

JosÃ© Luis Romero

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

456
citations

759233

12
h-index

752698

20
g-index

40
all docs

40
docs citations

40
times ranked

204
citing authors

#	ARTICLE	IF	CITATIONS
1	On accumulated spectrograms. Transactions of the American Mathematical Society, 2015, 368, 3629-3649.	0.9	47
2	Approximate reconstruction of bandlimited functions for the integrate and fire sampler. Advances in Computational Mathematics, 2012, 36, 67-78.	1.6	46
3	Sampling theorems for shift-invariant spaces, Gabor frames, and totally positive functions. Inventiones Mathematicae, 2018, 211, 1119-1148.	2.5	43
4	Deformation of Gabor systems. Advances in Mathematics, 2015, 277, 388-425.	1.1	35
5	Density of sampling and interpolation in reproducing kernel Hilbert spaces. Journal of the London Mathematical Society, 2017, 96, 663-686.	1.0	30
6	Surgery of Spline-type and Molecular Frames. Journal of Fourier Analysis and Applications, 2011, 17, 135-174.	1.0	23
7	On minimal trajectories for mobile sampling of bandlimited fields. Applied and Computational Harmonic Analysis, 2015, 39, 487-510.	2.2	23
8	Characterization of coorbit spaces with phase-space covers. Journal of Functional Analysis, 2012, 262, 59-93.	1.4	18
9	Frames Adapted to a Phase-Space Cover. Constructive Approximation, 2014, 39, 445-484.	3.0	17
10	MSE Estimates for Multitaper Spectral Estimation and Off-Grid Compressive Sensing. IEEE Transactions on Information Theory, 2017, 63, 7770-7776.	2.4	17
11	Sharp Results on Sampling with Derivatives in Shift-Invariant Spaces and Multi-Window Gabor Frames. Constructive Approximation, 2020, 51, 1-25.	3.0	14
12	Multi-window Gabor frames in amalgam spaces. Mathematical Research Letters, 2014, 21, 55-69.	0.5	13
13	Sharp rates of convergence for accumulated spectrograms. Inverse Problems, 2017, 33, 115008.	2.0	12
14	PERTURBATION TECHNIQUES IN IRREGULAR SPLINE-TYPE SPACES. International Journal of Wavelets, Multiresolution and Information Processing, 2008, 06, 249-277.	1.3	11
15	Harmonic Analysis in Phase Space and Finite Weyl-Heisenberg Ensembles. Journal of Statistical Physics, 2019, 174, 1104-1136.	1.2	11
16	Non-uniform painless decompositions for anisotropic Besov and Triebel-Lizorkin spaces. Advances in Mathematics, 2013, 232, 98-120.	1.1	9
17	Sampling the Flow of a Bandlimited Function. Journal of Geometric Analysis, 2021, 31, 9241-9275.	1.0	9
18	Stability of Gabor Frames Under Small Time Hamiltonian Evolutions. Letters in Mathematical Physics, 2016, 106, 799-809.	1.1	8

#	ARTICLE	IF	CITATIONS
19	Completeness of Gabor systems. <i>Journal of Approximation Theory</i> , 2016, 207, 283-300.	0.8	8
20	Strict density inequalities for sampling and interpolation in weighted spaces of holomorphic functions. <i>Journal of Functional Analysis</i> , 2019, 277, 108282.	1.4	8
21	Balianâ€“Low Type Theorems on Homogeneous Groups. <i>Analysis Mathematica</i> , 2020, 46, 483-515.	0.5	7
22	Sign Retrieval in Shift-Invariant Spaces with Totally Positive Generator. <i>Journal of Fourier Analysis and Applications</i> , 2021, 27, 1.	1.0	6
23	On dual molecules and convolution-dominated operators. <i>Journal of Functional Analysis</i> , 2021, 280, 108963.	1.4	6
24	The density theorem for discrete series representations restricted to lattices. , 2022, 40, 265-301.		6
25	Computing reconstructions from nonuniform Fourier samples: Universality of stability barriers and stable sampling rates. <i>Applied and Computational Harmonic Analysis</i> , 2019, 46, 226-249.	2.2	4
26	The Nyquist sampling rate for spiraling curves. <i>Applied and Computational Harmonic Analysis</i> , 2021, 52, 198-230.	2.2	4
27	Explicit Localization Estimates for Spline-Type Spaces. <i>Sampling Theory in Signal and Information Processing</i> , 2009, 8, 249-259.	0.2	4
28	Exact and Approximate Expansions with Pure Gaussian Wave Packets. <i>SIAM Journal on Mathematical Analysis</i> , 2014, 46, 2229-2253.	1.9	3
29	Multiple Sampling and Interpolation in Weighted Fock Spaces of Entire Functions. <i>Complex Analysis and Operator Theory</i> , 2021, 15, 35.	0.6	3
30	Zeros of Gaussian Weylâ€“Heisenberg Functions and Hyperuniformity of Charge. <i>Journal of Statistical Physics</i> , 2022, 187, 22.	1.2	3
31	Multitaper spectral estimation and off-grid compressive sensing: MSE estimates. , 2017, , .		2
32	Filtering the Continuous Wavelet Transform Using Hyperbolic Triangulations. , 2019, , .		2
33	Multitaper Estimation on Arbitrary Domains. <i>SIAM Journal on Imaging Sciences</i> , 2020, 13, 1565-1594.	2.2	2
34	Invertibility of Frame Operators on Besov-Type Decomposition Spaces. <i>Journal of Geometric Analysis</i> , 2022, 32, 1.	1.0	2
35	Mobile sampling of bandlimited fields. , 2015, , .		0
36	Sharp sampling theorems in shift-invariant spaces. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
37	The Weyl-Heisenberg ensemble: Statistical mechanics meets time-frequency analysis. , 2017, , .		0
38	Sampling over spiraling curves. , 2019, , .		0
39	A multi-scale Gaussian beam parametrix for the wave equation: The Dirichlet boundary value problem. Journal of Differential Equations, 2022, 309, 949-993.	2.2	0
40	Spectral-norm risk rates for multi-taper estimation of Gaussian processes. Journal of Nonparametric Statistics, 2022, 34, 448-464.	0.9	0