# Siliang Wu

List of Publications by Year
in descending order



| 63 | 1,088 | 567281 15 | 434195 31 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 63 | 63 | 63 | 725 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Extension of Co-Prime Arrays Based on the Fourth-Order Difference Co-Array Concept. IEEE Signal Processing Letters, 2016, 23, 615-619. | 3.6 | 142 |
| 2 | Underdetermined DOA Estimation Under the Compressive Sensing Framework: A Review. IEEE Access, 2016, 4, 8865-8878. | 4.2 | 139 |
| 3 | Low-Complexity Direction-of-Arrival Estimation Based on Wideband Co-Prime Arrays. IEEE/ACM Transactions on Audio Speech and Language Processing, 2015, 23, 1445-1456. | 5.8 | 127 |
| 4 | Underdetermined wideband DOA estimation of off-grid sources employing the difference co-array concept. Signal Processing, 2017, 130, 299-304. | 3.7 | 113 |
| 5 | Simplified and Enhanced Multiple Level Nested Arrays Exploiting High-Order Difference Co-Arrays. IEEE Transactions on Signal Processing, 2019, 67, 3502-3515. | 5.3 | 52 |
| 6 | Joint Transmission and Reception Diversity Smoothing for Direction Finding of Coherent Targets in MIMO Radar. IEEE Journal on Selected Topics in Signal Processing, 2014, 8, 115-124. | 10.8 | 47 |
| 7 | Focused Compressive Sensing for Underdetermined Wideband DOA Estimation Exploiting High-Order Difference Coarrays. IEEE Signal Processing Letters, 2017, 24, 86-90. | 3.6 | 35 |
| 8 | On the Spectral-Energy Efficiency and Rate Fairness Tradeoff in Relay-Aided Cooperative OFDMA Systems. IEEE Transactions on Wireless Communications, 2016, 15, 6342-6355. | 9.2 | 34 |
| 9 | Low Complexity DOA Estimation for Wideband Off-Grid Sources Based on Re-Focused Compressive Sensing With Dynamic Dictionary. IEEE Journal on Selected Topics in Signal Processing, 2019, 13, 918-930. | 10.8 | 29 |
| 10 | Computationally efficient 2-D DOA estimation for uniform rectangular arrays. Multidimensional Systems and Signal Processing, 2014, 25, 847-857. | 2.6 | 27 |
| 11 | Extension of nested arrays with the fourth-order difference co-array enhancement. , 2016, , . | | 26 |
| 12 | A Review of Closed-Form CramÃ©r-Rao Bounds for DOA Estimation in the Presence of Gaussian Noise Under a Unified Framework. IEEE Access, 2020, 8, 175101-175124. | 4.2 | 24 |
| 13 | GNSS Jamming Mitigation Using Adaptive-Partitioned Subspace Projection Technique. IEEE Transactions on Aerospace and Electronic Systems, 2019, 55, 343-355. | 4.7 | 23 |
| 14 | Multilocation Human Activity Recognition via MIMO-OFDM-Based Wireless Networks: An IoT-Inspired Device-Free Sensing Approach. IEEE Internet of Things Journal, 2021, 8, 15148-15159. | 8.7 | 22 |
| 15 | Energy- and Spectral-Efficiency Tradeoff with <inline-formula> <tex-math notation="LaTeX">$alpha$</tex-math></inline-formula>-Fairness in Downlink OFDMA Systems. IEEE Communications Letters, 2015, 19, 1265-1268. | 4.1 | 20 |
| 16 | Ambiguity Function Analysis of Random Frequency and PRI Agile Signals. IEEE Transactions on Aerospace and Electronic Systems, 2021, 57, 382-396. | 4.7 | 18 |
| 17 | Group sparsity based wideband DOA estimation for co-prime arrays. , 2014, , . | | 16 |
| 18 | A Second-Order Purely VCO-Based CT $DeltaSigma$ ADC Using a Modified DPLL Structure in 40-nm CMOS. IEEE Journal of Solid-State Circuits, 2020, 55, 356-368. | 5.4 | 15 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Low-complexity compressive sensing based DOA estimation for co-prime arrays. , 2014, , . | | 14 |
| 20 | Improved Characterization of GNSS Jammers Using Short-Term Time-Frequency RÃ©nyi Entropy. IEEE Transactions on Aerospace and Electronic Systems, 2018, 54, 1918-1930. | 4.7 | 13 |
| 21 | Fast Sidelobe Suppression Based on Two-Dimensional Joint Iterative Adaptive Filtering. IEEE Transactions on Aerospace and Electronic Systems, 2021, 57, 3463-3478. | 4.7 | 12 |
| 22 | Adaptive multipleâ€input multipleâ€output radar beamforming based on direct data domain approach. IET Radar, Sonar and Navigation, 2014, 8, 632-638. | 1.8 | 11 |
| 23 | Saturation Throughput Analysis of an Asymmetric Full-Duplex MAC Protocol in WLANs With Hidden Terminals. IEEE Access, 2018, 6, 69948-69960. | 4.2 | 11 |
| 24 | A Novel Parameter Estimation for Polynomial Phase Signals Using the Spectrum Phase. IEEE Signal Processing Letters, 2020, 27, 1919-1923. | 3.6 | 9 |
| 25 | CramÃ©r-Rao Bound Analysis of Underdetermined Wideband DOA Estimation Under the Subband Model via Frequency Decomposition. IEEE Transactions on Signal Processing, 2021, 69, 4132-4148. | 5.3 | 9 |
| 26 | Wideband DOA estimation for uniform linear arrays based on the co-array concept. , 2015, , . | | 8 |
| 27 | Efficient weak manoeuvring target detection method for DSSS signal. Electronics Letters, 2014, 50, 1740-1741. | 1.0 | 7 |
| 28 | DOA estimation of coherent targets in MIMO radar. , 2013, , . | | 6 |
| 29 | Robust minimum variance multipleâ€input multipleâ€output radar beamformer. IET Signal Processing, 2013, 7, 854-862. | 1.5 | 6 |
| 30 | A New Coherent Integration Method for Frequency Jittering Radar. Chinese Journal of Electronics, 2017, 26, 1008-1016. | 1.5 | 6 |
| 31 | Principle and key technology of generalized high precision simulation of TT&C channel. Journal of Systems Engineering and Electronics, 2013, 24, 318-323. | 2.2 | 5 |
| 32 | Multipath effects on vector tracking algorithm for GNSS signal. Science China Information Sciences, 2014, 57, 1-13. | 4.3 | 5 |
| 33 | Three-Dimensional ISAR Imaging Method for High-Speed Targets in Short-Range Using Impulse Radar Based on SIMO Array. Sensors, 2016, 16, 364. | 3.8 | 5 |
| 34 | Differential evolution for target motion parameter estimation. , 2003, , . | | 4 |
| 35 | Attitude aided space-time multi-beamformer anti-jamming approach for satellite navigation receiver. , 2014, , . | | 4 |
| 36 | ISAR imaging of high-speed moving targets in short-range using impulse radar. Journal of Systems Engineering and Electronics, 2015, 26, 964-972. | 2.2 | 4 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Performance Comparison of Code Discriminators in the Presence of CW Interference. Wireless Personal Communications, 2016, 89, 405-426. | 2.7 | 4 |
| 38 | Design of a high fidelity GLONASS signal simulator. , 2010, , . | | 3 |
| 39 | Modified Adaptive Pulse Compression Algorithm for Targets With Range-Straddling. IEEE Transactions on Aerospace and Electronic Systems, 2021, 57, 3057-3070. | 4.7 | 3 |
| 40 | Modified Iterative Adaptive Approach Based on Range-Doppler Matched Filter Outputs. , 2020, , . | | 3 |
| 41 | Low-Complexity Iterative Adaptive Approach Based on Rangeâ€“Doppler Matched Filter Outputs. IEEE Transactions on Aerospace and Electronic Systems, 2023, 59, 125-139. | 4.7 | 3 |
| 42 | Vector Miss Distance Measurement Based on Range-only Target Tracking. , 2006, , . | | 2 |
| 43 | A segmentation motion compensation-based longterm integration method for DSSS signal. , 2012, , . | | 2 |
| 44 | A tracking loop based on tightly coupled range and velocity filter equations. Science China Information Sciences, 2012, 55, 898-910. | 4.3 | 2 |
| 45 | Acquisition algorithm assisted by AGC control voltage for DSSS signals. Science China Technological Sciences, 2015, 58, 2195-2206. | 4.0 | 2 |
| 46 | A modified code tracking loop based on dual structure. Science China Information Sciences, 2015, 58, 1-10. | 4.3 | 2 |
| 47 | CW interference mitigation in GNSS receiver based on frequency-locked loop. Science China Information Sciences, 2016, 59, 1. | 4.3 | 2 |
| 48 | Whole-Region Hybrid Search Algorithm for DSSS Signal Acquisition. Wireless Personal Communications, 2017, 95, 1265-1284. | 2.7 | 2 |
| 49 | Novel parameter estimation of high-order polynomial phase signals using group delay. Signal Processing, 2021, 183, 108011. | 3.7 | 2 |
| 50 | Direct Acquisition Method of GPS P Code and its Parameter Optimization. , 2010, , . | | 1 |
| 51 | A novel joint navigation state error discriminator based on iterative maximum likelihood estimation. Science China Information Sciences, 2015, 58, 1-14. | 4.3 | 1 |
| 52 | Efficient estimation method for targets with arbitrary parameterised motion. Electronics Letters, 2016, 52, 148-150. | 1.0 | 1 |
| 53 | High-dynamics pulse-shaped signal simulation based on polynomial-based interpolation filters. Science China Information Sciences, 2017, 60, 1. | 4.3 | 1 |
| 54 | A New Adaptive Subsample ETDE for Largeâ€Range Timeâ€Varying Delay Estimation Using Lowâ€Order Interpolators. Chinese Journal of Electronics, 2017, 26, 871-875. | 1.5 | 1 |

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|---|---|---|---|
| 55 | Parameter Estimation for Sinusoidal Frequency-Modulated Signals Using Phase Modulation. IEEE Signal Processing Letters, 2021, 28, 76-80. | 3.6 | 1 |
| 56 | On the CramÃ©r-Rao Bound and the Number of Resolvable Sources in the Presence of Nonuniform Noise for Underdetermined DOA Estimation. , 2020, , . | | 1 |
| 57 | Parameter estimation for chirp signals using the spectrum phase. IET Radar, Sonar and Navigation, 2020, 14, 2039-2044. | 1.8 | 1 |
| 58 | Time-varying AR modeling and adaptive IIR notch filter for anti-jamming DSSS receiver. Journal of Electronics, 2010, 27, 465-473. | 0.2 | 0 |
| 59 | Research on Real-time Implementation of Spaceborn Viterbi Decoder. , 2012, , . | | 0 |
| 60 | Multi-targets miss distance measurement using sequential range-Doppler image. , 2012, , . | | 0 |
| 61 | Signal Delay Reconstruction Method Based on Dynamic Index and Complexâ€Coeï¬ƒcient Lagrange Interpolation. Chinese Journal of Electronics, 2015, 24, 750-754. | 1.5 | 0 |
| 62 | A Novel Delay- and Utility-Oriented Resource Allocation Algorithm for Mixed Services in OFDMA Systems. Wireless Personal Communications, 2015, 83, 825-839. | 2.7 | 0 |
| 63 | A Novel Parameter Estimation Method for Maneuvering Target Based on DCFâ€RFRFT. Chinese Journal of Electronics, 2017, 26, 1315-1318. | 1.5 | 0 |