

Zhi-Chao Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

544
citations

759233

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713466

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40
all docs

40
docs citations

40
times ranked

97
citing authors

#	ARTICLE	IF	CITATIONS
1	Unified Wigner-Ville distribution and ambiguity function in the linear canonical transform domain. Signal Processing, 2015, 114, 45-60.	3.7	63
2	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
3	New Integral Transforms for Generalizing the Wigner Distribution and Ambiguity Function. IEEE Signal Processing Letters, 2015, 22, 460-464.	3.6	41
4	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
5	Sampling theorem for the short-time linear canonical transform and its applications. Signal Processing, 2015, 113, 138-146.	3.7	29
6	Uncertainty Principle for Real Functions in Free Metaplectic Transformation Domains. Journal of Fourier Analysis and Applications, 2019, 25, 2899-2922.	1.0	29
7	The Optimal Linear Canonical Wigner Distribution of Noisy Linear Frequency-Modulated Signals. IEEE Signal Processing Letters, 2019, 26, 1127-1131.	3.6	22
8	Tighter uncertainty principles for linear canonical transform in terms of matrix decomposition. , 2017, 69, 70-85.		21
9	Uncertainty principle for linear canonical transform using matrix decomposition of absolute spread matrix. , 2019, 89, 145-154.		20
10	Novel Wigner distribution and ambiguity function associated with the linear canonical transform. Optik, 2016, 127, 4995-5012.	2.9	19
11	New convolution and product theorem for the linear canonical transform and its applications. Optik, 2016, 127, 4894-4902.	2.9	19
12	New convolution structure for the linear canonical transform and its application in filter design. Optik, 2016, 127, 5259-5263.	2.9	17
13	Choi's 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
14	Scaled Wigner distribution using fractional instantaneous autocorrelation. Optik, 2021, 237, 166691.	2.9	14
15	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
16	Convolution Theorems for Two-Dimensional LCT of Angularly Periodic Functions in Polar Coordinates. IEEE Signal Processing Letters, 2019, 26, 1242-1246.	3.6	13
17	Uncertainty Principle of Complex-Valued Functions in Specific Free Metaplectic Transformation Domains. Journal of Fourier Analysis and Applications, 2021, 27, 1.	1.0	12
18	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

#	ARTICLE	IF	CITATIONS
19	Sharper Heisenberg's Uncertainty Principle. IEEE Signal Processing Letters, 2021, 28, 1665-1669.	3.6	11
20	Linear canonical transform's differentiation properties and their application in solving generalized differential equations. Optik, 2019, 188, 287-293.	2.9	10
21	Linear canonical Wigner distribution of noisy LFM signals via variance-SNR based inequalities system analysis. Optik, 2021, 237, 166712.	2.9	10
22	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
23	Variance analysis of linear canonical Wigner distribution. Optik, 2020, 212, 164633.	2.9	8
24	Jittered Sampling in Linear Canonical Domain. IEEE Communications Letters, 2020, 24, 1529-1533.	4.1	7
25	Algebraic representation for fractional Fourier transform on one-dimensional discrete signal models. IET Signal Processing, 2018, 12, 143-148.	1.5	6
26	The optimal k -Wigner distribution. Signal Processing, 2022, 199, 108608.	3.7	6
27	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
28	Variance analysis of noisy LFM signal in linear canonical Cohen's class. Optik, 2020, 216, 164610.	2.9	4
29	Heisenberg's uncertainty principle for N -dimensional fractional Fourier transform of complex-valued functions. Optik, 2021, 242, 167052.	2.9	4
30	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
31	Generalized Balian-Low Theorem Associated with the Linear Canonical Transform. Results in Mathematics, 2020, 75, 1.	0.8	3
32	Sampling theorems for bandlimited functions in the two-dimensional LCT and the LCHT domains. , 2021, 114, 103053.		3
33	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
34	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
35	Nonuniform reconstruction of periodic bandlimited signals without sampling points number restriction. Optik, 2020, 207, 163798.	2.9	1
36	Sharper uncertainty principles associated with L_p norm. Mathematical Methods in the Applied Sciences, 2020, 43, 6663-6676.	2.3	1

#	ARTICLE	IF	CITATIONS
37	Wigner distribution in linear canonical domains: properties and discretization. , 2019, , .		0
38	Cohen's class time-frequency representation in linear canonical domains: definition and properties. , 2019, , .		0
39	Azimuthal jittered sampling of bandlimited functions in the two-dimensional Fourier transform and the Hankel transform domains. Optik, 2021, 242, 167240.	2.9	0