

Hyperspectral Unmixing Overview: Geometrical, Statistical Approaches

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Citation Report

#	ARTICLE	IF	CITATIONS
1	A new technique for hyperspectral compressive sensing using spectral unmixing. Proceedings of SPIE, 2012, , .	0.8	14
2	Seabed estimation using triple NMF method. , 2012, , .		2
3	Hyperspectral coded aperture (HYCA): A new technique for hyperspectral compressive sensing. , 2012, , .		11
4	Parallel implementation of vertex component analysis for hyperspectral endmember extraction. , 2012, , .		4
5	A smooth hyperspectral unmixing method using cyclic descent. , 2012, , .		4
6	Randomized SVD Methods in Hyperspectral Imaging. Journal of Electrical and Computer Engineering, 2012, 2012, 1-15.	0.6	16
7	Comparison between the research result of mathematical morphology method applied to satellite SAR data and the other reported results for the detection of the 2011 off the Pacific coast of Tohoku Japan earthquake and tsunami-affected farmlands. Proceedings of SPIE, 2012, , .	0.8	0
8	Further optimizations of the GPU-based pixel purity index algorithm for hyperspectral unmixing. Proceedings of SPIE, 2012, , .	0.8	0
9	Foreword to the Special Issue on Hyperspectral Image and Signal Processing. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2012, 5, 347-353.	2.3	38
10	Spectral mixture analysis of EELS spectrum-images. Ultramicroscopy, 2012, 120, 25-34.	0.8	86
11	Semi-supervised classification of hyperspectral data using spectral unmixing concepts. , 2012, , .		3
12	Context Dependent Spectral Unmixing. , 2012, , .		3
13	Enhancing Spectral Unmixing by Local Neighborhood Weights. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2012, 5, 1545-1552.	2.3	51
14	A sparsity promoting bilinear unmixing model. , 2012, , .		13
15	Recent advances in hyperspectral image processing. Geo-Spatial Information Science, 2012, 15, 143-156.	2.4	26
16	A regularization based method for spectral unmixing of imaging spectrometer data. , 2012, , .		2
17	A parametric statistical model over spectral space for the unmixing of imaging spectrometer data. Proceedings of SPIE, 2012, , .	0.8	1
18	Spatial-Spectral Preprocessing Prior to Endmember Identification and Unmixing of Remotely Sensed Hyperspectral Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2012, 5, 380-395.	2.3	145

#	ARTICLE	IF	CITATIONS
19	Cloud Implementation of a Full Hyperspectral Unmixing Chain Within the NASA Web Coverage Processing Service for EO-1. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2013, 6, 408-418.	2.3	18
20	Crop Yield Estimation Based on Unsupervised Linear Unmixing of Multidate Hyperspectral Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 162-173.	2.7	46
21	SHARE 2012: subpixel detection and unmixing experiments. Proceedings of SPIE, 2013, , .	0.8	17
22	Hyperspectral image unmixing via bilinear generalized approximate message passing. Proceedings of SPIE, 2013, , .	0.8	5
23	Hyperspectral Remote Sensing Data Analysis and Future Challenges. IEEE Geoscience and Remote Sensing Magazine, 2013, 1, 6-36.	4.9	1,508
24	Robust Affine Set Fitting and Fast Simplex Volume Max-Min for Hyperspectral Endmember Extraction. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 3982-3997.	2.7	26
25	Deblurring and Sparse Unmixing for Hyperspectral Images. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 4045-4058.	2.7	142
26	Multidimensional Pixel Purity Index for Convex Hull Estimation and Endmember Extraction. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 4059-4069.	2.7	16
27	Comparison of hyperspectral endmember extraction algorithms. Journal of Applied Remote Sensing, 2013, 7, 073525.	0.6	7
28	Hyperspectral Data Geometry-Based Estimation of Number of Endmembers Using p-Norm-Based Pure Pixel Identification Algorithm. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 2753-2769.	2.7	61
29	Piecewise Convex Multiple-Model Endmember Detection and Spectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 2853-2862.	2.7	44
30	PPI-SVM-Iterative FLDA Approach to Unsupervised Multispectral Image Classification. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2013, 6, 1834-1842.	2.3	14
31	A New Preprocessing Technique for Fast Hyperspectral Endmember Extraction. IEEE Geoscience and Remote Sensing Letters, 2013, 10, 1070-1074.	1.4	21
32	A Subspace-Based Change Detection Method for Hyperspectral Images. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2013, 6, 815-830.	2.3	108
33	Improvements in the Ant Colony Optimization Algorithm for Endmember Extraction From Hyperspectral Images. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2013, 6, 522-530.	2.3	25
34	Anomaly and homogeneous region guided endmember extraction for hyperspectral images. , 2013, , .		0
35	The Promise of Reconfigurable Computing for Hyperspectral Imaging Onboard Systems: A Review and Trends. Proceedings of the IEEE, 2013, 101, 698-722.	16.4	84
36	Nonlinear Spectral Unmixing of Hyperspectral Images Using Gaussian Processes. IEEE Transactions on Signal Processing, 2013, 61, 2442-2453.	3.2	91

#	ARTICLE	IF	CITATIONS
37	Improving the efficiency of MESMA through geometric unmixing principles. Proceedings of SPIE, 2013, , .	0.8	2
38	Nonlinear Unmixing of Hyperspectral Data Based on a Linear-Mixture/Nonlinear-Fluctuation Model. IEEE Transactions on Signal Processing, 2013, 61, 480-492.	3.2	179
39	Hyperspectral Intrinsic Dimensionality Estimation With Nearest-Neighbor Distance Ratios. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2013, 6, 570-579.	2.3	31
40	Further results on dissimilarity spaces for hyperspectral images RF-CBIR. Pattern Recognition Letters, 2013, 34, 1659-1668.	2.6	4
41	Sparse representation-based color visualization method for hyperspectral imaging. Applied Geophysics, 2013, 10, 210-221.	0.1	4
42	Blind unmixing of remote sensing data with some pure pixels: Extension and comparison of spatial methods exploiting sparsity and nonnegativity properties. , 2013, , .		8
43	Parallel optimization of hyperspectral unmixing based on sparsity constrained nonnegative matrix factorization. , 2013, , .		1
44	Non-homogeneous hidden Markov chain models for wavelet-based hyperspectral image processing. , 2013, , .		6
45	Sparse representation of hyperspectral data using CUR matrix decomposition. , 2013, , .		0
46	Detecting the Adjacency Effect in Hyperspectral Imagery With Spectral Unmixing Techniques. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2013, 6, 1070-1078.	2.3	25
47	Spectral unmixing of three-algae mixtures using hyperspectral images. , 2013, , .		1
48	On Using Projection Onto Convex Sets for Solving the Hyperspectral Unmixing Problem. IEEE Geoscience and Remote Sensing Letters, 2013, 10, 1522-1526.	1.4	10
49	Mixture gradient detector for subpixel detection. , 2013, , .		2
50	Hyperspectral image segmentation using a new spectral mixture-based binary partition tree representation. , 2013, , .		8
51	Analysis of classification accuracy for pre-filtered multichannel remote sensing data. Expert Systems With Applications, 2013, 40, 6400-6411.	4.4	26
52	Sparse Hyperspectral Unmixing Based on Constrained $l_1 - l_2$ Optimization. IEEE Geoscience and Remote Sensing Letters, 2013, 10, 1142-1146.	1.4	57
53	Effect of Denoising in Band Selection for Regression Tasks in Hyperspectral Datasets. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2013, 6, 473-481.	2.3	10
54	Adaptive Markov Random Fields for Joint Unmixing and Segmentation of Hyperspectral Images. IEEE Transactions on Image Processing, 2013, 22, 5-16.	6.0	51

#	ARTICLE	IF	CITATIONS
55	Projection-Pursuit-Based Method for Blind Separation of Nonnegative Sources. IEEE Transactions on Neural Networks and Learning Systems, 2013, 24, 47-57.	7.2	18
56	Manifold Regularized Sparse NMF for Hyperspectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 2815-2826.	2.7	322
57	Contextual Subpixel Mapping of Hyperspectral Images Making Use of a High Resolution Color Image. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2013, 6, 779-791.	2.3	29
58	Leaf Parameter Estimation Based on Leaf Scale Hyperspectral Imagery. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2013, 6, 699-707.	2.3	35
59	An Endmember Dissimilarity Constrained Non-Negative Matrix Factorization Method for Hyperspectral Unmixing. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2013, 6, 554-569.	2.3	125
60	Kernel-Based Weighted Abundance Constrained Linear Spectral Mixture Analysis for Remotely Sensed Images. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2013, 6, 531-553.	2.3	3
61	A Comparative Study on Linear Regression-Based Noise Estimation for Hyperspectral Imagery. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2013, 6, 488-498.	2.3	80
62	Unmixing Analysis of a Time Series of Hyperion Images Over the Guánica Dry Forest in Puerto Rico. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2013, 6, 329-338.	2.3	52
63	Algorithms for Multispectral and Hyperspectral Image Analysis. Journal of Electrical and Computer Engineering, 2013, 2013, 1-2.	0.6	6
64	Foreword to the special issue on hyperspectral remote sensing: Theory, methods, and applications. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2013, 6, 459-465.	2.3	29
65	Parallel method for sparse semisupervised hyperspectral unmixing. Proceedings of SPIE, 2013, , .	0.8	1
66	Randomized methods in lossless compression of hyperspectral data. Journal of Applied Remote Sensing, 2013, 7, 074598.	0.6	1
67	On the endmember identifiability of Craig's criterion for hyperspectral unmixing: A statistical analysis for three-source case. , 2013, , .		6
68	Linear spectral unmixing-based method including extended nonnegative matrix factorization for pan-sharpening multispectral remote sensing images. , 2013, , .		3
69	Fast Implementation of Maximum Simplex Volume-Based Endmember Extraction in Original Hyperspectral Data Space. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2013, 6, 516-521.	2.3	21
70	Hierarchical Bayesian sparse source separation of hyperspectral signals. , 2013, , .		0
71	Distributed algorithms for unmixing hyperspectral data using nonnegative matrix factorization with sparsity constraints. , 2013, , .		4
72	Nonlinear Bayesian unmixing of geospatial data based on GIBBS sampling. , 2013, , .		1

#	ARTICLE	IF	CITATIONS
73	Parallel sparse unmixing of hyperspectral data. , 2013, , .		6
74	Nonlinear spectral unmixing using manifold learning. , 2013, , .		0
75	A comparison study between windowing and binary partition trees for hyperspectral image information mining. , 2013, , .		0
76	A robust test for nonlinear mixture detection in hyperspectral images. , 2013, , .		9
77	Semi-supervised classification of urban hyperspectral data using spectral unmixing concepts. , 2013, , .		1
78	A novel nonlinear unmixing scheme for hyperspectral images using the nonlinear least squares technique. , 2013, , .		0
79	Smooth spectral unmixing using total variation regularization and a first order roughness penalty. , 2013, , .		6
80	Simultaneous Band-weighting and Spectral Unmixing for Multiple Endmember Sets. , 2013, , .		0
81	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.	2.3	25
82	Modified independent component analysis for initializing non-negative matrix factorization: An approach to hyperspectral image unmixing. , 2013, , .		1
83	Nonlinear unmixing of hyperspectral data with partially linear least-squares support vector regression. , 2013, , .		9
84	Hyperspectral abundance estimation for the generalized bilinear model with joint sparsity constraint. , 2013, , .		1
85	A novel endmember, fractional abundance, and contrast model for hyperspectral imagery. , 2013, , .		2
86	An empirical-bayes approach to recovering linearly constrained non-negative sparse signals. , 2013, , .		4
87	Optimal filters for high-speed compressive detection in spectroscopy. Proceedings of SPIE, 2013, , .	0.8	10
88	Towards the acceleration of sequential endmember extraction algorithms for time critical applications. , 2013, , .		0
89	Robust nonnegative matrix factorization for nonlinear unmixing of hyperspectral images. , 2013, , .		9
90	Handling spectral variability with alternating angle minimization. , 2013, , .		0

#	ARTICLE	IF	CITATIONS
91	Efficient and accurate linear spectral unmixing. , 2013, , .		0
92	Hyperspectral image subpixel mapping using Getis index. , 2013, , .		2
93	Hyperspectral image unmixing by non-negative matrix factorization initialized with modified independent component analysis. , 2013, , .		2
94	Multi-dimensional pixel purity index. , 2013, , .		0
95	Spectral mixture and chemometric algorithms applied to the identification of biosignatures on planetary surfaces. , 2013, , .		0
96	A unified sub-pixel mapping model integrating spectral unmixing for hyperspectral imagery. , 2013, , .		0
97	Joint nonnegative matrix factorization for hyperspectral and multispectral remote sensing data fusion. , 2013, , .		6
98	A non-negative matrix factorization method for bilinear-bilinear unmixing of hyperspectral images. , 2013, , .		1
99	Spectral unmixing-based post-processing for hyperspectral image classification. , 2013, , .		0
100	MCMC Algorithms for Supervised and Unsupervised Linear Unmixing of Hyperspectral Images. EAS Publications Series, 2013, 59, 381-401.	0.3	2
101	Low rank representation for bilinear abundance estimation problem. , 2013, , .		0
102	Spectral unmixing using the beta compositional model. , 2013, , .		2
103	Sparse spectral unmixing with endmember groups pre-selection. , 2013, , .		0
104	Plant production system monitoring via multiple signal classification and sparse regression. , 2013, , .		0
105	Nonlinear hyperspectral unmixing using Gaussian processes. , 2013, , .		0
106	Convex geometry based outlier-insensitive estimation of number of endmembers in hyperspectral images. , 2013, , .		6
107	A fast variational Bayes algorithm for sparse semi-supervised unmixing of OMEGA/Mars express data. , 2013, , .		3
108	Submodular volume simplex analysis: A greedy algorithm for hyperspectral unmixng. , 2013, , .		0

#	ARTICLE	IF	CITATIONS
109	An autonomous member detection technique based on lattice associative memories and statistical clustering. , 2013, , .		0
110	Smooth and sparse hyperspectral unmixing using an l_0 penalty. , 2013, , .		4
111	Constrained reflect-then-combine methods for unmixing hyperspectral data. , 2013, , .		0
112	A new semantic wavelet-based spectral representation. , 2013, , .		4
113	Graph constrained multi-model unmixing using LIDAR information. , 2013, , .		3
114	Investigation of epifauna coverage on seagrass blades using spatial and spectral analysis of hyperspectral images. , 2013, , .		21
115	On the application of spectral unmixing for noise reduction. , 2013, , .		0
116	Estimating abundance fractions of materials in hyperspectral images by fitting a post-nonlinear mixing model. , 2013, , .		4
117	Using Physically-Modeled Synthetic Data to Assess Hyperspectral Unmixing Approaches. Remote Sensing, 2013, 5, 1974-1997.	1.8	2
118	On the use of collaborative sparse regression in hyperspectral unmixing chains. , 2014, , .		1
119	Integrating multiple nonlinear estimators into hyperspectral unmixing. , 2014, , .		3
120	Multilayer structured NMF for spectral unmixing of hyperspectral images. , 2014, , .		4
121	Slow feature analysis for hyperspectral change detection. , 2014, , .		4
122	A new extended linear mixing model to address spectral variability. , 2014, , .		44
123	Geometric matched filter for hyperspectral partial unmixing. , 2014, , .		0
124	Spectral-spatial joint sparsity unmixing of hyperspectral data using overcomplete dictionaries. , 2014, , .		1
125	Approximate Sparse Regularized Hyperspectral Unmixing. Mathematical Problems in Engineering, 2014, 1-11.	0.6	1
126	Residual component analysis of hyperspectral images for joint nonlinear unmixing and nonlinearity detection. , 2014, , .		2

#	ARTICLE	IF	CITATIONS
127	Foreword to the Special Issue on Hyperspectral Image and Signal Processing. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 1841-1843.	2.3	16
128	Endmember Detection using Enhanced Constrained Optimization in Hyperspectral Imaging. , 2014, , .		1
129	Discussion on the Paper by Byrne and Girolami. Scandinavian Journal of Statistics, 2014, 41, 12-13.	0.9	0
130	Computer-aided diagnostic system for prostate cancer detection and characterization combining learned dictionaries and supervised classification. , 2014, , .		5
131	Target-to-background separation for spectral unmixing in in-vivo fluorescence imaging. Journal of Shanghai Jiaotong University (Science), 2014, 19, 600-611.	0.5	0
132	Progress in Hyperspectral Remote Sensing Science and Technology in China Over the Past Three Decades. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 70-91.	2.3	172
133	A physics-based unmixing method for thermal hyperspectral images. , 2014, , .		1
134	A New Hybrid Strategy Combining Semisupervised Classification and Unmixing of Hyperspectral Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 3619-3629.	2.3	29
135	Compressed sensing based hyperspectral unmixing. , 2014, , .		4
136	Nonlinear unmixing of hyperspectral images using a semiparametric model and spatial regularization. , 2014, , .		2
137	Nonlinear Spectral Mixture Analysis by Determining Per-Pixel Endmember Sets. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 1404-1408.	1.4	7
138	Lossy compression of hyperspectral images based on noise parameters estimation and variance stabilizing transform. Journal of Applied Remote Sensing, 2014, 8, 083571.	0.6	40
139	SUnGP: A Greedy Sparse Approximation Algorithm for Hyperspectral Unmixing. , 2014, , .		15
140	Integrating spatial information in unmixing using the nonnegative matrix factorization. Proceedings of SPIE, 2014, , .	0.8	7
141	Hyperspectral super-resolution of locally low rank images from complementary multisource data. , 2014, , .		6
142	Regularized nonnegative matrix factorization: Geometrical interpretation and application to spectral unmixing. International Journal of Applied Mathematics and Computer Science, 2014, 24, 233-247.	1.5	10
143	Sequential deconvolution — Unmixing of blurred hyperspectral data. , 2014, , .		1
144	Bayesian fusion of multispectral and hyperspectral images with unknown sensor spectral response. , 2014, , .		9

#	ARTICLE	IF	CITATIONS
145	Dual Graph Regularized NMF for Hyperspectral Unmixing. , 2014, , .		17
146	Alternating direction method for approximating smooth feature vectors in Nonnegative Matrix Factorization. , 2014, , .		6
147	Nonlinear spectral unmixing of hyperspectral images using residual component analysis. , 2014, , .		0
148	Cluster constraint based sparse NMF for hyperspectral imagery unmixing. , 2014, , .		2
149	Robust Context Dependent Spectral Unmixing. , 2014, , .		1
150	Parallel Implementation of the Modified Vertex Component Analysis Algorithm for Hyperspectral Unmixing Using OpenCL. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 3650-3659.	2.3	18
151	Hyperspectral image superresolution: An edge-preserving convex formulation. , 2014, , .		15
152	Primal-dual interior-point optimization based on majorization-minimization for edge-preserving spectral unmixing. , 2014, , .		3
153	Spectral unmixing of fluorescence fingerprint imagery for visualization of constituents in pie pastry. , 2014, , .		0
154	Estimation of the number of fluorescent end-members for quantitative analysis of multispectral FLIM data. Optics Express, 2014, 22, 12255.	1.7	10
155	Denosing of Hyperspectral Images Employing Two-Phase Matrix Decomposition. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 3742-3754.	2.3	28
157	An Empirical-Bayes Approach to Recovering Linearly Constrained Non-Negative Sparse Signals. IEEE Transactions on Signal Processing, 2014, 62, 4689-4703.	3.2	33
158	Spectral Unmixing via Data-Guided Sparsity. IEEE Transactions on Image Processing, 2014, 23, 5412-5427.	6.0	198
159	Robustness Improvement of Hyperspectral Image Unmixing by Spatial Second-Order Regularization. IEEE Transactions on Image Processing, 2014, 23, 5209-5221.	6.0	10
160	Real-Time Implementation of the Pixel Purity Index Algorithm for Endmember Identification on GPUs. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 955-959.	1.4	48
161	Minimal Volume Simplex (MVS) approach for convex hull generation in TP Model Transformation. , 2014, , .		14
162	An unmixing-based method for the analysis of thermal hyperspectral images. , 2014, , .		3
163	Nonlinear Unmixing of Hyperspectral Images: Models and Algorithms. IEEE Signal Processing Magazine, 2014, 31, 82-94.	4.6	362

#	ARTICLE	IF	CITATIONS
164	Blind End-Member and Abundance Extraction for Multispectral Fluorescence Lifetime Imaging Microscopy Data. IEEE Journal of Biomedical and Health Informatics, 2014, 18, 606-617.	3.9	22
165	Spatiotemporal Variations in Grassland Desertification Based on Landsat Images and Spectral Mixture Analysis in Yanchi County of Ningxia, China. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 4393-4402.	2.3	20
166	Unmixing-based denoising for destriping and inpainting of hyperspectral images. , 2014, , .		20
167	Improved subpixel monitoring of seasonal snow cover: A case study in the Alps. , 2014, , .		3
168	Bayesian fusion of hyperspectral and multispectral images. , 2014, , .		52
169	Contextual unmixing of geospatial data based on Bayesian modeling. , 2014, , .		0
170	Fast Constrained Least Squares Spectral Unmixing Using Primal-Dual Interior-Point Optimization. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 59-69.	2.3	37
171	Hyperspectral Image Classification Using Band Selection and Morphological Profiles. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 40-48.	2.3	71
172	A preconditioned Forward-Backward approach with application to large-scale nonconvex spectral unmixing problems. , 2014, , .		8
173	Semi-supervised hyperspectral unmixing. , 2014, , .		6
174	Hyperspectral unmixing via semantic spectral representations. , 2014, , .		3
175	Kernel simplex growing algorithm for hyperspectral endmember extraction. Journal of Applied Remote Sensing, 2014, 8, 083594.	0.6	5
176	A Spectral-Unmixing Approach to Estimate Waterâ€™s Mass Concentrations in Case 2 Waters. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 3595-3605.	2.3	2
177	Remote sensing for snow hydrology in China: challenges and perspectives. Journal of Applied Remote Sensing, 2014, 8, 084687.	0.6	20
178	Sparse Non-negative Matrix Factorization on GPUs for Hyperspectral Unmixing. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 3640-3649.	2.3	25
179	Resolving Mixed Algal Species in Hyperspectral Images. Sensors, 2014, 14, 1-21.	2.1	30
180	Using spatial and spectral information for improving endmember extraction algorithms in hyperspectral remotely sensed images. , 2014, , .		5
181	Estimating Vegetation Fraction Using Hyperspectral Pixel Unmixing Method: A Case Study of a Karst Area in China. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 4559-4565.	2.3	17

#	ARTICLE	IF	CITATIONS
182	Unsupervised Spectral Mixture Analysis of Highly Mixed Data With Hopfield Neural Network. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 1922-1935.	2.3	5
183	Spatial-Spectral Information Based Abundance-Constrained Endmember Extraction Methods. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 2004-2015.	2.3	30
184	Linear Spectral Mixing Model for Identifying Potential Missing Endmembers in Spectral Mixture Analysis. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 3005-3012.	2.7	19
185	Import Vector Machines for Quantitative Analysis of Hyperspectral Data. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 449-453.	1.4	13
186	A Fully Constrained Linear Spectral Unmixing Algorithm Based on Distance Geometry. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 1157-1176.	2.7	29
187	Nonlinear Unmixing of Hyperspectral Data Using Semi-Nonnegative Matrix Factorization. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 1430-1437.	2.7	77
188	Noise Reduction in Hyperspectral Images Through Spectral Unmixing. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 109-113.	1.4	47
189	Source Separation in Chemical Analysis : Recent achievements and perspectives. IEEE Signal Processing Magazine, 2014, 31, 135-146.	4.6	21
190	Hyperspectral Remote Sensing Image Subpixel Target Detection Based on Supervised Metric Learning. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 4955-4965.	2.7	171
191	Fast and Robust Recursive Algorithms for Separable Nonnegative Matrix Factorization. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2014, 36, 698-714.	9.7	215
192	Sub-pixel mapping of remote sensing images based on radial basis function interpolation. ISPRS Journal of Photogrammetry and Remote Sensing, 2014, 92, 1-15.	4.9	93
193	Unmixing-based content retrieval system for remotely sensed hyperspectral imagery on GPUs. Journal of Supercomputing, 2014, 70, 588-599.	2.4	24
194	Does Deblurring Improve Geometrical Hyperspectral Unmixing?. IEEE Transactions on Image Processing, 2014, 23, 1169-1180.	6.0	15
195	Hyperspectral Target Detection : An Overview of Current and Future Challenges. IEEE Signal Processing Magazine, 2014, 31, 34-44.	4.6	424
196	A Signal Processing Perspective on Hyperspectral Unmixing: Insights from Remote Sensing. IEEE Signal Processing Magazine, 2014, 31, 67-81.	4.6	362
197	Incorporating spatial information in spectral unmixing: A review. Remote Sensing of Environment, 2014, 149, 70-87.	4.6	169
198	Residual Component Analysis of Hyperspectral Images Application to Joint Nonlinear Unmixing and Nonlinearity Detection. IEEE Transactions on Image Processing, 2014, 23, 2148-2158.	6.0	84
199	Unsupervised Post-Nonlinear Unmixing of Hyperspectral Images Using a Hamiltonian Monte Carlo Algorithm. IEEE Transactions on Image Processing, 2014, 23, 2663-2675.	6.0	110

#	ARTICLE	IF	CITATIONS
200	Abundance Estimation for Bilinear Mixture Models via Joint Sparse and Low-Rank Representation. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 4404-4423.	2.7	88
201	Collaborative Sparse Regression for Hyperspectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 341-354.	2.7	381
202	Structured Sparse Method for Hyperspectral Unmixing. ISPRS Journal of Photogrammetry and Remote Sensing, 2014, 88, 101-118.	4.9	195
203	Blind spatial unmixing of multispectral images: An approach based on two-source sparsity and geometrical properties. , 2014, , .		1
204	Improving Mountainous Snow Cover Fraction Mapping via Artificial Neural Networks Combined With MODIS and Ancillary Topographic Data. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 5601-5611.	2.7	18
205	Spatial Resolution Enhancement of Hyperspectral Images Using Unmixing and Binary Particle Swarm Optimization. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 2100-2104.	1.4	23
206	Double Constrained NMF for Hyperspectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 2746-2758.	2.7	112
207	Hyperspectral Unmixing With ℓ_1/ℓ_2 Regularization. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 6793-6806.	2.7	56
208	A Bayesian Nonparametric Model for Temperature-Emissivity Separation of Long-Wave Hyperspectral Images. Technometrics, 2014, 56, 200-211.	1.3	4
209	PSO-EM: A Hyperspectral Unmixing Algorithm Based On Normal Compositional Model. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 7782-7792.	2.7	43
210	A Bilinear Bilinear Nonnegative Matrix Factorization Method for Hyperspectral Unmixing. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 778-782.	1.4	46
211	Parallel Hyperspectral Unmixing on GPUs. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 666-670.	1.4	37
212	Retrieving the electronic properties of silicon nanocrystals embedded in a dielectric matrix by low-loss EELS. Nanoscale, 2014, 6, 14971-14983.	2.8	18
213	A Novel Blind Spectral Unmixing Method Based on Error Analysis of Linear Mixture Model. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 1180-1184.	1.4	6
214	A Distance Geometric Framework for Nonlinear Hyperspectral Unmixing. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 1879-1888.	2.3	17
215	Site-Specific Plant Condition Monitoring Through Hyperspectral Alternating Least Squares Unmixing. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 3606-3618.	2.3	10
216	Hyperspectral image unmixing using a sparse Bayesian model. Remote Sensing Letters, 2014, 5, 642-651.	0.6	5
217	Repeated constrained sparse coding with partial dictionaries for hyperspectral unmixing. , 2014, , .		12

#	ARTICLE	IF	CITATIONS
218	Nonlinear Spectral Unmixing With a Linear Mixture of Intimate Mixtures Model. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 1195-1199.	1.4	38
219	MUSIC-CSR: Hyperspectral Unmixing via Multiple Signal Classification and Collaborative Sparse Regression. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 4364-4382.	2.7	123
220	Real-Time Identification of Hyperspectral Subspaces. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 2680-2687.	2.3	20
221	Hyperspectral Imagery Super-Resolution by Spatial-Spectral Joint Nonlocal Similarity. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 2671-2679.	2.3	75
222	Fuzzy Assessment of Spectral Unmixing Algorithms. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 1947-1955.	2.3	9
223	Sparse hyperspectral unmixing based on smoothed ℓ_0 regularization. Infrared Physics and Technology, 2014, 67, 306-314.	1.3	16
224	Earth Movers Distance-Based Simultaneous Comparison of Hyperspectral Endmembers and Proportions. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 1910-1921.	2.3	7
225	Subspace-Projection-Based Geometric Unmixing for Material Quantification in Hyperspectral Imagery. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 1966-1975.	2.3	5
226	Spectral Unmixing via Compressive Sensing. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 7099-7110.	2.7	22
227	Unmixing-Based Fusion of Hyperspatial and Hyperspectral Airborne Imagery for Early Detection of Vegetation Stress. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 2571-2582.	2.3	42
228	A Fast Endmember Extraction Algorithm Based on Gram Determinant. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 1124-1128.	1.4	19
229	Multi-GPU Implementation of the Minimum Volume Simplex Analysis Algorithm for Hyperspectral Unmixing. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 2281-2296.	2.3	29
230	Endmember Variability in Hyperspectral Analysis: Addressing Spectral Variability During Spectral Unmixing. IEEE Signal Processing Magazine, 2014, 31, 95-104.	4.6	292
231	Assessing the Performance-Energy Balance of Graphics Processors for Spectral Unmixing. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 2305-2316.	2.3	5
232	A Dynamic Unmixing Framework for Plant Production System Monitoring. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 2016-2034.	2.3	24
233	Spatial and Spectral Unmixing Using the Beta Compositional Model. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 1994-2003.	2.3	63
234	Integrating Spatial Information in Unsupervised Unmixing of Hyperspectral Imagery Using Multiscale Representation. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 1985-1993.	2.3	20
235	Subspace vertex pursuit for separable non-negative matrix factorization in hyperspectral unmixing. , 2014, , .		1

#	ARTICLE	IF	CITATIONS
236	Hyperspectral unmixing based on ISOMAP and spatial information. <i>Optik</i> , 2014, 125, 4283-4287.	1.4	3
237	A Review of Nonlinear Hyperspectral Unmixing Methods. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2014, 7, 1844-1868.	2.3	401
238	A Comparison of Nonlinear Mixing Models for Vegetated Areas Using Simulated and Real Hyperspectral Data. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2014, 7, 1869-1878.	2.3	42
240	Multitask Diffusion Adaptation Over Networks. <i>IEEE Transactions on Signal Processing</i> , 2014, 62, 4129-4144.	3.2	214
241	A method based on spatial and spectral information to reduce the solution space in endmember extraction algorithms. <i>Remote Sensing Letters</i> , 2014, 5, 471-480.	0.6	2
242	Adaptive MAP sub-pixel mapping model based on regularization curve for multiple shifted hyperspectral imagery. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2014, 96, 134-148.	4.9	24
243	SAGA: sparse and geometry-aware non-negative matrix factorization through non-linear local embedding. <i>Machine Learning</i> , 2014, 97, 205-226.	3.4	2
244	Endmember Extraction Guided by Anomalies and Homogeneous Regions for Hyperspectral Images. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2014, 7, 3630-3639.	2.3	5
245	K-P-Means: A Clustering Algorithm of K "Purified" Means for Hyperspectral Endmember Estimation. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2014, 11, 1787-1791.	1.4	15
246	Sparsity and Structure in Hyperspectral Imaging : Sensing, Reconstruction, and Target Detection. <i>IEEE Signal Processing Magazine</i> , 2014, 31, 116-126.	4.6	157
247	A Data-Driven Stochastic Approach for Unmixing Hyperspectral Imagery. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2014, 7, 1936-1946.	2.3	20
248	Spatially Constrained Multiple Endmember Spectral Mixture Analysis for Quantifying Subpixel Urban Impervious Surfaces. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2014, 7, 1976-1984.	2.3	20
249	A New Digital Repository for Hyperspectral Imagery With Unmixing-Based Retrieval Functionality Implemented on GPUs. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2014, 7, 2267-2280.	2.3	10
250	Quantifying Nonlinear Spectral Mixing in Vegetated Areas: Computer Simulation Model Validation and First Results. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2014, 7, 1956-1965.	2.3	33
251	Spectral Unmixing-Based Crop Residue Estimation Using Hyperspectral Remote Sensing Data: A Case Study at Purdue University. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2014, 7, 2531-2539.	2.3	35
252	Non-Local Sparse Unmixing for Hyperspectral Remote Sensing Imagery. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2014, 7, 1889-1909.	2.3	113
253	An Automatic Robust Iteratively Reweighted Unstructured Detector for Hyperspectral Imagery. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2014, 7, 2367-2382.	2.3	27
254	Adaptive non-local Euclidean medians sparse unmixing for hyperspectral imagery. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2014, 97, 9-24.	4.9	29

#	ARTICLE	IF	CITATIONS
255	Confocal fluorescence microscopy and force-volume imaging in atomic force microscopy: A signal processing perspective. , 2014, , .		0
256	Successive Nonnegative Projection Algorithm for Robust Nonnegative Blind Source Separation. SIAM Journal on Imaging Sciences, 2014, 7, 1420-1450.	1.3	71
257	A novel approach to polarimetric SAR data processing based on Nonlinear PCA. Pattern Recognition, 2014, 47, 1953-1967.	5.1	20
258	Hyperspectral Image Segmentation Using a New Spectral Unmixing-Based Binary Partition Tree Representation. IEEE Transactions on Image Processing, 2014, 23, 3574-3589.	6.0	79
259	Subspace Matching Pursuit for Sparse Unmixing of Hyperspectral Data. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 3256-3274.	2.7	90
260	Ensemble Learning in Hyperspectral Image Classification: Toward Selecting a Favorable Bias-Variance Tradeoff. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 1089-1102.	2.3	44
261	Estimation of the Number of Endmembers Using Robust Outlier Detection Method. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 247-256.	2.3	31
262	A new unsupervised method for hyperspectral image unmixing using a linear-quadratic model. , 2014, , .		5
263	Joint denoising and unmixing for hyperspectral image. , 2014, , .		2
264	An improved weight-calculation non-local sparse unmixing for hyperspectral imagery. , 2014, , .		0
265	Robust unmixing using consensus analysis. , 2014, , .		0
266	Nonlinear unmixing of vegetated areas: A model comparison based on simulated and real hyperspectral data. , 2014, , .		0
267	Validating nonlinear mixing models: Benchmark datasets from vegetated areas. , 2014, , .		3
268	Unmixing multiple intimate mixtures using manifold clustering. , 2014, , .		1
269	Enhancing pure-pixel identification performance via preconditioning. , 2014, , .		0
270	Binary partition tree-based local spectral unmixing. , 2014, , .		5
271	Testing linear spectral unmixing on laboratory mixtures: Application to VIR data for asteroid Vesta. , 2014, , .		0
272	Non-linear hyperspectral unmixing by polytope decomposition. , 2014, , .		8

#	ARTICLE	IF	CITATIONS
273	Endmember constrained semi-supervised hyperspectral unmixing. , 2014, , .		4
274	On the use of ritz values for calculating the number of endmembers in hyperspectral images. , 2014, , .		0
275	Characterization of hyperspectral images prior to unmixing, based on eigendecompositions and sum-to-one condition. , 2014, , .		1
276	Applying region growing algorithm to hyperspectral image for oil segmentation. Proceedings of SPIE, 2014, , .	0.8	2
277	Endmember representation of human geography layers. , 2014, , .		2
278	Nonlinear hyperspectral unmixing based on constrained multiple kernel NMF. , 2014, , .		0
279	A novel highly parallel algorithm for linearly unmixing hyperspectral images. Proceedings of SPIE, 2014, , .	0.8	0
280	An end-member based ordering relation for the morphological description of hyperspectral images. , 2014, , .		5
281	On the acceleration of the N-FINDER algorithm for hyperspectral endmembers extraction. , 2014, , .		1
282	A Novel Sparsity-Based Framework Using Max Pooling Operation for Hyperspectral Image Classification. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 3570-3576.	2.3	7
283	Reduced near border set for endmember extraction. Optik, 2015, 126, 4424-4431.	1.4	2
284	Spatial and spectral preprocessor for spectral mixture analysis of synthetic remotely sensed hyperspectral image. , 2015, , .		0
285	Hyperspectral Unmixing Via Turbo Bilinear Approximate Message Passing. IEEE Transactions on Computational Imaging, 2015, 1, 143-158.	2.6	9
286	B-HYCA: Blind hyperspectral compressive sensing. , 2015, , .		2
287	Unconstrained Linear Spectral Mixture Models for Spatial Information Extraction: A Comparative Study. , 2015, , .		1
288	New methods for unmixing sediment grain size data. Geochemistry, Geophysics, Geosystems, 2015, 16, 4494-4506.	1.0	241
289	Robust linear spectral unmixing using outlier detection. , 2015, , .		2
290	Kernel-Based Nonlinear Signal Processing. , 2015, , 29-50.		0

#	ARTICLE	IF	CITATIONS
291	Spectral Raman unmixing from CASSI system compressive measurements. , 2015, , .		1
292	Spatial preprocessing for spectral endmember extraction by local linear embedding. , 2015, , .		2
293	A fast hyperplane-based MVES algorithm for hyperspectral unmixing. , 2015, , .		3
294	Simultaneous clustering and embedding for multiple intimate mixtures. , 2015, , .		2
295	Spectralâ€“spatial hyperspectral classification based on multi-center SAM and MRF. Optical Review, 2015, 22, 911-918.	1.2	8
296	FuzzyVD: An algorithm that uses fuzzy logic and fuzzy systems to estimate the number of endmembers present in a hyperspectral image. , 2015, , .		0
297	Hyperspectral Compressive Sensing Using Manifold-Structured Sparsity Prior. , 2015, , .		14
298	A perturbed linear mixing model accounting for spectral variability. , 2015, , .		1
299	Estimation of atmospheric PSF parameters for hyperspectral imaging. Numerical Linear Algebra With Applications, 2015, 22, 795-813.	0.9	3
300	Complete determination of plant tissues based only on autoâ€“fluorescence and the advanced image analysis â€“ study of needles and stamens. Journal of Chemometrics, 2015, 29, 521-527.	0.7	0
301	Semi-realistic simulations of natural hyperspectral scenes. , 2015, , .		1
302	Spatially informed spectral unmixing. , 2015, , .		0
303	GPU implementation of a constrained hyperspectral coded aperture algorithm for compressive sensing. , 2015, , .		0
304	Multiple graph regularized NMF for hyperspectral unmixing. , 2015, , .		5
305	FPGA implementation of a maximum volume algorithm for endmember extraction from hyperspectral imagery. , 2015, , .		2
306	Blind hyperspectral unmixing using an extended linear mixing model to address spectral variability. , 2015, , .		8
307	Potential and limitations of band selection and library pruning in sparse hyperspectral unmixing. , 2015, , .		4
308	Hyperspectral image unmixing using autoencoder cascade. , 2015, , .		71

#	ARTICLE	IF	CITATIONS
309	Swarm intelligence: A reliable solution for extracting endmembers from hyperspectral imagery. , 2015, , .		3
310	Hyperspectral imaging technique for plant leaf identification. , 2015, , .		3
311	Entrauschungsalgorithmus für Hyperspektralbilder mit Poisson-Statistik. , 2015, , 91-98.		2
312	Restoration of Simulated EnMAP Data through Sparse Spectral Unmixing. Remote Sensing, 2015, 7, 13190-13207.	1.8	7
313	Using Class Probabilities to Map Gradual Transitions in Shrub Vegetation from Simulated EnMAP Data. Remote Sensing, 2015, 7, 10668-10688.	1.8	19
314	An Endmember Extraction Method Based on Artificial Bee Colony Algorithms for Hyperspectral Remote Sensing Images. Remote Sensing, 2015, 7, 16363-16383.	1.8	17
315	A method based on nonnegative matrix factorization dealing with intra-class variability for unsupervised hyperspectral unmixing. , 2015, , .		2
316	Robust collaborative nonnegative matrix factorization for hyperspectra unmixing (R-CONMF). , 2015, , .		0
317	Restoration of EnMAP data through sparse reconstruction. , 2015, , .		0
318	Hyperspectral compressive acquisition in the spatial domain via blind factorization. , 2015, , .		5
319	Bayesian fusion of multispectral and hyperspectral images using a block coordinate descent method. , 2015, , .		4
320	A spatial compositional model for linear unmixing. , 2015, , .		0
321	A novel approach for endmember bundle extraction using spectral space splitting. , 2015, , .		1
322	Hyperspectral change detection by sparse unmixing with dictionary pruning. , 2015, , .		6
323	Jointly spatial-spectral resolution enhancement of hyperspectral imagery. , 2015, , .		0
324	When can the minimum volume enclosing simplex identify the endmembers correctly when there is no pure pixel?. , 2015, , .		0
325	Performance guarantees for sparse regression-based unmixing. , 2015, , .		2
326	Nonlinear unmixing with a multilinear mixing model. , 2015, , .		1

#	ARTICLE	IF	CITATIONS
327	A hyperspectral image spectral unmixing method integrating slic superpixel segmentation. , 2015, , .		3
328	Linear spectral unmixing using collaborative sparse regression and correlated supports. , 2015, , .		0
329	Characterizing dark spectra in mercury surface observations by nonlinear hyperspectral modeling. , 2015, , .		2
330	Graph regularized coupled spectral unmixing for change detection. , 2015, , .		7
331	Backtracking-Based Simultaneous Orthogonal Matching Pursuit for Sparse Unmixing of Hyperspectral Data. Mathematical Problems in Engineering, 2015, 2015, 1-17.	0.6	1
332	Enhancing Pure-Pixel Identification Performance via Preconditioning. SIAM Journal on Imaging Sciences, 2015, 8, 1161-1186.	1.3	9
333	Nonlinear Hyperspectral Unmixing Using Nonlinearity Order Estimation and Polytope Decomposition. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 2644-2654.	2.3	35
334	Target Detection Based on Random Forest Metric Learning. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 1830-1838.	2.3	103
335	A Novel Negative Abundance-Oriented Hyperspectral Unmixing Algorithm. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 3772-3790.	2.7	24
336	Hyperspectral Super-Resolution by Coupled Spectral Unmixing. , 2015, , .		256
337	Bayesian Nonlinear Hyperspectral Unmixing With Spatial Residual Component Analysis. IEEE Transactions on Computational Imaging, 2015, 1, 174-185.	2.6	28
338	Nonlinear endmember extraction in earth observations and astroinformatics data interpretation and compression. , 2015, , .		1
339	Hyperspectral data multi-sharpening based on linear-quadratic nonnegative matrix factorization. , 2015, , .		6
340	Hyperspectral unmixing with projection onto convex sets using distance geometry. , 2015, , .		0
341	FPGA-based architecture for hyperspectral unmixing. , 2015, , .		2
342	A steerable filter bank approach to endmembers estimation in imaging spectroscopy. , 2015, , .		1
343	Variational blind source separation toolbox and its application to hyperspectral image data. , 2015, , .		1
344	GPU implementation of a hyperspectral coded aperture algorithm for compressive sensing. , 2015, , .		2

#	ARTICLE	IF	CITATIONS
345	Nonlinear spectral unmixing using residual component analysis and a Gamma Markov random field. , 2015, , .		0
346	A fast parallel hyperspectral coded aperture algorithm for compressive sensing using OpenCL. , 2015, , .		4
347	Hyperspectral compressive sensing from spectral projections. , 2015, , .		3
348	Hyperspectral image classification based on union of subspaces. , 2015, , .		4
349	A novel hardware-friendly algorithm for hyperspectral linear unmixing. , 2015, , .		0
350	Multilinear spectral unmixing of hyperspectral multiangle images. , 2015, , .		5
351	Endmember extraction using a novel Cluster-based Spatial Border Removal Preprocessor. , 2015, , .		8
352	GPU implementation of spatial preprocessing for spectral unmixing of hyperspectral data. , 2015, , .		4
353	Total variation and ℓ_1/ℓ_2 based hyperspectral unmixing for feature extraction and classification. , 2015, , .		0
354	Multiple endmembers based unmixing using Archetypal Analysis. , 2015, , .		7
355	Land cover fraction estimation with global endmembers using collaborative SUnSAL. Proceedings of SPIE, 2015, , .	0.8	0
356	Numerical strategies for magnetic mineral unmixing. Earth-Science Reviews, 2015, 150, 256-284.	4.0	62
357	A short survey of hyperspectral remote sensing and hyperspectral remote sensing research at tübıtak Uzay. , 2015, , .		5
358	Minimum Volume Simplex Analysis: A Fast Algorithm for Linear Hyperspectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 5067-5082.	2.7	165
359	Identifiability of the Simplex Volume Minimization Criterion for Blind Hyperspectral Unmixing: The No-Pure-Pixel Case. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 5530-5546.	2.7	76
360	Finding Virtual Signatures for Linear Spectral Mixture Analysis. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 2704-2719.	2.3	3
361	Sparse Unmixing-Based Content Retrieval of Hyperspectral Images on Graphics Processing Units. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 2443-2447.	1.4	5
362	Anomaly detection and estimation in hyperspectral imaging using Random Matrix Theory tools. , 2015, , .		4

#	ARTICLE	IF	CITATIONS
363	Multilayer manifold and sparsity constrained nonnegative matrix factorization for hyperspectral unmixing. , 2015, , .		9
364	Panchromatic image processing using hyperspectral unmixing method. , 2015, , .		1
365	Generalized inpainting method for hyperspectral image acquisition. , 2015, , .		12
366	Local hyperspectral data multisharpening based on linear/linear-quadratic nonnegative matrix factorization by integrating lidar data. Proceedings of SPIE, 2015, , .	0.8	2
367	Parallel GPU architecture for hyperspectral unmixing based on augmented Lagrangian method. , 2015, , .		1
368	Simplex Projection for Land Cover Information Mining from Landsat-5 TM Data. , 2015, , .		1
369	Minimizing Reflectance Anisotropy Effects in Airborne Spectroscopy Data Using Rossâ€“Li Model Inversion With Continuous Field Land Cover Stratification. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 5814-5823.	2.7	15
370	RVC-CAL library for endmember and abundance estimation in hyperspectral image analysis. Proceedings of SPIE, 2015, , .	0.8	0
371	Parallel implementation of the multiple endmember spectral mixture analysis algorithm for hyperspectral unmixing. , 2015, , .		1
372	Convex Optimization-Based Compartmental Pharmacokinetic Analysis for Prostate Tumor Characterization Using DCE-MRI. IEEE Transactions on Biomedical Engineering, 2015, 63, 1-1.	2.5	12
373	Deriving Regional Crown Closure Using Spectral Mixture Analysis Based on Up-Scaling Endmember Extraction Approach and Validation. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 2560-2568.	2.3	1
374	Exploring the performanceâ€“powerâ€“energy balance of low-power multicore and manycore architectures for anomaly detection in remote sensing. Journal of Supercomputing, 2015, 71, 1893-1906.	2.4	6
375	A Physics-Based Unmixing Method to Estimate Subpixel Temperatures on Mixed Pixels. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 1894-1906.	2.7	27
376	A Convex Formulation for Hyperspectral Image Superresolution via Subspace-Based Regularization. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 3373-3388.	2.7	529
377	An Image-Based Endmember Bundle Extraction Algorithm Using Both Spatial and Spectral Information. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 2607-2617.	2.3	50
378	Linear Spectral Mixture Analysis via Multiple-Kernel Learning for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 2254-2269.	2.7	22
379	Inferring biological tasks using Pareto analysis of high-dimensional data. Nature Methods, 2015, 12, 233-235.	9.0	145
380	Hyperspectral and Multispectral Image Fusion Based on a Sparse Representation. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 3658-3668.	2.7	488

#	ARTICLE	IF	CITATIONS
381	An Improved Nonlocal Sparse Unmixing Algorithm for Hyperspectral Imagery. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 915-919.	1.4	25
382	Substance Dependence Constrained Sparse NMF for Hyperspectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 2975-2986.	2.7	58
383	Complementarity of Discriminative Classifiers and Spectral Unmixing Techniques for the Interpretation of Hyperspectral Images. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 2899-2912.	2.7	24
384	Multiple Algorithm Integration Based on Ant Colony Optimization for Endmember Extraction From Hyperspectral Imagery. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 2569-2582.	2.3	27
385	Joint Sparsity Model for Multilook Hyperspectral Image Unmixing. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 696-700.	1.4	24
386	Calculation of Membrane Lipid Ratios Using Single-Pixel Time-of-Flight Secondary Ion Mass Spectrometry Analysis. Analytical Chemistry, 2015, 87, 7795-7802.	3.2	2
387	Spectral analysis of the quadrangles Av-13 and Av-14 on Vesta. Icarus, 2015, 259, 181-193.	1.1	9
388	Enhanced Unmixing-Based Hyperspectral Image Denoising Using Spatial Preprocessing. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 2720-2727.	2.3	15
389	Automatic Extraction of Optimal Endmembers from Airborne Hyperspectral Imagery Using Iterative Error Analysis (IEA) and Spectral Discrimination Measurements. Sensors, 2015, 15, 2593-2613.	2.1	5
390	Directly Estimating Endmembers for Compressive Hyperspectral Images. Sensors, 2015, 15, 9305-9323.	2.1	3
391	A Review of the Hyperspectral Unmixing Methods that Based on Constrained NMF and Constrained Sparse Regression. Applied Mechanics and Materials, 0, 713-715, 1540-1545.	0.2	0
392	Fusion of Hyperspectral and LiDAR Remote Sensing Data Using Multiple Feature Learning. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 2971-2983.	2.3	139
393	Hyperspectral Image Denoising via Noise-Adjusted Iterative Low-Rank Matrix Approximation. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 3050-3061.	2.3	205
394	Classification of Hyperspectral Images by Exploiting Spectral Spatial Information of Superpixel via Multiple Kernels. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 6663-6674.	2.7	326
395	Subspace Vertex Pursuit: A Fast and Robust Near-Separable Nonnegative Matrix Factorization Method for Hyperspectral Unmixing. IEEE Journal on Selected Topics in Signal Processing, 2015, 9, 1142-1155.	7.3	17
396	HYCA: A New Technique for Hyperspectral Compressive Sensing. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 2819-2831.	2.7	85
397	FPGA Implementation of the HySime Algorithm for the Determination of the Number of Endmembers in Hyperspectral Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 2870-2883.	2.3	19
398	Optimizing the Endmembers Using Volume Invariant Constrained Model. IEEE Transactions on Image Processing, 2015, 24, 3441-3449.	6.0	11

#	ARTICLE	IF	CITATIONS
399	GPU Implementation of Iterative-Constrained Endmember Extraction from Remotely Sensed Hyperspectral Images. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 2939-2949.	2.3	12
400	Characterizing changes in grassland desertification based on Landsat images of the Ongniud and Naiman Banners, Inner Mongolia. International Journal of Remote Sensing, 2015, 36, 5137-5149.	1.3	7
401	Design and Development of Iterative Pixel Purity Index. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 2676-2695.	2.3	12
402	Learning Discriminative Sparse Representations for Hyperspectral Image Classification. IEEE Journal on Selected Topics in Signal Processing, 2015, 9, 1089-1104.	7.3	47
403	Sub-Pixel Mapping Based on Conditional Random Fields for Hyperspectral Remote Sensing Imagery. IEEE Journal on Selected Topics in Signal Processing, 2015, 9, 1049-1060.	7.3	34
404	A Convex Geometry-Based Blind Source Separation Method for Separating Nonnegative Sources. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 1635-1644.	7.2	11
405	Spatio-spectral hybrid compressive sensing of hyperspectral imagery. Remote Sensing Letters, 2015, 6, 199-208.	0.6	11
406	A Scalable and Dynamically Reconfigurable FPGA-Based Embedded System for Real-Time Hyperspectral Unmixing. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 2894-2911.	2.3	12
407	Adaptive $\{L\}_{1/2}$ Sparsity-Constrained NMF With Half-Thresholding Algorithm for Hyperspectral Unmixing. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 2618-2631.	2.3	42
408	Functions of Multiple Instances for Learning Target Signatures. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 4670-4686.	2.7	36
409	Dual-Mode FPGA Implementation of Target and Anomaly Detection Algorithms for Real-Time Hyperspectral Imaging. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 2950-2961.	2.3	39
410	Fast and Reliable Noise Estimation for Hyperspectral Subspace Identification. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 1199-1203.	1.4	4
411	Cluster-based Spatial Border Removal Preprocessor for improvement of endmember extraction in real remotely sensed hyperspectral image. , 2015, , .		2
412	Nonlinear Hyperspectral Unmixing With Robust Nonnegative Matrix Factorization. IEEE Transactions on Image Processing, 2015, 24, 4810-4819.	6.0	147
413	A geometrical blind separation method for unconstrained-sum locally dominant sources. , 2015, , .		2
414	HyperMix: An Open-Source Tool for Fast Spectral Unmixing on Graphics Processing Units. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 1883-1887.	1.4	8
415	Analytical design and implementation of an imaging spectrometer. Applied Optics, 2015, 54, 517.	0.9	12
416	Collaborative sparse regression using spatially correlated supports - Application to hyperspectral unmixing. IEEE Transactions on Image Processing, 2015, 24, 5800-5811.	6.0	32

#	ARTICLE	IF	CITATIONS
417	A new Bayesian unmixing algorithm for hyperspectral images mitigating endmember variability. , 2015, , .		5
418	Hyperspectral Image Denoising Using a Spatialâ€“Spectral Monte Carlo Sampling Approach. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 3025-3038.	2.3	19
419	Normal Endmember Spectral Unmixing Method for Hyperspectral Imagery. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 2598-2606.	2.3	24
420	Hyperspectral Pansharpener: A Review. IEEE Geoscience and Remote Sensing Magazine, 2015, 3, 27-46.	4.9	593
421	Effect of endmember clustering on proportion estimation: results on the SHARE 2012 dataset. Proceedings of SPIE, 2015, , .	0.8	0
422	Progressive Band Processing of Linear Spectral Unmixing for Hyperspectral Imagery. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 2583-2597.	2.3	13
423	Equivalent-Sparse Unmixing Through Spatial and Spectral Constrained Endmember Selection From an Image-Derived Spectral Library. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 2665-2675.	2.3	22
424	Geometric Nonnegative Matrix Factorization (GNMF) for Hyperspectral Unmixing. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 2696-2703.	2.3	25
425	Projection-Based NMF for Hyperspectral Unmixing. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 2632-2643.	2.3	40
426	Self-Dictionary Sparse Regression for Hyperspectral Unmixing: Greedy Pursuit and Pure Pixel Search Are Related. IEEE Journal on Selected Topics in Signal Processing, 2015, 9, 1128-1141.	7.3	56
427	A Novel Approach for Efficient ℓ_1/ℓ_2 -Linear Hyperspectral Unmixing. IEEE Journal on Selected Topics in Signal Processing, 2015, 9, 1156-1168.	7.3	50
428	An Agent-Based Artificial Bee Colony (ABC) Algorithm for Hyperspectral Image Endmember Extraction in Parallel. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 4657-4664.	2.3	25
429	Mineral abundances and different levels of alteration around Mawrth Vallis, Mars. Geoscience Frontiers, 2015, 6, 741-758.	4.3	3
430	Nonnegative matrix factorization with gradient vertex pursuit. , 2015, , .		2
431	Adaptive artificial bee colony based parameter selection for subpixel mapping multiagent system in remote-sensing imagery. , 2015, , .		0
432	Segmented minimum noise fraction transformation for efficient feature extraction of hyperspectral images. Pattern Recognition, 2015, 48, 3216-3226.	5.1	44
433	A New Fast Algorithm for Linearly Unmixing Hyperspectral Images. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 6752-6765.	2.7	45
434	Robust Linear Spectral Unmixing Using Anomaly Detection. IEEE Transactions on Computational Imaging, 2015, 1, 74-85.	2.6	41

#	ARTICLE	IF	CITATIONS
435	Spectral Unmixing of Multispectral Lidar Signals. IEEE Transactions on Signal Processing, 2015, 63, 5525-5534.	3.2	20
436	Cloud removal in image time series through unmixing. , 2015, , .		1
437	Unsupervised Unmixing of Hyperspectral Images Accounting for Endmember Variability. IEEE Transactions on Image Processing, 2015, 24, 4904-4917.	6.0	53
438	Robust Hyperspectral Unmixing With Correntropy-Based Metric. IEEE Transactions on Image Processing, 2015, 24, 4027-4040.	6.0	57
439	An automatic approach for urban land-cover classification from Landsat-8 OLI data. International Journal of Remote Sensing, 2015, 36, 5983-6007.	1.3	22
440	Hyper-Spectral Image Analysis With Partially Latent Regression and Spatial Markov Dependencies. IEEE Journal on Selected Topics in Signal Processing, 2015, 9, 1037-1048.	7.3	7
441	Spectral Spatial Classification of Hyperspectral Images via Spatial Translation-Invariant Wavelet-Based Sparse Representation. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 2696-2712.	2.7	46
442	Unsupervised joint decomposition of a spectroscopic signal sequence. Signal Processing, 2015, 109, 193-205.	2.1	9
443	Real-time implementation of remotely sensed hyperspectral image unmixing on GPUs. Journal of Real-Time Image Processing, 2015, 10, 469-483.	2.2	42
444	Spectral Unmixing of Hyperspectral Imagery Using Multilayer NMF. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 38-42.	1.4	116
445	Fast Subpixel Mapping Algorithms for Subpixel Resolution Change Detection. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 1692-1706.	2.7	44
446	Collaborative Representation for Hyperspectral Anomaly Detection. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 1463-1474.	2.7	484
447	A comparison of STARFM and an unmixing-based algorithm for Landsat and MODIS data fusion. Remote Sensing of Environment, 2015, 156, 34-44.	4.6	284
448	A Geometric Matched Filter for Hyperspectral Target Detection and Partial Unmixing. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 661-665.	1.4	13
449	An infinite Gaussian mixture model with its application in hyperspectral unmixing. Expert Systems With Applications, 2015, 42, 1987-1997.	4.4	10
450	An Abundance Characteristic-Based Independent Component Analysis for Hyperspectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 416-428.	2.7	33
451	Constrained Least Squares Algorithms for Nonlinear Unmixing of Hyperspectral Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 1287-1303.	2.7	26
452	An Adaptive Subpixel Mapping Method Based on MAP Model and Class Determination Strategy for Hyperspectral Remote Sensing Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 1411-1426.	2.7	78

#	ARTICLE	IF	CITATIONS
453	Subspace-Based Support Vector Machines for Hyperspectral Image Classification. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 349-353.	1.4	93
454	When Pixels Team up: Spatially Weighted Sparse Coding for Hyperspectral Image Classification. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 107-111.	1.4	24
455	Hierarchical Clustering of Hyperspectral Images Using Rank-Two Nonnegative Matrix Factorization. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 2066-2078.	2.7	95
456	A Geometric Unmixing Concept for the Selection of Optimal Binary Endmember Combinations. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 82-86.	1.4	8
457	Spatial-Aware Dictionary Learning for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 527-541.	2.7	115
458	Futuristic Greedy Approach to Sparse Unmixing of Hyperspectral Data. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 2157-2174.	2.7	27
459	Land Cover Change Detection at Subpixel Resolution With a Hopfield Neural Network. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 1339-1352.	2.3	66
460	Hyperspectral unmixing based on iteratively re-weighted smoothed l_1 regularization. International Journal of Wireless and Mobile Computing, 2016, 11, 228.	0.1	0
461	Spectral Resolution Enhancement of Hyperspectral Images via Sparse Representations. IS&T International Symposium on Electronic Imaging, 2016, 2016, 1-6.	0.3	8
462	Distributed Parallel Endmember Extraction of Hyperspectral Data Based on Spark. Scientific Programming, 2016, 2016, 1-9.	0.5	2
463	Spectral-Spatial Unmixing Approaches in Hyperspectral VNIR/SWIR Imaging. Data Handling in Science and Technology, 2016, 30, 579-611.	3.1	1
464	An Improved STARFM with Help of an Unmixing-Based Method to Generate High Spatial and Temporal Resolution Remote Sensing Data in Complex Heterogeneous Regions. Sensors, 2016, 16, 207.	2.1	57
465	Hyperspectral Unmixing from Incomplete and Noisy Data. Journal of Imaging, 2016, 2, 7.	1.7	3
466	Potential of Resolution-Enhanced Hyperspectral Data for Mineral Mapping Using Simulated EnMAP and Sentinel-2 Images. Remote Sensing, 2016, 8, 172.	1.8	112
467	l_0 -Norm Sparse Hyperspectral Unmixing Using Arctan Smoothing. Remote Sensing, 2016, 8, 187.	1.8	22
468	Spectral-Spatial Hyperspectral Image Classification Using Subspace-Based Support Vector Machines and Adaptive Markov Random Fields. Remote Sensing, 2016, 8, 355.	1.8	69
469	Hyperspectral Unmixing via Double Abundance Characteristics Constraints Based NMF. Remote Sensing, 2016, 8, 464.	1.8	30
470	Spatial-Temporal Sub-Pixel Mapping Based on Swarm Intelligence Theory. Remote Sensing, 2016, 8, 894.	1.8	26

#	ARTICLE	IF	CITATIONS
471	A Gaussian mixture model representation of endmember variability for spectral unmixing. , 2016, , .		2
472	The linear mixed model constrained particle swarm optimization for hyperspectral endmember extraction from highly mixed data. , 2016, , .		1
473	From local to global unmixing of hyperspectral images to reveal spectral variability. , 2016, , .		3
474	Subsurface linear unmixing on a controlled underwater enviroment. , 2016, , .		0
475	Manifold regularization for sparse unmixing of hyperspectral images. SpringerPlus, 2016, 5, 2007.	1.2	6
476	Sparse filtering based hyperspectral unmixing. , 2016, , .		2
477	Improved discrete swarm intelligence algorithms for endmember extraction in hyperspectral remote sensing image. , 2016, , .		0
478	Sparse hyperspectral unmixing with spatial discontinuity preservation. , 2016, , .		0
479	Unmixing-based gas plume tracking in LWIR hyperspectral video sequences. , 2016, , .		6
480	Effects of the multiscaled-band partitioning on the abundance estimation. , 2016, , .		0
481	Snow cover estimation based on spectral unmixing. , 2016, , .		1
482	Processing Hyperspectral Images. , 2016, , 163-200.		11
483	Blind Hyperspectral Unmixing Using an Extended Linear Mixing Model to Address Spectral Variability. IEEE Transactions on Image Processing, 2016, 25, 3890-3905.	6.0	167
485	Adaptive Spatial Regularization Sparse Unmixing Strategy Based on Joint MAP for Hyperspectral Remote Sensing Imagery. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 5791-5805.	2.3	21
486	Spectral Unmixing Using a Sparse Multiple-Endmember Spectral Mixture Model. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 5846-5861.	2.7	20
487	Minimum-volume-regularized weighted symmetric nonnegative matrix factorization for clustering. , 2016, , .		6
488	Extracting pure endmembers using symmetric sparse representation for hyperspectral imagery. Journal of Applied Remote Sensing, 2016, 10, 045023.	0.6	2
489	Parallel hyperspectral image reconstruction using random projections. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
490	Robust sparse unmixing of hyperspectral data. , 2016, , .		1
491	Mapping the urban surface in a sub-pixel level with multispectral high resolution satellite imagery. , 2016, , .		0
492	Hyperspectral unmixing based on weighted abundance vector regularization. , 2016, , .		1
493	Spatial regularization for nonlinear unmixing of hyperspectral data with vector-valued kernel functions. , 2016, , .		1
494	Dehazing method for hyperspectral remote sensing imagery with hyperspectral linear unmixing. , 2016, , .		2
495	Kernels for scalable data analysis in science: Towards an architecture-portable future. , 2016, , .		0
496	Bilateral filtering abundance features for multilayer unmixing. , 2016, , .		0
497	A local extrema based method on 2D brightness temperature maps for detection of archaeological artifacts. , 2016, , .		2
498	Canonical polyadic decomposition of hyperspectral patch tensors. , 2016, , .		4
499	A particle swarm optimization algorithm for unmixing the polynomial post-nonlinear mixing model. , 2016, , .		2
500	Unsupervised geometrical feature learning from hyperspectral data. , 2016, , .		7
501	Robust volume minimization-based matrix factorization via alternating optimization. , 2016, , .		4
502	Improved discrete swarm intelligence algorithms for endmember extraction from hyperspectral remote sensing images. Journal of Applied Remote Sensing, 2016, 10, 045018.	0.6	5
503	Discriminative archetypal self-taught learning for multispectral landcover classification. , 2016, , .		1
504	Automated extraction of image-based endmember bundles of impervious layer using iterative classification strategy. , 2016, , .		0
505	Hyperspectral images unmixing with rare signals. , 2016, , .		2
506	Hyperspectral endmember extraction and unmixing by a novel spatial-spectral preprocessing module. , 2016, , .		4
507	Double reweighted sparse regression for hyperspectral unmixing. , 2016, , .		35

#	ARTICLE	IF	CITATIONS
508	Hyperspectral image super-resolution using sparse spectral unmixing and low-rank constraints. , 2016, , .		0
509	Superpixel-based sparse representation classifier for hyperspectral image. , 2016, , .		7
510	Subspace selection for hyperspectral pansharpening using sparse unmixing. , 2016, , .		0
511	ADMM for maximum correntropy criterion. , 2016, , .		0
512	Binary codes K-modes clustering for HSI segmentation. , 2016, , .		2
513	Distributed dyadic cyclic descent for non-negative matrix factorization. , 2016, , .		2
514	Image patch analysis of sunspots and active regions. Journal of Space Weather and Space Climate, 2016, 6, A3.	1.1	6
515	Hyperspectral classification with adaptively weighted li-norm regularization. , 2016, , .		0
516	A cholesterol lesion detection approach based on SVD decomposition. , 2016, , .		2
517	Particle swarm optimization for nonlinear spectral unmixing: A case study of generalized bilinear model. , 2016, , .		3
518	Unmixing multitemporal hyperspectral images with variability: An online algorithm. , 2016, , .		2
519	Nonnegative matrix factorization with endmember sparse graph learning for hyperspectral unmixing. , 2016, , .		4
520	Hyperspectral unmixing based on L1-L2 sparsity and total variation. , 2016, , .		1
521	Local abundance regularization for hyperspectral sparse unmixing. , 2016, , .		4
522	Robust nonlinear unmixing of hyperspectral images with a linear-mixture/nonlinear-fluctuation model. , 2016, , .		3
523	Hyperspectral unmixing using total variation regularized reweighted sparse non-negative matrix factorization. , 2016, , .		3
524	Pansharpening remotely sensed data by using nonnegative matrix factorization and spectral-spatial degradation models. Proceedings of SPIE, 2016, , .	0.8	0
525	A fully constraint abundance estimation algorithm with high accurateness. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
526	Semi-realistic Simulations of Natural Hyperspectral Scenes. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 4407-4419.	2.3	9
527	Hyperspectral Local Intrinsic Dimensionality. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 4063-4078.	2.7	10
528	Recursive Orthogonal Projection-Based Simplex Growing Algorithm. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 3780-3793.	2.7	13
529	Cloud Removal in Image Time Series Through Sparse Reconstruction From Random Measurements. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 3615-3628.	2.3	9
530	Dynamical Spectral Unmixing of Multitemporal Hyperspectral Images. IEEE Transactions on Image Processing, 2016, 25, 3219-3232.	6.0	52
531	Hyperspectral Unmixing With Endmember Variability via Alternating Angle Minimization. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 4983-4993.	2.7	19
532	Hyperspectral Unmixing Based on Local Collaborative Sparse Regression. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 631-635.	1.4	63
533	Nonlinear Spectral Unmixing of Landsat Imagery for Urban Surface Cover Mapping. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 3340-3350.	2.3	37
534	Parallel Hyperspectral Unmixing Method via Split Augmented Lagrangian on GPU. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 626-630.	1.4	9
535	A Fast Spatial Spectral Preprocessing Module for Hyperspectral Endmember Extraction. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 782-786.	1.4	18
536	Detection of Alteration Minerals Using Hyperion Data Analysis in Lahroud. Journal of the Indian Society of Remote Sensing, 2016, 44, 713-721.	1.2	8
537	Novel method for hyperspectral unmixing: fuzzy c-means unmixing. Sensor Review, 2016, 36, 184-192.	1.0	3
538	Semi-blind source separation for the estimation of the clay content over semi-vegetated areas using VNIR/SWIR hyperspectral airborne data. Remote Sensing of Environment, 2016, 181, 251-263.	4.6	31
539	Spectral-spatial constrained sparse unmixing of hyperspectral imagery using a hybrid spectral library. Remote Sensing Letters, 2016, 7, 641-650.	0.6	5
540	Performance Enhancement of Minimum Volume-Based Hyperspectral Unmixing Algorithms by Empirical Wavelet Transform. Advances in Intelligent Systems and Computing, 2016, , 251-256.	0.5	0
541	Non-negative matrix factorization based unmixing for principal component transformed hyperspectral data. Frontiers of Information Technology and Electronic Engineering, 2016, 17, 403-412.	1.5	18
542	Collaborative Unmixing Hyperspectral Imagery via Nonnegative Matrix Factorization. Lecture Notes in Computer Science, 2016, , 118-126.	1.0	10
543	Seminonlinear spectral unmixing using a neural network-based forward modeling. Journal of Applied Remote Sensing, 2016, 10, 036006.	0.6	6

#	ARTICLE	IF	CITATIONS
544	A sparse unmixing model based on NMF and its application in Raman image. <i>Neurocomputing</i> , 2016, 207, 120-130.	3.5	12
545	HyperMix: A New Tool for Higher Education of Computer and Remote Sensing Engineers. <i>Procedia, Social and Behavioral Sciences</i> , 2016, 228, 59-65.	0.5	0
546	Robust multitask learning with three-dimensional empirical mode decomposition-based features for hyperspectral classification. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2016, 121, 11-27.	4.9	5
547	Blind Hyperspectral Unmixing Using Total Variation and ℓ_1 Sparse Regularization. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2016, 54, 6371-6384.	2.7	41
548	Nonnegative-Matrix-Factorization-Based Hyperspectral Unmixing With Partially Known Endmembers. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2016, 54, 6531-6544.	2.7	48
549	Fast Three-Dimensional Empirical Mode Decomposition of Hyperspectral Images for Class-Oriented Multitask Learning. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2016, 54, 6625-6643.	2.7	6
550	Incorporating Spatial Information and Endmember Variability Into Unmixing Analyses to Improve Abundance Estimates. <i>IEEE Transactions on Image Processing</i> , 2016, 25, 5563-5575.	6.0	17
551	Multivariate Curve Resolution-Alternating Least Squares for Spectroscopic Data. <i>Data Handling in Science and Technology</i> , 2016, 30, 5-51.	3.1	37
552	Linear and Nonlinear Unmixing in Hyperspectral Imaging. <i>Data Handling in Science and Technology</i> , 2016, 30, 185-224.	3.1	38
553	A New Algorithm for Bilinear Spectral Unmixing of Hyperspectral Images Using Particle Swarm Optimization. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2016, 9, 5776-5790.	2.3	21
554	Nonconvex Regularization in Remote Sensing. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2016, 54, 6470-6480.	2.7	26
555	Joint Anomaly Detection and Spectral Unmixing for Planetary Hyperspectral Images. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2016, 54, 6879-6894.	2.7	13
556	Multiplexed fluorescence tomography with spectral and temporal data: demixing with intrinsic regularization. <i>Biomedical Optics Express</i> , 2016, 7, 111.	1.5	10
557	Regularized MSBL algorithm with spatial correlation for sparse hyperspectral unmixing. <i>Journal of Visual Communication and Image Representation</i> , 2016, 40, 525-537.	1.7	3
558	Endmember initialization method for hyperspectral data unmixing. <i>Journal of Applied Remote Sensing</i> , 2016, 10, 042009.	0.6	3
559	Poissonian Hyperspectral Image Superresolution Using Alternating Direction Optimization. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2016, 9, 4464-4479.	2.3	10
560	Robust Collaborative Nonnegative Matrix Factorization for Hyperspectral Unmixing. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2016, 54, 6076-6090.	2.7	162
561	Seizing on sparsity in nonlinear hyperspectral unmixing for enhanced image compression. <i>Journal of Applied Remote Sensing</i> , 2016, 10, 042007.	0.6	0

#	ARTICLE	IF	CITATIONS
562	Super-resolution algorithm based on sub-pixels spatial Correlation for hyperspectral image classification. , 2016, , .		0
563	Parallel implementation of the simplex growing algorithm for hyperspectral unmixing using OpenCL. , 2016, , .		2
564	Multiband Image Fusion Based on Spectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 7236-7249.	2.7	119
565	Spatial Spatial Feature Learning Using Cluster-Based Group Sparse Coding for Hyperspectral Image Classification. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 4142-4159.	2.3	26
566	Convex cone volume analysis for finding endmembers in hyperspectral imagery. International Journal of Computational Science and Engineering, 2016, 12, 209.	0.4	7
567	On the Use of Gaussian Random Processes for Probabilistic Interpolation of CubeSat Data in the Presence of Geolocation Error. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 2777-2793.	2.3	5
568	A survey of methods incorporating spatial information in image classification and spectral unmixing. International Journal of Remote Sensing, 2016, 37, 3870-3910.	1.3	56
569	Blind Hyperspectral Unmixing Using Deep-Independent Information. Lecture Notes in Computer Science, 2016, , 192-201.	1.0	0
570	Joint spatial variables nonnegative matrix factorization using constrained gradient method to pansharpen multispectral images. , 2016, , .		1
571	Subpixel mapping of hyperspectral images based on collaborative representation. , 2016, , .		2
572	Bilinear matrix factorization using a gradient method for hyperspectral endmember spectra extraction. , 2016, , .		2
573	Hyperspectral endmember spectra extraction based on constrained linear-quadratic matrix factorization using a projected gradient method. , 2016, , .		4
574	Hyperspectral image reconstruction from random projections on GPU. , 2016, , .		5
575	Multilayer Unmixing for Hyperspectral Imagery With Fast Kernel Archetypal Analysis. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 1532-1536.	1.4	9
576	Pure endmember extraction using SSR for Hyperspectral imagery. , 2016, , .		0
577	Hyperspectral Unmixing Based on Weighted L1/2 Regularization. , 2016, , .		2
578	Real-time orthogonal vector projection algorithm based on GPU. , 2016, , .		0
579	GPU Implementation of Spatial Spatial Preprocessing for Hyperspectral Unmixing. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 1671-1675.	1.4	8

#	ARTICLE	IF	CITATIONS
580	Spectral identification and quantification of salts in the Atacama Desert. , 2016, , .		2
581	Using Separable Nonnegative Matrix Factorization Techniques for the Analysis of Time-Resolved Raman Spectra. Applied Spectroscopy, 2016, 70, 1464-1475.	1.2	19
582	Spatial-spectral preprocessing for endmember extraction on GPU's. Proceedings of SPIE, 2016, , .	0.8	0
583	OpenCL-library-based implementation of SCLSU algorithm for remotely sensed hyperspectral data exploitation: cMAGMA versus viennaCL. Proceedings of SPIE, 2016, , .	0.8	0
584	A new semi-supervised classification strategy combining active learning and spectral unmixing of hyperspectral data. Proceedings of SPIE, 2016, , .	0.8	0
585	Fast Hyperspectral image Denoising based on low rank and sparse representations. , 2016, , .		18
586	Complete dictionary online learning for sparse unmixing. , 2016, , .		1
587	A Spatial Compositional Model for Linear Unmixing and Endmember Uncertainty Estimation. IEEE Transactions on Image Processing, 2016, 25, 5987-6002.	6.0	27
588	Region-Based Estimate of Endmember Variances for Hyperspectral Image Unmixing. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 1807-1811.	1.4	9
589	Statistically modelling and mining remotely sensed data in urban areas based on topic models " A conceptual analysis. , 2016, , .		1
590	Variability of the endmembers in spectral unmixing: Recent advances. , 2016, , .		27
591	Understanding spatial-spectral domain interactions in hyperspectral unmixing using exploratory data analysis. , 2016, , .		3
592	Hyperspectral unmixing by reweighted low rank and total variation. , 2016, , .		9
593	A linear-quadratic unsupervised hyperspectral unmixing method dealing with intra-class variability. , 2016, , .		4
594	Structured Discriminative Nonnegative Matrix Factorization for hyperspectral unmixing. , 2016, , .		3
595	Supervised planetary unmixing with optimal transport. , 2016, , .		1
596	Quality improvement of hyperspectral remote sensing images: A technical overview. , 2016, , .		1
597	M-estimation for robust sparse unmixing of hyperspectral images. , 2016, , .		2

#	ARTICLE	IF	CITATIONS
598	A priori fully constrained least squares spectral unmixing based on sparsity. , 2016, , .		1
599	Uncertainty propagation from atmospheric parameters to sparse hyperspectral unmixing. , 2016, , .		2
600	Sparse distributed hyperspectral unmixing. , 2016, , .		3
601	Hyperspectral unmixing with material variability using social sparsity. , 2016, , .		9
602	Multiplexed imaging of intracellular protein networks. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2016, 89, 761-775.	1.1	21
603	A map-based NMF approach to hyperspectral image unmixing using a linear-quadratic mixture model. , 2016, , .		3
604	Online Unmixing of Multitemporal Hyperspectral Images Accounting for Spectral Variability. IEEE Transactions on Image Processing, 2016, 25, 3979-3990.	6.0	32
605	Multiresolution Supervised Classification of Panchromatic and Multispectral Images by Markov Random Fields and Graph Cuts. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 5054-5070.	2.7	26
606	A Computationally Efficient Algorithm for Fusing Multispectral and Hyperspectral Images. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 5712-5728.	2.7	22
607	Automated Construction of Multiple Regional Libraries for Neighborhoodwise Local Multiple Endmember Unmixing. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 4232-4246.	2.3	14
608	Fast Multispectral Imaging by Spatial Pixel-Binning and Spectral Unmixing. IEEE Transactions on Image Processing, 2016, 25, 3612-3625.	6.0	9
609	Semiblind Hyperspectral Unmixing in the Presence of Spectral Library Mismatches. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 5171-5184.	2.7	75
610	Hyperspectral Blind Reconstruction From Random Spectral Projections. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 2390-2399.	2.3	48
611	Hyperspectral Image Classification by Fusing Collaborative and Sparse Representations. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 4178-4187.	2.3	61
612	Estimating forest species abundance through linear unmixing of CHRIS/PROBA imagery. ISPRS Journal of Photogrammetry and Remote Sensing, 2016, 119, 79-89.	4.9	33
613	Local spectral unmixing for target detection. , 2016, , .		3
614	Progressive band processing of fast iterative pixel purity index. Proceedings of SPIE, 2016, , .	0.8	0
615	Region-based collaborative sparse unmixing of hyperspectral imagery. Proceedings of SPIE, 2016, , .	0.8	0

#	ARTICLE	IF	CITATIONS
616	Optical unmixing using programmable spectral source based on DMD. Proceedings of SPIE, 2016, , .	0.8	0
617	Lithologic variation within bright material on Vesta revealed by linear spectral unmixing. Icarus, 2016, 272, 16-31.	1.1	9
618	Blind spectral unmixing based on sparse component analysis for hyperspectral remote sensing imagery. ISPRS Journal of Photogrammetry and Remote Sensing, 2016, 119, 49-63.	4.9	65
619	Enhancing Hyperspectral Endmember Extraction Using Clustering and Oversegmentation-Based Preprocessing. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 2400-2413.	2.3	20
620	Adaptive local thresholding for robust nucleus segmentation utilizing shape priors. , 2016, , .		0
621	Endmember orthonormal mapping in hyperspectral mixture analysis to address endmember variability. Earth Science Informatics, 2016, 9, 291-307.	1.6	2
622	Generation of remotely sensed reference data using low altitude, high spatial resolution hyperspectral imagery. Proceedings of SPIE, 2016, , .	0.8	1
623	Parallel implementation of a hyperspectral data geometry-based estimation of number of endmembers algorithm. Proceedings of SPIE, 2016, , .	0.8	0
624	System-on-chip field-programmable gate array design for onboard real-time hyperspectral unmixing. Journal of Applied Remote Sensing, 2016, 10, 015004.	0.6	3
625	Sparse Unmixing-Based Change Detection for Multitemporal Hyperspectral Images. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 708-719.	2.3	74
626	Quadratic blind linear unmixing: A graphical user interface for tissue characterization. Computer Methods and Programs in Biomedicine, 2016, 124, 148-160.	2.6	5
627	A Fast Hyperplane-Based Minimum-Volume Enclosing Simplex Algorithm for Blind Hyperspectral Unmixing. IEEE Transactions on Signal Processing, 2016, 64, 1946-1961.	3.2	55
628	Hypergraph-Regularized Sparse NMF for Hyperspectral Unmixing. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 681-694.	2.3	78
629	Coupled Sparse Denoising and Unmixing With Low-Rank Constraint for Hyperspectral Image. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 1818-1833.	2.7	73
630	A Hybrid CPUâ€“GPU Real-Time Hyperspectral Unmixing Chain. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 945-951.	2.3	35
631	Machine learning-based temporal mixture analysis of hypertemporal Antarctic sea ice data. Remote Sensing Letters, 2016, 7, 190-199.	0.6	7
632	A New Genetic Method for Subpixel Mapping Using Hyperspectral Images. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 4480-4491.	2.3	35
633	Uniformity-Based Superpixel Segmentation of Hyperspectral Images. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 1419-1430.	2.7	49

#	ARTICLE	IF	CITATIONS
634	Thin Cloud Removal Based on Signal Transmission Principles and Spectral Mixture Analysis. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 1659-1669.	2.7	53
635	Estimating the Intrinsic Dimension of Hyperspectral Images Using a Noise-Whitened Eigengap Approach. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 3811-3821.	2.7	20
636	Spatially resolved optical absorption spectroscopy of single- and few-layer MoS ₂ by hyperspectral imaging. Nanotechnology, 2016, 27, 115705.	1.3	145
637	Assessing the transferability of statistical predictive models for leaf area index between two airborne discrete return LiDAR sensor designs within multiple intensely managed Loblolly pine forest locations in the south-eastern USA. Remote Sensing of Environment, 2016, 176, 308-319.	4.6	27
638	Pansharpening multispectral remote sensing data by multiplicative joint nonnegative matrix factorization. International Journal of Remote Sensing, 2016, 37, 805-818.	1.3	8
639	Extraction of Endmembers From Hyperspectral Images Using A Weighted Fuzzy Purified-Means Clustering Model. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 695-707.	2.3	12
640	A new residual fusion classification method for hyperspectral images. International Journal of Remote Sensing, 2016, 37, 745-769.	1.3	2
641	Hyperspectral Unmixing in the Presence of Mixed Noise Using Joint-Sparsity and Total Variation. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 4257-4266.	2.3	53
642	Harmonic Mixture Modeling for Efficient Nonlinear Hyperspectral Unmixing. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 4247-4256.	2.3	33
643	Nonnegative Tensor CP Decomposition of Hyperspectral Data. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 2577-2588.	2.7	79
644	Hyperspectral Image Analysis by Spectral Spatial Processing and Anticipative Hybrid Extreme Rotation Forest Classification. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 2627-2639.	2.7	25
645	Linear Spatial Spectral Mixture Model. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 3599-3611.	2.7	21
646	A robust endmember constrained non-negative matrix factorization method for hyperspectral unmixing. , 2016, , .		0
647	A New Approach for Endmember Extraction and Clustering Addressing Inter- and Intra-Class Variability via Multiscaled-Band Partitioning. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 4215-4231.	2.3	7
648	Fractional vegetation cover estimation algorithm for Chinese GF-1 wide field view data. Remote Sensing of Environment, 2016, 177, 184-191.	4.6	167
649	Land Classification Using Remotely Sensed Data: Going Multilabel. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 3548-3563.	2.7	38
650	Fast projection onto the simplex and the ℓ_1 ball. Mathematical Programming, 2016, 158, 575-585.	1.6	187
651	Quantitative Detection of Settled Dust Over Green Canopy Using Sparse Unmixing of Airborne Hyperspectral Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 884-897.	2.3	21

#	ARTICLE	IF	CITATIONS
652	Sparsity-Regularized Robust Non-Negative Matrix Factorization for Hyperspectral Unmixing. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 4267-4279.	2.3	92
653	Hyperspectral Unmixing With Spectral Variability Using a Perturbed Linear Mixing Model. IEEE Transactions on Signal Processing, 2016, 64, 525-538.	3.2	146
654	A review on spectral processing methods for geological remote sensing. International Journal of Applied Earth Observation and Geoinformation, 2016, 47, 69-90.	1.4	110
655	An image-based endmember bundle extraction algorithm using reconstruction error for hyperspectral imagery. Neurocomputing, 2016, 173, 397-405.	3.5	9
656	Fast Spatial Preprocessing for Spectral Unmixing of Hyperspectral Data on Graphics Processing Units. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 952-961.	2.3	15
657	Hyperspectral Super-Resolution of Locally Low Rank Images From Complementary Multisource Data. IEEE Transactions on Image Processing, 2016, 25, 274-288.	6.0	151
658	Compressive Hyperspectral Imaging via Approximate Message Passing. IEEE Journal on Selected Topics in Signal Processing, 2016, 10, 389-401.	7.3	67
659	Robustness Analysis of Structured Matrix Factorization via Self-Dictionary Mixed-Norm Optimization. IEEE Signal Processing Letters, 2016, 23, 60-64.	2.1	14
660	Hierarchical Suppression Method for Hyperspectral Target Detection. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 330-342.	2.7	114
661	Shapelet-Based Sparse Representation for Landcover Classification of Hyperspectral Images. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 1623-1634.	2.7	28
662	Reweighted Sparse Regression for Hyperspectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 479-488.	2.7	52
663	Parallel Hyperspectral Coded Aperture for Compressive Sensing on GPUs. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 932-944.	2.3	16
664	Total-Variation-Regularized Low-Rank Matrix Factorization for Hyperspectral Image Restoration. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 178-188.	2.7	463
665	Tensor completion using total variation and low-rank matrix factorization. Information Sciences, 2016, 326, 243-257.	4.0	125
666	A quantitative and comparative analysis of different preprocessing implementations of DPSO: a robust endmember extraction algorithm. Soft Computing, 2016, 20, 4669-4683.	2.1	7
667	Towards a novel image denoising method with edge-preserving sparse representation based on laplacian of B-spline edge-detection. Multimedia Tools and Applications, 2017, 76, 17839-17854.	2.6	10
668	Pixel-level image fusion: A survey of the state of the art. Information Fusion, 2017, 33, 100-112.	11.7	880
669	Approximate Area-to-Point Regression Kriging for Fast Hyperspectral Image Sharpening. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 286-295.	2.3	8

#	ARTICLE	IF	CITATIONS
670	Performance-Power Evaluation of an OpenCL Implementation of the Simplex Growing Algorithm for Hyperspectral Unmixing. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 304-308.	1.4	3
671	Multi-objective based spectral unmixing for hyperspectral images. ISPRS Journal of Photogrammetry and Remote Sensing, 2017, 124, 54-69.	4.9	61
672	A Novel Endmember Extraction Method for Hyperspectral Imagery Based on Quantum-Behaved Particle Swarm Optimization. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 1610-1631.	2.3	30
673	Parallel Implementation of Spatial Spectral Endmember Extraction on Graphic Processing Units. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 1247-1255.	2.3	10
674	Hyperspectral remote sensing of coral reefs by semi-analytical model inversion Comparison of different inversion setups. Remote Sensing of Environment, 2017, 190, 348-365.	4.6	46
675	Using Linear Spectral Unmixing for Subpixel Mapping of Hyperspectral Imagery: A Quantitative Assessment. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 1589-1600.	2.3	12
676	Estimation of the Number of Endmembers in a Hyperspectral Image via the Hubness Phenomenon. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 2191-2200.	2.7	11
677	Physically Based Model for Multispectral Image Simulation of Earth Observation Sensors. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 1897-1908.	2.3	8
678	Robust Matrix Discriminative Analysis for Feature Extraction From Hyperspectral Images. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 2002-2011.	2.3	32
679	R-VCANet: A New Deep-Learning-Based Hyperspectral Image Classification Method. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 1975-1986.	2.3	158
680	Hyperspectral Image Superresolution by Transfer Learning. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 1963-1974.	2.3	183
681	Spectral-spatial classification of hyperspectral image based on discriminant sparsity preserving embedding. Neurocomputing, 2017, 243, 133-141.	3.5	4
682	Semisupervised Endmember Identification in Nonlinear Spectral Mixtures via Semantic Representation. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 3272-3286.	2.7	4
683	RCMF: Robust Constrained Matrix Factorization for Hyperspectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 3354-3366.	2.7	25
684	A Blind Identification and Source Separation Method Based on Subspace Intersections for Hyperspectral Astrophysical Data. Lecture Notes in Computer Science, 2017, , 367-380.	1.0	0
685	Unsupervised Classification in Hyperspectral Imagery With Nonlocal Total Variation and Primal-Dual Hybrid Gradient Algorithm. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 2786-2798.	2.7	41
686	Multisensor Coupled Spectral Unmixing for Time-Series Analysis. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 2842-2857.	2.7	22
687	Local and Nonlocal Context-Aware Elastic Net Representation-Based Classification for Hyperspectral Images. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 2922-2939.	2.3	6

#	ARTICLE	IF	CITATIONS
688	Fast Hyperspectral Unmixing in Presence of Nonlinearity or Mismodeling Effects. IEEE Transactions on Computational Imaging, 2017, 3, 146-159.	2.6	46
689	Improving the Spatial Resolution of FY-3 Microwave Radiation Imager via Fusion With FY-3/MERSI. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 3055-3063.	2.3	15
690	Bayesian Regularization-Based Classification for Proposed Textural and Geometrical Features in Brain MRI. Advances in Intelligent Systems and Computing, 2017, , 343-353.	0.5	1
691	Distributed Blind Hyperspectral Unmixing via Joint Sparsity and Low-Rank Constrained Non-Negative Matrix Factorization. IEEE Transactions on Computational Imaging, 2017, 3, 160-174.	2.6	41
692	Constrained Nonnegative Matrix Factorization Based on Particle Swarm Optimization for Hyperspectral Unmixing. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 3693-3710.	2.3	14
693	Hyperspectral and multispectral data fusion based on linear-quadratic nonnegative matrix factorization. Journal of Applied Remote Sensing, 2017, 11, 025008.	0.6	5
694	Experiments with Simplex ACE: dealing with highly variable targets. Proceedings of SPIE, 2017, , .	0.8	1
695	Dimensionality reduction using superpixel segmentation for hyperspectral unmixing using the cNMF. Proceedings of SPIE, 2017, , .	0.8	2
696	Morphologically Decoupled Structured Sparsity for Rotation-Invariant Hyperspectral Image Analysis. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 4355-4366.	2.7	20
697	Blind quantum source separation: Quantum-processing qubit uncoupling systems based on disentanglement. , 2017, 67, 30-51.		11
698	A Stepwise Analytical Projected Gradient Descent Search for Hyperspectral Unmixing and Its Code Vectorization. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 4925-4943.	2.7	22
699	Object Tracking by Hierarchical Decomposition of Hyperspectral Video Sequences: Application to Chemical Gas Plume Tracking. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 4567-4585.	2.7	31
700	Hybrid Preprocessing Algorithm for Endmember Extraction Using Clustering, Over-Segmentation, and Local Entropy Criterion. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 2940-2949.	2.3	13
701	Smooth and Sparse Regularization for NMF Hyperspectral Unmixing. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 3677-3692.	2.3	40
702	A Novel Preunmixing Framework for Efficient Detection of Linear Mixtures in Hyperspectral Images. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 4325-4333.	2.7	10
703	Hyperspectral Image Superresolution Based on Double Regularization Unmixing. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 1022-1026.	1.4	7
704	Informatics and data science in materials microscopy. Current Opinion in Solid State and Materials Science, 2017, 21, 141-158.	5.6	33
705	Parallel Implementation of a Full Hyperspectral Unmixing Chain Using OpenCL. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 2452-2461.	2.3	13

#	ARTICLE	IF	CITATIONS
706	Simplex ACE: a constrained subspace detector. Optical Engineering, 2017, 56, 081808.	0.5	14
707	Simple mineral mapping algorithm based on multitype spectral diagnostic absorption features: a case study at Cuprite, Nevada. Journal of Applied Remote Sensing, 2017, 11, 026015.	0.6	4
708	Spatial-Spectral Representation for X-Ray Fluorescence Image Super-Resolution. IEEE Transactions on Computational Imaging, 2017, 3, 432-444.	2.6	9
709	Morphologically constrained spectral unmixing by dictionary learning for multiplex fluorescence microscopy. Bioinformatics, 2017, 33, 2182-2190.	1.8	11
710	Multi-sharpening hyperspectral remote sensing data by Multiplicative Joint-Criterion Linear-Quadratic Nonnegative Matrix Factorization. , 2017, , .		2
711	Modified nonnegative matrix factorization for endmember spectra extraction from highly mixed hyperspectral images combined with multispectral data. , 2017, , .		4
712	Hyperspectral Unmixing Using Double Reweighted Sparse Regression and Total Variation. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 1146-1150.	1.4	85
713	Unsupervised Nonlinear Spectral Unmixing Based on a Multilinear Mixing Model. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 4534-4544.	2.7	39
714	Mapping urban land cover from high spatial resolution hyperspectral data: An approach based on simultaneously unmixing similar pixels with jointly sparse spectral mixture analysis. Remote Sensing of Environment, 2017, 196, 324-342.	4.6	30
715	A Poisson nonnegative matrix factorization method with parameter subspace clustering constraint for endmember extraction in hyperspectral imagery. ISPRS Journal of Photogrammetry and Remote Sensing, 2017, 128, 27-39.	4.9	28
716	A Comparison Between Three Sparse Unmixing Algorithms Using a Large Library of Shortwave Infrared Mineral Spectra. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 3588-3610.	2.7	18
717	Improving Signal Subspace Identification Using Weighted Graph Structure of Data. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 831-835.	1.4	1
718	Total Variation Regularized Reweighted Sparse Nonnegative Matrix Factorization for Hyperspectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 3909-3921.	2.7	181
719	Joint Hyperspectral Superresolution and Unmixing With Interactive Feedback. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 3823-3834.	2.7	18
720	The effect of the point spread function on sub-pixel mapping. Remote Sensing of Environment, 2017, 193, 127-137.	4.6	37
721	Centralized Collaborative Sparse Unmixing for Hyperspectral Images. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 1949-1962.	2.3	31
722	A Probabilistic Joint Sparse Regression Model for Semisupervised Hyperspectral Unmixing. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 592-596.	1.4	13
723	Metric similarity regularizer to enhance pixel similarity performance for hyperspectral unmixing. Optik, 2017, 140, 86-95.	1.4	19

#	ARTICLE	IF	CITATIONS
724	High-precision extraction of nearshore green tides using satellite remote sensing data of the Yellow Sea, China. <i>International Journal of Remote Sensing</i> , 2017, 38, 1626-1641.	1.3	33
725	Comparison of linear and nonlinear spectral unmixing approaches: a case study with multispectral TM imagery. <i>International Journal of Remote Sensing</i> , 2017, 38, 773-795.	1.3	31
726	A Novel Spectral-Unmixing-Based Green Algae Area Estimation Method for GOCI Data. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2017, 10, 437-449.	2.3	31
727	Analysis of electron energy loss spectroscopy data using geometric extraction methods. <i>Ultramicroscopy</i> , 2017, 174, 14-26.	0.8	11
728	Region-Based Structure Preserving Nonnegative Matrix Factorization for Hyperspectral Unmixing. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2017, 10, 1575-1588.	2.3	44
729	Hypersharpener by Joint-Criterion Nonnegative Matrix Factorization. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2017, 55, 1660-1670.	2.7	35
730	Robust Sparse Hyperspectral Unmixing With $\ell_{2,1}$ Norm. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2017, 55, 1227-1239.	2.7	65
731	Adaptive Linear Spectral Mixture Analysis. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2017, 55, 1240-1253.	2.7	8
732	Matrix-Vector Nonnegative Tensor Factorization for Blind Unmixing of Hyperspectral Imagery. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2017, 55, 1776-1792.	2.7	139
733	STAR: Spatio-temporal altimeter waveform retracking using sparse representation and conditional random fields. <i>Remote Sensing of Environment</i> , 2017, 201, 148-164.	4.6	29
734	Unmixing multitemporal hyperspectral images accounting for smooth and abrupt variations. , 2017, , .		1
735	Nonnegative matrix factorization with region sparsity learning for hyperspectral unmixing. <i>International Journal of Wavelets, Multiresolution and Information Processing</i> , 2017, 15, 1750063.	0.9	0
736	Auto-Encoder Based for High Spectral Dimensional Data Classification and Visualization. , 2017, , .		10
737	Pure endmember extraction using robust kernel archetypoid analysis for hyperspectral imagery. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2017, 131, 147-159.	4.9	31
738	Spectral Unmixing Methods and Tools for the Detection and Quantitation of Collagen and Other Macromolecules in Tissue Specimens. <i>Methods in Molecular Biology</i> , 2017, 1627, 491-509.	0.4	4
739	Urban objects classification by spectral library: Feasibility and applications. , 2017, , .		5
740	Hyperspectral Image Restoration Using Low-Rank Tensor Recovery. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2017, 10, 4589-4604.	2.3	137
741	Sparse Distributed Multitemporal Hyperspectral Unmixing. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2017, 55, 6069-6084.	2.7	24

#	ARTICLE	IF	CITATIONS
742	Sparse hyperspectral unmixing combined L1/2 norm and reweighted total variation regularization. , 2017, , .		0
743	Compressive hyperspectral imaging and unmixing using spectral library. , 2017, , .		0
744	Incorporation of spatial and spectral contents in mixed-pixel decomposition of hyperspectral images. , 2017, , .		0
745	Hyperspectral unmixing with endmember variability using Partial Membership Latent Dirichlet Allocation. , 2017, , .		6
746	Hyperspectral and Multispectral Image Fusion Based on Local Low Rank and Coupled Spectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 5997-6009.	2.7	53
747	Spatial Group Sparsity Regularized Nonnegative Matrix Factorization for Hyperspectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 6287-6304.	2.7	160
748	Multiple Kernel Learning for Hyperspectral Image Classification: A Review. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 6547-6565.	2.7	194
749	Robust Minimum Volume Simplex Analysis for Hyperspectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 6431-6439.	2.7	38
750	Predicting individual pixel error in remote sensing soft classification. Remote Sensing of Environment, 2017, 199, 401-414.	4.6	19
751	Fusion of Hyperspectral and LiDAR Data Using Sparse and Low-Rank Component Analysis. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 6354-6365.	2.7	87
752	Statistically strong label-free quantitative identification of native fluorophores in a biological sample. Scientific Reports, 2017, 7, 15792.	1.6	32
753	Relationships Between Nonlinear and Space-Variant Linear Models in Hyperspectral Image Unmixing. IEEE Signal Processing Letters, 2017, 24, 1567-1571.	2.1	12
754	NONPARAMETRIC BAYESIAN METHODS. , 2017, , 207-230.		1
755	Hyperspectral unmixing via deep matrix factorization. International Journal of Wavelets, Multiresolution and Information Processing, 2017, 15, 1750058.	0.9	6
756	A provable nonconvex model for factoring nonnegative matrices. , 2017, , .		0
757	Fast hyperspectral unmixing in presence of sparse multiple scattering nonlinearities. , 2017, , .		0
758	Hyperspectral compressed sensing using for endmember extraction. , 2017, , .		0
759	A Split-and-Merge Approach for Hyperspectral Band Selection. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 1378-1382.	1.4	22

#	ARTICLE	IF	CITATIONS
760	Compressive spectral anomaly detection. , 2017, , .		2
761	Correntropy Maximization via ADMM: Application to Robust Hyperspectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 4944-4955.	2.7	22
762	Noise reduction on hyperspectral imagery using spectral unmixing and class-labels. , 2017, , .		0
763	A stochastic maximum-likelihood framework for simplex structured matrix factorization. , 2017, , .		6
764	Pre-processing and classification of hyperspectral imagery via selective inpainting. , 2017, , .		1
765	Abundance Estimation of Hyperspectral Data with Low Compressive Sampling Rate. Sensing and Imaging, 2017, 18, 1.	1.0	0
766	A GPU-Based Processing Chain for Linearly Unmixing Hyperspectral Images. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 818-834.	2.3	12
767	Nonlinear Unmixing of Hyperspectral Data With Vector-Valued Kernel Functions. IEEE Transactions on Image Processing, 2017, 26, 340-354.	6.0	33
768	Adaptive Spectralâ€“Spatial Compression of Hyperspectral Image With Sparse Representation. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 671-682.	2.7	51
769	Hyperspectral Image Unmixing Based on Fast Kernel Archetypal Analysis. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 331-346.	2.3	21
770	Linear modeling of modern artist paints using a modification of the opaque form of Kubelkaâ€“Munk turbid media theory. Color Research and Application, 2017, 42, 308-315.	0.8	6
771	Automatic, exploratory mineralogical mapping of CRISM imagery using summary product signatures. Icarus, 2017, 281, 151-161.	1.1	8
772	Minimal Volume Simplex (MVS) Polytopic Model Generation and Manipulation Methodology for TP Model Transformation. Asian Journal of Control, 2017, 19, 289-301.	1.9	41
773	Towards a spectral library of Roman to Early Christian Cypriot floor mosaics. Journal of Archaeological Science: Reports, 2017, 14, 782-791.	0.2	2
774	Sparse Unmixing With Dictionary Pruning for Hyperspectral Change Detection. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 321-330.	2.3	61
775	Perfect Recovery Conditions for Non-negative Sparse Modeling. IEEE Transactions on Signal Processing, 2017, 65, 69-80.	3.2	11
776	Spectral unmixing combined with Raman imaging, a preferable analytic technique for molecule visualization. Applied Spectroscopy Reviews, 2017, 52, 417-438.	3.4	8
777	Neural network hyperspectral unmixing with spectral information divergence objective. , 2017, , .		23

#	ARTICLE	IF	CITATIONS
778	Nonnegative matrix factorization with data-guided constraints. , 2017, , .		0
779	Advances in Hyperspectral Image and Signal Processing: A Comprehensive Overview of the State of the Art. IEEE Geoscience and Remote Sensing Magazine, 2017, 5, 37-78.	4.9	533
780	A Hybrid Subpixel Mapping Framework for Hyperspectral Images Using Collaborative Representation. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 5073-5086.	2.3	6
781	Unsupervised Hyperspectral Band Selection by Sequential Clustering. , 2017, , .		4
782	Sub-pixel intelligence mapping considering spatial-temporal attraction for remote sensing imagery. , 2017, , .		0
783	Collaborative total variation for hyperspectral pansharpening. , 2017, , .		3
784	A study of periurban areas land uses based on their fractal dimension: The case of three periurban municipalities of Buenos Aires. , 2017, , .		0
785	Accelerating spectral unmixing by using clustered images. , 2017, , .		1
786	Blind hyperspectral image super resolution via simultaneously sparse and TV constraint. , 2017, , .		0
787	Anomaly detection using VCA algorithm for multi-temporal hyperspectral images. , 2017, , .		2
788	Using time series to improve endmembers estimation on multispectral images for snow monitoring. , 2017, , .		2
789	Optische Band selektion für die verbesserte Schätzung von Materialanteilen. TM Technisches Messen, 2017, 84, 124-130.	0.3	1
791	Spectral unmixing with hyperspectral datasets of AVIRIS-NG. , 2017, , .		0
792	Hyperspectral image super-resolution based on non-factorization sparse representation and dictionary learning. , 2017, , .		1
793	Hyperspectral image denoising based on global and non-local low-rank factorizations. , 2017, , .		24
794	Segmentation-based cNMF for hyperspectral unmixing. , 2017, , .		0
795	Hyperspectral image fusion based on non-factorization sparse representation and error matrix estimation. , 2017, , .		3
796	Fast recovery of non-negative sparse signals under heterogeneous noise. , 2017, , .		1

#	ARTICLE	IF	CITATIONS
797	Hyper-spectral Image Super-resolution Using Non-negative Spectral Representation with Data-Guided Sparsity. , 2017, , .		3
798	Differentiable sparse unmixing based on Bregman divergence for hyperspectral remote sensing imagery. , 2017, , .		2
799	Learning a low-coherence dictionary to address spectral variability for hyperspectral unmixing. , 2017, , .		12
800	Improved Local Spectral Unmixing of hyperspectral data using an algorithmic regularization path for collaborative sparse regression. , 2017, , .		2
801	Hyperspectral cloud shadow removal based on linear unmixing. , 2017, , .		10
802	A cholesterol lesion detection approach based on SVD decomposition. , 2017, , .		0
803	Spatial-spectral hyperspectral image compressive sensing. , 2017, , .		4
804	Nonnegative sparse autoencoder for robust endmember extraction from remotely sensed hyperspectral images. , 2017, , .		24
805	Spectral unmixing through part-based non-negative constraint denoising autoencoder. , 2017, , .		16
806	Robust linear unmixing with enhanced sparsity. , 2017, , .		4
807	A novel subspace spatial-spectral low rank learning method for hyperspectral denoising. , 2017, , .		7
808	A novel subpixel mapping approach based on spectral unmixing for hyperspectral images. , 2017, , .		0
809	Unmixing dynamic PET images with a PALM algorithm. , 2017, , .		0
810	A new multiplicative nonnegative matrix factorization method for unmixing hyperspectral images combined with multispectral data. , 2017, , .		3
811	A new approach to dictionary-based nonnegative matrix factorization. , 2017, , .		2
812	A Mutation Operator Accelerated Quantum-Behaved Particle Swarm Optimization Algorithm for Hyperspectral Endmember Extraction. Remote Sensing, 2017, 9, 197.	1.8	29
813	Near-Infrared Spectroscopy of Limestone Ore for CaO Estimation under Dry and Wet Conditions. Minerals (Basel, Switzerland), 2017, 7, 193.	0.8	4
814	Joint Sparse Sub-Pixel Mapping Model with Endmember Variability for Remotely Sensed Imagery. Remote Sensing, 2017, 9, 15.	1.8	19

#	ARTICLE	IF	CITATIONS
815	A New Spatial Attraction Model for Improving Subpixel Land Cover Classification. Remote Sensing, 2017, 9, 360.	1.8	21
816	Optimized Kernel Minimum Noise Fraction Transformation for Hyperspectral Image Classification. Remote Sensing, 2017, 9, 548.	1.8	52
817	Hybrid Spectral Unmixing: Using Artificial Neural Networks for Linear/Non-Linear Switching. Remote Sensing, 2017, 9, 775.	1.8	27
818	Application of Abundance Map Reference Data for Spectral Unmixing. Remote Sensing, 2017, 9, 793.	1.8	7
819	A Robust Algorithm for Estimating Surface Fractional Vegetation Cover from Landsat Data. Remote Sensing, 2017, 9, 857.	1.8	32
820	Reducing the Effect of the Endmembers'™ Spectral Variability by Selecting the Optimal Spectral Bands. Remote Sensing, 2017, 9, 884.	1.8	16
821	Nonnegative Matrix Factorization With Data-Guided Constraints For Hyperspectral Unmixing. Remote Sensing, 2017, 9, 1074.	1.8	10
822	Exploring Subpixel Learning Algorithms for Estimating Global Land Cover Fractions from Satellite Data Using High Performance Computing. Remote Sensing, 2017, 9, 1105.	1.8	14
823	Hyperspectral Imaging: A Review on UAV-Based Sensors, Data Processing and Applications for Agriculture and Forestry. Remote Sensing, 2017, 9, 1110.	1.8	748
824	A New Low-Rank Representation Based Hyperspectral Image Denoising Method for Mineral Mapping. Remote Sensing, 2017, 9, 1145.	1.8	44
825	Sparse Unmixing of Hyperspectral Data with Noise Level Estimation. Remote Sensing, 2017, 9, 1166.	1.8	16
826	Hyperspectral Super-Resolution with Spectral Unmixing Constraints. Remote Sensing, 2017, 9, 1196.	1.8	31
827	Joint Local Abundance Sparse Unmixing for Hyperspectral Images. Remote Sensing, 2017, 9, 1224.	1.8	32
828	Fractional Snow-Cover Mapping Based on MODIS and UAV Data over the Tibetan Plateau. Remote Sensing, 2017, 9, 1332.	1.8	22
829	Treefall Gap Mapping Using Sentinel-2 Images. Forests, 2017, 8, 426.	0.9	12
830	Nonlinear Spectral Unmixing for the Characterisation of Volcanic Surface Deposit and Airborne Plumes from Remote Sensing Imagery. Geosciences (Switzerland), 2017, 7, 46.	1.0	3
831	Unsupervised linear spectral unmixing of multispectral images using the NMF and modified-multilayer NMF algorithms. , 2017, , .		3
832	A Spectral Unmixing Method with Ensemble Estimation of Endmembers: Application to Flood Mapping in the Caprivi Floodplain. Remote Sensing, 2017, 9, 1013.	1.8	25

#	ARTICLE	IF	CITATIONS
833	Computational integral field spectroscopy with diverse imaging. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2017, 34, 1711.	0.8	6
834	Nonlinear spectral mixture effects for photosynthetic/non-photosynthetic vegetation cover estimates of typical desert vegetation in western China. PLoS ONE, 2017, 12, e0189292.	1.1	7
835	Spatial weighted sparse regression for hyperspectral image unmixing. , 2017, , .		2
836	Hyperspectral classification based on kernel low-rank multitask learning. , 2017, , .		3
837	Hyperspectral image inpainting based on low-rank representation: A case study on Tiangong-1 data. , 2017, , .		5
838	Efficient sparsity-based inversion for photon-sieve spectral imagers with transform learning. , 2017, , .		1
839	Sparse and low rank hyperspectral unmixing. , 2017, , .		1
840	Nonlinear hyperspectral unmixing based on normalized P-linear algorithm. , 2017, , .		1
841	Subpixel mapping of hyperspectral images with hybrid endmember library and optimized abundances. , 2017, , .		0
842	A new weighted \hat{a}_p -norm for sparse hyperspectral unmixing. , 2017, , .		1
843	Emissivity image simulation for thermal infrared bands on Gaofen-5 using airborne hyperspectral data. , 2017, , .		1
844	Correlation-Based ultrahigh-dimensional variable screening. , 2017, , .		2
845	Sparse unmixing based on feature pixels for hyperspectral imagery. , 2017, , .		0
846	Hyperspectral image subpixel mapping based on spatial-spectral endmember dictionary with collaborative representation. , 2017, , .		0
847	A Probabilistic Weighted Archetypal Analysis Method with Earth Mover's Distance for Endmember Extraction from Hyperspectral Imagery. Remote Sensing, 2017, 9, 841.	1.8	5
848	Reconstruction of River Boundaries at Sub-Pixel Resolution: Estimation and Spatial Allocation of Water Fractions. ISPRS International Journal of Geo-Information, 2017, 6, 383.	1.4	32
849	Rolling Guidance Based Scale-Aware Spatial Sparse Unmixing for Hyperspectral Remote Sensing Imagery. Remote Sensing, 2017, 9, 1218.	1.8	14
850	Validation of Abundance Map Reference Data for Spectral Unmixing. Remote Sensing, 2017, 9, 473.	1.8	10

#	ARTICLE	IF	CITATIONS
851	Hyperspectral Image Classification with Spatial Filtering and ($L_{(2,1)}$) Norm. <i>Sensors</i> , 2017, 17, 314.	2.1	14
852	Optimization of minimum volume constrained hyperspectral image unmixing on CPU-GPU heterogeneous platform. <i>Journal of Real-Time Image Processing</i> , 2018, 15, 265-277.	2.2	3
853	Accelerated hyperspectral image recursive hierarchical segmentation using GPUs, multicore CPUs, and hybrid CPU/GPU cluster. <i>Journal of Real-Time Image Processing</i> , 2018, 14, 413-432.	2.2	9
854	A Two-Phase Multiobjective Sparse Unmixing Approach for Hyperspectral Data. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2018, 56, 508-523.	2.7	29
855	A Convex Optimization-Based Coupled Nonnegative Matrix Factorization Algorithm for Hyperspectral and Multispectral Data Fusion. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2018, 56, 1652-1667.	2.7	82
856	Simultaneous Spatial and Spectral Low-Rank Representation of Hyperspectral Images for Classification. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2018, 56, 2872-2886.	2.7	38
857	Dictionary-Based Tensor Canonical Polyadic Decomposition. <i>IEEE Transactions on Signal Processing</i> , 2018, 66, 1876-1889.	3.2	13
858	An Algorithm for an Accurate Detection of Anomalies in Hyperspectral Images With a Low Computational Complexity. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2018, 56, 1159-1176.	2.7	34
859	A Sparse Representation Method for <i>a Priori</i> Target Signature Optimization in Hyperspectral Target Detection. <i>IEEE Access</i> , 2018, 6, 3408-3424.	2.6	23
860	Hyperspectral Image Denoising Using Local Low-Rank Matrix Recovery and Global Spatial-Spectral Total Variation. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2018, 11, 713-729.	2.3	161
861	Linear spectral unmixing using endmember coexistence rules and spatial correlation. <i>International Journal of Remote Sensing</i> , 2018, 39, 3512-3536.	1.3	6
862	Hyperspectral Image Unmixing With LiDAR Data-Aided Spatial Regularization. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2018, 56, 4098-4108.	2.7	26
863	Hapke mixture modeling applied to VNIR spectra of mafic mineral mixtures and shergottites: Implications for quantitative analysis of satellite data. <i>Meteoritics and Planetary Science</i> , 2018, 53, 1179-1206.	0.7	5
864	A real-time unsupervised background extraction-based target detection method for hyperspectral imagery. <i>Journal of Real-Time Image Processing</i> , 2018, 15, 597-615.	2.2	18
865	Review of surface particulate monitoring of dust events using geostationary satellite remote sensing. <i>Atmospheric Environment</i> , 2018, 183, 154-164.	1.9	38
866	Multicore Real-Time Implementation of a Full Hyperspectral Unmixing Chain. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2018, 15, 744-748.	1.4	7
867	Spectral Unmixing With Multiple Dictionaries. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2018, 15, 187-191.	1.4	6
868	Multiobjective Subpixel Land-Cover Mapping. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2018, 56, 422-435.	2.7	28

#	ARTICLE	IF	CITATIONS
869	Nonlocal Similarity Based Nonnegative Tucker Decomposition for Hyperspectral Image Denoising. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 701-712.	2.3	60
870	Joint Spatial and Spectral Low-Rank Regularization for Hyperspectral Image Denoising. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 1940-1958.	2.7	73
871	Compressed Sensing Reconstruction of Hyperspectral Images Based on Spectral Unmixing. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 1266-1284.	2.3	32
872	Fast Hyperspectral Image Denoising and inpainting Based on Low-Rank and Sparse Representations. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 730-742.	2.3	235
873	Spectral- ϵ -Spatial Weighted Sparse Regression for Hyperspectral Image Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 3265-3276.	2.7	147
874	Nonlinear Hyperspectral Unmixing Based on Geometric Characteristics of Bilinear Mixture Models. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 694-714.	2.7	33
875	Classification of Hyperspectral Images by Gabor Filtering Based Deep Network. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 1166-1178.	2.3	129
876	A supervised abundance estimation method for hyperspectral unmixing. Remote Sensing Letters, 2018, 9, 383-392.	0.6	19
877	A Gaussian Mixture Model Representation of Endmember Variability in Hyperspectral Unmixing. IEEE Transactions on Image Processing, 2018, 27, 2242-2256.	6.0	75
878	Automatic pigment identification from hyperspectral data. Journal of Cultural Heritage, 2018, 31, 1-12.	1.5	67
879	Randomized nonnegative matrix factorization. Pattern Recognition Letters, 2018, 104, 1-7.	2.6	33
880	A Novel Subspace Super-Pixel Based Low Rank Representation Method for Hyperspectral Denoising. Lecture Notes in Electrical Engineering, 2018, , 464-469.	0.3	0
881	Robust GBM hyperspectral image unmixing with superpixel segmentation based low rank and sparse representation. Neurocomputing, 2018, 275, 2783-2797.	3.5	38
882	Application and Extension of PCA Concepts to Blind Unmixing of Hyperspectral Data with Intra-class Variability. , 2018, , 225-252.		3
883	Iterative-based visualization-oriented fusion scheme for hyperspectral images. Signal, Image and Video Processing, 2018, 12, 757-765.	1.7	1
884	Hyperspectral image classification based on joint spectrum of spatial space and spectral space. Multimedia Tools and Applications, 2018, 77, 29759-29777.	2.6	9
885	Multi-tissue partial volume quantification in multi-contrast MRI using an optimised spectral unmixing approach. Magnetic Resonance Imaging, 2018, 49, 39-46.	1.0	1
886	Hyperspectral image analysis. When space meets Chemistry. Journal of Chemometrics, 2018, 32, e2985.	0.7	8

#	ARTICLE	IF	CITATIONS
887	Hyperspectral Anomaly Detection Through Spectral Unmixing and Dictionary-Based Low-Rank Decomposition. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 4391-4405.	2.7	149
888	Sparse Hyperspectral Unmixing via Heuristic $\ell_{p/q}$ -Norm Approach. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 1191-1202.	2.3	13
889	 sparse hyperspectral unmixing using spectral information and a multi-objectives formulation. ISPRS Journal of Photogrammetry and Remote Sensing, 2018, 141, 46-58.	4.9	37
890	Nonlocal Tensor Completion for Multitemporal Remotely Sensed Images™ Inpainting. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 3047-3061.	2.7	60
891	Fast Superpixel Based Subspace Low Rank Learning Method for Hyperspectral Denoising. IEEE Access, 2018, 6, 12031-12043.	2.6	34
892	A Bandwise Noise Model Combined With Low-Rank Matrix Factorization for Hyperspectral Image Denoising. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 1070-1081.	2.3	21
893	Sharpening Hyperspectral Images Using Spatial and Spectral Priors in a Plug-and-Play Algorithm. Lecture Notes in Computer Science, 2018, , 358-371.	1.0	0
894	Unravelling the Metabolic Progression of Breast Cancer Cells to Bone Metastasis by Coupling Raman Spectroscopy and a Novel Use of Mcr-Als Algorithm. Analytical Chemistry, 2018, 90, 5594-5602.	3.2	27
895	Group Low-Rank Nonnegative Matrix Factorization With Semantic Regularizer for Hyperspectral Unmixing. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 1022-1029.	2.3	29
896	Fourier transform infrared spectroscopy microscopic imaging classification based on spatial-spectral features. Measurement Science and Technology, 2018, 29, 045501.	1.4	2
897	Hyperspectral Unmixing Using a Neural Network Autoencoder. IEEE Access, 2018, 6, 25646-25656.	2.6	139
898	Mapping Global Bamboo Forest Distribution Using Multisource Remote Sensing Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 1458-1471.	2.3	53
899	Enhancing spectral unmixing by considering the point spread function effect. Spatial Statistics, 2018, 28, 271-283.	0.9	8
900	A MAP-Based Approach for Hyperspectral Imagery Super-Resolution. IEEE Transactions on Image Processing, 2018, 27, 2942-2951.	6.0	53
901	Efficient preconditioning for noisy separable nonnegative matrix factorization problems by successive projection based low-rank approximations. Machine Learning, 2018, 107, 643-673.	3.4	6
902	Integrating Spatial Information in the Normalized P-Linear Algorithm for Nonlinear Hyperspectral Unmixing. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 1179-1190.	2.3	23
903	Coregistered Hyperspectral and Stereo Image Seafloor Mapping from an Autonomous Underwater Vehicle. Journal of Field Robotics, 2018, 35, 312-329.	3.2	27
904	Low rank constraint and spatial spectral total variation for hyperspectral image mixed denoising. Signal Processing, 2018, 142, 11-26.	2.1	52

#	ARTICLE	IF	CITATIONS
905	Estimation of white matter fiber parameters from compressed multiresolution diffusion MRI using sparse Bayesian learning. <i>NeuroImage</i> , 2018, 167, 488-503.	2.1	6
906	Considering spectral variability for optical material abundance estimation. <i>TM Technisches Messen</i> , 2018, 85, 149-158.	0.3	7
907	Fast computation of the compressive hyperspectral imaging by using alternating least squares methods. <i>Signal Processing: Image Communication</i> , 2018, 60, 100-106.	1.8	5
908	Regional clustering-based spatial preprocessing for hyperspectral unmixing. <i>Remote Sensing of Environment</i> , 2018, 204, 333-346.	4.6	81
909	A Fast Gradient Method for Nonnegative Sparse Regression With Self-Dictionary. <i>IEEE Transactions on Image Processing</i> , 2018, 27, 24-37.	6.0	19
910	Propagation of uncertainty in atmospheric parameters to hyperspectral unmixing. <i>Remote Sensing of Environment</i> , 2018, 204, 472-484.	4.6	11
911	Bayesian dictionary learning for hyperspectral image super resolution in mixed Poisson-Gaussian noise. <i>Signal Processing: Image Communication</i> , 2018, 60, 29-41.	1.8	15
912	Joint weighted nuclear norm and total variation regularization for hyperspectral image denoising. <i>International Journal of Remote Sensing</i> , 2018, 39, 334-355.	1.3	34
913	Restoration of hyperspectral image contaminated by Poisson noise using spectral unmixing. <i>Neurocomputing</i> , 2018, 275, 430-437.	3.5	9
914	Dictionary-aided hyperspectral unmixing based on constrained $l_{2,q} \hat{=} l_{2,p}$ optimization. , 2018, 73, 117-127.		1
915	Models for Hyperspectral Image Analysis: From Unmixing to Object-Based Classification. <i>Signals and Communication Technology</i> , 2018, , 37-80.	0.4	3
916	Material based salient object detection from hyperspectral images. <i>Pattern Recognition</i> , 2018, 76, 476-490.	5.1	62
917	Computational intelligence in optical remote sensing image processing. <i>Applied Soft Computing Journal</i> , 2018, 64, 75-93.	4.1	153
918	Robust Sparse Unmixing for Hyperspectral Imagery. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2018, 56, 1348-1359.	2.7	17
919	Denoising Hyperspectral Image With Non-i.i.d. Noise Structure. <i>IEEE Transactions on Cybernetics</i> , 2018, 48, 1054-1066.	6.2	134
920	Hyperspectral Image Classification using Band-Group Non-negative Tensor Factorization. , 2018, , .		0
921	Simulation Study on Estimation Method of Spectrally Pure Material Proportion of a Space Target Based on Cost Function Optimization. <i>Journal of Applied Spectroscopy</i> , 2018, 85, 909-915.	0.3	1
922	Bandbereichswahl und Materialanteilsschätzung mithilfe von Spektralfiltern. <i>TM Technisches Messen</i> , 2018, 85, 454-467.	0.3	5

#	ARTICLE	IF	CITATIONS
923	Global Fractional Vegetation Cover Estimation Algorithm for VIIRS Reflectance Data Based on Machine Learning Methods. Remote Sensing, 2018, 10, 1648.	1.8	20
924	Advances in Utilization of Hierarchical Representations in Remote Sensing Data Analysis. , 2018, , 77-107.		0
925	Superpixel construction for hyperspectral unmixing. , 2018, , .		13
926	ENDMEMBER EXTRACTION ON THE GRASSMANNIAN. , 2018, , .		0
927	A Fast Endmember Estimation Algorithm from Compressive Measurements. , 2018, , .		3
928	Graph Regularized $L_{1/2}$ -Sparsity Constrained Non-Negative Matrix Factorization for Hyperspectral and Multispectral Image Fusion. , 2018, , .		1
929	Application of Hybrid Switch Method to Quantify Oil Spills. , 2018, , .		0
930	Parameter Estimation For Blind l_q Hyperspectral Unmixing Using Bayesian Optimization. , 2018, , .		3
931	A Multitemporal Linear Spectral Unmixing: An Iterative Approach Accounting For Abundance Variations. , 2018, , .		6
932	Endmembers as Directional Data for Robust Material Variability Retrieval in Hyperspectral Image Unmixing. , 2018, , .		6
933	Fast Semi-Supervised Unmixing of Hyperspectral Image by Mutual Coherence Reduction and Recursive PCA. Remote Sensing, 2018, 10, 1106.	1.8	19
934	Superpixel-Based Hyperspectral Unmixing with Regional Segmentation. , 2018, , .		2
935	Data Fusion of Spectral and Visible Images for Resolution Enhancement of Fraction Maps Through Neural Network and Spatial Statistical Features. , 2018, , .		0
936	Recursive Orthogonal Vector Projection for Hyperspectral Image Abundance Estimation Based on GUP. , 2018, , .		0
937	Constraint Non-Negative Matrix Factorization With Sparseness and Piece wise Smoothness for Hyperspectral Unmixing. , 2018, , .		1
938	Regional vs. Global Superpixel-Based Unmixing of Hyperspectral Imagery. , 2018, , .		0
939	A Bayesian Model for Joint Unmixing and Robust Classification of Hyperspectral Images. , 2018, , .		0
940	Scalable Low Dimensional Manifold Model In The Reconstruction Of Noisy And Incomplete Hyperspectral Images. , 2018, , .		2

#	ARTICLE	IF	CITATIONS
941	Spectral Unmixing with Sparsity and Structuring Constraints. , 2018, , .		5
942	Fusion of Multiple Multiband Images with Complementary Spatial and Spectral Resolutions. , 2018, , .		1
943	Clustering based spatial spectral preprocessing for hyperspectral unmixing. , 2018, , .		2
944	Impervious Surface Extraction From Multispectral Images via Morphological Attribute Profiles Based on Spectral Analysis. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 4775-4790.	2.3	7
945	Composite Kernel Classification using Spectral-Spatial Features and Abundance Information of Hyperspectral Image. , 2018, , .		2
946	Rolling Guidance Based Scaled-Aware Spatial Sparse Unmixing for Hyperspectral Remote Sensing Imagery. , 2018, , .		1
947	Classification Using Unmixing Models in Areas With Substantial Endmember Variability. , 2018, , .		0
948	A multiple endmember mixing model to handle spectral variability in hyperspectral unmixing. , 2018, , .		2
949	Robust Sparse Hyperspectral Unmixing Based on Multi-Objective Optimization. , 2018, , .		2
950	Structured Sparsity Characteristics in Hyperspectral Unmixing. , 2018, , .		0
951	Iterativer Spektralfilterentwurf für eine genaue optische Bestimmung von Materialanteilen / Iterative spectral filter design for a precise optical estimation of material abundances. TM Technisches Messen, 2018, 85, s110-s116.	0.3	1
952	Hyperspectral Unmixing Using Secant Function Optimization. , 2018, , .		0
953	A Dataset with Ground-Truth for Hyperspectral Unmixing. , 2018, , .		2
954	Extended Linear Mixing Model in an Ecosystem with High Spectral Variability. , 2018, , .		0
955	Hyperspectral Unmixing with Bandwise Generalized Bilinear Model. Remote Sensing, 2018, 10, 1600.	1.8	17
956	A Novel Endmember Extraction Method Using Sparse Component Analysis for Hyperspectral Remote Sensing Imagery. IEEE Access, 2018, 6, 75206-75215.	2.6	3
957	Hyperspectral Endmember Extraction Preprocessing Using Combination of Euclidean and Geodesic Distances. , 2018, , .		1
958	Detection of Minerals Through the Processing of Satellite Images. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
959	Generalized Linear Mixing Model Accounting for Endmember Variability. , 2018, , .		54
960	Unsupervised Feature Selection Based on Ultrametricity and Sparse Training Data: A Case Study for the Classification of High-Dimensional Hyperspectral Data. Remote Sensing, 2018, 10, 1564.	1.8	16
961	A New Unmixing-Based Approach for Shadow Correction of Hyperspectral Remote Sensing Data. , 2018, , .		3
962	Nonlinear Hyperspectral Unmixing Via Modelling Band Dependent Nonlinearity. , 2018, , .		0
963	Detection And Area Estimation For Photovoltaic Panels In Urban Hyperspectral Remote Sensing Data By An Original Nmf-Based Unmixing Method. , 2018, , .		8
964	Lidar-Driven Spatial Regularization for Hyperspectral Unmixing. , 2018, , .		1
965	Linear Spectral Unmixing via Matrix Factorization: Identifiability Criteria for Sparse Abundances. , 2018, , .		2
966	Self-Dictionary Regression for Hyperspectral Image Super-Resolution. Remote Sensing, 2018, 10, 1574.	1.8	9
967	Hyperspectral Image Restoration under Complex Multi-Band Noises. Remote Sensing, 2018, 10, 1631.	1.8	7
968	Estimation of the number of endmembers in hyperspectral data using a weight-sequence geometry method. Spectroscopy Letters, 2018, 51, 476-484.	0.5	0
969	Blind Nonlinear Hyperspectral Unmixing Using an ℓ_q Regularizer. , 2018, , .		0
970	Spectral Image Fusion from Compressive Projections Using Total-Variation and Low-Rank Regularizations. , 2018, , .		4
971	Sparse Reconstruction of Hyperspectral Image using Bregman Iterations. , 2018, , .		0
972	A Novel Approach for Abundance Estimation Using Discontinuity Preserving Prior. , 2018, , .		2
973	Adaptive Hyperspectral Mixed Noise Removal. , 2018, , .		9
974	Robust Nonnegative Local Coordinate Factorization for Hyperspectral Unmixing. , 2018, , .		1
975	Inertia-Constrained Pixel-by-Pixel Nonnegative Matrix Factorisation: A Hyperspectral Unmixing Method Dealing with Intra-Class Variability. Remote Sensing, 2018, 10, 1706.	1.8	27
976	Monte Carlo Non-Local Means Method for Hyperspectral Image Denoising. , 2018, , .		2

#	ARTICLE	IF	CITATIONS
977	Sparsity-Constrained NMF Algorithm Based on Evolution Strategy for Hyperspectral Unmixing. MATEC Web of Conferences, 2018, 232, 04019.	0.1	1
978	Unsupervised Sparse Dirichlet-Net for Hyperspectral Image Super-Resolution. , 2018, , .		151
979	Comparison of Land Cover Maps Using High Resolution Multispectral and Hyperspectral Imagery. , 2018, , .		2
980	Hyperspectral Compressive Sensing on Low Energy Consumption Board. , 2018, , .		3
981	New Theory for Unmixing ILL-Conditioned Hyperspectral Mixtures. , 2018, , .		1
982	Provably and Roubst Blind Source Separation of Ill-Conditioned Hyperspectral Mixtures. , 2018, , .		0
983	Compressive Hyperspectral Imaging With Spatial and Spectral Priors. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 4156-4169.	2.3	4
984	Improving Portfolios Global Performance with Robust Covariance Matrix Estimation: Application to the Maximum Variety Portfolio. , 2018, , .		2
985	Deep Auto-Encoder Network for Hyperspectral Image Unmixing. , 2018, , .		5
986	Building a Hyperspectral Library and its Incorporation into Sparse Unmixing for Mineral Identification. , 2018, , .		0
987	Summary and Rationale. Springer Theses, 2018, , 1-7.	0.0	0
988	PIPA: A New Proximal Interior Point Algorithm for Large-Scale Convex Optimization. , 2018, , .		5
989	A framework for region based quantitative mapping using hybrid constrained PSO based approach. IOP Conference Series: Earth and Environmental Science, 2018, 169, 012079.	0.2	3
990	Double Reweighted Sparse Regression and Graph Regularization for Hyperspectral Unmixing. Remote Sensing, 2018, 10, 1046.	1.8	26
991	Hyperspectral Super-Resolution: A Coupled Tensor Factorization Approach. IEEE Transactions on Signal Processing, 2018, 66, 6503-6517.	3.2	141
992	Characterizing 32 years of shrub cover dynamics in southern Portugal using annual Landsat composites and machine learning regression modeling. Remote Sensing of Environment, 2018, 219, 353-364.	4.6	38
993	Comparison of VCA and GAEE algorithms for Endmember Extraction. , 2018, , .		4
994	Seabed Mapping in Coastal Shallow Waters Using High Resolution Multispectral and Hyperspectral Imagery. Remote Sensing, 2018, 10, 1208.	1.8	39

#	ARTICLE	IF	CITATIONS
995	Fusing Multiple Multiband Images. Journal of Imaging, 2018, 4, 118.	1.7	10
996	Hyperspectral Super-Resolution: Exact Recovery In Polynomial Time. , 2018, , .		10
997	Dim and Small Target Detection Based on Characteristic Spectrum. Journal of the Indian Society of Remote Sensing, 2018, 46, 1915-1923.	1.2	4
998	Least Angle Regression-Based Constrained Sparse Unmixing of Hyperspectral Remote Sensing Imagery. Remote Sensing, 2018, 10, 1546.	1.8	11
999	Multiple instance hybrid estimator for hyperspectral target characterization and sub-pixel target detection. ISPRS Journal of Photogrammetry and Remote Sensing, 2018, 146, 235-250.	4.9	46
1000	Hyperspectral unmixing employing l_1 sparsity and total variation regularization. International Journal of Remote Sensing, 2018, 39, 6037-6060.	1.3	24
1001	SULoRA: Subspace Unmixing With Low-Rank Attribute Embedding for Hyperspectral Data Analysis. IEEE Journal on Selected Topics in Signal Processing, 2018, 12, 1351-1363.	7.3	69
1002	A Robust PCA Approach With Noise Structure Learning and Spatial Spectral Low-Rank Modeling for Hyperspectral Image Restoration. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 3863-3879.	2.3	16
1003	Reconstruction of Partially Sampled Multiband Images Application to STEM-EELS Imaging. IEEE Transactions on Computational Imaging, 2018, 4, 585-598.	2.6	11
1004	Hyperspectral Super-Resolution: Combining Low Rank Tensor and Matrix Structure. , 2018, , .		14
1005	A Low-Rank Tensor Regularization Strategy for Hyperspectral Unmixing. , 2018, , .		18
1006	Unraveling hydrometeor mixtures in polarimetric radar measurements. Atmospheric Measurement Techniques, 2018, 11, 4847-4866.	1.2	30
1007	Bilinear Matrix Factorization using a Gradient Method for Unmixing Hyperspectral Images Combinedc with Multispectral Data. , 2018, , .		1
1008	Linear-Quadratic NMF-Based Urban Hyperspectral Data Unmixing With Some Known Endmembers. , 2018, , .		1
1009	Archetypal analysis for endmember bundle extraction considering spectral variability. , 2018, , .		4
1010	Spatially adaptive hyperspectral unmixing through endmembers analytical localization based on sums of anisotropic 2D Gaussians. ISPRS Journal of Photogrammetry and Remote Sensing, 2018, 141, 185-207.	4.9	5
1011	Spatial Discontinuity-Weighted Sparse Unmixing of Hyperspectral Images. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 5767-5779.	2.7	42
1012	CNN based sub-pixel mapping for hyperspectral images. Neurocomputing, 2018, 311, 51-64.	3.5	44

#	ARTICLE	IF	CITATIONS
1013	Hyperspectral Image Super-Resolution Based on Spatial and Spectral Correlation Fusion. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 4165-4177.	2.7	56
1014	Hybrid Unmixing Based on Adaptive Region Segmentation for Hyperspectral Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 3861-3875.	2.7	24
1015	Exploiting Structured Sparsity for Hyperspectral Anomaly Detection. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 4050-4064.	2.7	52
1016	Hyperspectral image restoration using framelet-regularized low-rank nonnegative matrix factorization. Applied Mathematical Modelling, 2018, 63, 128-147.	2.2	28
1017	A Simulation-Based Approach to Assess Subpixel Vegetation Structural Variation Impacts on Global Imaging Spectroscopy. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 4149-4164.	2.7	2
1018	Band-Wise Nonlinear Unmixing for Hyperspectral Imagery Using an Extended Multilinear Mixing Model. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 6747-6762.	2.7	28
1019	A New Deep Generative Network for Unsupervised Remote Sensing Single-Image Super-Resolution. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 6792-6810.	2.7	129
1020	Maximum Volume Inscribed Ellipsoid: A New Simplex-Structured Matrix Factorization Framework via Facet Enumeration and Convex Optimization. SIAM Journal on Imaging Sciences, 2018, 11, 1651-1679.	1.3	34
1021	Superpixel based spectral classification of hyperspectral images in different spaces. , 2018, , .		1
1022	Hyperspectral Unmixing Using Sparsity-Constrained Deep Nonnegative Matrix Factorization With Total Variation. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 6245-6257.	2.7	99
1023	Unmixing Polarimetric Radar Images Based on Land Cover Type Identified by Higher Resolution Optical Data Before Target Decomposition: Application to Forest and Bare Soil. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 5850-5862.	2.7	4
1024	A New Spectral-Spatial Sub-Pixel Mapping Model for Remotely Sensed Hyperspectral Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 6763-6778.	2.7	22
1025	Pixel Unmixing. , 2018, , 186-198.		0
1026	Self-Similarity Constrained Sparse Representation for Hyperspectral Image Super-Resolution. IEEE Transactions on Image Processing, 2018, 27, 5625-5637.	6.0	64
1027	Big Data Blind Separation. Entropy, 2018, 20, 150.	1.1	0
1028	An Endmember Initialization Scheme for Nonnegative Matrix Factorization and Its Application in Hyperspectral Unmixing. ISPRS International Journal of Geo-Information, 2018, 7, 195.	1.4	11
1029	Stacked Nonnegative Sparse Autoencoders for Robust Hyperspectral Unmixing. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 1427-1431.	1.4	76
1030	Estimating Nonlinearities in p-Linear Hyperspectral Mixtures. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 6586-6595.	2.7	6

#	ARTICLE	IF	CITATIONS
1031	Hyperspectral Unmixing via Low-Rank Representation with Space Consistency Constraint and Spectral Library Pruning. Remote Sensing, 2018, 10, 339.	1.8	47
1032	A New Algorithm for the On-Board Compression of Hyperspectral Images. Remote Sensing, 2018, 10, 428.	1.8	37
1033	An Assessment of Existing Methodologies to Retrieve Snow Cover Fraction from MODIS Data. Remote Sensing, 2018, 10, 619.	1.8	58
1034	Exploration of Planetary Hyperspectral Images with Unsupervised Spectral Unmixing: A Case Study of Planet Mars. Remote Sensing, 2018, 10, 737.	1.8	6
1035	A Hierarchical Sparsity Unmixing Method to Address Endmember Variability in Hyperspectral Image. Remote Sensing, 2018, 10, 738.	1.8	16
1036	Unsupervised Nonlinear Hyperspectral Unmixing Based on Bilinear Mixture Models via Geometric Projection and Constrained Nonnegative Matrix Factorization. Remote Sensing, 2018, 10, 801.	1.8	14
1037	Bilateral Filter Regularized L2 Sparse Nonnegative Matrix Factorization for Hyperspectral Unmixing. Remote Sensing, 2018, 10, 816.	1.8	16
1038	Contributions of Machine Learning to Remote Sensing Data Analysis. , 2018, , 199-243.		7
1039	Convolutional Neural Networks Based for High Spectral Dimensional Data Classification. , 2018, , .		0
1040	An Investigation Into the Impact of Band Error Variance Estimation on Intrinsic Dimension Estimation in Hyperspectral Images. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 3279-3296.	2.3	3
1041	Sparsity-Constrained Deep Nonnegative Matrix Factorization for Hyperspectral Unmixing. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 1105-1109.	1.4	19
1042	A Hierarchical Bayesian Model Accounting for Endmember Variability and Abrupt Spectral Changes to Unmix Multitemporal Hyperspectral Images. IEEE Transactions on Computational Imaging, 2018, 4, 32-45.	2.6	17
1043	Inferring Surface Albedo Prediction Error Linked to Forest Structure at High Latitudes. Journal of Geophysical Research D: Atmospheres, 2018, 123, 4910-4925.	1.2	13
1044	Saliency-Based Endmember Detection for Hyperspectral Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 3667-3680.	2.7	17
1045	Wide-Field fHSI with a Linescan SRDA. Springer Theses, 2018, , 51-85.	0.0	0
1046	Unmixing dynamic PET images with variable specific binding kinetics. Medical Image Analysis, 2018, 49, 117-127.	7.0	5
1047	Blind Sparse Nonlinear Hyperspectral Unmixing Using an ℓ_1/ℓ_2 Penalty. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 1907-1911.	1.4	8
1048	Abundance estimation of crossover double particle swarms optimization for hyperspectral remote sensing imagery. International Journal of Remote Sensing, 2018, 39, 9134-9158.	1.3	1

#	ARTICLE	IF	CITATIONS
1049	Multiharmonic Postnonlinear Mixing Model for Hyperspectral Nonlinear Unmixing. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 1765-1769.	1.4	18
1051	Simultaneous and Constrained Calibration of Multiple Hyperspectral Images Through a New Generalized Empirical Line Model. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 2047-2058.	2.3	5
1052	Quantum-inspired computational imaging. Science, 2018, 361, .	6.0	134
1053	Hyperspectral change detection: an experimental comparative study. International Journal of Remote Sensing, 2018, 39, 7029-7083.	1.3	69
1054	Blind Source Separation with Outliers in Transformed Domains. SIAM Journal on Imaging Sciences, 2018, 11, 1524-1559.	1.3	4
1055	Evaluation of Unmixing Methods for Impervious Surface Area Extraction From Simulated EnMAP Imagery. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 1777-1798.	2.3	2
1056	Kernel Low-Rank Multitask Learning in Variational Mode Decomposition Domain for Multi-/Hyperspectral Classification. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 4193-4208.	2.7	22
1057	Spatial Spectral Total Variation Regularized Low-Rank Tensor Decomposition for Hyperspectral Image Denoising. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 6196-6213.	2.7	125
1058	Hyperspectral Unmixing Based on Dual-Depth Sparse Probabilistic Latent Semantic Analysis. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 6344-6360.	2.7	44
1059	Estimation of Power Plant Emissions With Unscented Kalman Filter. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 2763-2772.	2.3	8
1060	Fuzziness-based active learning framework to enhance hyperspectral image classification performance for discriminative and generative classifiers. PLoS ONE, 2018, 13, e0188996.	1.1	28
1061	Vegetation species mapping in a coastal-dune ecosystem using high resolution satellite imagery. GIScience and Remote Sensing, 2019, 56, 210-232.	2.4	18
1062	Multiobjective-Based Sparse Representation Classifier for Hyperspectral Imagery Using Limited Samples. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 239-249.	2.7	19
1063	Long-Term Global Land Surface Satellite (GLASS) Fractional Vegetation Cover Product Derived From MODIS and AVHRR Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 508-518.	2.3	41
1064	Spectral Unmixing With Perturbed Endmembers. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 194-211.	2.7	9
1065	A Novel Anti-Jamming Driven Sparse Analysis-Based Spread Spectrum Communication Methodology. International Journal of Pattern Recognition and Artificial Intelligence, 2019, 33, 1958001.	0.7	2
1066	EndNet: Sparse AutoEncoder Network for Endmember Extraction and Hyperspectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 482-496.	2.7	122
1067	Hierarchical Bayesian image analysis: From low-level modeling to robust supervised learning. Pattern Recognition, 2019, 85, 26-36.	5.1	6

#	ARTICLE	IF	CITATIONS
1068	Discrete Mumford-Shah on Graph for Mixing Matrix Estimation. IEEE Signal Processing Letters, 2019, 26, 1275-1279.	2.1	2
1069	Regularization Parameter Selection in Minimum Volume Hyperspectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 9858-9877.	2.7	83
1070	GAEEL: An Optimised Genetic Algorithm Endmember Extractor for Hyperspectral Unmixing. , 2019, , .		0
1071	A Novel Hyperspectral Endmember Extraction Algorithm Based on Online Robust Dictionary Learning. Remote Sensing, 2019, 11, 1792.	1.8	5
1072	GPU Parallel Implementation of Dual-Depth Sparse Probabilistic Latent Semantic Analysis for Hyperspectral Unmixing. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 3156-3167.	2.3	11
1073	Spectral Super-Resolution for Multispectral Image Based on Spectral Improvement Strategy and Spatial Preservation Strategy. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 9010-9024.	2.7	42
1074	Improving Performance of Hyperspectral Unmixing Using Multi-Layer Perceptron by Generating an Appropriate Synthetic Library. , 2019, , .		1
1075	A Low-Rank Model for Compressive Spectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 9888-9899.	2.7	8
1076	Decision Fusion of Remote-Sensing Data for Land Cover Classification. , 2019, , 341-382.		5
1077	Simulation of an Algorithm for the Spectral Identification of Space Target Materials. Journal of Applied Spectroscopy, 2019, 86, 479-485.	0.3	2
1078	Unmixing Dynamic Pet Images: Combining Spatial Heterogeneity and Non-gaussian Noise. , 2019, , .		2
1079	Flexible Endoscopy: Multispectral Imaging. Springer Theses, 2019, , 101-126.	0.0	0
1080	Spectral-Spatial Discriminant Feature Learning for Hyperspectral Image Classification. Remote Sensing, 2019, 11, 1552.	1.8	9
1081	Hypergraph Learning and Reweighted $\ell_{1/2}$ -Norm Minimization for Hyperspectral Unmixing. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 1898-1904.	2.3	9
1082	Hyperspectral Anomaly Detection via Convolutional Neural Network and Low Rank With Density-Based Clustering. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 3637-3649.	2.3	55
1083	Improving Reliability in Nonlinear Hyperspectral Unmixing by Multidimensional Structural Optimization. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 5211-5223.	2.7	5
1084	An Improved Multiobjective Discrete Particle Swarm Optimization for Hyperspectral Endmember Extraction. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 7872-7882.	2.7	29
1085	A Laboratory-Created Dataset With Ground Truth for Hyperspectral Unmixing Evaluation. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 2170-2183.	2.3	15

#	ARTICLE	IF	CITATIONS
1086	Sparsity measure based library aided unmixing of hyperspectral image. IET Image Processing, 2019, 13, 2077-2085.	1.4	18
1087	Influence of Soil Background on Spectral Reflectance of Winter Wheat Crop Canopy. Remote Sensing, 2019, 11, 1932.	1.8	44
1088	Regional Scale Dryland Vegetation Classification with an Integrated Lidar-Hyperspectral Approach. Remote Sensing, 2019, 11, 2141.	1.8	10
1089	Spectral reflectance characterization and fiber type discrimination for common natural textile materials using a portable spectroradiometer. Journal of Archaeological Science, 2019, 111, 105026.	1.2	11
1090	A Simulation Environment for Validation and Verification of Real Time Hyperspectral Processing Algorithms on-Board a UAV. Remote Sensing, 2019, 11, 1852.	1.8	1
1091	Peanut maturity classification using hyperspectral imagery. Biosystems Engineering, 2019, 188, 165-177.	1.9	23
1092	Feature Extraction and Classification for Remote Sensing Imagery Based on Orthogonal Frequency Division Method. IOP Conference Series: Materials Science and Engineering, 2019, 490, 072022.	0.3	1
1093	Spatiotemporal Comparison and Validation of Three Global-Scale Fractional Vegetation Cover Products. Remote Sensing, 2019, 11, 2524.	1.8	20
1094	Toward Quantifying Oil Contamination in Vegetated Areas Using Very High Spatial and Spectral Resolution Imagery. Remote Sensing, 2019, 11, 2241.	1.8	17
1095	Hyperspectral Unmixing with Gaussian Mixture Model and Spatial Group Sparsity. Remote Sensing, 2019, 11, 2434.	1.8	14
1096	Hyperspectral Push-Broom Microscope Development and Characterization. IEEE Access, 2019, 7, 122473-122491.	2.6	20
1097	A Graph Regularized Multilinear Mixing Model for Nonlinear Hyperspectral Unmixing. Remote Sensing, 2019, 11, 2188.	1.8	12
1098	Spectral-Spatial Hyperspectral Unmixing Using Multitask Learning. IEEE Access, 2019, 7, 148861-148872.	2.6	27
1099	Sample Selection with SOMP for Robust Basis Recovery in Sparse Coding Dictionary Learning. IEEE Letters of the Computer Society, 2019, 2, 28-31.	1.1	4
1100	Supervised Distance-Based Feature Selection for Hyperspectral Target Detection. Remote Sensing, 2019, 11, 2049.	1.8	4
1101	Sparse Hyperspectral Unmixing Using Spectral Library Adaptive Adjustment. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 4873-4887.	2.3	2
1102	A Hardware-Friendly Hyperspectral Lossy Compressor for Next-Generation Space-Grade Field Programmable Gate Arrays. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 4813-4828.	2.3	10
1103	A Classification-Based Model for Multi-Objective Hyperspectral Sparse Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 9612-9625.	2.7	26

#	ARTICLE	IF	CITATIONS
1104	Fast Hyperspectral Unmixing via Reweighted Sparse Regression. IEICE Transactions on Information and Systems, 2019, E102.D, 1819-1832.	0.4	0
1105	An Unsupervised Binary and Multiple Change Detection Approach for Hyperspectral Imagery Based on Spectral Unmixing. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 4888-4906.	2.3	29
1106	Simultaneous Nonconvex Denoising and Unmixing for Hyperspectral Imaging. IEEE Access, 2019, 7, 124426-124440.	2.6	7
1107	Partial Linear NMF-Based Unmixing Methods for Detection and Area Estimation of Photovoltaic Panels in Urban Hyperspectral Remote Sensing Data. Remote Sensing, 2019, 11, 2164.	1.8	32
1108	DAEN: Deep Autoencoder Networks for Hyperspectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 4309-4321.	2.7	186
1109	Region-Based Multiview Sparse Hyperspectral Unmixing Incorporating Spectral Library. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 1140-1144.	1.4	10
1110	Hyperspectral Unmixing With Spectral Variability Using Adaptive Bundles and Double Sparsity. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 3980-3992.	2.7	41
1111	Hyperspectral Image Unmixing With Endmember Bundles and Group Sparsity Inducing Mixed Norms. IEEE Transactions on Image Processing, 2019, 28, 3435-3450.	6.0	68
1112	On Clustering and Embedding Mixture Manifolds Using a Low Rank Neighborhood Approach. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 3890-3903.	2.7	4
1113	Improved Estimation of the Intrinsic Dimension of a Hyperspectral Image Using Random Matrix Theory. Remote Sensing, 2019, 11, 1049.	1.8	7
1114	Abundance Estimation Using Discontinuity Preserving and Sparsity-Induced Priors. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 2148-2158.	2.3	7
1115	Low-loss EELS methods. Advances in Imaging and Electron Physics, 2019, , 49-77.	0.1	1
1116	Unmixing K -Gaussians With Application to Hyperspectral Imaging. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 7281-7293.	2.7	8
1117	Endmember extraction from hyperspectral imagery based on QR factorisation using givens rotations. IET Image Processing, 2019, 13, 332-343.	1.4	2
1118	Sparse Subspace Clustering for Hyperspectral Images with Missing Pixels. , 2019, , .		1
1119	Kernel-Based Nonlinear Spectral Unmixing with Dictionary Pruning. Remote Sensing, 2019, 11, 529.	1.8	8
1120	Hyperspectral Unmixing with Gaussian Mixture Model and Low-Rank Representation. Remote Sensing, 2019, 11, 911.	1.8	21
1121	Joint Local Block Grouping with Noise-Adjusted Principal Component Analysis for Hyperspectral Remote-Sensing Imagery Sparse Unmixing. Remote Sensing, 2019, 11, 1223.	1.8	11

#	ARTICLE	IF	CITATIONS
1122	Non-contact and non-destructive detection and identification of Bacillus anthracis inside paper envelopes. Forensic Science International, 2019, 301, e55-e58.	1.3	3
1123	Tensor decomposition of hyperspectral images to study autofluorescence in age-related macular degeneration. Medical Image Analysis, 2019, 56, 96-109.	7.0	9
1124	Spatial Density Peak Clustering for Hyperspectral Image Classification With Noisy Labels. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 5085-5097.	2.7	71
1125	A CNN-Based Spatial Feature Fusion Algorithm for Hyperspectral Imagery Classification. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 7170-7181.	2.7	32
1126	Hyperspectral image denoising with bilinear low rank matrix factorization. Signal Processing, 2019, 163, 132-152.	2.1	31
1127	Combining MODIS and National Land Resource Products to Model Land Cover-Dependent Surface Albedo for Norway. Remote Sensing, 2019, 11, 871.	1.8	4
1128	Complete deconvolution of cellular mixtures based on linearity of transcriptional signatures. Nature Communications, 2019, 10, 2209.	5.8	74
1129	Hyperspectral image classification using Non-negative Tensor Factorization and 3D Convolutional Neural Networks. Signal Processing: Image Communication, 2019, 76, 178-185.	1.8	16
1130	A novel joint dictionary framework for sparse hyperspectral unmixing incorporating spectral library. Neurocomputing, 2019, 356, 97-106.	3.5	4
1131	A UAV Platform Based on a Hyperspectral Sensor for Image Capturing and On-Board Processing. IEEE Access, 2019, 7, 66919-66938.	2.6	54
1132	Image Fusion. Data Handling in Science and Technology, 2019, , 311-344.	3.1	8
1133	Nonlinear unmixing of minerals based on the log and continuum removal model. European Journal of Remote Sensing, 2019, 52, 277-293.	1.7	9
1134	Stochastic MI Simplex-structured Matrix Factorization under the Dirichlet Mixture Model. , 2019, , .		3
1135	An Unmixing-Based Bayesian Model for Spatio-Temporal Satellite Image Fusion in Heterogeneous Landscapes. Remote Sensing, 2019, 11, 324.	1.8	20
1136	Hyperspectral Image Denoising Using Group Low-Rank and Spatial-Spectral Total Variation. IEEE Access, 2019, 7, 52095-52109.	2.6	14
1137	Hyperspectral Classification Through Unmixing Abundance Maps Addressing Spectral Variability. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 4775-4788.	2.7	28
1138	An Improved Quantum-Behaved Particle Swarm Optimization for Endmember Extraction. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 6003-6017.	2.7	77
1139	Blind Hyperspectral Unmixing Considering the Adjacency Effect. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 6633-6649.	2.7	17

#	ARTICLE	IF	CITATIONS
1140	Subpixel Component Analysis for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 5564-5579.	2.7	12
1141	Domain Transfer Learning for Hyperspectral Image Super-Resolution. Remote Sensing, 2019, 11, 694.	1.8	13
1142	Sparsity-Constrained Distributed Unmixing of Hyperspectral Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 1279-1288.	2.3	14
1143	Factor Analysis of Dynamic PET Images: Beyond Gaussian Noise. IEEE Transactions on Medical Imaging, 2019, 38, 2231-2241.	5.4	6
1144	ExSIS: Extended sure independence screening for ultrahigh-dimensional linear models. Signal Processing, 2019, 159, 33-48.	2.1	4
1145	Unsupervised Deep Noise Modeling for Hyperspectral Image Change Detection. Remote Sensing, 2019, 11, 258.	1.8	87
1146	Remote Estimation of Rice Yield With Unmanned Aerial Vehicle (UAV) Data and Spectral Mixture Analysis. Frontiers in Plant Science, 2019, 10, 204.	1.7	68
1147	Hyperspectral Image Denoising via Subspace-Based Nonlocal Low-Rank and Sparse Factorization. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 973-988.	2.3	49
1148	The effect of contaminated snow reflectance using hyperspectral remote sensing – a review. International Journal of Image and Data Fusion, 2019, 10, 107-130.	0.8	5
1149	Total Variation and Signature-Based Regularizations on Coupled Nonnegative Matrix Factorization for Data Fusion. IEEE Access, 2019, 7, 2695-2706.	2.6	10
1150	Endmember Extraction From Highly Mixed Data Using Linear Mixture Model Constrained Particle Swarm Optimization. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 5502-5511.	2.7	10
1151	Abundance-Indicated Subspace for Hyperspectral Classification With Limited Training Samples. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 1265-1278.	2.3	12
1152	An analysis of spectral variability in hyperspectral imagery: a case study of stressed oil palm detection in Colombia. International Journal of Remote Sensing, 2019, 40, 7603-7623.	1.3	12
1153	Nonlinear Unmixing of Hyperspectral Data via Deep Autoencoder Networks. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 1467-1471.	1.4	80
1154	Noniterative Hyperspectral Image Reconstruction From Compressive Fused Measurements. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 1231-1239.	2.3	33
1155	Nonlinear Hyperspectral Unmixing With Graphical Models. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 4844-4856.	2.7	23
1156	3D hyperspectral point cloud generation: Fusing airborne laser scanning and hyperspectral imaging sensors for improved object-based information extraction. ISPRS Journal of Photogrammetry and Remote Sensing, 2019, 149, 200-214.	4.9	23
1157	ANSGA-III: A Multiobjective Endmember Extraction Algorithm for Hyperspectral Images. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 700-721.	2.3	15

#	ARTICLE	IF	CITATIONS
1159	Mapping annual forest cover by fusing PALSAR/PALSAR-2 and MODIS NDVI during 2007â€“2016. Remote Sensing of Environment, 2019, 224, 74-91.	4.6	52
1160	Near-Separable Non-negative Matrix Factorization Using L1-Optimization. , 2019, , .		0
1161	Collaborative sparse unmixing using variable splitting and augmented Lagrangian with total variation. International Journal of Computer Applications in Technology, 2019, 61, 94.	0.3	0
1162	Clay Minerals Mapping from Imaging Spectroscopy. , 2019, , .		3
1163	Multisensor fusion for the accurate classification of vegetation in complex ecosystems. , 2019, , .		0
1164	Active Set Type Algorithms for Nonnegative Matrix Factorization in Hyperspectral Unmixing. Mathematical Problems in Engineering, 2019, 2019, 1-10.	0.6	4
1165	Towards Spectral Estimation from a Single RGB Image in the Wild. , 2019, , .		23
1166	Color Estimation Using Nanowires Sensors. , 2019, , .		1
1167	Fast Hyperspectral Subspace identification using Eigenvalue based energy thresholding. , 2019, , .		4
1168	Comparison of target detection techniques for hyperspectral images. , 2019, , .		3
1169	Hyperspectral Compressive Sensing Using Improved Linear Mixing Model. , 2019, , .		0
1170	A Novel Approach for Abundance Estimation in Wavelet Domain. , 2019, , .		1
1171	Blind Source Separation Based Framework for Multispectral Document Images Binarization. , 2019, , .		2
1173	Local Block Grouping with Napca Spatial Preprocessing for Hyperspectral Remote Sensing Imagery Sparse Unmixing. , 2019, , .		1
1174	Hyperspectral Unmixing Based on Sparsity-Constrained Nonnegative Matrix Factorization with Adaptive Total Variation. , 2019, , .		3
1175	Superpixel-Guided Sparse Unmixing for Remotely Sensed Hyperspectral Imagery. , 2019, , .		12
1176	Hyperspectral Oceanic Remote Sensing With Adjacency Effects: From Spectral-Variability-Based Modeling To Performance Of Associated Blind Unmixing Methods. , 2019, , .		2
1177	Hyperspectral Endmember Extraction using Band Quality. , 2019, , .		6

#	ARTICLE	IF	CITATIONS
1178	Endmember Learning with K-Means through SCD Model in Hyperspectral Scene Reconstructions. Journal of Imaging, 2019, 5, 85.	1.7	6
1179	An Efficient Compressive Hyperspectral Imaging Algorithm Based on Sequential Computations of Alternating Least Squares. Remote Sensing, 2019, 11, 2932.	1.8	2
1180	Sparse Unmixing for Hyperspectral Image with Nonlocal Low-Rank Prior. Remote Sensing, 2019, 11, 2897.	1.8	13
1181	Non-Local Meets Global: An Integrated Paradigm for Hyperspectral Denoising. , 2019, , .		96
1182	An NMF-Based Approach for Hyperspectral Unmixing Using a New Multiplicative-tuning Linear Mixing Model to Address Spectral Variability. , 2019, , .		7
1183	Constrained Low-Tubal-Rank Tensor Recovery for Hyperspectral Images Mixed Noise Removal by Bilateral Random Projections. , 2019, , .		1
1184	Dynamic Material-Aware Object Tracking in Hyperspectral Videos. , 2019, , .		11
1185	Is There Any Recovery Guarantee with Coupled Structured Matrix Factorization for Hyperspectral Super-Resolution?. , 2019, , .		3
1186	Unsupervised Learning of Nonlinear Mixtures: Identifiability and Algorithm. , 2019, , .		2
1187	Hyperspectral Unmixing Using Weighted L1/2 Sparse Total Variation Regularized and Volume Prior Constrained Nonnegative Matrix Factorization. , 2019, , .		2
1188	Enhancing Hyperspectral Unmixing With Two-Stage Multiplicative Update Nonnegative Matrix Factorization. IEEE Access, 2019, 7, 171023-171031.	2.6	3
1189	Joint-Sparse-Blocks Regression for Total Variation Regularized Hyperspectral Unmixing. IEEE Access, 2019, 7, 138779-138791.	2.6	9
1190	LiDAR Data-Aided Hypergraph Regularized Multi-Modal Unmixing. , 2019, , .		2
1191	An Unmixing-Based Change Detection Approach for Multiresolution Remote Sensing Images. , 2019, , .		2
1192	A Novel Geo-Stat Endmember Extraction Algorithm. , 2019, , .		7
1193	Row-Sparsity Spectral Unmixing via Total Variation. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 5009-5022.	2.3	11
1194	Hyperspectral imaging in color vision research: tutorial. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2019, 36, 606.	0.8	47
1195	Zero-Shot Hyperspectral Image Denoising With Separable Image Prior. , 2019, , .		27

#	ARTICLE	IF	CITATIONS
1196	DNN-based Hyperspectral Image Denoising with Spatio-spectral Pre-training. , 2019, , .		1
1197	A Supervised Method for Nonlinear Hyperspectral Unmixing. Remote Sensing, 2019, 11, 2458.	1.8	13
1198	Optimal Band Analysis of a Space-Based Multispectral Sensor for Urban Air Pollutant Detection. Atmosphere, 2019, 10, 631.	1.0	2
1199	Development and verification of the coaxial heterogeneous hyperspectral system for the Wax Apple tree. , 2019, , .		2
1200	Identifiability of Complete Dictionary Learning. SIAM Journal on Mathematics of Data Science, 2019, 1, 518-536.	1.0	3
1201	Assessing the impact of endmember variability on linear Spectral Mixture Analysis (LSMA): A theoretical and simulation analysis. Remote Sensing of Environment, 2019, 235, 111471.	4.6	33
1202	Spatial Characterization Of Marine Vegetation Using Semisupervised Hyperspectral Unmixing. , 2019, , .		2
1203	Spectral Representation via Data-Guided Sparsity for Hyperspectral Image Super-Resolution. Sensors, 2019, 19, 5401.	2.1	1
1204	Experimental and Numerical Investigation of Dustfall Effect on Remote Sensing Retrieval Accuracy of Chlorophyll Content. Sensors, 2019, 19, 5530.	2.1	3
1205	Multi-Task Learning with Low-Rank Matrix Factorization for Hyperspectral Nonlinear Unmixing. , 2019, , .		8
1206	Si-NCs embedded in dielectric matrices. Advances in Imaging and Electron Physics, 2019, , 175-203.	0.1	0
1207	Deep learning classifiers for hyperspectral imaging: A review. ISPRS Journal of Photogrammetry and Remote Sensing, 2019, 158, 279-317.	4.9	580
1208	Decision Fusion Based on Joint Low Rank and Sparse Component for Hyperspectral Image Classification. , 2019, , .		0
1209	Hyperspectral Anomaly Detection via Spatial Density Background Purification. Remote Sensing, 2019, 11, 2618.	1.8	25
1210	Using spectral Geodesic and spatial Euclidean weights of neighbourhood pixels for hyperspectral Endmember Extraction preprocessing. ISPRS Journal of Photogrammetry and Remote Sensing, 2019, 158, 201-218.	4.9	12
1211	Weighted Blind \hat{a} , " $\langle \sub q \rangle$ " Hyperspectral Unmixing. , 2019, , .		0
1212	Fusion of Hyperspectral and Multispectral Images With Sparse and Proximal Regularization. IEEE Access, 2019, 7, 186352-186363.	2.6	6
1213	A New Hyperspectral Unmixing Method Using Co-Registered Hyperspectral and Panchromatic Images. , 2019, , .		2

#	ARTICLE	IF	CITATIONS
1214	Fast Blind Hyperspectral Unmixing Based On Graph Laplacian. , 2019, , .		6
1215	Methoden zur hyperspektralen Bildverarbeitung unter Einbezug von Nachbarschaftsinformation. TM Technisches Messen, 2019, 86, 187-196.	0.3	0
1216	How to Apply Random Projections to Nonnegative Matrix Factorization with Missing Entries?. , 2019, , .		2
1217	Tree Species Classification Based on Hybrid Ensembles of a Convolutional Neural Network (CNN) and Random Forest Classifiers. Remote Sensing, 2019, 11, 2788.	1.8	31
1218	Weighted Group Sparsity Regularized Low-Rank Tensor Decomposition for Hyperspectral Image Restoration. , 2019, , .		3
1219	A Spatial Energy And Spectral Purity Based Preprocessing Algorithm For Fast Hyperspectral Endmember Extraction. , 2019, , .		3
1220	Hyperspectral Target Detection With Macro-Micro Feature Extracted by 3-D Residual Autoencoder. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 4907-4919.	2.3	23
1221	Non-Destructive Prediction of Pork Meat Degradation using a Stacked Autoencoder Classifier on Hyperspectral Images. , 2019, , .		0
1222	Upscaling High-Resolution Mineralogical Analyses to Estimate Mineral Abundances in Drill Core Hyperspectral Data. , 2019, , .		4
1223	Joint unmixing-deconvolution algorithms for hyperspectral images. , 2019, , .		0
1224	Hyperspectral Image Denoising Via Convex Low-Fibered-Rank Regularization. , 2019, , .		1
1225	Gradient-Based Joint-Variables Nonnegative Matrix Factorization for Multi-Sharpening Hyperspectral Remote Sensing Data. , 2019, , .		0
1226	Landslide Detection of Hyperspectral Remote Sensing Data Based on Deep Learning With Constrains. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 5047-5060.	2.3	85
1227	Matrix Cofactorization for Joint Unmixing and Classification of Hyperspectral Images. , 2019, , .		0
1228	Hyperspectral Unmixing Using Deep Learning. , 2019, , .		2
1229	Abundance-Guided Superpixels and Recurrent Neural Network for Hyperspectral Image Classification. , 2019, , .		1
1230	Hyperspectral Endmember Extraction Using Spatially Weighted Simplex Strategy. Remote Sensing, 2019, 11, 2147.	1.8	11
1231	A Convergent Image Fusion Algorithm Using Scene-Adapted Gaussian-Mixture-Based Denoising. IEEE Transactions on Image Processing, 2019, 28, 451-463.	6.0	64

#	ARTICLE	IF	CITATIONS
1232	Comparative study of remote sensing estimation methods for grassland fractional vegetation coverage – a grassland case study performed in Ili prefecture, Xinjiang, China. <i>International Journal of Remote Sensing</i> , 2019, 40, 2243-2258.	1.3	11
1233	Detection of changes in shallow coral reefs status: Towards a spatial approach using hyperspectral and multispectral data. <i>Ecological Indicators</i> , 2019, 96, 174-191.	2.6	35
1234	Reconstruction From Multispectral to Hyperspectral Image Using Spectral Library-Based Dictionary Learning. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019, 57, 1325-1335.	2.7	19
1235	Unsupervised hyperspectral band selection by combination of unmixing and sequential clustering techniques. <i>European Journal of Remote Sensing</i> , 2019, 52, 30-39.	1.7	10
1236	Reweighted local collaborative sparse regression for hyperspectral unmixing. <i>Infrared Physics and Technology</i> , 2019, 97, 277-286.	1.3	10
1237	Spatiotemporal Subpixel Geographical Evolution Mapping. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019, 57, 2198-2220.	2.7	12
1238	Multispectral Image Super-Resolution via RGB Image Fusion and Radiometric Calibration. <i>IEEE Transactions on Image Processing</i> , 2019, 28, 1783-1797.	6.0	34
1239	An Augmented Linear Mixing Model to Address Spectral Variability for Hyperspectral Unmixing. <i>IEEE Transactions on Image Processing</i> , 2019, 28, 1923-1938.	6.0	643
1240	A low complexity hardware architecture of K-means algorithm for real-time satellite image segmentation. <i>Multimedia Tools and Applications</i> , 2019, 78, 11949-11981.	2.6	13
1241	Spectral Super Resolution of Hyperspectral Images via Coupled Dictionary Learning. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019, 57, 2777-2797.	2.7	28
1242	Segmented convex-hull algorithms for near-separable NMF and NTF. <i>Neurocomputing</i> , 2019, 331, 150-164.	3.5	9
1243	A Fast Multiscale Spatial Regularization for Sparse Hyperspectral Unmixing. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2019, 16, 598-602.	1.4	76
1244	Detection and Identification of Sub-Millimeter Films of Organic Compounds on Environmental Surfaces Using Short-Wave Infrared Hyperspectral Imaging: Algorithm Development Using a Synthetic Set of Targets. <i>IEEE Sensors Journal</i> , 2019, 19, 2657-2664.	2.4	11
1245	Use of Hyperspectral/Multispectral Imaging in Gastroenterology. Shedding Some “Different” Light into the Dark. <i>Journal of Clinical Medicine</i> , 2019, 8, 36.	1.0	92
1246	Nonconvex-Sparsity and Nonlocal-Smoothness-Based Blind Hyperspectral Unmixing. <i>IEEE Transactions on Image Processing</i> , 2019, 28, 2991-3006.	6.0	117
1247	Partially Asynchronous Distributed Unmixing of Hyperspectral Images. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019, 57, 2009-2021.	2.7	4
1248	The assessment of water-borne erosion at catchment level using GIS-based RUSLE and remote sensing: A review. <i>International Soil and Water Conservation Research</i> , 2019, 7, 27-46.	3.0	154
1249	Hyperspectral Image Denoising Based on Spectral Dictionary Learning and Sparse Coding. <i>Electronics (Switzerland)</i> , 2019, 8, 86.	1.8	13

#	ARTICLE	IF	CITATIONS
1250	Low-rank Bayesian tensor factorization for hyperspectral image denoising. <i>Neurocomputing</i> , 2019, 331, 412-423.	3.5	17
1251	An Outlier-Insensitive Unmixing Algorithm With Spatially Varying Hyperspectral Signatures. <i>IEEE Access</i> , 2019, 7, 15086-15101.	2.6	5
1252	Snow Cover Estimation From Image Time Series Based on Spectral Unmixing. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2019, 16, 337-341.	1.4	1
1253	Hyperspectral Unmixing via Total Variation Regularized Nonnegative Tensor Factorization. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019, 57, 2341-2357.	2.7	66
1254	Spatial spectral preprocessing for spectral unmixing. <i>International Journal of Remote Sensing</i> , 2019, 40, 1357-1373.	1.3	6
1256	Unsupervised Nonlinear Spectral Unmixing of Satellite Images Using the Modified Bilinear Model. <i>Journal of the Indian Society of Remote Sensing</i> , 2019, 47, 573-584.	1.2	3
1257	uDAS: An Untied Denoising Autoencoder With Sparsity for Spectral Unmixing. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019, 57, 1698-1712.	2.7	144
1258	FPGA implementation of a maximum simplex volume algorithm for endmember extraction from remotely sensed hyperspectral images. <i>Journal of Real-Time Image Processing</i> , 2019, 16, 1681-1694.	2.2	8
1259	A framework for mixed-use decomposition based on temporal activity signatures extracted from big geo-data. <i>International Journal of Digital Earth</i> , 2020, 13, 708-726.	1.6	39
1260	Parallel implementation of multiple kernel self-organizing maps for spectral unmixing. <i>Journal of Real-Time Image Processing</i> , 2020, 17, 1267-1284.	2.2	1
1261	Nonnegative Matrix Factorization Via Archetypal Analysis. <i>Journal of the American Statistical Association</i> , 2020, 115, 896-907.	1.8	8
1262	Distributed Coupled Multiagent Stochastic Optimization. <i>IEEE Transactions on Automatic Control</i> , 2020, 65, 175-190.	3.6	25
1263	Comparative Analysis of Unmixing Algorithms Using Synthetic Hyperspectral Data. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 945-955.	0.5	2
1264	Hyperspectral Image Restoration Using Weighted Group Sparsity-Regularized Low-Rank Tensor Decomposition. <i>IEEE Transactions on Cybernetics</i> , 2020, 50, 3556-3570.	6.2	142
1265	Kronecker least angle regression for unsupervised unmixing of hyperspectral imaging data. <i>Signal, Image and Video Processing</i> , 2020, 14, 359-367.	1.7	5
1266	Kernel sparse representation for hyperspectral unmixing based on high mutual coherence spectral library. <i>International Journal of Remote Sensing</i> , 2020, 41, 1286-1301.	1.3	3
1267	Estimation of the Number of Endmembers via Thresholding Ridge Ratio Criterion. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020, 58, 637-649.	2.7	7
1268	Semi-blind sparse affine spectral unmixing of autofluorescence-contaminated micrographs. <i>Bioinformatics</i> , 2020, 36, 910-917.	1.8	10

#	ARTICLE	IF	CITATIONS
1269	Sparse unmixing of hyperspectral data with bandwise model. <i>Information Sciences</i> , 2020, 512, 1424-1441.	4.0	15
1270	A manifold Hessian-regularized NMF for hyperspectral data unmixing. <i>Remote Sensing Letters</i> , 2020, 11, 86-95.	0.6	4
1271	A Proximal Interior Point Algorithm with Applications to Image Processing. <i>Journal of Mathematical Imaging and Vision</i> , 2020, 62, 919-940.	0.8	4
1272	Global Spatial and Local Spectral Similarity-Based Manifold Learning Group Sparse Representation for Hyperspectral Imagery Classification. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020, 58, 3043-3056.	2.7	52
1273	Mixed Noise Removal in Hyperspectral Image via Low-Fibered-Rank Regularization. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020, 58, 734-749.	2.7	139
1274	Comparison of Different Multispectral Sensors for Photosynthetic and Non-Photosynthetic Vegetation-Fraction Retrieval. <i>Remote Sensing</i> , 2020, 12, 115.	1.8	24
1275	Hyperspectral Images Super-Resolution via Learning High-Order Coupled Tensor Ring Representation. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2020, 31, 4747-4760.	7.2	79
1276	Hyperspectral Image Denoising With Total Variation Regularization and Nonlocal Low-Rank Tensor Decomposition. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020, 58, 3071-3084.	2.7	111
1277	Matrix cofactorization for joint representation learning and supervised classification – Application to hyperspectral image analysis. <i>Neurocomputing</i> , 2020, 385, 132-147.	3.5	2
1278	Double-stage linear spectral unmixing analysis for improving accuracy of sediment concentration estimation from MODIS data: the case of Tekeze River, Ethiopia. <i>Modeling Earth Systems and Environment</i> , 2020, 6, 407-416.	1.9	2
1279	Subspace Clustering Constrained Sparse NMF for Hyperspectral Unmixing. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020, 58, 3007-3019.	2.7	41
1280	A plug-and-play Hyperspectral Imaging Sensor using low-cost equipment. <i>HardwareX</i> , 2020, 7, e00087.	1.1	23
1281	Adaptive Image Sampling Using Deep Learning and Its Application on X-Ray Fluorescence Image Reconstruction. <i>IEEE Transactions on Multimedia</i> , 2020, 22, 2564-2578.	5.2	25
1282	Combined Nonlocal Spatial Information and Spatial Group Sparsity in NMF for Hyperspectral Unmixing. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2020, 17, 1767-1771.	1.4	11
1283	A partial least squares-based approach to assess the light penetration depth in wheat flour by near infrared hyperspectral imaging. <i>Journal of Near Infrared Spectroscopy</i> , 2020, 28, 25-36.	0.8	10
1284	An Integrated Approach to Registration and Fusion of Hyperspectral and Multispectral Images. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020, 58, 3020-3033.	2.7	34
1285	Applications in remote sensing – natural landscapes. <i>Data Handling in Science and Technology</i> , 2020, 32, 371-410.	3.1	1
1286	Spectral Unmixing: A Derivation of the Extended Linear Mixing Model From the Hapke Model. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2020, 17, 1866-1870.	1.4	19

#	ARTICLE	IF	CITATIONS
1287	Spectral-Spatial-Temporal MAP-Based Sub-Pixel Mapping for Land-Cover Change Detection. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 1696-1717.	2.7	25
1288	Endmember Selection of Hyperspectral Images based on Evolutionary Multitask. , 2020, , .		5
1289	Deep Nonnegative Dictionary Factorization for Hyperspectral Unmixing. Remote Sensing, 2020, 12, 2882.	1.8	1
1290	Using a Panchromatic Image to Improve Hyperspectral Unmixing. Remote Sensing, 2020, 12, 2834.	1.8	3
1291	Dissecting complex nanoparticle heterostructures via multimodal data fusion with aberration-corrected STEM spectroscopy. Ultramicroscopy, 2020, 219, 113116.	0.8	13
1292	Unmixing of hyperspectral data for mineral detection using a hybrid method, Sar Chah-e Shur, Iran. Arabian Journal of Geosciences, 2020, 13, 1.	0.6	5
1293	Urban Land Cover Mapping from Airborne Hyperspectral Imagery Using a Fast Jointly Sparse Spectral Mixture Analysis Method. Canadian Journal of Remote Sensing, 2020, 46, 330-343.	1.1	1
1294	FusionNet: An Unsupervised Convolutional Variational Network for Hyperspectral and Multispectral Image Fusion. IEEE Transactions on Image Processing, 2020, 29, 7565-7577.	6.0	59
1295	Spectral-Similarity-Based Kernel of SVM for Hyperspectral Image Classification. Remote Sensing, 2020, 12, 2154.	1.8	27
1296	An algorithm for hyperspectral remote sensing of aerosols: 3. Application to the GEO-TASO data in KORUS-AQ field campaign. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 253, 107161.	1.1	16
1297	Fast algorithm with theoretical guarantees for constrained low-tubal-rank tensor recovery in hyperspectral images denoising. Neurocomputing, 2020, 413, 397-409.	3.5	11
1298	Introduction to Multivariate Curve Resolution. , 2020, , 85-94.		5
1299	Detecting And Mapping Kaolinite In The Algerian Central Hoggar With A Partial Linear Nmf-Based Unmixing Method. , 2020, , .		4
1300	Hyperspectral Unmixing Using Spectral Library Sparse Scaling and Guided Filter. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	1
1301	Non-Linear Spectral Unmixing for the Estimation of the Distribution of Graphene Oxide Deposition on 3D Printed Composites. Applied Sciences (Switzerland), 2020, 10, 7792.	1.3	2
1302	Maximum Likelihood Estimation of Regularization Parameters in High-Dimensional Inverse Problems: An Empirical Bayesian Approach. Part II: Theoretical Analysis. SIAM Journal on Imaging Sciences, 2020, 13, 1990-2028.	1.3	10
1303	A Sturdy Nonlinear Hyperspectral Unmixing. IETE Journal of Research, 2020, , 1-16.	1.8	2
1304	Lossy Compression of Multichannel Remote Sensing Images with Quality Control. Remote Sensing, 2020, 12, 3840.	1.8	17

#	ARTICLE	IF	CITATIONS
1305	Blood Stain Classification with Hyperspectral Imaging and Deep Neural Networks. <i>Sensors</i> , 2020, 20, 6666.	2.1	18
1306	Smart Scattering Scanning Near-Field Optical Microscopy. <i>ACS Photonics</i> , 2020, 7, 3346-3352.	3.2	9
1307	Automated extraction of dominant endmembers from hyperspectral image using SUnSAL and HySime. <i>International Journal of Computer Aided Engineering and Technology</i> , 2020, 12, 273.	0.1	0
1308	Semi-supervised classification of hyperspectral images based on two branch autoencoder. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020, 502, 012014.	0.2	1
1309	Mapping Benthic Habitats by Extending Non-Negative Matrix Factorization to Address the Water Column and Seabed Adjacency Effects. <i>Remote Sensing</i> , 2020, 12, 2072.	1.8	6
1310	Self-weighted collaborative representation for hyperspectral anomaly detection. <i>Signal Processing</i> , 2020, 177, 107718.	2.1	21
1311	A Truncated Matrix Decomposition for Hyperspectral Image Super-Resolution. <i>IEEE Transactions on Image Processing</i> , 2020, 29, 8028-8042.	6.0	51
1312	Quantitative and non-destructive evaluation of ground beef based on multi-spectral imaging. , 2020, , .		0
1313	Entropy-Based Convex Set Optimization for Spatial-“Spectral Endmember Extraction From Hyperspectral Images. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2020, 13, 4200-4213.	2.3	18
1314	Subpixel Mapping of Hyperspectral Images Using a Labeled-Unlabeled Hybrid Endmember Library and Abundance Optimization. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2020, 13, 5036-5047.	2.3	3
1315	Pixel-Wise Linear/Nonlinear Nonnegative Matrix Factorization for Unmixing of Hyperspectral Data. , 2020, , .		3
1316	Exact Sparse Nonnegative Least Squares. , 2020, , .		5
1317	Foreground Signature Extraction for an Intimate Mixing Model in Hyperspectral Image Classification. , 2020, , .		1
1318	Hyperspectral image denoising based on low-rank coefficients and orthonormal dictionary. <i>Signal Processing</i> , 2020, 177, 107738.	2.1	8
1319	Fast Joint Multiband Reconstruction From Wideband Images Based on Low-Rank Approximation. <i>IEEE Transactions on Computational Imaging</i> , 2020, 6, 922-933.	2.6	0
1320	Semi-NMF-Based Reconstruction for Hyperspectral Compressed Sensing. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2020, 13, 4352-4368.	2.3	11
1321	An ADMM-based algorithm with minimum dispersion regularization for on-line blind unmixing of hyperspectral images. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2020, 204, 104090.	1.8	1
1322	Hierarchical Sparse Nonnegative Matrix Factorization for Hyperspectral Unmixing with Spectral Variability. <i>Remote Sensing</i> , 2020, 12, 2326.	1.8	6

#	ARTICLE	IF	CITATIONS
1323	Tensor Regression Using Low-Rank and Sparse Tucker Decompositions. <i>SIAM Journal on Mathematics of Data Science</i> , 2020, 2, 944-966.	1.0	7
1324	The effects of misregistration between hyperspectral and panchromatic images on linear spectral unmixing. <i>International Journal of Remote Sensing</i> , 2020, 41, 8862-8889.	1.3	1
1325	Blind Unmixing of Hyperspectral Remote Sensing Data: A New Geometrical Method Based on a Two-Source Sparsity Constraint. <i>Remote Sensing</i> , 2020, 12, 3198.	1.8	2
1326	Hyperspectral Unmixing Via Plug-And-Play Priors. , 2020, , .		7
1327	Non-local Meets Global: An Integrated Paradigm for Hyperspectral Image Restoration. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2020, PP, 1-1.	9.7	66
1328	Quantitative Analysis of Mixed Pixels in Hyperspectral Image Using Fractal Dimension Technique. <i>Journal of the Indian Society of Remote Sensing</i> , 2020, 48, 1237-1244.	1.2	1
1329	Toward Super-Resolution Image Construction Based on Joint Tensor Decomposition. <i>Remote Sensing</i> , 2020, 12, 2535.	1.8	3
1330	Multitemporal Spectral Analysis for Algae Detection in an Eutrophic Lake using Sentinel 2 Images. , 2020, , .		3
1331	Neighborhood Activity-Driven Representation for Hyperspectral Imagery Classification. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2020, 13, 4506-4517.	2.3	4
1332	Sparsity-Constrained Coupled Nonnegative Matrix Tensor Factorization for Hyperspectral Unmixing. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2020, 13, 5061-5073.	2.3	17
1333	Multiple Clustering Guided Nonnegative Matrix Factorization for Hyperspectral Unmixing. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2020, 13, 5162-5179.	2.3	13
1334	Hyperspectral Unmixing Via Nonconvex Sparse and Low-Rank Constraint. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2020, 13, 5704-5718.	2.3	15
1335	Spatial-Spectral Joint Compressed Sensing for Hyperspectral Images. <i>IEEE Access</i> , 2020, 8, 149661-149675.	2.6	4
1336	Curvelet Transform Domain-Based Sparse Nonnegative Matrix Factorization for Hyperspectral Unmixing. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2020, 13, 4908-4924.	2.3	16
1337	A General Loss-Based Nonnegative Matrix Factorization for Hyperspectral Unmixing. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2022, 19, 1-5.	1.4	14
1338	Spectral-Spatial Classification of Hyperspectral Imagery with Convolutional Neural Network. , 2020, , .		1
1339	Deep-Learning-Based Approach for Estimation of Fractional Abundance of Nitrogen in Soil From Hyperspectral Data. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2020, 13, 6495-6511.	2.3	14
1340	Modified GSEE algorithm for Hyperspectral Endmember Extraction. , 2020, , .		2

#	ARTICLE	IF	CITATIONS
1341	Application of Spectroscopic and Hyperspectral Imaging Techniques for Rapid and Nondestructive Investigation of Jewish Ritual Parchment. <i>Frontiers in Materials</i> , 2020, 7, .	1.2	5
1342	Hyperspectral Nonlinear Unmixing by Using Plug-and-Play Prior for Abundance Maps. <i>Remote Sensing</i> , 2020, 12, 4117.	1.8	10
1343	Application of Lithological Mapping Based on Advanced Hyperspectral Imager (AHSI) Imagery Onboard Gaofen-5 (GF-5) Satellite. <i>Remote Sensing</i> , 2020, 12, 3990.	1.8	22
1344	Adaptive-SFSDAF for Spatiotemporal Image Fusion that Selectively Uses Class Abundance Change Information. <i>Remote Sensing</i> , 2020, 12, 3979.	1.8	6
1345	Superpixel Spectral Unmixing for Hyperspectral Image Superresolution Using a Coupled Encoder-Decoder Network. <i>Journal of Sensors</i> , 2020, 2020, 1-8.	0.6	0
1346	Hyperspectral and Lidar: Complementary Tools to Identify Benthic Features and Assess the Ecological Status of Sabellaria alveolata Reefs. <i>Frontiers in Marine Science</i> , 2020, 7, .	1.2	7
1347	Correntropy-Based Autoencoder-Like NMF With Total Variation for Hyperspectral Unmixing. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2022, 19, 1-5.	1.4	7
1348	Separation of galaxy spectra measured with slitless spectroscopy. , 2020, 106, 102837.		3
1349	A hyperspectral unmixing framework for energy-loss near-edge structure analysis. <i>Ultramicroscopy</i> , 2020, 218, 113096.	0.8	2
1350	Learning Endmember Dynamics in Multitemporal Hyperspectral Data Using A State-Space Model Formulation. , 2020, , .		5
1351	Hyperspectral image classification based on sparse modeling of spectral blocks. <i>Neurocomputing</i> , 2020, 407, 12-23.	3.5	16
1352	Deep spectral convolution network for hyperspectral image unmixing with spectral library. <i>Signal Processing</i> , 2020, 176, 107672.	2.1	26
1353	Reconstruction of Hyperspectral Images From Spectral Compressed Sensing Based on a Multitype Mixing Model. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2020, 13, 2304-2320.	2.3	8
1354	Multiobjective Endmember Extraction Based on Bilinear Mixture Model. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020, 58, 8192-8210.	2.7	8
1355	Nanoscale Spatial Resolution in Far-Field Raman Imaging Using Hyperspectral Unmixing in Combination with Positivity Constrained Super-Resolution. <i>Applied Spectroscopy</i> , 2020, 74, 780-790.	1.2	4
1356	Feature Extraction for Hyperspectral Imagery: The Evolution From Shallow to Deep: Overview and Toolbox. <i>IEEE Geoscience and Remote Sensing Magazine</i> , 2020, 8, 60-88.	4.9	373
1357	3D and 4D Image Fusion: Coping with Differences in Spectroscopic Modes among Hyperspectral Images. <i>Analytical Chemistry</i> , 2020, 92, 9591-9602.	3.2	11
1358	Sparse abundance estimation with low-rank reconstruction for hyperspectral unmixing. <i>International Journal of Remote Sensing</i> , 2020, 41, 6805-6830.	1.3	8

#	ARTICLE	IF	CITATIONS
1359	Hyperspectral image restoration via CNN denoiser prior regularized low-rank tensor recovery. Computer Vision and Image Understanding, 2020, 197-198, 103004.	3.0	15
1360	Sketch-Based Region Adaptive Sparse Unmixing Applied to Hyperspectral Image. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 8840-8856.	2.7	10
1361	Sub-pixel mapping with point constraints. Remote Sensing of Environment, 2020, 244, 111817.	4.6	22
1362	Improving phenological monitoring of winter wheat by considering sensor spectral response in spatiotemporal image fusion. Physics and Chemistry of the Earth, 2020, 116, 102859.	1.2	4
1363	AeroRIT: A New Scene for Hyperspectral Image Analysis. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 8116-8124.	2.7	28
1364	Learning Nonlinear Mixtures: Identifiability and Algorithm. IEEE Transactions on Signal Processing, 2020, 68, 2857-2869.	3.2	7
1365	Variability of the endmembers in spectral unmixing. Data Handling in Science and Technology, 2020, , 167-203.	3.1	6
1366	Improving portfolios global performance using a cleaned and robust covariance matrix estimate. Soft Computing, 2020, 24, 8643-8654.	2.1	2
1367	Hybrid Inexact BCD for Coupled Structured Matrix Factorization in Hyperspectral Super-Resolution. IEEE Transactions on Signal Processing, 2020, 68, 1728-1743.	3.2	7
1368	Combining Spectral Unmixing and 3D/2D Dense Networks with Early-Exiting Strategy for Hyperspectral Image Classification. Remote Sensing, 2020, 12, 779.	1.8	15
1369	Multiple Features and Isolation Forest-Based Fast Anomaly Detector for Hyperspectral Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 6664-6676.	2.7	29
1371	Estimation of Mineral Abundance From Hyperspectral Data Using a New Supervised Neighbor-Band Ratio Unmixing Approach. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 6754-6766.	2.7	13
1372	Hyperspectral Image Denoising via Combined Non-Local Self-Similarity and Local Low-Rank Regularization. IEEE Access, 2020, 8, 50190-50208.	2.6	14
1373	Graph-Based Blind Hyperspectral Unmixing via Nonnegative Matrix Factorization. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 6391-6409.	2.7	15
1374	Joint Spatial-Spectral Smoothing in a Minimum-Volume Simplex for Hyperspectral Image Super-Resolution. Applied Sciences (Switzerland), 2020, 10, 237.	1.3	6
1375	Monitoring oil contamination in vegetated areas with optical remote sensing: A comprehensive review. Journal of Hazardous Materials, 2020, 393, 122427.	6.5	38
1376	Deep learning applied to hyperspectral endoscopy for online spectral classification. Scientific Reports, 2020, 10, 3947.	1.6	37
1377	Matrix Cofactorization for Joint Spatial-Spectral Unmixing of Hyperspectral Images. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 4915-4927.	2.7	7

#	ARTICLE	IF	CITATIONS
1378	Tensor-Based Low-Rank and Sparse Prior Information Constraints for Hyperspectral Image Denoising. IEEE Access, 2020, 8, 102935-102946.	2.6	4
1379	Improving Spectral-Based Endmember Finding by Exploring Spatial Context for Hyperspectral Unmixing. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 3336-3349.	2.3	11
1380	Remote sensing image classification using subspace sensor fusion. Information Fusion, 2020, 64, 121-130.	11.7	47
1381	Montmorillonite Estimation in Clay-Quartz-Calcite Samples from Laboratory SWIR Imaging Spectroscopy: A Comparative Study of Spectral Preprocessings and Unmixing Methods. Remote Sensing, 2020, 12, 1723.	1.8	9
1382	On Recoverability of Randomly Compressed Tensors With Low CP Rank. IEEE Signal Processing Letters, 2020, 27, 1125-1129.	2.1	1
1383	Hyperspectral Image Super-Resolution Using Optimization and DCNN-Based Methods. , 0, , .		1
1384	Monitoring evolution of melt ponds on first-year and multiyear sea ice in the Canadian Arctic Archipelago with optical satellite data. Annals of Glaciology, 2020, 61, 154-163.	2.8	9
1385	Fractional abundances study of macronutrients in soil using hyperspectral remote sensing. Geocarto International, 2022, 37, 474-493.	1.7	15
1386	Hyperspectral Unmixing Using Deep Convolutional Autoencoders in a Supervised Scenario. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 567-576.	2.3	62
1387	Semi-supervised sparse representation classifier (S3RC) with deep features on small sample sized hyperspectral images. Neurocomputing, 2020, 399, 213-226.	3.5	6
1388	Spectral Variability Aware Blind Hyperspectral Image Unmixing Based on Convex Geometry. IEEE Transactions on Image Processing, 2020, 29, 4568-4582.	6.0	24
1389	Hyperspectral unmixing using deep convolutional autoencoder. International Journal of Remote Sensing, 2020, 41, 4799-4819.	1.3	27
1390	A Non-local Rank-Constraint Hyperspectral Images Denoising Method with 3-D Anisotropic Total Variation. Journal of Physics: Conference Series, 2020, 1438, 012024.	0.3	1
1391	Multiple-Priors Ensemble Constrained Nonnegative Matrix Factorization for Spectral Unmixing. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 963-975.	2.3	13
1392	Hyperspectral Anomaly Detection Method Based on Adaptive Background Extraction. IEEE Access, 2020, 8, 35446-35454.	2.6	3
1393	Regularized Sparse Band Selection via Learned Pairwise Agreement. IEEE Access, 2020, 8, 40096-40105.	2.6	2
1394	Quaternion Non-Negative Matrix Factorization: Definition, Uniqueness, and Algorithm. IEEE Transactions on Signal Processing, 2020, 68, 1870-1883.	3.2	13
1395	Spatial-spectral weighted nuclear norm minimization for hyperspectral image denoising. Neurocomputing, 2020, 399, 271-284.	3.5	19

#	ARTICLE	IF	CITATIONS
1396	How to account for endmember variability in spectral mixture analysis of night-time light imagery?. International Journal of Remote Sensing, 2020, 41, 3147-3161.	1.3	1
1397	Essential processing methods of hyperspectral images of agricultural and food products. Chemometrics and Intelligent Laboratory Systems, 2020, 198, 103936.	1.8	55
1398	Illumination Invariant Hyperspectral Image Unmixing Based on a Digital Surface Model. IEEE Transactions on Image Processing, 2020, 29, 3652-3664.	6.0	18
1399	Adaptive Graph Regularized Multilayer Nonnegative Matrix Factorization for Hyperspectral Unmixing. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 434-447.	2.3	23
1400	Applying hyperspectral remote sensing methods to ship detection based on airborne and ground experiments. International Journal of Remote Sensing, 2020, 41, 5928-5952.	1.3	8
1401	FPGA Implementation of $L_{1/2}$ Sparsity Constrained Nonnegative Matrix Factorization Algorithm for Remotely Sensed Hyperspectral Image Analysis. IEEE Access, 2020, 8, 12069-12083.	2.6	2
1402	Endmember Extraction From Hyperspectral Imagery Based on Probabilistic Tensor Moments. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 2120-2124.	1.4	17
1403	Generalized Morphological Component Analysis for Hyperspectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 2817-2832.	2.7	15
1404	Low-Rank Tensor Modeling for Hyperspectral Unmixing Accounting for Spectral Variability. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 1833-1842.	2.7	43
1405	Multivariate curve resolution for hyperspectral image analysis. Data Handling in Science and Technology, 2019, 32, 115-150.	3.1	17
1406	Fusion of hyperspectral imaging and LiDAR for forest monitoring. Data Handling in Science and Technology, 2019, 32, 281-303.	3.1	13
1407	Sub-pixel spectral clustering model of quantum mechanism effect for hyperspectral images. Arabian Journal of Geosciences, 2020, 13, 1.	0.6	0
1408	Spatially Enhanced Spectral Unmixing Through Data Fusion of Spectral and Visible Images from Different Sensors. Remote Sensing, 2020, 12, 1255.	1.8	8
1409	An Explicit and Scene-Adapted Definition of Convex Self-Similarity Prior With Application to Unsupervised Sentinel-2 Super-Resolution. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 3352-3365.	2.7	40
1410	Spatial-Spectral Hyperspectral Endmember Extraction Using a Spatial Energy Prior Constrained Maximum Simplex Volume Approach. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 1347-1361.	2.3	14
1411	Hyperspectral Image Super-Resolution via Intrafusion Network. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 7459-7471.	2.7	48
1412	Towards the Concurrent Execution of Multiple Hyperspectral Imaging Applications by Means of Computationally Simple Operations. Remote Sensing, 2020, 12, 1343.	1.8	3
1413	Adaptive kernel sparse representation based on multiple feature learning for hyperspectral image classification. Neurocomputing, 2020, 400, 97-112.	3.5	26

#	ARTICLE	IF	CITATIONS
1414	Fast Unmixing of Noisy Hyperspectral Images Based on Vertex Component Analysis and Singular Spectrum Analysis Algorithms. <i>Canadian Journal of Remote Sensing</i> , 2020, 46, 34-48.	1.1	4
1415	Improved Collaborative Non-Negative Matrix Factorization and Total Variation for Hyperspectral Unmixing. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2020, 13, 998-1010.	2.3	27
1416	Hyperspectral Mixed Noise Removal By ℓ_1 -Norm-Based Subspace Representation. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2020, 13, 1143-1157.	2.3	63
1417	Hyperspectral Unmixing Using Orthogonal Sparse Prior-Based Autoencoder With Hyper-Laplacian Loss and Data-Driven Outlier Detection. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020, 58, 6550-6564.	2.7	17
1418	Distributed Compressed Hyperspectral Sensing Imaging Based on Spectral Unmixing. <i>Sensors</i> , 2020, 20, 2305.	2.1	5
1419	Subpixel detection of peanut in wheat flour using a matched subspace detector algorithm and near-infrared hyperspectral imaging. <i>Talanta</i> , 2020, 216, 120993.	2.9	10
1420	Spectral Mixture Model Inspired Network Architectures for Hyperspectral Unmixing. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020, 58, 7418-7434.	2.7	40
1421	Can UAVs fill the gap between in situ surveys and satellites for habitat mapping?. <i>Remote Sensing of Environment</i> , 2020, 243, 111780.	4.6	53
1422	Joint Spatial-spectral Resolution Enhancement of Multispectral Images with Spectral Matrix Factorization and Spatial Sparsity Constraints. <i>Remote Sensing</i> , 2020, 12, 993.	1.8	4
1423	Hyperspectral and Multispectral Remote Sensing Image Fusion Based on Endmember Spatial Information. <i>Remote Sensing</i> , 2020, 12, 1009.	1.8	23
1424	A Novel Dual-Alternating Direction Method of Multipliers for Spectral Unmixing. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2021, 18, 528-532.	1.4	12
1425	Hyperspectral Image Mixed Noise Removal Based on Multidirectional Low-Rank Modeling and Spatial-Spectral Total Variation. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021, 59, 488-507.	2.7	33
1426	Estimation of rice plant potassium accumulation based on non-negative matrix factorization using hyperspectral reflectance. <i>Precision Agriculture</i> , 2021, 22, 51-74.	3.1	17
1427	Hyperspectral Shadow Removal via Nonlinear Unmixing. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2021, 18, 881-885.	1.4	11
1428	Superpixel-Based Reweighted Low-Rank and Total Variation Sparse Unmixing for Hyperspectral Remote Sensing Imagery. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021, 59, 629-647.	2.7	72
1429	Self-Paced Nonnegative Matrix Factorization for Hyperspectral Unmixing. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021, 59, 1501-1515.	2.7	50
1430	Nonnegative Blind Source Separation for Ill-Conditioned Mixtures via John Ellipsoid. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2021, 32, 2209-2223.	7.2	15
1431	Convolutional Autoencoder for Spectral-Spatial Hyperspectral Unmixing. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021, 59, 535-549.	2.7	123

#	ARTICLE	IF	CITATIONS
1432	Hyperspectral Sharpening Approaches Using Satellite Multiplatform Data. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 578-596.	2.7	10
1433	Convex Polygon Maximization-Based Hyperspectral Endmember Extraction Algorithm. Journal of the Indian Society of Remote Sensing, 2021, 49, 419-432.	1.2	2
1434	Complete deconvolution of DNA methylation signals from complex tissues: a geometric approach. Bioinformatics, 2021, 37, 1052-1059.	1.8	2
1435	A dual symmetric Gauss-Seidel alternating direction method of multipliers for hyperspectral sparse unmixing. Numerical Algorithms, 2021, 87, 719-754.	1.1	9
1436	Spectral-Spatial Joint Sparse NMF for Hyperspectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 2391-2402.	2.7	40
1437	Unsupervised Pansharpening Based on Self-Attention Mechanism. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 3192-3208.	2.7	55
1438	Detection of chocolate powder adulteration with peanut using near-infrared hyperspectral imaging and Multivariate Curve Resolution. Food Control, 2021, 119, 107454.	2.8	36
1439	Autonomous Endmember Detection via an Abundance Anomaly Guided Saliency Prior for Hyperspectral Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 2336-2351.	2.7	6
1440	Hyperspectral Endmember Extraction by ($\hat{1}/4 + \hat{1}$) Multiobjective Differential Evolution Algorithm Based on Ranking Multiple Mutations. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 2352-2364.	2.7	7
1441	Multiple Feature-Based Superpixel-Level Decision Fusion for Hyperspectral and LiDAR Data Classification. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 1437-1452.	2.7	45
1442	Block-Gaussian-Mixture Priors for Hyperspectral Denoising and Inpainting. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 2478-2486.	2.7	13
1443	Hyperspectral image denoising via global spatial-spectral total variation regularized nonconvex local low-rank tensor approximation. Signal Processing, 2021, 178, 107805.	2.1	31
1444	Hyperspectral Unmixing via Noise-Free Model. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 3277-3291.	2.7	5
1445	Blind Hyperspectral Unmixing Based on Graph Total Variation Regularization. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 3338-3351.	2.7	18
1446	Remote sensing metrics to assess exposure to residential greenness in epidemiological studies: A population case study from the Eastern Mediterranean. Environment International, 2021, 146, 106270.	4.8	17
1447	Style Transformation-Based Spatial-Spectral Feature Learning for Unsupervised Change Detection. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	2.7	18
1448	Mobile Hyperspectral Imaging for Material Surface Damage Detection. Journal of Computing in Civil Engineering, 2021, 35, .	2.5	5
1449	Variable selection for linear regression in large databases: exact methods. Applied Intelligence, 2021, 51, 3736-3756.	3.3	1

#	ARTICLE	IF	CITATIONS
1450	Spectral-spatial joint sparsity unmixing of hyperspectral images based on framelet transform. <i>Infrared Physics and Technology</i> , 2021, 112, 103564.	1.3	3
1451	Union of Class-Dependent Collaborative Representation Based on Maximum Margin Projection for Hyperspectral Imagery Classification. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2021, 14, 553-566.	2.3	10
1452	Deep Half-Siamese Networks for Hyperspectral Unmixing. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2021, 18, 1996-2000.	1.4	33
1453	Graph Convolutional Networks for Hyperspectral Image Classification. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021, 59, 5966-5978.	2.7	974
1454	Simultaneously Multiobjective Sparse Unmixing and Library Pruning for Hyperspectral Imagery. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021, 59, 3383-3395.	2.7	29
1455	Spectral-Spatial Hyperspectral Unmixing Using Nonnegative Matrix Factorization. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-13.	2.7	20
1456	Adaptive Rank and Structured Sparsity Corrections for Hyperspectral Image Restoration. <i>IEEE Transactions on Cybernetics</i> , 2022, 52, 8729-8740.	6.2	5
1457	Using Low-Rank Representation of Abundance Maps and Nonnegative Tensor Factorization for Hyperspectral Nonlinear Unmixing. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-17.	2.7	35
1458	Hyperspectral Image Denoising Based on Global and Nonlocal Low-Rank Factorizations. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021, 59, 10438-10454.	2.7	66
1459	Hyperspectral Unmixing via Nonnegative Matrix Factorization With Handcrafted and Learned Priors. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2022, 19, 1-5.	1.4	7
1460	Blind Decomposition of Multispectral Document Images Using Orthogonal Nonnegative Matrix Factorization. <i>IEEE Transactions on Image Processing</i> , 2021, 30, 5997-6012.	6.0	8
1461	Deep-Sea Sediment Mixed Pixel Decomposition Based on Multibeam Backscatter Intensity Segmentation. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-15.	2.7	2
1462	Sparse Unmixing for Hyperspectral Imagery via Comprehensive-Learning-Based Particle Swarm Optimization. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2021, 14, 9727-9742.	2.3	4
1463	Hyperspectral Image Denoising Using Factor Group Sparsity-Regularized Nonconvex Low-Rank Approximation. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-16.	2.7	38
1464	Ghostnet for Hyperspectral Image Classification. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021, 59, 10378-10393.	2.7	73
1465	Ship Detection in SAR Images via Enhanced Nonnegative Sparse Locality-Representation of Fisher Vectors. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021, 59, 9424-9438.	2.7	16
1466	Deep Subpixel Mapping Based on Semantic Information Modulated Network for Urban Land Use Mapping. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021, 59, 10628-10646.	2.7	62
1467	Real-Time Spatiotemporal Spectral Unmixing of MODIS Images. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-16.	2.7	2

#	ARTICLE	IF	CITATIONS
1468	Adaptive Hyperspectral Mixed Noise Removal. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	2.7	20
1469	Joint Hapke Model and Spatial Adaptive Sparse Representation with Iterative Background Purification for Martian Serpentine Detection. Remote Sensing, 2021, 13, 500.	1.8	4
1470	Bayesian Unmixing of Hyperspectral Image Sequence With Composite Priors for Abundance and Endmember Variability. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	2.7	10
1471	Multiplicative Updates for NMF with β -Divergences under Disjoint Equality Constraints. SIAM Journal on Matrix Analysis and Applications, 2021, 42, 730-752.	0.7	5
1472	Hyperspectral Images Unmixing Based on Abundance Constrained Multi-Layer KNMF. IEEE Access, 2021, 9, 91080-91090.	2.6	2
1473	A Plug-and-Play Priors Framework for Hyperspectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	2.7	7
1474	CyCU-Net: Cycle-Consistency Unmixing Network by Learning Cascaded Autoencoders. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	2.7	59
1476	Advances in spaceborne hyperspectral remote sensing in China. Geo-Spatial Information Science, 2021, 24, 95-120.	2.4	49
1477	Self-Supervised Robust Deep Matrix Factorization for Hyperspectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	2.7	12
1478	A Modified Huber Nonnegative Matrix Factorization Algorithm for Hyperspectral Unmixing. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 5559-5571.	2.3	8
1479	FastHyMix: Fast and Parameter-Free Hyperspectral Image Mixed Noise Removal. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 4702-4716.	7.2	37
1480	Fast Unmixing and Change Detection in Multitemporal Hyperspectral Data. IEEE Transactions on Computational Imaging, 2021, 7, 975-988.	2.6	10
1481	UnDIP: Hyperspectral Unmixing Using Deep Image Prior. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	2.7	30
1482	Double Weighted Sparse Nonnegative Tensor Factorization for Hyperspectral Unmixing. International Journal of Remote Sensing, 2021, 42, 3180-3191.	1.3	3
1483	Deep spectral unmixing framework via 3D denoising convolutional autoencoder. IET Image Processing, 2021, 15, 1399-1409.	1.4	3
1484	Successive Nonnegative Projection Algorithm for Linear Quadratic Mixtures. , 2021, , .		0
1485	Enhanced Nonconvex Low-Rank Approximation of Tensor Multi-Modes for Tensor Completion. IEEE Transactions on Computational Imaging, 2021, 7, 164-177.	2.6	13
1486	Evaluation of the Vegetation-Index-Based Dimidiate Pixel Model for Fractional Vegetation Cover Estimation. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	2.7	22

#	ARTICLE	IF	CITATIONS
1487	Nonlocal Block-Term Decomposition for Hyperspectral Image Mixed Noise Removal. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 5406-5420.	2.3	3
1488	A Novel Collaborative Representation Algorithm for Spectral Unmixing of Hyperspectral Remotely Sensed Imagery. IEEE Access, 2021, 9, 89243-89248.	2.6	2
1489	Semi-supervised Deep Learning Techniques for Spectrum Reconstruction. , 2021, , .		0
1490	Linear Unmixing. Encyclopedia of Earth Sciences Series, 2021, , 1-3.	0.1	0
1491	Efficient Two-Phase Multiobjective Sparse Unmixing Approach for Hyperspectral Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 2418-2431.	2.3	13
1492	Global-Local Balanced Low-Rank Approximation of Hyperspectral Images for Classification. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 2013-2024.	5.6	13
1493	TANet: An Unsupervised Two-Stream Autoencoder Network for Hyperspectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	2.7	22
1494	Unsupervised and Unregistered Hyperspectral Image Super-Resolution With Mutual Dirichlet-Net. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-18.	2.7	21
1495	Hyperspectral Unmixing for Additive Nonlinear Models With a 3-D-CNN Autoencoder Network. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	2.7	23
1496	Nonlocal Low-Rank Abundance Prior for Compressive Spectral Image Fusion. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 415-425.	2.7	15
1497	Improved Deconvolution of Mineral Reflectance Spectra. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 9711-9726.	2.3	1
1498	Hyperspectral Anomaly Detection via Deep Plug-and-Play Denoising CNN Regularization. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 9553-9568.	2.7	62
1499	Endmember-Guided Unmixing Network (EGU-Net): A General Deep Learning Framework for Self-Supervised Hyperspectral Unmixing. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 6518-6531.	7.2	98
1500	Hyperspectral Image Restoration by Tensor Fibered Rank Constrained Optimization and Plug-and-Play Regularization. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	2.7	23
1501	Subspace-Based Preprocessing Module for Fast Hyperspectral Endmember Selection. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 3386-3402.	2.3	7
1502	A Sparse Topic Relaxion and Group Clustering Model for Hyperspectral Unmixing. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 4014-4027.	2.3	5
1503	Sparsity-Enhanced Convolutional Decomposition: A Novel Tensor-Based Paradigm for Blind Hyperspectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	2.7	32
1504	Spectral-Spatial Constrained Nonnegative Matrix Factorization for Spectral Mixture Analysis of Hyperspectral Images. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 6766-6776.	2.3	3

#	ARTICLE	IF	CITATIONS
1505	Cluster-Wise Weighted NMF for Hyperspectral Images Unmixing with Imbalanced Data. Remote Sensing, 2021, 13, 268.	1.8	7
1506	Nonlocal weighted sparse unmixing based on global search and parallel optimization. Journal of Applied Remote Sensing, 2021, 15, .	0.6	4
1507	Object Classification from a Hyper Spectral Image Using Spectrum Bands with Wavelength and Feature Set. Lecture Notes in Networks and Systems, 2021, , 340-350.	0.5	0
1508	A Quantitative and Comparative Evaluation of Key Points Selection Algorithms for Mobile Network Data Sets Analysis. IEEE Access, 2021, 9, 92030-92042.	2.6	3
1509	Sparse and Low-Rank Constrained Tensor Factorization for Hyperspectral Image Unmixing. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 1754-1767.	2.3	28
1510	Wetland Classification Using Sparse Spectral Unmixing Algorithm and Landsat 8 OLI Imagery. Lecture Notes in Computer Science, 2021, , 186-194.	1.0	2
1511	A Nonconvex Framework for Sparse Unmixing Incorporating the Group Structure of the Spectral Library. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-19.	2.7	16
1512	A Sparse Oblique-Manifold Nonnegative Matrix Factorization for Hyperspectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	2.7	3
1513	Weighted Total Variation Regularized Blind Unmixing for Hyperspectral Image. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	1
1514	Extended Subspace Projection Upon Sample Augmentation Based on Global Spatial and Local Spectral Similarity for Hyperspectral Imagery Classification. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 8653-8664.	2.3	7
1515	Hyperspectral Image Denoising and Anomaly Detection Based on Low-Rank and Sparse Representations. IEEE Transactions on Geoscience and Remote Sensing, 2021, , 1-17.	2.7	75
1516	An Unmixing-Based Network for Underwater Target Detection From Hyperspectral Imagery. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 5470-5487.	2.3	15
1517	A Blind Spectral Unmixing in Wavelet Domain. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 10287-10302.	2.3	9
1518	Hyperspectral Sparse Unmixing With Spectral-Spatial Low-Rank Constraint. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 6119-6130.	2.3	18
1519	Hyperspectral Image Stripe Detection and Correction Using Gabor Filters and Subspace Representation. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	5
1520	SNMF-Net: Learning a Deep Alternating Neural Network for Hyperspectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	2.7	27
1521	Fast Hyperspectral Image Recovery of Dual-Camera Compressive Hyperspectral Imaging via Non-Iterative Subspace-Based Fusion. IEEE Transactions on Image Processing, 2021, 30, 7170-7183.	6.0	31
1522	Bandwise Model Based on Spectral Prior Information for Sparse Unmixing. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 8594-8605.	2.3	0

#	ARTICLE	IF	CITATIONS
1523	A comprehensive review of HSI in diverse research domains. <i>Materials Today: Proceedings</i> , 2021, , .	0.9	1
1524	LSTM-DNN Based Autoencoder Network for Nonlinear Hyperspectral Image Unmixing. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2021, 15, 295-309.	7.3	34
1525	Endmember Estimation with Maximum Distance Analysis. <i>Remote Sensing</i> , 2021, 13, 713.	1.8	13
1526	TNNG: Total Nuclear Norms of Gradients for Hyperspectral Image Prior. <i>Remote Sensing</i> , 2021, 13, 819.	1.8	2
1527	FPGA-based Architecture for Hyperspectral Compressive Sensing. , 2021, , .		1
1528	Joint Sparsity and Total Variation Based Unmixing of Mixed Noise. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021, 1084, 012041.	0.3	0
1529	Endmember independence constrained hyperspectral unmixing via nonnegative tensor factorization. <i>Knowledge-Based Systems</i> , 2021, 216, 106657.	4.0	11
1530	Hydrocarbon Pollution Detection and Mapping Based on the Combination of Various Hyperspectral Imaging Processing Tools. <i>Remote Sensing</i> , 2021, 13, 1020.	1.8	10
1531	A Study of Deep Learning Approaches and Loss Functions for Abundance Fractions Estimation. , 2021, , .		1
1532	Hyperspectral Classification of Blood-Like Substances Using Machine Learning Methods Combined with Genetic Algorithms in Transductive and Inductive Scenarios. <i>Sensors</i> , 2021, 21, 2293.	2.1	3
1533	Support Vector Machines for Unmixing Geological Mixtures. , 2021, , .		1
1534	Multiband image fusion using total generalized variation regularization. <i>Aerospace Systems</i> , 2021, 4, 261-267.	0.7	2
1535	A Vector Median Filter For Hyperspectral Images Based On Lexicographic Ordering of Estimated Auto-Correlation Functions. , 2021, , .		2
1536	Fully Constrained Least Squares Linear Spectral Unmixing of The Scream (Verso, 1893). , 2021, , .		3
1537	A dataset for evaluating blood detection in hyperspectral images. <i>Forensic Science International</i> , 2021, 320, 110701.	1.3	12
1538	Hyperspectral Anomaly Detection Based on Subspace Low-Rank Decomposition. <i>Journal of Physics: Conference Series</i> , 2021, 1881, 022011.	0.3	0
1539	Multivariate analysis of Brillouin imaging data by supervised and unsupervised learning. <i>Journal of Biophotonics</i> , 2021, 14, e202000508.	1.1	3
1540	Tensor Low-Rank Constraint and L_0 Total Variation for Hyperspectral Image Mixed Noise Removal. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2021, 15, 718-733.	7.3	28

#	ARTICLE	IF	CITATIONS
1541	Assessing the Potential of Remotely-Sensed Drone Spectroscopy to Determine Live Coral Cover on Heron Reef. Drones, 2021, 5, 29.	2.7	16
1542	Dispersion Index Based Endmember Extraction for Hyperspectral Unmixing. IETE Journal of Research, 2023, 69, 2837-2845.	1.8	0
1543	Comparison of Imaging Models for Spectral Unmixing in Oil Painting. Sensors, 2021, 21, 2471.	2.1	12
1544	Estimating Agricultural Soil Moisture Content through UAV-Based Hyperspectral Images in the Arid Region. Remote Sensing, 2021, 13, 1562.	1.8	51
1545	Hyperspectral Super-Resolution via Interpretable Block-Term Tensor Modeling. IEEE Journal on Selected Topics in Signal Processing, 2021, 15, 641-656.	7.3	39
1546	A novel inequality-constrained weighted linear mixture model for endmember variability. Remote Sensing of Environment, 2021, 257, 112359.	4.6	6
1547	Rapid noninvasive screening of cerebral ischemia and cerebral infarction based on tear Raman spectroscopy combined with multiple machine learning algorithms. Lasers in Medical Science, 2022, 37, 417-424.	1.0	6
1548	Hyperspectral Unmixing Based on Constrained Bilinear or Linear-Quadratic Matrix Factorization. Remote Sensing, 2021, 13, 2132.	1.8	7
1549	Spectral unmixing for exoplanet direct detection in hyperspectral data. Astronomy and Astrophysics, 2021, 649, A143.	2.1	2
1550	Algorithms for Nonnegative Matrix Factorization with the Kullback-Leibler Divergence. Journal of Scientific Computing, 2021, 87, 1.	1.1	22
1551	Shearlet-Based Structure-Aware Filtering for Hyperspectral and LiDAR Data Classification. Journal of Remote Sensing, 2021, 2021, .	3.2	12
1552	A novel hyperspectral unmixing model based on multilayer NMF with Hoyer's projection. Neurocomputing, 2021, 440, 145-158.	3.5	4
1553	Nonnegative matrix factorization with entropy regularization for hyperspectral unmixing. International Journal of Remote Sensing, 2021, 42, 6359-6390.	1.3	6
1554	Zero-Gradient Constraints for Destriping of Remote-Sensing Data. , 2021, , .		3
1555	Superpixel-guided preprocessing algorithm for accelerating hyperspectral endmember extraction based on spatial-spectral analysis. Journal of Applied Remote Sensing, 2021, 15, .	0.6	4
1556	DLR HySU: A Benchmark Dataset for Spectral Unmixing. Remote Sensing, 2021, 13, 2559.	1.8	7
1557	Extraction of physically meaningful endmembers from STEM spectrum-images combining geometrical and statistical approaches. Micron, 2021, 145, 103068.	1.1	4
1558	UTDN: An Unsupervised Two-Stream Dirichlet-Net for Hyperspectral Unmixing. , 2021, , .		4

#	ARTICLE	IF	CITATIONS
1559	Improving deep hyperspectral image classification performance with spectral unmixing. Signal Processing, 2021, 183, 107949.	2.1	10
1560	New perspectives of hyperspectral imaging for clinical research. NIR News, 2021, 32, 5-13.	1.6	13
1561	A Homogeneity-Based Multiscale Hyperspectral Image Representation for Sparse Spectral Unmixing. , 2021, , .		3
1562	NMF-SAE: An Interpretable Sparse Autoencoder for Hyperspectral Unmixing. , 2021, , .		7
1563	Nonlinear Mixing Characteristics of Reflectance Spectra of Typical Mineral Pigments. Minerals (Basel,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.8	3
1564	Spatio-temporal spectral unmixing of time-series images. Remote Sensing of Environment, 2021, 259, 112407.	4.6	44
1565	Multi-Scale Superpixels Dimension Reduction Hyperspectral Image Classification Algorithm Based on Low Rank Sparse Representation Joint Hierarchical Recursive Filtering. Sensors, 2021, 21, 3846.	2.1	5
1566	Random Projection Streams for (Weighted) Nonnegative Matrix Factorization. , 2021, , .		2
1567	UAV Remote Sensing Estimation of Rice Yield Based on Adaptive Spectral Endmembers and Bilinear Mixing Model. Remote Sensing, 2021, 13, 2190.	1.8	16
1568	On statistical learning of simplices: Unmixing problem revisited. Annals of Statistics, 2021, 49, .	1.4	0
1569	Interpretable Hyperspectral Artificial Intelligence: When nonconvex modeling meets hyperspectral remote sensing. IEEE Geoscience and Remote Sensing Magazine, 2021, 9, 52-87.	4.9	157
1570	Sparse Nonnegative Matrix Factorization for Hyperspectral Unmixing Based on Endmember Independence and Spatial Weighted Abundance. Remote Sensing, 2021, 13, 2348.	1.8	6
1571	Understanding limits of species identification using simulated imaging spectroscopy. Remote Sensing of Environment, 2021, 259, 112405.	4.6	5
1572	Pairwise Elastic Net Representation-Based Classification for Hyperspectral Image Classification. Entropy, 2021, 23, 956.	1.1	2
1573	Image completion with approximate convex hull tensor decomposition. Signal Processing: Image Communication, 2021, 95, 116276.	1.8	2
1574	A Building Roof Identification CNN Based on Interior-Edge-Adjacency Features Using Hyperspectral Imagery. Remote Sensing, 2021, 13, 2927.	1.8	3
1575	Corn Residue Covered Area Mapping with a Deep Learning Method Using Chinese GF-1 B/D High Resolution Remote Sensing Images. Remote Sensing, 2021, 13, 2903.	1.8	6
1576	Robust Probabilistic Simplex Component Analysis. , 2021, , .		1

#	ARTICLE	IF	CITATIONS
1577	A two-step iterative algorithm for sparse hyperspectral unmixing via total variation. Applied Mathematics and Computation, 2021, 401, 126059.	1.4	7
1578	Proposed Architecture for Hyperspectral Image Parallel Processing Methods Based on GPU. , 2021, , .		0
1579	Maximum Likelihood Estimation Based Nonnegative Matrix Factorization for Hyperspectral Unmixing. Remote Sensing, 2021, 13, 2637.	1.8	5
1580	New framework for hyperspectral change detection based on multi-level spectral unmixing. Applied Geomatics, 2021, 13, 763-780.	1.2	14
1581	Distributed Deep Learning for Remote Sensing Data Interpretation. Proceedings of the IEEE, 2021, 109, 1320-1349.	16.4	16
1583	Nonlocal Tensor-Based Sparse Hyperspectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 6854-6868.	2.7	23
1584	Multi-sensor data fusion of remotely-sensed images with sparse and logarithmic low-rank regularization for shadow removal and denoising. International Journal of Remote Sensing, 2021, 42, 6961-6983.	1.3	3
1585	A Local Similarity Driven Model for Blind Hyperspectral Unmixing with Spectral Variability. International Journal of Remote Sensing, 2021, 42, 7723-7741.	1.3	0
1586	Secondary Iron Mineral Detection via Hyperspectral Unmixing Analysis with Sentinel-2 Imagery. International Journal of Applied Earth Observation and Geoinformation, 2021, 101, 102343.	1.4	11
1587	Double Regression-Based Sparse Unmixing for Hyperspectral Images. Journal of Sensors, 2021, 2021, 1-14.	0.6	1
1588	Robust anomaly detection algorithm for hyperspectral images using spectral unmixing. , 2021, , .		0
1589	Hyperspectral Image Denoising via Framelet Transformation Based Three-Modal Tensor Nuclear Norm. Remote Sensing, 2021, 13, 3829.	1.8	5
1590	The track, hotspot and frontier of international hyperspectral remote sensing research 2009â€“2019â€“â€” A bibliometric analysis based on SCI database. Measurement: Journal of the International Measurement Confederation, 2022, 187, 110229.	2.5	4
1591	Hybrid Total Variation Regularization and its Applications on Hyperspectral Image Mixed Noise Removal and Compressed Sensing. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 7695-7710.	2.7	46
1592	A Two-Phase Algorithm for Robust Symmetric Non-Negative Matrix Factorization. Symmetry, 2021, 13, 1757.	1.1	0
1593	Deep Autoencoders With Multitask Learning for Bilinear Hyperspectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 8615-8629.	2.7	46
1594	Multi-fidelity evolutionary multitasking optimization for hyperspectral endmember extraction. Applied Soft Computing Journal, 2021, 111, 107713.	4.1	23
1595	A survey on deep matrix factorizations. Computer Science Review, 2021, 42, 100423.	10.2	31

#	ARTICLE	IF	CITATIONS
1596	A New Structure for Binary and Multiple Hyperspectral Change Detection Based on Spectral Unmixing and Convolutional Neural Network. Measurement: Journal of the International Measurement Confederation, 2021, 186, 110137.	2.5	23
1597	Sparse Separable Nonnegative Matrix Factorization. Lecture Notes in Computer Science, 2021, , 335-350.	1.0	0
1598	A Feature Discretization Method Based on Fuzzy Rough Sets for High-Resolution Remote Sensing Big Data Under Linear Spectral Model. IEEE Transactions on Fuzzy Systems, 2022, 30, 1328-1342.	6.5	23
1599	Total Utility Metric Based Dictionary Pruning for Sparse Hyperspectral Unmixing. IEEE Transactions on Computational Imaging, 2021, 7, 562-572.	2.6	5
1600	Simplex-Structured Matrix Factorization: Sparsity-Based Identifiability and Provably Correct Algorithms. SIAM Journal on Mathematics of Data Science, 2021, 3, 593-623.	1.0	8
1601	Reweighted Kernel-Based Nonlinear Hyperspectral Unmixing With Regional $\ell_{2,1}$ Norm Regularization. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	8
1602	Deep Convolutional Neural Network Framework for Subpixel Mapping. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 9518-9539.	2.7	36
1603	SUnCNN: Sparse Unmixing Using Unsupervised Convolutional Neural Network. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	25
1604	JMnet: Joint Metric Neural Network for Hyperspectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-12.	2.7	12
1605	Hypersharpener by an NMF-Unmixing-Based Method Addressing Spectral Variability. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	6
1606	Bilateral Joint-Sparse Regression for Hyperspectral Unmixing. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 10147-10161.	2.3	5
1607	Spatially Constrained Online Dictionary Learning for Source Separation. IEEE Transactions on Image Processing, 2021, 30, 3217-3228.	6.0	2
1608	A Novel Hyperspectral Unmixing Method based on Least Squares Twin Support Vector Machines. European Journal of Remote Sensing, 2021, 54, 72-85.	1.7	5
1609	A comprehensive review of hyperspectral data fusion with lidar and sar data. Annual Reviews in Control, 2021, 51, 236-253.	4.4	22
1610	Hyperspectral Denoising Using Unsupervised Disentangled Spatiospectral Deep Priors. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	2.7	19
1611	Tensorized Feature Spaces for Feature Explosion. , 2021, , .		0
1612	$\ell_{2,1}$ -Sparsity-Regularized Attention Multiple-Instance Network for Hyperspectral Target Detection. IEEE Transactions on Cybernetics, 2023, 53, 124-137.	6.2	7
1613	Hy-Demosaicing: Hyperspectral Blind Reconstruction From Spectral Subsampling. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	2.7	16

#	ARTICLE	IF	CITATIONS
1614	Spectral Variability in Hyperspectral Data Unmixing: A comprehensive review. IEEE Geoscience and Remote Sensing Magazine, 2021, 9, 223-270.	4.9	92
1615	Unmanned Aerial Vehicle (UAV)-Based Hyperspectral Imaging System for Precision Agriculture and Forest Management. , 2020, , 25-38.		7
1616	A Bayesian Approach to Linear Unmixing in the Presence of Highly Mixed Spectra. Lecture Notes in Computer Science, 2016, , 263-274.	1.0	4
1617	Sharpening Hyperspectral Images Using Plug-and-Play Priors. Lecture Notes in Computer Science, 2017, , 392-402.	1.0	11
1618	Image Completion with Nonnegative Matrix Factorization Under Separability Assumption. Lecture Notes in Computer Science, 2018, , 116-126.	1.0	2
1619	Application of Hyperspectral Image Unmixing for Internet of Things. Lecture Notes in Networks and Systems, 2020, , 249-260.	0.5	1
1620	Hyperspectral Endmember Extraction Algorithm Using Convex Geometry and K-Means. Communications in Computer and Information Science, 2020, , 189-200.	0.4	3
1621	Non-linear unmixing of hyperspectral images using multiple-kernel self-organising maps. IET Image Processing, 2019, 13, 2190-2195.	1.4	5
1622	Band selection of hyperspectral image by sparse manifold clustering. IET Image Processing, 2019, 13, 1625-1635.	1.4	8
1623	A spatial-spectral clustering-based algorithm for endmember extraction and hyperspectral unmixing. International Journal of Remote Sensing, 2021, 42, 1948-1972.	1.3	8
1624	Deep Learning in Hyperspectral Unmixing: A Review. , 2020, , .		41
1625	Double-Factor-Regularized Low-Rank Tensor Factorization for Mixed Noise Removal in Hyperspectral Image. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 8450-8464.	2.7	81
1626	Spatial-Spatial-Weighted Multiview Collaborative Sparse Unmixing for Hyperspectral Images. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 8766-8779.	2.7	33
1627	Material Based Object Tracking in Hyperspectral Videos. IEEE Transactions on Image Processing, 2020, 29, 3719-3733.	6.0	131
1628	Hyperspectral Image Compressive Sensing Reconstruction Using Subspace-Based Nonlocal Tensor Ring Decomposition. IEEE Transactions on Image Processing, 2020, 29, 6813-6828.	6.0	47
1629	MHF-Net: An Interpretable Deep Network for Multispectral and Hyperspectral Image Fusion. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 1457-1473.	9.7	95
1630	Parallel optimization of pixel purity index algorithm for massive hyperspectral images in cloud computing environment. Journal of Applied Remote Sensing, 2016, 10, 025024.	0.6	3
1631	Spatial-spatial classification of hyperspectral image using three-dimensional convolution network. Journal of Applied Remote Sensing, 2018, 12, 1.	0.6	8

#	ARTICLE	IF	CITATIONS
1632	Detailed urban surface characterization using spectra from enhanced spatial resolution Sentinel-2 imagery and a hierarchical multiple endmember spectral mixture analysis approach. Journal of Applied Remote Sensing, 2019, 13, 1.	0.6	7
1633	Hyperspectral image classification using non-negative tensor factorization and multinomial logistic regression. Journal of Applied Remote Sensing, 2019, 13, 1.	0.6	4
1634	Identification of iron-bearing minerals based on HySpex hyperspectral remote sensing data. Journal of Applied Remote Sensing, 2019, 13, 1.	0.6	3
1635	Four-directional spatial regularization for sparse hyperspectral unmixing. Journal of Applied Remote Sensing, 2020, 14, .	0.6	8
1636	Optical determination of material abundances by using neural networks for the derivation of spectral filters. Proceedings of SPIE, 2017, , .	0.8	1
1637	Seeded Laplacian in sparse subspace for hyperspectral image classification. , 2018, , .		1
1638	Using a column subset selection method for endmember extraction in hyperspectral unmixing. , 2018, , .		1
1639	Soil fertility status assessment using hyperspectral remote sensing. , 2019, , .		3
1640	Fast Endmember Extraction for Massive Hyperspectral Sensor Data on GPUs. International Journal of Distributed Sensor Networks, 2013, 9, 217180.	1.3	6
1641	End-member extraction based on segmented vertex component analysis in hyperspectral images. Applied Optics, 2017, 56, 2476.	2.1	7
1642	Hyperspectral and multispectral imaging in digital and computational pathology: a systematic review [Invited]. Biomedical Optics Express, 2020, 11, 3195.	1.5	85
1643	Hyperspectral Unmixing using the AFSSI-C. , 2015, , .		1
1644	Noise Reduction in Spatial Data using Machine Learning Methods for Road Condition Data. International Journal of Advanced Computer Science and Applications, 2020, 11, .	0.5	1
1645	Performance Enhancement of Minimum Volume based Hyper Spectral Unmixing Algorithms by Variational Mode Decomposition. Indian Journal of Science and Technology, 2015, 8, .	0.5	1
1646	Sparse Subspace Clustering in Hyperspectral Images using Incomplete Pixels. Tecno LÃ³gicas, 2019, 22, 1-14.	0.1	5
1647	Attention-Based Residual Network with Scattering Transform Features for Hyperspectral Unmixing with Limited Training Samples. Remote Sensing, 2020, 12, 400.	1.8	14
1648	Multi-GPU Based Parallel Design of the Ant Colony Optimization Algorithm for Endmember Extraction from Hyperspectral Images. Sensors, 2019, 19, 598.	2.1	6
1649	Locally sparse reconstruction using the l^1 -norm. Inverse Problems and Imaging, 2015, 9, 1093-1137.	0.6	4

#	ARTICLE	IF	CITATIONS
1650	UNMIXING-BASED DENOISING AS A PRE-PROCESSING STEP FOR CORAL REEF ANALYSIS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-1/W1, 279-282.	0.2	1
1651	WORKFLOW FOR BUILDING A HYPERSPECTRAL UAV: CHALLENGES AND OPPORTUNITIES. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XL-1/W4, 415-419.	0.2	10
1652	ADVANCES IN HYPERSPECTRAL AND MULTISPECTRAL IMAGE FUSION AND SPECTRAL UNMIXING. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XL-3/W3, 451-458.	0.2	13
1653	Hyper-Embedder: Learning a Deep Embedder for Self-Supervised Hyperspectral Dimensionality Reduction. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	5
1654	LR-Net: Low-Rank Spatial-Spectral Network for Hyperspectral Image Denoising. IEEE Transactions on Image Processing, 2021, 30, 8743-8758.	6.0	25
1655	$S^{>3}$ TRM: Spectral-Spatial Unmixing of Hyperspectral Imagery Based on Sparse Topic Relaxation-Clustering Model. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	2.7	1
1656	Adversarial Autoencoder Network for Hyperspectral Unmixing. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 4555-4569.	7.2	31
1657	Semi-Supervised Unmixing of Hyperspectral Data via Spectral-Spatial Factorization. IEEE Sensors Journal, 2021, 21, 25963-25972.	2.4	4
1658	Revisiting Deep Hyperspectral Feature Extraction Networks via Gradient Centralized Convolution. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-19.	2.7	18
1659	Low-Rank Subspace Unmixing of Remotely Sensed Hyperspectral Image. , 2021, , .		1
1660	On Hyperspectral Super-Resolution. , 2021, , .		1
1661	A Union Framework with Sparse Topic Relaxion and Group Clustering for Hyperspectral Unmixing. , 2021, , .		0
1662	Hypersharpener by a Multiplicative Joint-Criterion NMF Method Addressing Spectral Variability. , 2021, , .		2
1663	On Hyperspectral Unmixing. , 2021, , .		1
1664	A Penalization-Based NMF Approach for Hyperspectral Unmixing Addressing Spectral Variability with an Additively-Tuned Mixing Model. , 2021, , .		5
1665	Gradient-Based NMF Methods for Hyperspectral Unmixing Addressing Spectral Variability with a Multiplicative-Tuning Linear Mixing Model. , 2021, , .		4
1666	Sparsity Constrained Convolutional Autoencoder Network for Hyperspectral Image Unmixing. , 2021, , .		2
1667	Rethinking the High Frequency Components in Deep Sub-Pixel Mapping Network. , 2021, , .		0

#	ARTICLE	IF	CITATIONS
1668	Enhancing Reweighted Low-Rank Representation for Hyperspectral Image Unmixing. , 2021, , .		1
1669	An Overview of the Contributions of Jose Manuel Bioucas-Dias to Remote Sensing Image Processing. , 2021, , .		0
1670	Endmember Constraint Non-Negative Tensor Factorization Via Total Variation for Hyperspectral Unmixing. , 2021, , .		2
1671	Spectral Unmixing Using Autoencoder with Spatial and Spectral Regularizations. , 2021, , .		13
1672	LiDAR-Aided Total Variation Regularized Nonnegative Tensor Factorization for Hyperspectral Unmixing. , 2021, , .		1
1673	An Informed NMF-Based Unmixing Approach for Mineral Detection and Mapping in the Algerian Central Hoggar Using PRISMA Remote Sensing Hyperspectral Data. , 2021, , .		4
1674	Boosting Hyperspectral Image Unmixing Using Denoising: Four Scenarios. , 2021, , .		0
1675	Hyperspectral Image Mixed Noise Removal Using Subspace Representation and Deep CNN Image Prior. Remote Sensing, 2021, 13, 4098.	1.8	16
1676	Improved minimum volume simplex analysis algorithm for unmixing of hyperspectral data. Geocarto International, 0, , 1-22.	1.7	0
1677	Hyperspectral Super-Resolution Via Joint Regularization of Low-Rank Tensor Decomposition. Remote Sensing, 2021, 13, 4116.	1.8	4
1678	Deep Ensembles for Hyperspectral Image Data Classification and Unmixing. Remote Sensing, 2021, 13, 4133.	1.8	9
1679	Spatial feature extraction non-negative tensor factorization for hyperspectral unmixing. Applied Mathematical Modelling, 2022, 103, 18-35.	2.2	2
1680	ABOUT THE APPLICATIONS OF UNMIXING-BASED DENOISING FOR HYPERSPECTRAL DATA. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XL-1/W3, 103-106.	0.2	0
1681	Hyperspectral Image Unmixing Based on Sparse and Minimum Volume Constrained Nonnegative Matrix Factorization. Communications in Computer and Information Science, 2014, , 44-52.	0.4	2
1682	Geometric Abundance Estimation Using Variable Endmembers for Hyperspectral Imagery. International Journal of Hybrid Information Technology, 2014, 7, 133-142.	0.6	0
1683	Hyperspectral Imagery Further Unmixing Based On Analysis Of Variance. , 0, , .		0
1684	Tsunami Affected Farmland Extraction Using Morphological Profiles (MPs) Method by Satellite Images Including SAR and Visible Near-Infrared Band Data. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XL-7/W3, 871-875.	0.2	0
1686	Factor Analysis of Dynamic Sequence with Spatial Prior for 2D Cardiac Spect Sequences Analysis. Lecture Notes in Computer Science, 2016, , 228-237.	1.0	2

#	ARTICLE	IF	CITATIONS
1687	Partially Geometric-Constrained Sequential Endmember Finding: Convex Cone Volume Analysis. , 2016, , 243-272.		0
1688	Partially and Fully Constrained Least Squares Linear Spectral Mixture Models for Subpixel Land Cover Classification Using Landsat Data. International Journal of Signal Processing Systems, 2016, 4, 245-251.	0.5	5
1689	Non-dictionary Aided Sparse Unmixing of Hyperspectral Images via Weighted Nonnegative Matrix Factorization. Lecture Notes in Computer Science, 2017, , 596-604.	1.0	3
1690	A REVIEW ON MULTIPLE-FEATURE-BASED ADAPTIVE SPARSE REPRESENTATION (MFASR) AND OTHER CLASSIFICATION TYPES. International Journal on Smart Sensing and Intelligent Systems, 2017, 10, 1-27.	0.4	1
1691	Estimating the Number of Endmembers to Use in Spectral Unmixing of Hyperspectral Data with Collaborative Sparsity. Lecture Notes in Computer Science, 2017, , 381-391.	1.0	3
1692	Estimation of the Intrinsic Dimensionality in Hyperspectral Imagery via the Hubness Phenomenon. Lecture Notes in Computer Science, 2017, , 357-366.	1.0	0
1694	XRAY Algorithm for Separable Nonnegative Tensor Factorization. Lecture Notes in Computer Science, 2017, , 246-256.	1.0	0
1695	ARCHETYPAL ANALYSIS FOR SPARSE REPRESENTATION-BASED HYPERSPECTRAL SUB-PIXEL QUANTIFICATION. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, IV-1/W1, 133-139.	0.0	0
1696	A method of minimum volume simplex analysis constrained unmixing for hyperspectral image. , 2017, , .		0
1697	Unmixing Algorithms: A Review of Techniques for Spectral Detection and Classification of Land Cover from Mixed Pixels on NASA Earth Exchange. , 2017, , 131-174.		0
1698	A framework for learning affine transformations for multimodal sparse reconstruction. , 2017, , .		1
1699	Hyperspectral image denoising and anomaly detection based on low-rank and sparse representations. , 2017, , .		12
1700	Remotely sensed physical property estimation from powder contaminated surfaces. Journal of Applied Remote Sensing, 2017, 11, 1.	0.6	0
1701	SUPERPIXEL BASED FACTOR ANALYSIS AND TARGET TRANSFORMATION METHOD FOR MARTIAN MINERALS DETECTION. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-3, 1901-1906.	0.2	0
1702	REMOTE SENSING DATA FUSION TO DETECT ILLICIT CROPS AND UNAUTHORIZED AIRSTRIPS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-3, 1363-1368.	0.2	0
1703	SPECTRAL UNMIXING ANALYSIS OF TIME SERIES LANDSAT 8 IMAGES. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-3, 2609-2614.	0.2	2
1704	COMPRESSIVE SENSING APPROACH TO HYPERSPECTRAL IMAGE COMPRESSION. ICTACT Journal on Image and Video Processing, 2018, 9, 1849-1856.	0.2	0
1705	Unsupervised sparsity-based unmixing of hyperspectral imaging data using an online sparse coding dictionary. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
1706	Unmixing-based approach as a tool for classification of oil palm diseases using hyperspectral remote sensing in Colombia. , 2018, , .		0
1707	Hyperspectral unmixing using sparsity-constrained multilayer non-negative matrix factorization. Journal of Applied Remote Sensing, 2018, 12, 1.	0.6	0
1708	Quantitative analysis of petroleum hydrocarbon contaminated soils using spectroscopy, spectral unmixing and deep neural networks. , 2018, , .		0
1709	Hyperspectral unmixing using graph-regularized and sparsity-constrained deep NMF. , 2018, , .		2
1710	A band selection technique for optimized hyperspectral unmixing. Journal of Geospatial Information Technology, 2018, 6, 101-122.	0.2	0
1711	New Template Matching Method for Subpixel Mapping of Linear Feature Mixed Pixels. Journal of Image and Signal Processing, 2019, 08, 180-193.	0.1	0
1712	An Endmember Bundle Extraction Algorithm Based on Superpixel Segmentation and Pure Pixel Index. Journal of Image and Signal Processing, 2019, 08, 169-179.	0.1	0
1714	Hyperspectral tree crown classification using the multiple instance adaptive cosine estimator. PeerJ, 2019, 7, e6405.	0.9	6
1715	Superpixel-based local collaborative sparse unmixing for hyperspectral image. Journal of Applied Remote Sensing, 2019, 13, 1.	0.6	2
1716	Hyperspectral imaging for intraoperative diagnosis of colon cancer metastasis in a liver. , 2019, , .		3
1717	Spectral unmixing approach in hyperspectral remote sensing: a tool for oil palm mapping. Tecno LA ³ gicas, 2019, 22, 129-143.	0.1	2
1718	Semi-supervised discriminant feature selection for hyperspectral imagery classification. , 2019, , .		0
1719	Analysis of close-range hyperspectral images of vegetation communities in a high Arctic tundra ecosystem. , 2019, , .		0
1720	Robust iterative estimation of material abundances based on spectral filters exploiting the SVD. , 2019, , .		2
1721	A novel nonnegative matrix factorization method for hyperspectral unmixing. , 2019, , .		0
1722	Endmembers abundance estimators based on spectral shape similarity using genetic algorithm and generalized pattern search algorithm. Journal of Applied Remote Sensing, 2019, 13, 1.	0.6	0
1723	Hyperspectral unmixing using double reweighted collaborative sparse regression. , 2019, , .		0
1724	Spectral and spatial total-variation-regularized multilayer non-negative matrix factorization for hyperspectral unmixing. Journal of Applied Remote Sensing, 2019, 13, 1.	0.6	2

#	ARTICLE	IF	CITATIONS
1725	Exploring error of linear mixed model for hyperspectral image reconstruction from spectral compressive sensing. Journal of Applied Remote Sensing, 2019, 13, 1.	0.6	4
1726	A pixel-by-pixel NMF-based method for hyperspectral unmixing using a new linear mixing model to address additively-tuned spectral variability. , 2019, , .		3
1727	Hyperspectral Image Classification With Online Structured Dictionary Learning. , 2019, , .		2
1728	Decomposition of mixed pixels in MODIS data using Bernstein basis functions. Journal of Applied Remote Sensing, 2019, 13, 1.	0.6	2
1729	Unsupervised Hyperspectral and Multispectral Images Fusion Based on Nonlinear Variational Probabilistic Generative Model. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 721-735.	7.2	14
1730	Unsupervised Hyperspectral Band Selection By Sequentially Clustering A Mahalanobis-Based Dissimilarity Of Spectrally Variable Endmembers. , 2020, , .		5
1731	Stochastic ML Estimation for Hyperspectral Unmixing Under Endmember Variability and Nonlinear Models. , 2020, , .		1
1732	Multimode hyperspectral data fusion for fish species identification using supervised and reinforcement learning. , 2020, , .		0
1733	FUSION OF LIDAR AND HYPERSPECTRAL DATA FOR SEMANTIC SEGMENTATION OF FOREST TREE SPECIES. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLIII-B3-2020, 487-494.	0.2	1
1734	Hyperspectral Endmember Extraction Algorithm Using Spearman's Rank Correlation. Algorithms for Intelligent Systems, 2021, , 305-318.	0.5	1
1735	Improved ML Models on Feature Extraction in HSI. , 2020, , .		0
1736	Low-Rank and Spectral-Spatial Sparse Unmixing for Hyperspectral Remote Sensing Imagery. Wireless Communications and Mobile Computing, 2021, 2021, 1-14.	0.8	0
1737	Investigation of Ancient Wall Painting Fragments Discovered in the Roman Baths from Alburnus Maior by Complementary Non-Destructive Techniques. Applied Sciences (Switzerland), 2021, 11, 10049.	1.3	11
1738	A Novel Endmember Extraction Method Based on Manifold Dimensionality Reduction. Lecture Notes in Electrical Engineering, 2020, , 615-621.	0.3	0
1739	Recent Advances in Hyperspectral Unmixing Using Sparse Techniques and Deep Learning. Advances in Computer Vision and Pattern Recognition, 2020, , 377-405.	0.9	2
1740	Soil Salinity Detection in Semi-Arid Region Using Spectral Unmixing, Remote Sensing and Ground Truth Measurements. Journal of Geographic Information System, 2020, 12, 372-386.	0.3	3
1741	Hyperspectral Image Denoising Based on Non-convex Low-rank Regularization in Tensor Transform Domain. , 2020, , .		0
1742	Non-Linear Spectral Unmixing: A Case Study On Mangalore Aviris-Ng Hyperspectral Data. , 2020, , .		0

#	ARTICLE	IF	CITATIONS
1743	LiDAR Verisi Yardımla Otomatik Dalga Boyu Bandı Yaklaşıkla Kullanılarak Hiperspektral Görüntülerde Spektral Değişkenliğin Azaltılması. Atatürkova Üniversitesi Mühendislik-Mimarlık Fakültesi Dergisi, 0,1, 983-992.		0
1744	A multimodal feature selection method for remote sensing data analysis based on double graph Laplacian diagonalization. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, , 1-1.	2.3	1
1745	Restoration of hyperspectral images using iterative regularization based on higher order singular value decomposition. Journal of Electronic Imaging, 2019, 28, 1.	0.5	1
1746	Detection of Large-Scale and Anomalous Changes. Advances in Computer Vision and Pattern Recognition, 2020, , 351-375.	0.9	2
1747	Advances in Deep Learning for Hyperspectral Image Analysis—Addressing Challenges Arising in Practical Imaging Scenarios. Advances in Computer Vision and Pattern Recognition, 2020, , 117-140.	0.9	2
1748	Hyperspectral Image Super-Resolution Using Multi-scale Feature Pyramid Network. Communications in Computer and Information Science, 2020, , 49-61.	0.4	0
1749	Hyperspectral—Multispectral Image Fusion Enhancement Based on Deep Learning. Advances in Computer Vision and Pattern Recognition, 2020, , 407-433.	0.9	0
1750	Automatic Target Detection for Sparse Hyperspectral Images. Advances in Computer Vision and Pattern Recognition, 2020, , 435-462.	0.9	0
1751	Low Dimensional Manifold Model in Hyperspectral Image Reconstruction. Advances in Computer Vision and Pattern Recognition, 2020, , 295-317.	0.9	3
1752	An NMF-Based Method For Hyperspectral Unmixing Using A Structured Additively-Tuned Linear Mixing Model To Address Spectral Variability. , 2020, , .		4
1753	Fusion of Hyperspectral and Multispectral Images Accounting for Localized Inter-Image Changes. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-18.	2.7	13
1754	Unmixing of Hyperspectral Data Using Spectral Libraries. International Journal of Environment and Geoinformatics, 2020, 7, 93-101.	0.5	0
1755	AVHYAS: A Free and Open Source QGIS Plugin for Advanced Hyperspectral Image Analysis. , 2021, , .		6
1756	Mapping of Coral Reefs with Multispectral Satellites: A Review of Recent Papers. Remote Sensing, 2021, 13, 4470.	1.8	7
1757	Endmember and band combined model for hyperspectral unmixing with spectral variability. Journal of Applied Remote Sensing, 2020, 14, 1.	0.6	0
1758	Catadioptric hyperspectral imaging, an unmixing approach. IET Computer Vision, 2020, 14, 493-504.	1.3	3
1759	Homogeneous region regularized multilayer non-negative matrix factorization for hyperspectral unmixing. Journal of Applied Remote Sensing, 2020, 14, .	0.6	1
1760	Hyperspectral Imaging via Optimization: Restoration and Fusion. Ieice Ess Fundamentals Review, 2020, 14, 138-146.	0.1	1

#	ARTICLE	IF	CITATIONS
1761	An endmember extraction method based on PCA and a new SGA algorithm. , 2020, , .		0
1762	A Probability Metric-Based Autoencoder for Hyperspectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	2.7	1
1763	Spectral Unmixing based on Joint Sparsity and Total Variation using Remote Sensing Data. , 2021, , .		0
1764	Learning Diagonal Gaussian Mixture Models and Incomplete Tensor Decompositions. Vietnam Journal of Mathematics, 0, , 1.	0.4	6
1765	Phenology and Spectral Unmixing-Based Invasive Kudzu Mapping: A Case Study in Knox County, Tennessee. Remote Sensing, 2021, 13, 4551.	1.8	1
1766	An Adaptive-Parameter Pixel Unmixing Method for Mapping Evergreen Forest Fractions Based on Time-Series NDVI: A Case Study of Southern China. Remote Sensing, 2021, 13, 4678.	1.8	8
1767	Superpixel-Guided Discriminative Low-Rank Representation of Hyperspectral Images for Classification. IEEE Transactions on Image Processing, 2021, 30, 8823-8835.	6.0	16
1768	Probabilistic Simplex Component Analysis. IEEE Transactions on Signal Processing, 2022, 70, 582-599.	3.2	4
1769	Self-Supervised Symmetric Nonnegative Matrix Factorization. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 4526-4537.	5.6	5
1770	Hyperspectral Image Classificationâ€™Traditional to Deep Models: A Survey for Future Prospects. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 968-999.	2.3	123
1771	Constrained Nonnegative Matrix Factorization for Blind Hyperspectral Unmixing Incorporating Endmember Independence. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 11853-11869.	2.3	10
1772	Robust Double Spatial Regularization Sparse Hyperspectral Unmixing. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 12569-12582.	2.3	10
1773	Regularizing Subspace Representation for Fusing Hyperspectral and Multispectral Images. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 12273-12286.	2.3	3
1774	Hyperspectral Target Detection Using a Bilinear Sparse Binary Hypothesis Model. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	2.7	4
1775	Provably Robust Blind Source Separation of Linear-Quadratic Near-Separable Mixtures. SIAM Journal on Imaging Sciences, 2021, 14, 1848-1889.	1.3	2
1776	Unsupervised Deep Hyperspectral Video Target Tracking and High Spectral-Spatial-Temporal Resolution (H ³) Benchmark Dataset. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	2.7	15
1777	Efficient ADMM-Based Algorithms for Convolutional Sparse Coding. IEEE Signal Processing Letters, 2022, 29, 389-393.	2.1	8
1778	Hyperspectral Detection and Unmixing of Subpixel Target Using Iterative Constrained Sparse Representation. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 1049-1063.	2.3	4

#	ARTICLE	IF	CITATIONS
1779	Efficient Semantic Segmentation of Hyperspectral Images Using Adaptable Rectangular Convolution. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	9
1780	Unsupervised Sparse Unmixing of Atmospheric Trace Gases From Hyperspectral Satellite Data. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	6
1781	Generating 2m fine-scale urban tree cover product over 34 metropolises in China based on deep context-aware sub-pixel mapping network. International Journal of Applied Earth Observation and Geoinformation, 2022, 106, 102667.	1.4	23
1782	Multi-resolution beta-divergence NMF for blind spectral unmixing. Signal Processing, 2022, 193, 108428.	2.1	6
1783	A Geometric view of Fast Gram Determinant-Based Endmember Extraction Algorithm for Hyperspectral Imagery. , 2020, , .		2
1784	Total Nuclear Norms of Gradients for Hyperspectral Image Pansharpening. , 2020, , .		1
1785	Data-Driven and Model-Driven Spectral Superresolution Algorithms: Combination, Analysis and Application for Classification. , 2020, , .		0
1786	Noise Analysis of Hyperspectral Images Captured by Different Sensors. , 2020, , .		0
1787	Cauchy NMF for Hyperspectral Unmixing. , 2020, , .		1
1788	Task-Oriented Selection of Remote Sensing Satellite System under Target Recognition Probability Constraint. , 2020, , .		0
1789	Hyperspectral Nonlinear Unmixing via Generative Adversarial Network. , 2020, , .		5
1790	Spectral-Spatial Weighted Sparse Nonnegative Tensor Factorization for Hyperspectral Unmixing. , 2020, , .		4
1791	Unsupervised Hyperspectral Embedding by Learning a Deep Regression Network. , 2020, , .		2
1792	VRHD: An Interactive Visualization Method for Hyperspectral Data Based on Volume Rendering. , 2020, , .		0
1793	Utility Metric for Subset Dictionary Selection in Semi-Blind Hyperspectral Unmixing. , 2020, , .		0
1794	Novel Methodology for Alzheimer's Disease Biomarker Identification in Plasma using Hyperspectral Microscopy. , 2020, , .		2
1795	A comparative study of hyperspectral unmixing using different algorithm approaches. Indonesian Journal of Electrical Engineering and Computer Science, 2020, 20, 813.	0.7	1
1796	LULC classification by semantic segmentation of satellite images using FastFCN. , 2020, , .		4

#	ARTICLE	IF	CITATIONS
1797	Ensemble of Winter's belief based frameworks for Hyperspectral Endmember Extraction. , 2020, , .		0
1798	Nonlinear Unmixing for Hyperspectral Images via Kernel-Transformed Bilinear Mixing Models. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	2.7	6
1799	Hyperspectral Remote Sensing. Encyclopedia of Earth Sciences Series, 2021, , 1-6.	0.1	1
1800	A Spectral and Spatial Attention Network for Change Detection in Hyperspectral Images. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	2.7	25
1801	Inertial Majorization-Minimization Algorithm for Minimum-Volume NMF. , 2021, , .		3
1802	Exact Biobjective k-Sparse Nonnegative Least Squares. , 2021, , .		1
1803	Interpretable Multiple Loss Functions in A Low-Rank Deep Image Prior Based Method For Single Hyperspectral Image Super-Resolution. , 2021, , .		1
1804	Deep orthogonal matrix factorization as a hierarchical clustering technique. , 2021, , .		2
1805	MiSiCNet: Minimum Simplex Convolutional Network for Deep Hyperspectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	2.7	30
1806	Blind Hyperspectral Unmixing Using Autoencoders: A Critical Comparison. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 1340-1372.	2.3	36
1807	Hyperspectral Super-resolution Accounting for Spectral Variability: Coupled Tensor L1-Based Recovery and Blind Unmixing of the Unknown Super-resolution Image. SIAM Journal on Imaging Sciences, 2022, 15, 110-138.	1.3	10
1808	Sparse Linear Spectral Unmixing of Hyperspectral Images Using Expectation-Propagation. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	2.7	4
1809	Reflectance Spectra Analysis Algorithms for the Characterization of Deposits and Condensed Traces on Surfaces. , 0, , .		0
1810	Unmixing-Based PAN-Guided Fusion Network for Hyperspectral Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	2.7	3
1811	Discriminative Multiple-Instance Hyperspectral Subpixel Target Characterization. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-20.	2.7	3
1812	Hyperspectral Image Restoration via Spatial-Spectral Residual Total Variation Regularized Low-Rank Tensor Decomposition. Remote Sensing, 2022, 14, 511.	1.8	3
1813	Automated Large-Scale Mapping of the Jahazpur Mineralised Belt by a MapReduce Model with an Integrated ELM Method. PFG - Journal of Photogrammetry, Remote Sensing and Geoinformation Science, 2022, 90, 191-209.	0.7	3
1814	Superpixel-Based Weighted Collaborative Sparse Regression and Reweighted Low-Rank Representation for Hyperspectral Image Unmixing. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 393-408.	2.3	7

#	ARTICLE	IF	CITATIONS
1815	Hyperspectral Image Denoising via Low-Rank Representation and CNN Denoiser. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 716-728.	2.3	10
1816	Flood monitoring by integration of Remote Sensing technique and Multi-Criteria Decision Making method. Computers and Geosciences, 2022, 160, 105045.	2.0	34
1817	BCUN: Bayesian Fully Convolutional Neural Network for Hyperspectral Spectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	2.7	10
1818	Synthetic Hyperspectral Images With Controllable Spectral Variability and Ground Truth. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	3
1819	SSCU-Net: Spatial-Spectral Collaborative Unmixing Network for Hyperspectral Images. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	2.7	15
1820	Nonnegative collaborative representation for hyperspectral anomaly detection. Remote Sensing Letters, 2022, 13, 352-361.	0.6	2
1821	Optimization-Based Hyperspectral Spatiotemporal Super-Resolution. IEEE Access, 2022, 10, 37477-37494.	2.6	2
1822	Hyperspectral Image Super-Resolution with RGB Image Super-Resolution as an Auxiliary Task. , 2022, , .		10
1823	Multimodal Hyperspectral Unmixing: Insights From Attention Networks. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	2.7	38
1824	A General Destriping Framework for Remote Sensing Images Using Flatness Constraint. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	2.7	9
1825	An Adaptive Surrogate-Assisted Endmember Extraction Framework Based on Intelligent Optimization Algorithms for Hyperspectral Remote Sensing Images. Remote Sensing, 2022, 14, 892.	1.8	12
1826	Benchmark studies on pixel-level spectral unmixing of multi-resolution hyperspectral imagery. International Journal of Remote Sensing, 2022, 43, 1451-1484.	1.3	9
1827	Toward Integrated Large-Scale Environmental Monitoring Using WSN/UAV/Crowdsensing: A Review of Applications, Signal Processing, and Future Perspectives. Sensors, 2022, 22, 1824.	2.1	45
1828	Detecting and correcting false transients in calcium imaging. Nature Methods, 2022, 19, 470-478.	9.0	7
1829	Hyperspectral unmixing using weighted sparse regression with total variation regularization. International Journal of Remote Sensing, 2022, 43, 6124-6151.	1.3	7
1831	An exact penalty approach for optimization with nonnegative orthogonality constraints. Mathematical Programming, 2023, 198, 855-897.	1.6	6
1832	Hyperspectral Data Classification Algorithm considering Spatial Texture Features. Mobile Information Systems, 2022, 2022, 1-11.	0.4	1
1833	Live-cell fluorescence spectral imaging as a data science challenge. Biophysical Reviews, 2022, 14, 579-597.	1.5	10

#	ARTICLE	IF	CITATIONS
1834	Hyperspectral and multispectral image fusion addressing spectral variability by an augmented linear mixing model. <i>International Journal of Remote Sensing</i> , 2022, 43, 1577-1608.	1.3	10
1835	Hyperspectral Image Denoising via Adversarial Learning. <i>Remote Sensing</i> , 2022, 14, 1790.	1.8	13
1836	Hyperspectral Image Reconstruction Based on Reference Point Nondominated Sorting Genetic Algorithm. <i>Mobile Information Systems</i> , 2022, 2022, 1-24.	0.4	0
1837	A classification-based spatiotemporal adaptive fusion model for the evaluation of remotely sensed evapotranspiration in heterogeneous irrigated agricultural area. <i>Remote Sensing of Environment</i> , 2022, 273, 112962.	4.6	19
1838	Generating continuous fine-scale land cover mapping by edge-guided maximum a posteriori based spatiotemporal sub-pixel mapping. <i>Science of Remote Sensing</i> , 2022, 5, 100041.	2.2	1
1839	Visible and Near-Infrared hyperspectral imaging (HSI) can reliably quantify CD3 and CD45 positive inflammatory cells in myocarditis: Pilot study on formalin-fixed paraffin-embedded specimens from myocard obtained during autopsy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 274, 121092.	2.0	3
1840	Cyber-physical systems for end-of-life management of printed circuit boards and mechatronics products in home automation: A review. <i>Sustainable Materials and Technologies</i> , 2022, 32, e00422.	1.7	2
1841	Evaluating the use of Hyperspectral Imaging as Complementary Blood Sample Tests. , 2021, , .		0
1842	Adaptive Total Variation Regularized for Hyperspectral Unmixing. , 2021, , .		0
1843	Learning Based Super Resolution Application for Hyperspectral Images. <i>International Scientific and Vocational Studies Journal</i> , 0, , 210-217.	0.2	0
1844	Hyperspectral linear unmixing based on collaborative sparsity and multi-band non-local total variation. <i>International Journal of Remote Sensing</i> , 2022, 43, 1-26.	1.3	4
1845	Visibility Restoration of Hyperspectral Images. , 2021, , .		0
1846	A Global Spectral-Spatial Feature Learning Network for Semisupervised Hyperspectral Unmixing. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2022, 15, 3190-3203.	2.3	2
1848	Spectral Variability Augmented Sparse Unmixing of Hyperspectral Images. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-13.	2.7	14
1849	Hyperspectral sparse unmixing based on multiple dictionary pruning. <i>International Journal of Remote Sensing</i> , 2022, 43, 2712-2734.	1.3	2
1850	A Distributed N-FINDR Cloud Computing-Based Solution for Endmembers Extraction on Large-Scale Hyperspectral Remote Sensing Data. <i>Remote Sensing</i> , 2022, 14, 2153.	1.8	4
1851	Spectral Unmixing Based Approach for Measuring Gas Flaring from VIIRS NTL Remote Sensing Data: Case of the Flare FIT-M8-101A-1U, Algeria. <i>Remote Sensing</i> , 2022, 14, 2305.	1.8	4
1852	Material-Guided Siamese Fusion Network for Hyperspectral Object Tracking. , 2022, , .		10

#	ARTICLE	IF	CITATIONS
1853	Improving Joint Sparse Hyperspectral Unmixing by Simultaneously Clustering Pixels According To Their Mixtures. , 2022, , .		1
1854	Block-Activated Algorithms For Multicomponent Fully Nonsmooth Minimization. , 2022, , .		0
1855	Deep Deterministic Independent Component Analysis for Hyperspectral Unmixing. , 2022, , .		2
1856	A spectral grouping-based deep learning model for haze removal of hyperspectral images. ISPRS Journal of Photogrammetry and Remote Sensing, 2022, 188, 177-189.	4.9	15
1857	Screening chronic myeloid leukemia neutrophils using a novel 3-Dimensional Spectral Gradient Mapping algorithm on hyperspectral images. Computer Methods and Programs in Biomedicine, 2022, 220, 106836.	2.6	4
1858	Improving Autoencoder Training Performance for Hyperspectral Unmixing with Network Reinitialisation. Lecture Notes in Computer Science, 2022, , 391-403.	1.0	1
1859	Hyperspectral Unmixing Based on Nonnegative Matrix Factorization: A Comprehensive Review. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 4414-4436.	2.3	31
1860	Superpixel-Based Collaborative and Low-Rank Regularization for Sparse Hyperspectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	2.7	12
1861	Supervised Nonlinear Hyperspectral Unmixing With Automatic Shadow Compensation Using Multiswarm Particle Swarm Optimization. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-18.	2.7	6
1862	Learning Tensor Low-Rank Representation for Hyperspectral Anomaly Detection. IEEE Transactions on Cybernetics, 2023, 53, 679-691.	6.2	54
1863	Nonlinear Extended Blind End-Member and Abundance Extraction for Hyperspectral Images. SSRN Electronic Journal, 0, , .	0.4	0
1864	Hyperspectral denoising based on the principal component low-rank tensor decomposition. Open Geosciences, 2022, 14, 518-529.	0.6	0
1865	SISAL Revisited. SIAM Journal on Imaging Sciences, 2022, 15, 591-624.	1.3	2
1866	Multi-resolution terrestrial hyperspectral dataset for spectral unmixing problems. Data in Brief, 2022, 43, 108331.	0.5	2
1867	Theoretical Principles and Perspectives of Hyperspectral Imaging Applied to Sediment Core Analysis. Quaternary, 2022, 5, 28.	1.0	4
1868	Multiscale Spatial-spectral Joint Feature Learning for Multispectral and Hyperspectral Image Fusion. , 2021, , .		1
1869	A Novel Statistical Preprocessing Approach for Hyperspectral Image Unmixing. , 2021, , .		0
1870	Weighted Residual NMF With Spatial Regularization for Hyperspectral Unmixing. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	5

#	ARTICLE	IF	CITATIONS
1871	Nonlocal Self-Similarity-Based Hyperspectral Remote Sensing Image Denoising With 3-D Convolutional Neural Network. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	2.7	15
1872	Spectral Indices of Vegetation Condition and Soil Water Content Reflect Controls on CH ₄ and CO ₂ Exchange in <i>Sphagnum</i> -Dominated Northern Peatlands. Journal of Geophysical Research G: Biogeosciences, 2022, 127, .	1.3	7
1873	Assessment of spectral reduction techniques for endmember extraction in unmixing of hyperspectral images. Advances in Space Research, 2024, 73, 1237-1251.	1.2	0
1874	Spectroscopic and Petrographic Investigations of Lunar Mg-Suite Meteorite Northwest Africa 8687. Remote Sensing, 2022, 14, 2952.	1.8	0
1875	Robust generalized bilinear model with weighted low-rank representation for hyperspectral image unmixing. Journal of Applied Remote Sensing, 2022, 16, .	0.6	0
1876	AutoNAS: Automatic Neural Architecture Search for Hyperspectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	2.7	24
1877	A deep learning approach based on morphological profiles for Hyperspectral Image unmixing. , 2022, , .		3
1878	Spatial and Spectral-Channel Attention Network for Denoising on Hyperspectral Remote Sensing Image. Remote Sensing, 2022, 14, 3338.	1.8	8
1879	Quadratic Clustering-Based Simplex Volume Maximization for Hyperspectral Endmember Extraction. Applied Sciences (Switzerland), 2022, 12, 7132.	1.3	0
1880	Packed media radiative-transfer modeling with Gaussian particles: application to spectra of icy regolith of Saturnian satellites. Journal of Quantitative Spectroscopy and Radiative Transfer, 2022, , 108320.	1.1	1
1881	Non-Negative Matrix Factorization Based on Smoothing and Sparse Constraints for Hyperspectral Unmixing. Sensors, 2022, 22, 5417.	2.1	3
1882	Bayesian framework selection for hyperspectral image denoising. Signal Processing, 2022, 201, 108712.	2.1	2
1883	Graph Spatio-Spectral Total Variation Model for Hyperspectral Image Denoising. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	7
1884	Blind Source Separation for MT-InSAR Analysis With Structural Health Monitoring Applications. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 7605-7618.	2.3	5
1885	Flare Parameters Estimation from VIIRS NtL Remote Sensing Data: Improving Classical Approach by Spectral Unmixing. , 2022, , .		2
1886	Hypersharpener Based on Extended Coupled Nonnegative Matrix Factorization Addressing Spectral Variability. , 2022, , .		0
1887	Examining the interplay between artificial intelligence and the agri-food industry. Artificial Intelligence in Agriculture, 2022, 6, 111-128.	4.4	19
1888	Multi-Modal Non-Isotropic Light Source Modelling for Reflectance Estimation in Hyperspectral Imaging. IEEE Robotics and Automation Letters, 2022, 7, 10336-10343.	3.3	0

#	ARTICLE	IF	CITATIONS
1889	Nonlinear extended blind end-member and abundance extraction for hyperspectral images. Signal Processing, 2022, 201, 108718.	2.1	2
1890	Shadow-Aware Nonlinear Spectral Unmixing for Hyperspectral Imagery. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 5514-5533.	2.3	7
1891	A Vertex-Directed Evolutionary Algorithm for Multiobjective Endmember Estimation. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	2.7	3
1892	Local Low-Rank Approximation With Superpixel-Guided Locality Preserving Graph for Hyperspectral Image Classification. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 7741-7754.	2.3	1
1893	Hyperspectral Unmixing Using Transformer Network. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	2.7	28
1894	HapkeCNN: Blind Nonlinear Unmixing for Intimate Mixtures Using Hapke Model and Convolutional Neural Network. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	2.7	7
1895	A Multiobjective Method Leveraging Spatial-Spectral Relationship for Hyperspectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	2.7	10
1896	Exploring Nonlocal Group Sparsity Under Transform Learning for Hyperspectral Image Denoising. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-18.	2.7	14
1897	Multilevel Reweighted Sparse Hyperspectral Unmixing Using Superpixel Segmentation and Particle Swarm Optimization. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	4
1898	Toward Weak Signal Analysis in Hyperspectral Data: An Efficient Unmixing Perspective. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	2.7	2
1899	Surface Oxide Detection and Characterization Using Sparse Unmixing on Hyperspectral Images. Lecture Notes in Computer Science, 2022, , 291-302.	1.0	0
1900	Nonnegative-Constrained Joint Collaborative Representation With Union Dictionary for Hyperspectral Anomaly Detection. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	2.7	9
1901	Hyperspectral Unmixing with a Modified Augmented Linear Mixing Model Addressing Spectral Variability. , 2022, , .		5
1902	Analysis of Mucilage Levels Build Up in the Sea of Marmara Based on Unsupervised Unmixing of Worldview-3 Data. , 2022, , .		1
1903	HyperTransformer: A Textural and Spectral Feature Fusion Transformer for Pansharpening. , 2022, , .		43
1904	Improving Classical Approach for Flare Parameters Estimation from VIIRS NtL Remote Sensing Data by Linear and Nonlinear Spectral Unmixing Methods. , 2022, , .		2
1905	Hyperspectral Unmixing with Spectral Variability Using Endmember Guided Probabilistic Generative Deep Learning. , 2022, , .		2
1906	Minerals Detection and Mapping in the Southwestern Algeria Gara-Djebilet Region with a Multistage Informed NMF-Based Unmixing Approach Using Prisma Remote Sensing Hyperspectral Data. , 2022, , .		4

#	ARTICLE	IF	CITATIONS
1907	Graph Laplacian Regularized Spectral-Spatial-Sparse Unmixing for Hyperspectral Imagery. , 2022, , .		0
1908	Cascaded Autoencoders for Spectral-Spatial Remotely Sensed Hyperspectral Imagery Unmixing. , 2022, , .		2
1909	Multimodal Hyperspectral Unmixing via Attention Networks. , 2022, , .		0
1910	Dual Reweighted Low-Rank Sparse Unmixing with Total Variation Regularization. , 2022, , .		1
1911	Optimal segmentation and improved abundance estimation for superpixel-based Hyperspectral Unmixing. European Journal of Remote Sensing, 2022, 55, 485-506.	1.7	3
1912	Reweighted sparse unmixing for hyperspectral images with noise level estimation. Journal of Computational and Applied Mathematics, 2023, 421, 114843.	1.1	1
1913	DHCAE: Deep Hybrid Convolutional Autoencoder Approach for Robust Supervised Hyperspectral Unmixing. Remote Sensing, 2022, 14, 4433.	1.8	6
1914	Using SVD for Topic Modeling. Journal of the American Statistical Association, 2024, 119, 434-449.	1.8	3
1915	Spectral-spatial 3D dynamic trimmed median filter for removal of impulse noise in remotely sensed images. Multimedia Tools and Applications, 0, , .	2.6	1
1916	Multi-Class Pixel Certainty Active Learning Model for Classification of Land Cover Classes Using Hyperspectral Imagery. Electronics (Switzerland), 2022, 11, 2799.	1.8	15
1917	Hyperspectral Image Denoising With Weighted Nonlocal Low-Rank Model and Adaptive Total Variation Regularization. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	2.7	7
1918	Spectral Variability Augmented Two-Stream Network for Hyperspectral Sparse Unmixing. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	5
1919	Hyperspectral Superresolution Reconstruction via Decomposition of Low-Rank and Sparse Tensor. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 8943-8957.	2.3	3
1920	A Gradient-Based Method for the Modified Augmented Linear Mixing Model Addressing Spectral Variability for Hyperspectral Unmixing. , 2022, , .		2
1921	Spatial Graph Regularized Nonnegative Matrix Factorization for Hyperspectral Unmixing. , 2022, , .		1
1922	Dual Spatial Weighted Sparse Hyperspectral Unmixing. , 2022, , .		0
1923	Multispectral and Hyperspectral Image Fusion Based on Regularized Coupled Non-Negative Block-Term Tensor Decomposition. Remote Sensing, 2022, 14, 5306.	1.8	7
1924	Estimation of sub-endmembers using spatial-spectral approach for hyperspectral images. International Journal of Wavelets, Multiresolution and Information Processing, 0, , .	0.9	0

#	ARTICLE	IF	CITATIONS
1925	Hyperspectral image denoising and destriping based on sparse representation, graph Laplacian regularization and stripe low-rank property. <i>Eurasip Journal on Advances in Signal Processing</i> , 2022, .	1.0	1
1926	Nonlinear Unmixing via Deep Autoencoder Networks for Generalized Bilinear Model. <i>Remote Sensing</i> , 2022, 14, 5167.	1.8	5
1927	Hyperspectral imaging for chemicals identification: a human-inspired machine learning approach. <i>Scientific Reports</i> , 2022, 12, .	1.6	4
1928	Spatial Validation of Spectral Unmixing Results: A Case Study of Venice City. <i>Remote Sensing</i> , 2022, 14, 5165.	1.8	5
1929	Multi-focus image fusion using anisotropic diffusion filter. <i>Soft Computing</i> , 2022, 26, 14029-14040.	2.1	4
1930	A consistent and flexible framework for deep matrix factorizations. <i>Pattern Recognition</i> , 2023, 134, 109102.	5.1	6
1931	Masked Auto-Encoding Spectral-Spatial Transformer for Hyperspectral Image Classification. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-14.	2.7	16
1932	Hyperspectral Image Denoising via Weighted Multidirectional Low-Rank Tensor Recovery. <i>IEEE Transactions on Cybernetics</i> , 2023, 53, 2753-2766.	6.2	2
1933	Spatial-Spectral Involution MLP Network for Hyperspectral Image Classification. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2022, 15, 9293-9310.	2.3	5
1934	Spectral Reweighting and Spectral Similarity Weighting for Sparse Hyperspectral Unmixing. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2022, 19, 1-5.	1.4	2
1935	Nonlocal Spatial-Spectral Neural Network for Hyperspectral Image Denoising. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-16.	2.7	8
1936	Fast Hyperspectral Unmixing Using a Multiscale Sparse Regularization. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2022, 19, 1-5.	1.4	4
1937	Superpixel-Guided Local Sparsity Prior for Hyperspectral Sparse Regression Unmixing. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2022, 19, 1-5.	1.4	4
1938	Multi-Sensor Image Feature Fusion via Subspace-Based Approach Using $\ell_{1/2}$ -Gradient Regularization. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2023, 17, 525-537.	7.3	1
1939	Ensemble and random collaborative representation-based anomaly detector for hyperspectral imagery. <i>Signal Processing</i> , 2023, 204, 108835.	2.1	4
1940	Dual Attention Based Convolutional Neural Network with Scattering Transform Features for Hyperspectral Unmixing. , 2022, , .		1
1943	Machine Learning for Optical Scanning Probe Nanoscopy. <i>Advanced Materials</i> , 2023, 35, .	11.1	8
1944	Generating annual high resolution land cover products for 28 metropolises in China based on a deep super-resolution mapping network using Landsat imagery. <i>GIScience and Remote Sensing</i> , 2022, 59, 2036-2067.	2.4	42

#	ARTICLE	IF	CITATIONS
1946	Comparison of 2D and 3D semantic segmentation in urban areas using fused hyperspectral and lidar data. <i>Journal of Spectral Imaging</i> , 0, , .	0.0	2
1947	Matrix-wise ℓ_0 -constrained sparse nonnegative least squares. <i>Machine Learning</i> , 0, , .	3.4	0
1948	Multi-label sub-pixel classification of red and black soil over sparse vegetative areas using AVIRIS-NG airborne hyperspectral image. <i>Remote Sensing Applications: Society and Environment</i> , 2023, 29, 100884.	0.8	2
1949	Spectralâ€“Spatial Reweighted Robust Nonlinear Unmixing for Hyperspectral Images Based on an Extended Multilinear Mixing Model. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-17.	2.7	5
1950	Improving Autoencoders Performance for Hyperspectral Unmixing Using Clustering. <i>Communications in Computer and Information Science</i> , 2022, , 102-121.	0.4	1
1951	Compartment model-based nonlinear unmixing for kinetic analysis of dynamic PET images. <i>Medical Image Analysis</i> , 2023, 84, 102689.	7.0	0
1952	An NMF-based method for jointly handling mixture nonlinearity and intraclass variability in hyperspectral blind source separation. , 2023, 133, 103838.		4
1953	A Deep Framework for Hyperspectral Image Fusion between Different Satellites. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2022, , 1-16.	9.7	4
1954	Spectral Super-Resolution Based on Dictionary Optimization Learning via Spectral Library. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2023, 61, 1-16.	2.7	1
1955	A Distribution-Dependent Mumfordâ€“Shah Model for Unsupervised Hyperspectral Image Segmentation. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-21.	2.7	2
1956	Endmember Purification With Affine Simplicial Cone Model. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-23.	2.7	1
1957	Bayesian Hyperspectral Image Super-Resolution in the Presence of Spectral Variability. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-13.	2.7	2
1958	Efficient Weighted-Adaptive Sparse Constrained Nonnegative Tensor Factorization for Hyperspectral Unmixing. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2022, 15, 10113-10130.	2.3	2
1959	Simulation of an Algorithm for Space Target Materials Identification Based on vis-NIR Hyperspectral Data. <i>Spectroscopy (Santa Monica)</i> , 2022, , 28-35,42.	0.3	0
1960	Blind Nonlinear Unmixing For Intimate Mixtures Using Hapke Model And CNN. , 2022, , .		1
1961	Filtering-Based Endmember Identification Method For Snapshot Spectral Images. , 2022, , .		0
1962	Hyperspectral Unmixing Using Convolutional Autoencoder For Metal Detection In Lithium-Ion Battery Recycling Applications. , 2022, , .		2
1963	Shadow-Aware Nonlinear Spectral Unmixing With Spatial Regularization. , 2022, , .		0

#	ARTICLE	IF	CITATIONS
1964	Characterization Of Surface Oxides From Hyperspectral Measurements. , 2022, , .		0
1965	A Supervised Approach For The Detection Of Surface Oxides From Hyperspectral Measurements. , 2022, , .		0
1966	Hyperspectral Dehazing Using Admm-Adam Theory. , 2022, , .		3
1967	Hyperspectral anomaly detection: a performance comparison of existing techniques. International Journal of Digital Earth, 2022, 15, 2078-2125.	1.6	7
1968	Bayesian learning via neural Schrödinger-Föllmer flows. Statistics and Computing, 2023, 33, .	0.8	1
1969	An Efficient Attention-Based Convolutional Neural Network That Reduces the Effects of Spectral Variability for Hyperspectral Unmixing. Applied Sciences (Switzerland), 2022, 12, 12158.	1.3	0
1970	The Influence of Noise Intensity in the Nonlinear Spectral Unmixing of Hyperspectral Data. PFG - Journal of Photogrammetry, Remote Sensing and Geoinformation Science, 0, , .	0.7	0
1971	Linear Spatial Misregistration Detection and Correction Based on Spectral Unmixing for FAHI Hyperspectral Imagery. Sensors, 2022, 22, 9932.	2.1	1
1972	Spatial Monitoring of Coastal Protection DikesCase Study of the Touristic Beach "Palm Beach, West Algiers, Algeria", 2023, , 149-169.		0
1973	Bi-Kernel Graph Neural Network with Adaptive Propagation Mechanism for Hyperspectral Image Classification. Remote Sensing, 2022, 14, 6224.	1.8	3
1974	Bayesian hierarchical dictionary learning. Inverse Problems, 2023, 39, 024006.	1.0	1
1975	An Attention-Based 3D Convolutional Autoencoder for Few-Shot Hyperspectral Unmixing and Classification. Remote Sensing, 2023, 15, 451.	1.8	4
1976	SIGMA: Spectral Interpretation using Gaussian Mixtures and Autoencoder. Geochemistry, Geophysics, Geosystems, 0, , .	1.0	0
1977	Feature-specific Correlation of Structural, Optical, and Chemical Properties in the Transmission Electron Microscope with Hypermodal Data Fusion. Microscopy and Microanalysis, 2023, 29, 166-179.	0.2	4
1978	Binary Change Guided Hyperspectral Multiclass Change Detection. IEEE Transactions on Image Processing, 2023, 32, 791-806.	6.0	11
1979	Orthogonal Subspace Unmixing to Address Spectral Variability for Hyperspectral Image. IEEE Transactions on Geoscience and Remote Sensing, 2023, 61, 1-13.	2.7	21
1980	Multiview Spatial-Spectral Two-Stream Network for Hyperspectral Image Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2023, 61, 1-16.	2.7	3
1981	The application of hyperspectral core imaging for oil and gas. Geological Society Special Publication, 2023, 527, 95-119.	0.8	3

#	ARTICLE	IF	CITATIONS
1982	Unmixing of Pollution-Associated Sea Snot in the Near Surface After Its Outbreak in the Sea of Marmara Using Hyperspectral PRISMA Data. IEEE Geoscience and Remote Sensing Letters, 2023, 20, 1-5.	1.4	6
1983	Adversarial Spectral Super-Resolution for Multispectral Imagery Using Spatial Spectral Feature Attention Module. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2023, 16, 1550-1562.	2.3	1
1984	Hyperspectral Image Instance Segmentation Using Spectral-Spatial Feature Pyramid Network. IEEE Transactions on Geoscience and Remote Sensing, 2023, 61, 1-13.	2.7	23
1985	Graph learning and denoising-based weighted sparse unmixing for hyperspectral images. International Journal of Remote Sensing, 2023, 44, 428-451.	1.3	3
1986	Hyperspectral Sparse Unmixing via Nonconvex Shrinkage Penalties. IEEE Transactions on Geoscience and Remote Sensing, 2023, 61, 1-15.	2.7	15
1987	The advantages of sub-sampling and inpainting for scanning transmission electron microscopy. Applied Physics Letters, 2023, 122, .	1.5	3
1988	SISLU-Net: Spatial Information-Assisted Spectral Information Learning Unmixing Network for Hyperspectral Images. Remote Sensing, 2023, 15, 817.	1.8	1
1989	Deep Hierarchical Pyramid Network With High-Frequency-Aware Differential Architecture for Super-Resolution Mapping. IEEE Transactions on Geoscience and Remote Sensing, 2023, 61, 1-15.	2.7	12
1990	Spectral Unmixing for End Member Extraction and Abundance Estimation. , 2023, , .		1
1991	Dual camera compressive hyperspectral imaging based on deep image prior and guided filter. Applied Optics, 0, , .	0.9	0
1992	Joint majorization-Minimization for nonnegative matrix factorization with the $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si8.svg">\langle \text{mml:mi}>\hat{\Gamma}^2\langle \text{mml:mi}>\langle \text{mml:math}>\text{-divergence. Signal Processing, 2023, 209, 109048.} \rangle \langle \text{mml:math}>\text{-divergence. Signal Processing, 2023, 209, 109048.}$	2.1	0
1993	Semantic modeling of hyperspectral target detection with weak labels. Signal Processing, 2023, 209, 109016.	2.1	2
1994	Graph-Regularized, Sparsity-Constrained Non-Negative Matrix Factorization with Earth Mover's Distance Metric. Mathematics, 2023, 11, 1894.	1.1	1
1995	Hyperspectral Image Denoising: Reconciling Sparse and Low-Tensor-Ring-Rank Priors in the Transformed Domain. IEEE Transactions on Geoscience and Remote Sensing, 2023, 61, 1-13.	2.7	3
1996	Recursive RX with Extended Multi-Attribute Profiles for Hyperspectral Anomaly Detection. Remote Sensing, 2023, 15, 589.	1.8	1
1997	Fast and Structured Block-Term Tensor Decomposition for Hyperspectral Unmixing. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2023, 16, 1691-1709.	2.3	2
1998	A Global-to-Local Evolutionary Algorithm for Hyperspectral Endmember Extraction. IEEE Transactions on Geoscience and Remote Sensing, 2023, 61, 1-17.	2.7	3
1999	Robust Hyperspectral Unmixing with Practical Learning-Based Hyperspectral Image Denoising. Remote Sensing, 2023, 15, 1058.	1.8	1

#	ARTICLE	IF	CITATIONS
2000	Unsupervised Diffusion and Volume Maximization-Based Clustering of Hyperspectral Images. Remote Sensing, 2023, 15, 1053.	1.8	1
2001	LANDSAT multispectral image analysis of bedrock exposure rate in highly heterogeneous karst areas through mixed pixel decomposition considering spectral variability. Land Degradation and Development, 2023, 34, 2880-2895.	1.8	2
2002	Hyperspectral and Multispectral Image Fusion with Automated Extraction of Image-Based Endmember Bundles and Sparsity-Based Unmixing to Deal with Spectral Variability. Sensors, 2023, 23, 2341.	2.1	1
2003	Matrix Factorization With Framelet and Saliency Priors for Hyperspectral Anomaly Detection. IEEE Transactions on Geoscience and Remote Sensing, 2023, 61, 1-13.	2.7	6
2004	Hyperspectral image denoising based on multi-resolution dense memory network. Multimedia Tools and Applications, 0, , .	2.6	1
2005	âŸ°ã°ŽâĤĲç“Ĳç—è\$£æ·çš,,é«~â...%øè°±â›¾âfâ•âĲ—æfĲæµ·æ—1æ³•. Scientia Sinica Informationis, 2023, , .	0.2	0
2006	Multidimensional Low-Rank Representation for Sparse Hyperspectral Unmixing. IEEE Geoscience and Remote Sensing Letters, 2023, 20, 1-5.	1.4	5
2007	Hyperspectral image mixed noise removal via tensor robust principal component analysis with tensor-ring decomposition. International Journal of Remote Sensing, 2023, 44, 1556-1578.	1.3	1
2008	Subpixel Level Discrimination of Vegetable Crops in a Complex Landscape Environment. , 2023, , .		1
2009	Endmember Extraction without prior Number of Endmembers using Barycentric Abundances. , 2023, , .		0
2010	Ensemble graph Laplacian-based anomaly detector for hyperspectral imagery. Visual Computer, 2024, 40, 201-209.	2.5	1
2011	A new nonconvex low-rank tensor approximation method with applications to hyperspectral images denoising. Inverse Problems, 2023, 39, 065003.	1.0	3
2012	Approximation of Radiative Transfer for Surface Spectral Features. IEEE Geoscience and Remote Sensing Letters, 2023, 20, 1-3.	1.4	1
2013	Estimation of soil and crop residue parameters using AVIRIS-NG hyperspectral data. International Journal of Remote Sensing, 2023, 44, 2005-2038.	1.3	2
2014	Endmembers compression based nonnegative matrix factorization for hyperspectral unmixing. International Journal of Remote Sensing, 2023, 44, 2064-2092.	1.3	1
2015	Tensor decomposition for painting analysis. Part 1: pigment characterization. Heritage Science, 2023, 11, .	1.0	3
2016	Multiple Sub-Pixel Target Detection for Hyperspectral Imaging Systems. IEEE Transactions on Signal Processing, 2023, 71, 1599-1611.	3.2	2
2017	Local spatial similarity based joint-sparse regression for hyperspectral image unmixing. Optik, 2023, 283, 170859.	1.4	0

#	ARTICLE	IF	CITATIONS
2018	SSANet: An Adaptive Spectral-Spatial Attention Autoencoder Network for Hyperspectral Unmixing. Remote Sensing, 2023, 15, 2070.	1.8	1
2019	Majorization-minimization for Sparse Nonnegative Matrix Factorization with the β -divergence. IEEE Transactions on Signal Processing, 2023, , 1-13.	3.2	1
2020	Toward Convergence: A Gradient-Based Multiobjective Method With Greedy Hash for Hyperspectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2023, 61, 1-14.	2.7	2
2021	A New Elbow Estimation Method for Selecting the Best Solution in Sparse Unmixing. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2023, 16, 4328-4348.	2.3	1
2022	Nonlocal Structured Sparsity Regularization Modeling for Hyperspectral Image Denoising. IEEE Transactions on Geoscience and Remote Sensing, 2023, 61, 1-16.	2.7	2
2023	Endmember Extraction with Unknown Number of Sources for Hyperspectral Unmixing. Communications in Computer and Information Science, 2023, , 567-578.	0.4	0
2024	Super-Resolution for Macro X-Ray Fluorescence Data Collected from Old Master Paintings. , 2023, , .		0
2025	Hyperspectral Image Denoising Via Nonlocal Rank Residual Modeling. , 2023, , .		0
2029	Robust Hyperspectral Anomaly Detection with Simultaneous Mixed Noise Removal via Constrained Convex Optimization. , 2023, , .		0
2044	Enhancing Spatio-Spectral Regularization by Structure Tensor Modeling for Hyperspectral Image Denoising. , 2023, , .		1
2045	A Deep Disentangled Approach for Interpretable Hyperspectral Unmixing. , 2023, , .		1
2046	Joint Unmixing And Demosaicing Methods For Snapshot Spectral Images. , 2023, , .		2
2050	Hybrid Capsule Network for Hyperspectral Image Unmixing and Classification. Lecture Notes in Networks and Systems, 2023, , 155-168.	0.5	0
2053	Enhancing Endmember Extraction using K-means clustering and Pixel Purity Index. , 2023, , .		1
2059	Computational Methods in Spectral Imaging. Computational Methods in Applied Sciences (Springer), 2023, , 295-313.	0.1	0
2060	Hyperspectral Remote Sensing. Encyclopedia of Earth Sciences Series, 2023, , 625-630.	0.1	0
2061	Linear Unmixing. Encyclopedia of Earth Sciences Series, 2023, , 739-741.	0.1	0
2085	Probability-based Global Cross-modal Upsampling for Pansharpening. , 2023, , .		0

#	ARTICLE	IF	CITATIONS
2092	Endmember Abundance Prediction in Hyperspectral Unmixing: The Impact of Endmember Extraction Algorithms and Self-Attention in Autoencoders. , 2023, , .		0
2096	An Augmented Perturbed Linear Mixing Model with Scaling Factors for Unmixing. , 2023, , .		0
2104	Multiview Siamese Collaborative Network for Hyperspectral Image Unmixing. , 2023, , .		0
2105	A Dual-Stream Convolutional Feature Fusion Network for Hyperspectral Unmixing. , 2023, , .		0
2106	A Novel Linear Mixing Model Addressing Spectral-Spatial Intra-Class Variability with an Associated Penalized NMF-Based Hyperspectral Unmixing Algorithm. , 2023, , .		0
2107	Efficient Blind Hyperspectral Unmixing with Non-Local Spatial Information Based on Swin Transformer. , 2023, , .		0
2109	Hyperspectral Image Denoising Using Low-Rank and Sparse Model Based Deep Unrolling. , 2023, , .		0
2110	Temporal Analysis of Marine Mucilage in the Sea of Marmara Using Unmixing Based Change Detection. , 2023, , .		0
2111	An Extensive Multisensor Hyperspectral Benchmark Datasets of Intimate Mixtures of Mineral Powders. , 2023, , .		0
2112	Scientific Research and Applications Development Based on Exploitation of PRISMA Data in the Framework of ASI " ISRO Earth Observation Working Group Hyperspectral Activity. , 2023, , .		1
2113	Multiscale Spatial Sparse Unmixing for Remotely Sensed Hyperspectral Imagery. , 2023, , .		0
2114	A Nonlinear Spectral Unmixing Based Approach for Measuring Gas Flaring from VIIRS NTL Data: Case of the Flare Fit-M8-101A-1U, Algeria. , 2023, , .		0
2116	Adaptive Detection of Multiple Sub-Pixel Targets in Hyperspectral Systems. , 2023, , .		0
2117	An Iterative Method for Hyperspectral Pixel Unmixing Leveraging Latent Dirichlet Variational Autoencoder. , 2023, , .		0
2118	Unmixing Analysis of Close-Range Hyperspectral Images. , 2023, , .		0
2119	New Informed Linear Mixing Model And NMF-Based Unmixing Method Addressing Spectral Variability With An Application To Mineral Detection And Mapping Using Prisma Hyperspectral Remote Sensing Data. , 2023, , .		0
2125	Bilinear Hyperspectral Unmixing via Tensor Decomposition. , 2023, , .		0
2126	Proportion Inference Using Deep Neural Networks. Applications to X-Ray Diffraction and Hyperspectral Imaging. , 2023, , .		0

#	ARTICLE	IF	CITATIONS
2127	Exact and Heuristic Methods for Simultaneous Sparse Coding. , 2023, , .		0
2134	Hyperspectral Unmixing by Convolutional Auto-encoder with Deep Subspace Clustering and Candidate Pixel Selection. , 2023, , .		0
2152	Hyperspectral Remote Sensing Inversion of Mineral Abundance Based on Sparse Unmixing Method. , 2024, , 211-229.		0
2158	Multiset analysis by multivariate curve resolution: The unmixing methodology to handle hyperspectral image fusion scenarios. Data Handling in Science and Technology, 2024, , 111-132.	3.1	0
2173	Invasive Plant Species Detection in Airborne Hyperspectral Imagery over Complex Forest Landscape. , 2023, , .		0
2174	Spectral-Spatial Hyperspectral Unmixing Using Double-Constraints Convolutional Autoencoder. , 2023, , .		0
2175	Mineralogy Analysis Using Linear Unmixing Under Group Constraint. , 2023, , .		0