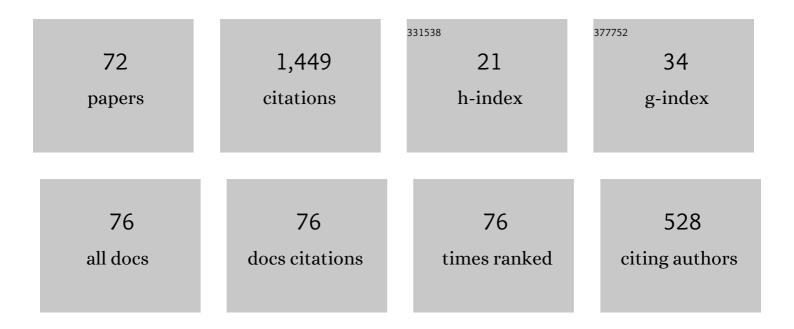
List of Publications by Year in descending order

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DETED RALAZO

| # | Article | IF | CITATIONS |
|----|--|-----------|-----------|
| 1 | Basic definition and properties of Bessel multipliers. Journal of Mathematical Analysis and Applications, 2007, 325, 571-585. | 0.5 | 92 |
| 2 | Theory, implementation and applications of nonstationary Gabor frames. Journal of Computational and Applied Mathematics, 2011, 236, 1481-1496. | 1.1 | 90 |
| 3 | A fast Griffin-Lim algorithm. , 2013, , . | | 80 |
| 4 | THE LINEAR TIME FREQUENCY ANALYSIS TOOLBOX. International Journal of Wavelets, Multiresolution and Information Processing, 2012, 10, 1250032. | 0.9 | 75 |
| 5 | WEIGHTED AND CONTROLLED FRAMES: MUTUAL RELATIONSHIP AND FIRST NUMERICAL PROPERTIES. International Journal of Wavelets, Multiresolution and Information Processing, 2010, 08, 109-132. | 0.9 | 62 |
| 6 | Time–Frequency Sparsity by Removing Perceptually Irrelevant Components Using a Simple Model of Simultaneous Masking. IEEE Transactions on Audio Speech and Language Processing, 2010, 18, 34-49. | 3.8 | 57 |
| 7 | HILBERT–SCHMIDT OPERATORS AND FRAMES — CLASSIFICATION, BEST APPROXIMATION BY MULTIPLIERS A ALGORITHMS. International Journal of Wavelets, Multiresolution and Information Processing, 2008, 06, 315-330. | ND 0.9 | 52 |
| 8 | Multipliers for continuous frames in Hilbert spaces. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 244023. | 0.7 | 52 |
| 9 | The Large Time-Frequency Analysis Toolbox 2.0. Lecture Notes in Computer Science, 2014, , 419-442. | 1.0 | 51 |
| 10 | Invertibility of multipliers. Applied and Computational Harmonic Analysis, 2012, 33, 292-299. | 1.1 | 46 |
| 11 | A Noniterative Method for Reconstruction of Phase From STFT Magnitude. IEEE/ACM Transactions on Audio Speech and Language Processing, 2017, 25, 1154-1164. | 4.0 | 45 |
| 12 | Double Preconditioning for Gabor Frames. IEEE Transactions on Signal Processing, 2006, 54, 4597-4610. | 3.2 | 39 |
| 13 | The pole behavior of the phase derivative of the short-time Fourier transform. Applied and Computational Harmonic Analysis, 2016, 40, 610-621. | 1.1 | 39 |
| 14 | Sex-dependent modulation of ultrasonic vocalizations in house mice (Mus musculus musculus). PLoS ONE, 2017, 12, e0188647. | 1.1 | 39 |
| 15 | Adapted and Adaptive Linear Time-Frequency Representations: A Synthesis Point of View. IEEE Signal Processing Magazine, 2013, 30, 20-31. | 4.6 | 32 |
| 16 | Discrete coherent states for higher Landau levels. Annals of Physics, 2015, 363, 337-353. | 1.0 | 32 |
| 17 | Canonical forms of unconditionally convergent multipliers. Journal of Mathematical Analysis and Applications, 2013, 399, 252-259. | 0.5 | 31 |
| 18 | Representation of the inverse of a frame multiplier. Journal of Mathematical Analysis and Applications, 2015, 422, 981-994. | 0.5 | 31 |

| # | Article | IF | CITATIONS |
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| 19 | Frames and semi-frames. Journal of Physics A: Mathematical and Theoretical, 2011, 44, 205201. | 0.7 | 29 |
| 20 | The ERBlet transform: An auditory-based time-frequency representation with perfect reconstruction. , 2013, , . | | 27 |
| 21 | Matrix Representation of Operators Using Frames. Sampling Theory in Signal and Information Processing, 2008, 7, 39-54. | 0.2 | 26 |
| 22 | Reproducing pairs and the continuous nonstationary Gabor transform on LCA groups. Journal of Physics A: Mathematical and Theoretical, 2015, 48, 395201. | 0.7 | 24 |
| 23 | Automatic mouse ultrasound detector (A-MUD): A new tool for processing rodent vocalizations. PLoS ONE, 2017, 12, e0181200. | 1.1 | 24 |
| 24 | Inpainting of Long Audio Segments With Similarity Graphs. IEEE/ACM Transactions on Audio Speech and Language Processing, 2018, 26, 1083-1094. | 4.0 | 23 |
| 25 | Frames, Semi-Frames, and Hilbert Scales. Numerical Functional Analysis and Optimization, 2012, 33, 736-769. | 0.6 | 22 |
| 26 | A 2.5D-Fourier-BEM model for vibrations in a tunnel running through layered anisotropic soil. Engineering Analysis With Boundary Elements, 2012, 36, 960-967. | 2.0 | 21 |
| 27 | Audlet Filter Banks: A Versatile Analysis/Synthesis Framework Using Auditory Frequency Scales. Applied Sciences (Switzerland), 2018, 8, 96. | 1.3 | 21 |
| 28 | Classification of General Sequences by Frame-Related Operators. Sampling Theory in Signal and Information Processing, 2011, 10, 151-170. | 0.2 | 21 |
| 29 | Multipliers for p-Bessel Sequences in Banach Spaces. Integral Equations and Operator Theory, 2010, 68, 193-205. | 0.4 | 17 |
| 30 | On Pole-Zero Model Estimation Methods Minimizing a Logarithmic Criterion for Speech Analysis. IEEE Transactions on Audio Speech and Language Processing, 2010, 18, 237-248. | 3.8 | 17 |
| 31 | A time-frequency method for increasing the signal-to-noise ratio in system identification with exponential sweeps. , 2011, , . | | 17 |
| 32 | Designing Gabor windows using convex optimization. Applied Mathematics and Computation, 2018, 330, 266-287. | 1.4 | 15 |
| 33 | Additivity of nonsimultaneous masking for short Gaussian-shaped sinusoids. Journal of the Acoustical Society of America, 2011, 129, 888-897. | 0.5 | 13 |
| 34 | Detailed Characterization of Conditions for the Unconditional Convergence and Invertibility of Multipliers. Sampling Theory in Signal and Information Processing, 2013, 12, 87-125. | 0.2 | 13 |
| 35 | Frame Theory for Signal Processing in Psychoacoustics. Applied and Numerical Harmonic Analysis, 2017, , 225-268. | 0.1 | 12 |
| 36 | SEDENOSS: SEparating and DENOising Seismic Signals With Dualâ€Path Recurrent Neural Network Architecture. Journal of Geophysical Research: Solid Earth, 2022, 127, . | 1.4 | 12 |

| # | Article | IF | CITATIONS |
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| 37 | Perceptual matching pursuit with Gabor dictionaries and time-frequency masking. , 2014, , . | | 10 |
| 38 | Kernel theorems in coorbit theory. Transactions of the American Mathematical Society Series B, 2019, 6, 346-364. | 0.6 | 10 |
| 39 | Primed to vocalize: Wild-derived male house mice increase vocalization rate and diversity after a previous encounter with a female. PLoS ONE, 2020, 15, e0242959. | 1.1 | 10 |
| 40 | On the Dual Frame Induced by an Invertible Frame Multiplier. Sampling Theory in Signal and Information Processing, 2016, 15, 119-130. | 0.2 | 9 |
| 41 | Reproducing pairs and Gabor systems at critical density. Journal of Mathematical Analysis and Applications, 2017, 455, 1072-1087. | 0.5 | 8 |
| 42 | Dictionary Learning for Sparse Audio Inpainting. IEEE Journal on Selected Topics in Signal Processing, 2021, 15, 104-119. | 7.3 | 8 |
| 43 | A Guide to Localized Frames and Applications to Galerkin-Like Representations of Operators. Applied and Numerical Harmonic Analysis, 2017, , 47-79. | 0.1 | 8 |
| 44 | The \$\$alpha \$\$ α -modulation transform: admissibility, coorbit theory and frames of compactly supported functions. Monatshefte Fur Mathematik, 2017, 184, 133-169. | 0.5 | 7 |
| 45 | A Survey on the Unconditional Convergence and the Invertibility of Frame Multipliers with Implementation. Applied and Numerical Harmonic Analysis, 2020, , 169-192. | 0.1 | 7 |
| 46 | A STOCHASTIC 2D-MODEL FOR CALCULATING VIBRATIONS IN RANDOM LAYERS. Journal of Computational Acoustics, 2007, 15, 271-283. | 1.0 | 6 |
| 47 | Frames and semi-frames. Journal of Physics A: Mathematical and Theoretical, 2011, 44, 479501. | 0.7 | 6 |
| 48 | U-cross Gram matrices and their invertibility. Journal of Mathematical Analysis and Applications, 2019, 476, 367-390. | 0.5 | 6 |
| 49 | Simultaneous masking additivity for short Gaussian-shaped tones: Spectral effects. Journal of the Acoustical Society of America, 2013, 134, 1160-1171. | 0.5 | 5 |
| 50 | Frames for the Solution of Operator Equations in Hilbert Spaces with Fixed Dual Pairing. Numerical Functional Analysis and Optimization, 2019, 40, 65-84. | 0.6 | 5 |
| 51 | Continuous warped time-frequency representations—Coorbit spaces and discretization. Applied and Computational Harmonic Analysis, 2019, 47, 975-1013. | 1.1 | 5 |
| 52 | The Invertibility of U-Fusion Cross Gram Matrices of Operators. Mediterranean Journal of Mathematics, 2020, 17, 1. | 0.4 | 5 |
| 53 | A logarithmic based pole-zero vocal tract model estimation for speaker verification. , 2011, , . | | 4 |
| 54 | Commutative properties of invertible multipliers in relation to representation of their inverses. , 2017, | | 4 |

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| # | Article | IF | CITATIONS |
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| 55 | Auditory Time-Frequency Masking for Spectrally and Temporally Maximally-Compact Stimuli. PLoS ONE, 2016, 11, e0166937. | 1.1 | 4 |
| 56 | Capturing the songs of mice with an improved detection and classification method for ultrasonic vocalizations (BootSnap). PLoS Computational Biology, 2022, 18, e1010049. | 1.5 | 4 |
| 57 | A quasi-orthogonal, invertible, and perceptually relevant time-frequency transform for audio coding. , 2015, , . | | 3 |
| 58 | Frames, their relatives and reproducing kernel Hilbert spaces. Journal of Physics A: Mathematical and Theoretical, 2020, 53, 015204. | 0.7 | 3 |
| 59 | Auditory Time-Frequency Masking: Psychoacoustical Data and Application to Audio Representations. Lecture Notes in Computer Science, 2012, , 146-171. | 1.0 | 3 |
| 60 | A 3D MODEL TO SIMULATE VIBRATIONS IN A LAYERED MEDIUM WITH STOCHASTIC MATERIAL PARAMETERS. Journal of Computational Acoustics, 2011, 19, 139-154. | 1.0 | 2 |
| 61 | The dual frame induced by an invertible frame multiplier. , 2015, , . | | 2 |
| 62 | Random Gabor Multipliers for Compressive Sensing: A Simulation Study. , 2019, , . | | 2 |
| 63 | Random Gabor Multipliers and Compressive Sensing. , 2019, , . | | 2 |
| 64 | Fast Matching Pursuit with Multi-Gabor Dictionaries. ACM Transactions on Mathematical Software, 2021, 47, 1-20. | 1.6 | 2 |
| 65 | An iterative method for approximating LTI systems using subbands. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , . | 1.8 | 0 |
| 66 | Time-frequency representations for nonlinear frequency scales — Coorbit spaces and discretization. , 2015, , . | | 0 |
| 67 | Dictionary learning for pitch estimation in speech signals. , 2017, , . | | 0 |
| 68 | An Operator Based Approach to Irregular Frames of Translates. Mathematics, 2019, 7, 449. | 1.1 | 0 |
| 69 | Banach frames and atomic decompositions in the space of bounded operators on Hilbert spaces. , 2019, , . | | 0 |
| 70 | Phase-Based Signal Representations for Scattering. , 2021, , . | | 0 |
| 71 | Audio Inpainting via ell_{1} -Minimization and Dictionary Learning. , 2021, , . | | 0 |
| 72 | Frame-Related Sequences in Chains and Scales of Hilbert Spaces. Axioms, 2022, 11, 180. | 0.9 | 0 |