David Brie

List of Publications by Year
in descending order

29	771	566801 15	500791 28
papers	citations	h-index	g-index

29	29	29	905
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	From Bernoulliâ€“Gaussian Deconvolution to Sparse Signal Restoration. IEEE Transactions on Signal Processing, 2011, 59, 4572-4584.	3.2	106
2	Automated Force Volume Image Processing for Biological Samples. PLoS ONE, 2011, 6, e18887.	1.1	86
3	MODELLING OF THE SPALLED ROLLING ELEMENT BEARING VIBRATION SIGNAL: AN OVERVIEW AND SOME NEW RESULTS. Mechanical Systems and Signal Processing, 2000, 14, 353-369.	4.4	66
4	A CANDECOMP/PARAFAC Perspective on Uniqueness of DOA Estimation Using a Vector Sensor Array. IEEE Transactions on Signal Processing, 2011, 59, 3475-3481.	3.2	58
5	Hyperspectral Super-Resolution With Coupled Tucker Approximation: Recoverability and SVD-Based Algorithms. IEEE Transactions on Signal Processing, 2020, 68, 931-946.	3.2	46
6	Generalized LASSO with under-determined regularization matrices. Signal Processing, 2016, 127, 239-246.	2.1	40
7	Homotopy Based Algorithms for $ell _{scriptscriptstyle 0}$-Regularized Least-Squares. IEEE Transactions on Signal Processing, 2015, 63, 3301-3316.	3.2	34
8	Coupled Tensor Decomposition for Hyperspectral and Multispectral Image Fusion With Inter-Image Variability. IEEE Journal on Selected Topics in Signal Processing, 2021, 15, 702-717.	7.3	34
9	Uni-mode and Partial Uniqueness Conditions for CANDECOMP/PARAFAC of Three-Way Arrays with Linearly Dependent Loadings. SIAM Journal on Matrix Analysis and Applications, 2012, 33, 111-129.	0.7	32
10	Transient Performance Analysis of Zero-Attracting LMS. IEEE Signal Processing Letters, 2016, 23, 1786-1790.	2.1	31
11	Modeling of MIG/MAG welding with experimental validation using an active contour algorithm applied on high speed movies. Applied Mathematical Modelling, 2010, 34, 1004-1020.	2.2	29
12	Raman spectra of Niâ€“Mg kerolite: effect of Niâ€“Mg substitution on Oâ€“H stretching vibrations. Journal of Raman Spectroscopy, 2015, 46, 933-940.	1.2	24
13	Regularization Parameter Estimation for Non-Negative Hyperspectral Image Deconvolution. IEEE Transactions on Image Processing, 2016, 25, 5316-5330.	6.0	20
14	Multilinear direction finding for sensor-array with multiple scales of invariance. IEEE Transactions on Aerospace and Electronic Systems, 2015, 51, 2057-2070.	2.6	19
15	Regularization aspects in continuous-time model identification. Automatica, 2005, 41, 197-208.	3.0	17
16	Does Deblurring Improve Geometrical Hyperspectral Unmixing?. IEEE Transactions on Image Processing, 2014, 23, 1169-1180.	6.0	15
17	DDB2 (damaged-DNA binding 2) protein: a new modulator of nanomechanical properties and cell adhesion of breast cancer cells. Nanoscale, 2016, 8, 5268-5279.	2.8	14
18	A simultaneous sparse approximation method for multidimensional harmonic retrieval. Signal Processing, 2017, 131, 36-48.	2.1	14

#	Article	IF	Citations
19	Quaternion Non-Negative Matrix Factorization: Definition, Uniqueness, and Algorithm. IEEE Transactions on Signal Processing, 2020, 68, 1870-1883.	3.2	13
20	Tensor methods for multisensor signal processing. IET Signal Processing, 2020, 14, 693-709.	0.9	12
21	Multicolor Whole-Cell Bacterial Sensing Using a Synchronous Fluorescence Spectroscopy-Based Approach. PLoS ONE, 2015, 10, e0122848.	1.1	10
22	Hyperspectral Super-resolution Accounting for Spectral Variability: Coupled Tensor LL1-Based Recovery and Blind Unmixing of the Unknown Super-resolution Image. SIAM Journal on Imaging Sciences, 2022, 15, 110-138.	1.3	10
23	Local surface sampling step estimation for extracting boundaries of planar point clouds. ISPRS Journal of Photogrammetry and Remote Sensing, 2016, 119, 309-319.	4.9	9
24	A General Framework for Constrained Convex Quaternion Optimization. IEEE Transactions on Signal Processing, 2022, 70, 254-267.	3.2	9
25	On LARS/Homotopy Equivalence Conditions for Over-Determined LASSO. IEEE Signal Processing Letters, 2012, 19, 894-897.	2.1	8
26	Online Deconvolution for Industrial Hyperspectral Imaging Systems. SIAM Journal on Imaging Sciences, 2019, 12, 54-86.	1.3	6
27	Boolean decomposition of binary matrices using a post-nonlinear mixture approach. Signal Processing, 2021, 178, 107809.	2.1	6
28	The effect of polarization separation on the performance of Candecomp/Parafac-based vector sensor array processing. Physical Communication, 2012, 5, 289-295.	1.2	3
29	Constrained CramÃ©râ€“Rao bounds for reconstruction problems formulated as coupled canonical polyadic decompositions. Signal Processing, 2022, 198, 108573.	2.1	0