Matthieu Kowalski

List of Publications by Year
in descending order

18 papers	446 citations	1163117 8 h-index	1281871 11 g-index
18 all docs	18 docs citations	18 times ranked	488 citing authors

#	Article	IF	Citations
1	Sparse regression using mixed norms. Applied and Computational Harmonic Analysis, 2009, 27, 303-324.	2.2	185
2	Social Sparsity! Neighborhood Systems Enrich Structured Shrinkage Operators. IEEE Transactions on Signal Processing, 2013, 61, 2498-2511.	5.3	64
3	Beyond the Narrowband Approximation: Wideband Convex Methods for Under-Determined Reverberant Audio Source Separation. IEEE Transactions on Audio Speech and Language Processing, 2010, 18, 1818-1829.	3.2	43
4	Adapted and Adaptive Linear Time-Frequency Representations: A Synthesis Point of View. IEEE Signal Processing Magazine, 2013, 30, 20-31.	5.6	32
5	Underdetermined Reverberant Blind Source Separation: Sparse Approaches for Multiplicative and Convolutive Narrowband Approximation. IEEE/ACM Transactions on Audio Speech and Language Processing, 2019, 27, 442-456.	5.8	29
6	Convex Optimization approach to signals with fast varying instantaneous frequency. Applied and Computational Harmonic Analysis, 2018, 44, 89-122.	2.2	25
7	Revisiting sparse ICA from a synthesis point of view: Blind Source Separation for over and underdetermined mixtures. Signal Processing, 2018, 152, 165-177.	3.7	15
8	Random Models for Sparse Signals Expansion on Unions of Bases With Application to Audio Signals. IEEE Transactions on Signal Processing, 2008, 56, 3468-3481.	5.3	13
9	A structured nonnegative matrix factorization for source separation. , 2015, , .		9
10	Hybrid model and structured sparsity for under-determined convolutive audio source separation. , 2014, , .		6
11	An unified approach for blind source separation using sparsity and decorrelation. , 2015, , .		6
12	Hybrid Projective Nonnegative Matrix Factorization With Drum Dictionaries for Harmonic/Percussive Source Separation. IEEE/ACM Transactions on Audio Speech and Language Processing, 2018, 26, 1499-1511.	5.8	6
13	Hybrid sparse and low-rank time-frequency signal decomposition. , 2015, , .		4
14	Sparsity and low-rank amplitude based blind Source Separation. , 2017, , .		4
15	Estimation With Low-Rank Time–Frequency Synthesis Models. IEEE Transactions on Signal Processing, 2018, 66, 4121-4132.	5.3	4
16	Water Residence Time estimation by 1D deconvolution in the form of a l_2-regularized inverse problem with smoothness, positivity and causality constraints. Computers and Geosciences, 2018, 115, 105-121.	4.2	1
17	Sparse and structured decomposition of audio signals on hybrid dictionaries using musical priors. Journal of the Acoustical Society of America, 2013, 134, 666-685.	1.1	0
18	A priori par normes mixtes pour les problèmes inverses. Application à la localisation de sources en M/EEG. Traitement Du Signal, 2010, 27, 53-78.	1.3	0