

# James E Fowler

## List of Publications by Year in descending order

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68  
papers

2,315  
citations

331670

21  
h-index

395702

33  
g-index

68  
all docs

68  
docs citations

68  
times ranked

1721  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hyperspectral Image Compression Using JPEG2000 and Principal Component Analysis. IEEE Geoscience and Remote Sensing Letters, 2007, 4, 201-205.	3.1	359
2	Compressed-sensing recovery of images and video using multihypothesis predictions. , 2011, , .		150
3	Compressive-Projection Principal Component Analysis. IEEE Transactions on Image Processing, 2009, 18, 2230-2242.	9.8	141
4	Hyperspectral Image Classification Using Gaussian Mixture Models and Markov Random Fields. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 153-157.	3.1	132
5	Residual Reconstruction for Block-Based Compressed Sensing of Video. , 2011, , .		122
6	Block Compressed Sensing of Images Using Directional Transforms. , 2010, , .		113
7	Locality-Preserving Discriminant Analysis in Kernel-Induced Feature Spaces for Hyperspectral Image Classification. IEEE Geoscience and Remote Sensing Letters, 2011, 8, 894-898.	3.1	105
8	Low-Complexity Principal Component Analysis for Hyperspectral Image Compression. International Journal of High Performance Computing Applications, 2008, 22, 438-448.	3.7	103
9	Anomaly Detection and Reconstruction From Random Projections. IEEE Transactions on Image Processing, 2012, 21, 184-195.	9.8	92
10	Spectralâ€“Spatial Preprocessing Using Multihypothesis Prediction for Noise-Robust Hyperspectral Image Classification. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 1047-1059.	4.9	65
11	Video Compressed Sensing with Multihypothesis. , 2011, , .		63
12	Three-Dimensional Wavelet-Based Compression of Hyperspectral Imagery. , 0, , 379-407.		62
13	Decision Fusion in Kernel-Induced Spaces for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 3399-3411.	6.3	60
14	Reconstruction of Hyperspectral Imagery From Random Projections Using Multihypothesis Prediction. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 365-374.	6.3	47
15	Classification Based on 3-D DWT and Decision Fusion for Hyperspectral Image Analysis. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 173-177.	3.1	44
16	Lossy-to-Lossless Compression of Hyperspectral Imagery Using Three-Dimensional TCE and an Integer KLT. IEEE Geoscience and Remote Sensing Letters, 2008, 5, 814-818.	3.1	43
17	Compressive pushbroom and whiskbroom sensing for hyperspectral remote-sensing imaging. , 2014, , .		41
18	An Operational Approach to PCA+JPEG2000 Compression of Hyperspectral Imagery. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 2237-2245.	4.9	35

#	ARTICLE	IF	CITATIONS
19	Classification and Reconstruction From Random Projections for Hyperspectral Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 833-843.	6.3	34
20	Hyperspectral Restoration and Fusion With Multispectral Imagery via Low-Rank Tensor-Approximation. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 7817-7830.	6.3	34
21	Fast SVD With Random Hadamard Projection for Hyperspectral Dimensionality Reduction. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 1275-1279.	3.1	33
22	Block compressed sensing of images using directional transforms. , 2009, , .		32
23	Wavelet-Domain Low-Rank/Group-Sparse Destriping for Hyperspectral Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 10310-10321.	6.3	28
24	Anomaly-Based JPEG2000 Compression of Hyperspectral Imagery. IEEE Geoscience and Remote Sensing Letters, 2008, 5, 696-700.	3.1	27
25	Orthogonal Nonnegative Matrix Factorization Combining Multiple Features for Spectral Spatial Dimensionality Reduction of Hyperspectral Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 4272-4286.	6.3	27
26	Reconstruction From Random Projections of Hyperspectral Imagery With Spectral and Spatial Partitioning. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2013, 6, 466-472.	4.9	25
27	On the Impact of Atmospheric Correction on Lossy Compression of Multispectral and Hyperspectral Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 130-132.	6.3	23
28	Noise-Adjusted Subspace Discriminant Analysis for Hyperspectral Imagery Classification. IEEE Geoscience and Remote Sensing Letters, 2013, 10, 1374-1378.	3.1	23
29	Single-image super-resolution using multihypothesis prediction. , 2012, , .		21
30	Multitemporal Hyperspectral Image Compression. IEEE Geoscience and Remote Sensing Letters, 2011, 8, 416-420.	3.1	20
31	Spatial Logistic Regression for Support-Vector Classification of Hyperspectral Imagery. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 439-443.	3.1	17
32	Reconstructions from Compressive Random Projections of Hyperspectral Imagery. , 2011, , 31-48.		16
33	Hypergraph-Regularized Low-Rank Subspace Clustering Using Superpixels for Unsupervised Spatial Spectral Hyperspectral Classification. IEEE Geoscience and Remote Sensing Letters, 2021, 18, 871-875.	3.1	15
34	Integration of Spectral Spatial Information for Hyperspectral Image Reconstruction From Compressive Random Projections. IEEE Geoscience and Remote Sensing Letters, 2013, 10, 1379-1383.	3.1	14
35	Hyperspectral classification using a composite kernel driven by nearest-neighbor spatial features. , 2015, , .		13
36	Video Coding Using a Complex Wavelet Transform and Set Partitioning. IEEE Signal Processing Letters, 2007, 14, 633-636.	3.6	10

#	ARTICLE	IF	CITATIONS
37	Random-projection-based dimensionality reduction and decision fusion for hyperspectral target detection. , 2011, , .		9
38	Spatial Functional Data Analysis for the Spatialâ€“Spectral Classification of Hyperspectral Imagery. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 942-946.	3.1	9
39	Motion Compensation Via Redundant-Wavelet Multihypothesis. IEEE Transactions on Image Processing, 2006, 15, 3102-3113.	9.8	8
40	Compressive-Projection Principal Component Analysis for the Compression of Hyperspectral Signatures. Proceedings of the Data Compression Conference, 2008, , .	0.0	8
41	Implementation of Low-Complexity Principal Component Analysis for Remotely Sensed Hyperspectral-Image Compression. Signal Processing Systems Design and Implementation (siPS), IEEE Workshop on, 2007, , .	0.0	7
42	Evaluation of JP3D for lossy and lossless compression of hyperspectral imagery. , 2009, , .		7
43	Hadamard-Walsh random projection for hyperspectral image classification. , 2016, , .		6
44	Hyperspectral image compression with the 3D dual-tree wavelet transform. , 2007, , .		5
45	Decoder-side dimensionality determination for compressive-projection principal component analysis of hyperspectral data. , 2011, , .		5
46	Motion-compensated compressed-sensing reconstruction for dynamic MRI. , 2013, , .		5
47	Random Hadamard Projections for Hyperspectral Unmixing. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 419-423.	3.1	5
48	Rotated Constellations for Video Transmission Over Rayleigh Fading Channels. IEEE Signal Processing Letters, 2007, 14, 629-632.	3.6	4
49	Compressive-Projection Principal Component Analysis and the First Eigenvector. , 2009, , .		4
50	On the performance of random-projection-based dimensionality reduction for endmember extraction. , 2010, , .		4
51	Locality-preserving nonnegative matrix factorization for hyperspectral image classification. , 2012, , .		4
52	Locality-preserving discriminant analysis for hyperspectral image classification using local spatial information. , 2012, , .		4
53	Noise-adjusted subspace linear discriminant analysis for hyperspectral-image classification. , 2012, , .		4
54	Compressive data fusion for multi-sensor image analysis. , 2014, , .		4

#	ARTICLE	IF	CITATIONS
55	Video Coding with Wavelet-Domain Conditional Replenishment and Unequal Error Protection. , 2006, , .		3
56	Anomaly-Based Hyperspectral Image Compression. , 2008, , .		3
57	Improvements to 3D-Tarp Coding for the Compression of Hyperspectral Imagery. , 2008, , .		3
58	Class dependent compressive-projection principal component analysis for hyperspectral image reconstruction. , 2011, , .		3
59	Random-projection-based nonnegative least squares for hyperspectral image unmixing. , 2016, , .		3
60	Multiscale Spatial-Spectral Feature Extraction Network for Hyperspectral Image Classification. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 4640-4652.	4.9	3
61	An operational approach for hyperspectral image compression. , 2012, , .		2
62	A multi-modal pattern classification framework for hyperspectral image analysis. , 2011, , .		1
63	Decentralized reconstruction from compressive random projections driven by principal components. , 2015, , .		1
64	Hyperspectral Stripes Removal With Wavelet-Domain Low-Rank/Group-Sparse Decomposition. , 2019, , .		1
65	Hyperspectral Image Compression Using Segmented Principal Component Analysis. , 2012, , 233-251.		1
66	Spectral-decorrelation strategies for the compression of hyperspectral imagery. , 2007, , .		0
67	A Modified BISK Algorithm for 3D Dual-TreeWavelet Transform Coding. , 2007, , .		0
68	Noise-adjusted sparsity-preserving-based dimensionality reduction for hyperspectral image classification. , 2012, , .		0