# Zhi-Chao Zhang

List of Publications by Year
in descending order



| 39 | 544 | 759233 12 | 713466 21 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 40 | 40 | 40 | 97 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | The optimal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si8.svg"><mml:mi>k</mml:mi></mml:math>-Wigner distribution. Signal Processing, 2022, 199, 108608. | 3.7 | 6 |
| 2 | A Computationally Efficient Optimal Wigner Distribution in LCT Domains for Detecting Noisy LFM Signals. Mathematical Problems in Engineering, 2022, 2022, 1-11. | 1.1 | 2 |
| 3 | Linear Canonical Wigner Distribution of Noisy LFM Signals via Multiobjective Optimization Analysis Involving Variance-SNR. IEEE Communications Letters, 2021, 25, 546-550. | 4.1 | 11 |
| 4 | Sharper $N$-D Heisenberg's Uncertainty Principle. IEEE Signal Processing Letters, 2021, 28, 1665-1669. | 3.6 | 11 |
| 5 | Scaled Wigner distribution using fractional instantaneous autocorrelation. Optik, 2021, 237, 166691. | 2.9 | 14 |
| 6 | Sampling theorems for bandlimited functions in the two-dimensional LCT and the LCHT domains. , 2021, 114, 103053. | | 3 |
| 7 | Linear canonical Wigner distribution of noisy LFM signals via variance-SNR based inequalities system analysis. Optik, 2021, 237, 166712. | 2.9 | 10 |
| 8 | Uncertainty Principle of Complex-Valued Functions in Specific Free Metaplectic Transformation Domains. Journal of Fourier Analysis and Applications, 2021, 27, 1. | 1.0 | 12 |
| 9 | Azimuthal jittered sampling of bandlimited functions in the two-dimensional Fourier transform and the Hankel transform domains. Optik, 2021, 242, 167240. | 2.9 | 0 |
| 10 | Heisenbergâ€™s uncertainty principle for <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e71" altimg="si4.svg"><mml:mi>N</mml:mi></mml:math>-dimensional fractional Fourier transform of complex-valued functions. Optik, 2021, 242, 167052. | 2.9 | 4 |
| 11 | Instantaneous cross-correlation function type of WD based LFM signals analysis via output SNR inequality modeling. Eurasip Journal on Advances in Signal Processing, 2021, 2021, . | 1.7 | 4 |
| 12 | Choiâ€“Williams distribution in linear canonical domains and its application in noisy LFM signals detection. Communications in Nonlinear Science and Numerical Simulation, 2020, 82, 105025. | 3.3 | 16 |
| 13 | Nonuniform reconstruction of periodic bandlimited signals without sampling pointsâ€™ number restriction. Optik, 2020, 207, 163798. | 2.9 | 1 |
| 14 | Generalized Balianâ€“Low Theorem Associated with the Linear Canonical Transform. Results in Mathematics, 2020, 75, 1. | 0.8 | 3 |
| 15 | Jittered Sampling in Linear Canonical Domain. IEEE Communications Letters, 2020, 24, 1529-1533. | 4.1 | 7 |
| 16 | Variance analysis of noisy LFM signal in linear canonical Cohen's class. Optik, 2020, 216, 164610. | 2.9 | 4 |
| 17 | Sharper uncertainty principles associated with L p â€norm. Mathematical Methods in the Applied Sciences, 2020, 43, 6663-6676. | 2.3 | 1 |
| 18 | Variance analysis of linear canonical Wigner distribution. Optik, 2020, 212, 164633. | 2.9 | 8 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Convolution Theorems for Two-Dimensional LCT of Angularly Periodic Functions in Polar Coordinates. IEEE Signal Processing Letters, 2019, 26, 1242-1246. | 3.6 | 13 |
| 20 | The Optimal Linear Canonical Wigner Distribution of Noisy Linear Frequency-Modulated Signals. IEEE Signal Processing Letters, 2019, 26, 1127-1131. | 3.6 | 22 |
| 21 | Linear Canonical Wigner Distribution Based Noisy LFM Signals Detection Through the Output SNR Improvement Analysis. IEEE Transactions on Signal Processing, 2019, 67, 5527-5542. | 5.3 | 32 |
| 22 | Uncertainty Principle for Real Functions in Free Metaplectic Transformation Domains. Journal of Fourier Analysis and Applications, 2019, 25, 2899-2922. | 1.0 | 29 |
| 23 | Linear canonical transform's differentiation properties and their application in solving generalized differential equations. Optik, 2019, 188, 287-293. | 2.9 | 10 |
| 24 | Uncertainty principle for linear canonical transform using matrix decomposition of absolute spread matrix. , 2019, 89, 145-154. | | 20 |
| 25 | Wigner distribution in linear canonical domains: properties and discretization. , 2019, , . | | 0 |
| 26 | Cohen's class time-frequency representation in linear canonical domains: definition and properties. , 2019, , . | | 0 |
| 27 | Algebraic representation for fractional Fourier transform on oneâ€dimensional discrete signal models. IET Signal Processing, 2018, 12, 143-148. | 1.5 | 6 |
| 28 | Estimating instantaneous frequency based on phase derivative and linear canonical transform with optimised computational speed. IET Signal Processing, 2018, 12, 574-580. | 1.5 | 9 |
| 29 | Tighter uncertainty principles for linear canonical transform in terms of matrix decomposition. , 2017, 69, 70-85. | | 21 |
| 30 | A sampling theorem of chirp periodic and non-bandlimited signals from finite set of samples associated with the fractional Fourier transform. Optik, 2017, 129, 212-216. | 2.9 | 2 |
| 31 | Multichannel sampling expansions in the linear canonical transform domain associated with explicit system functions and finite samples. IET Signal Processing, 2017, 11, 814-824. | 1.5 | 13 |
| 32 | Novel Wigner distribution and ambiguity function associated with the linear canonical transform. Optik, 2016, 127, 4995-5012. | 2.9 | 19 |
| 33 | An approximating interpolation formula for bandlimited signals in the linear canonical transform domain associated with finite nonuniformly spaced samples. Optik, 2016, 127, 6927-6932. | 2.9 | 4 |
| 34 | New convolution and product theorem for the linear canonical transform and its applications. Optik, 2016, 127, 4894-4902. | 2.9 | 19 |
| 35 | New convolution structure for the linear canonical transform and its application in filter design. Optik, 2016, 127, 5259-5263. | 2.9 | 17 |
| 36 | New Wigner distribution and ambiguity function based on the generalized translation in the linear canonical transform domain. Signal Processing, 2016, 118, 51-61. | 3.7 | 58 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Sampling theorem for the short-time linear canonical transform and its applications. Signal Processing, 2015, 113, 138-146. | 3.7 | 29 |
| 38 | Unified Wignerâ€“Ville distribution and ambiguity function in the linear canonical transform domain. Signal Processing, 2015, 114, 45-60. | 3.7 | 63 |
| 39 | New Integral Transforms for Generalizing the Wigner Distribution and Ambiguity Function. IEEE Signal Processing Letters, 2015, 22, 460-464. | 3.6 | 41 |