# Foad Sohrabi

List of Publications by Year
in descending order

| 23 papers | 2,118 citations | 759233<br>12<br>h-index | 996975<br>15<br>g-index |
|---|---|---|---|
| 23 all docs | 23 docs citations | 23 times ranked | 1700 citing authors |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 1 | Phase Transition Analysis for Covariance-Based Massive Random Access With Massive MIMO. IEEE Transactions on Information Theory, 2022, 68, 1696-1715. | 2.4 | 19 |
| 2 | Learning Progressive Distributed Compression Strategies From Local Channel State Information. IEEE Journal on Selected Topics in Signal Processing, 2022, 16, 573-584. | 10.8 | 4 |
| 3 | Active Sensing for Communications by Learning. IEEE Journal on Selected Areas in Communications, 2022, 40, 1780-1794. | 14.0 | 17 |
| 4 | Deep Learning for Channel Sensing and Hybrid Precoding in TDD Massive MIMO OFDM Systems. IEEE Transactions on Wireless Communications, 2022, 21, 10839-10853. | 9.2 | 11 |
| 5 | Sparse Activity Detection in Multi-Cell Massive MIMO Exploiting Channel Large-Scale Fading. IEEE Transactions on Signal Processing, 2021, 69, 3768-3781. | 5.3 | 22 |
| 6 | Deep Learning for Distributed Channel Feedback and Multiuser Precoding in FDD Massive MIMO. IEEE Transactions on Wireless Communications, 2021, 20, 4044-4057. | 9.2 | 81 |
| 7 | Deep Active Learning Approach to Adaptive Beamforming for mmWave Initial Alignment. IEEE Journal on Selected Areas in Communications, 2021, 39, 2347-2360. | 14.0 | 18 |
| 8 | Hybrid Analog and Digital Beamforming Design for Channel Estimation in Correlated Massive MIMO Systems. IEEE Transactions on Signal Processing, 2021, 69, 5784-5800. | 5.3 | 12 |
| 9 | Robust Symbol-Level Precoding Via Autoencoder-Based Deep Learning. , 2020, , . | | 24 |
| 10 | Deep Learning Approach to Channel Sensing and Hybrid Precoding for TDD Massive MIMO Systems. , 2020, , . | | 18 |
| 11 | Covariance Based Joint Activity and Data Detection for Massive Random Access with Massive MIMO. , 2019, , . | | 65 |
| 12 | Multi-Cell Sparse Activity Detection for Massive Random Access: Massive MIMO Versus Cooperative MIMO. IEEE Transactions on Wireless Communications, 2019, 18, 4060-4074. | 9.2 | 67 |
| 13 | One-Bit Precoding Constellation Design via Autoencoder-Based Deep Learning. , 2019, , . | | 14 |
| 14 | Generalized Approximate Message Passing for Massive MIMO mmWave Channel Estimation With Laplacian Prior. IEEE Transactions on Communications, 2019, 67, 3205-3219. | 7.8 | 48 |
| 15 | One-Bit Precoding and Constellation Range Design for Massive MIMO With QAM Signaling. IEEE Journal on Selected Topics in Signal Processing, 2018, 12, 557-570. | 10.8 | 62 |
| 16 | Sparse Activity Detection for Massive Connectivity. IEEE Transactions on Signal Processing, 2018, 66, 1890-1904. | 5.3 | 247 |
| 17 | Sparse Activity Detection for Massive Connectivity in Cellular Networks: Multi-Cell Cooperation Vs Large-Scale Antenna Arrays. , 2018, , . | | 8 |
| 18 | Massive MIMO mmWave Channel Estimation Using Approximate Message Passing and Laplacian Prior. , 2018, , . | | 4 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 19 | Hybrid Analog and Digital Beamforming for mmWave OFDM Large-Scale Antenna Arrays. IEEE Journal on Selected Areas in Communications, 2017, 35, 1432-1443. | 14.0 | 309 |
| 20 | Hybrid analog and digital beamforming for OFDM-based large-scale MIMO systems. , 2016, , . | | 20 |
| 21 | Hybrid Digital and Analog Beamforming Design for Large-Scale Antenna Arrays. IEEE Journal on Selected Topics in Signal Processing, 2016, 10, 501-513. | 10.8 | 970 |
| 22 | Coordinate Update Algorithms for Robust Power Loading for the MU-MISO Downlink With Outage Constraints. IEEE Transactions on Signal Processing, 2016, 64, 2761-2773. | 5.3 | 14 |
| 23 | Hybrid beamforming with finite-resolution phase shifters for large-scale MIMO systems. , 2015, , . | | 64 |