 128 | Application of Compressive Sensing in Cognitive Radio Communications: A Survey. IEEE Communications Surveys and Tutorials, 2016, 18, 1838-1860. | 39.4 | 183 |
| 129 | Sensing-Throughput Tradeoff for Interweave Cognitive Radio System: A Deployment-Centric Viewpoint. IEEE Transactions on Wireless Communications, 2016, 15, 3690-3702. | 9.2 | 41 |
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| 146 | Information and Energy Cooperation in Cognitive Radio Networks. IEEE Transactions on Signal Processing, 2014, 62, 2290-2303. | 5.3 | 218 |
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