Lianru Gao

List of Publications by Year
in descending order

144 papers	6,638 citations	94381 37 h-index	66879 78 g-index
144 all docs	144 docs citations	144 times ranked	3420 citing authors

#	Article	IF	Citations
1	Graph Convolutional Networks for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 5966-5978.	2.7	974
2	More Diverse Means Better: Multimodal Deep Learning Meets Remote-Sensing Imagery Classification. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 4340-4354.	2.7	781
3	SpectralFormer: Rethinking Hyperspectral Image Classification With Transformers. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	2.7	414
4	Multisource Remote Sensing Data Classification Based on Convolutional Neural Network. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 937-949.	2.7	378
5	Weighted-RXD and Linear Filter-Based RXD: Improving Background Statistics Estimation for Anomaly Detection in Hyperspectral Imagery. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 2351-2366.	2.3	193
6	Feature Extraction for Classification of Hyperspectral and LiDAR Data Using Patch-to-Patch CNN. IEEE Transactions on Cybernetics, 2020, 50, 100-111.	6.2	185
7	Adaptive Markov Random Field Approach for Classification of Hyperspectral Imagery. IEEE Geoscience and Remote Sensing Letters, 2011, 8, 973-977.	1.4	161
8	Interpretable Hyperspectral Artificial Intelligence: When nonconvex modeling meets hyperspectral remote sensing. IEEE Geoscience and Remote Sensing Magazine, 2021, 9, 52-87.	4.9	157
9	Spectral Superresolution of Multispectral Imagery With Joint Sparse and Low-Rank Learning. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 2269-2280.	2.7	114
10	Endmember Extraction of Hyperspectral Remote Sensing Images Based on the Ant Colony Optimization (ACO) Algorithm. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 2635-2646.	2.7	107
11	Building Extraction from High-Resolution Aerial Imagery Using a Generative Adversarial Network with Spatial and Channel Attention Mechanisms. Remote Sensing, 2019, 11, 917.	1.8	103
12	Coupled Convolutional Neural Network With Adaptive Response Function Learning for Unsupervised Hyperspectral Super Resolution. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 2487-2502.	2.7	103
13	Progress and Challenges in Intelligent Remote Sensing Satellite Systems. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 1814-1822.	2.3	102
14	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
15	Subspace-Based Support Vector Machines for Hyperspectral Image Classification. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 349-353.	1.4	93
16	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
17	Multiscale Residual Network With Mixed Depthwise Convolution for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 3396-3408.	2.7	77
18	Remote Sensing Image Super-Resolution Using Novel Dense-Sampling Networks. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 1618-1633.	2.7	76

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19	Endmember Extraction of Hyperspectral Remote Sensing Images Based on the Discrete Particle Swarm Optimization Algorithm. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 4173-4176.	2.7	72
20	Spectral-Spatial Hyperspectral Image Classification Using Subspace-Based Support Vector Machines and Adaptive Markov Random Fields. Remote Sensing, 2016, 8, 355.	1.8	69
21	Multiscale Superpixel-Level Subspace-Based Support Vector Machines for Hyperspectral Image Classification. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 2142-2146.	1.4	68
22	Water Body Extraction from Very High Spatial Resolution Remote Sensing Data Based on Fully Convolutional Networks. Remote Sensing, 2019, 11, 1162.	1.8	65
23	CyCU-Net: Cycle-Consistency Unmixing Network by Learning Cascaded Autoencoders. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	2.7	59
24	NTIRE 2018 Challenge on Spectral Reconstruction from RGB Images. , 2018, , .		58
25	Deep Encoderâ€"Decoder Networks for Classification of Hyperspectral and LiDAR Data. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	55
26	Adjusted Spectral Matched Filter for Target Detection in Hyperspectral Imagery. Remote Sensing, 2015, 7, 6611-6634.	1.8	52
27	Optimized Kernel Minimum Noise Fraction Transformation for Hyperspectral Image Classification. Remote Sensing, 2017, 9, 548.	1.8	52
28	Global Spatial and Local Spectral Similarity-Based Manifold Learning Group Sparse Representation for Hyperspectral Imagery Classification. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 3043-3056.	2.7	52
29	Semantic Labeling of High Resolution Aerial Imagery and LiDAR Data with Fine Segmentation Network. Remote Sensing, 2018, 10, 743.	1.8	50
30	Deep Learning for Fusion of APEX Hyperspectral and Full-Waveform LiDAR Remote Sensing Data for Tree Species Mapping. IEEE Access, 2018, 6, 68716-68729.	2.6	49
31	Target Detection Through Tree-Structured Encoding for Hyperspectral Images. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 4233-4249.	2.7	49
32	Siamese Transformer Network for Hyperspectral Image Target Detection. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-19.	2.7	46
33	A New Low-Rank Representation Based Hyperspectral Image Denoising Method for Mineral Mapping. Remote Sensing, 2017, 9, 1145.	1.8	44
34	Ship Classification Based on Multifeature Ensemble with Convolutional Neural Network. Remote Sensing, 2019, 11, 419.	1.8	44
35	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
36	Deep Unsupervised Blind Hyperspectral and Multispectral Data Fusion. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	42

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37	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
38	Multimodal Hyperspectral Unmixing: Insights From Attention Networks. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	2.7	38
39	Remote Sensing Image Super-Resolution Using Second-Order Multi-Scale Networks. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 3473-3485.	2.7	37
40	NonRegSRNet: A Nonrigid Registration Hyperspectral Super-Resolution Network. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	2.7	36
41	Multi-scale superpixel spectral–spatial classification of hyperspectral images. International Journal of Remote Sensing, 2016, 37, 4905-4922.	1.3	35
42	Using Low-Rank Representation of Abundance Maps and Nonnegative Tensor Factorization for Hyperspectral Nonlinear Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	2.7	35
43	A new kernel method for hyperspectral image feature extraction. Geo-Spatial Information Science, 2017, 20, 309-318.	2.4	34
44	Hyperspectral Image Classification Based on a Shuffled Group Convolutional Neural Network with Transfer Learning. Remote Sensing, 2020, 12, 1780.	1.8	34
45	Deep Half-Siamese Networks for Hyperspectral Unmixing. IEEE Geoscience and Remote Sensing Letters, 2021, 18, 1996-2000.	1.4	33
46	Approximate Computing of Remotely Sensed Data: SVM Hyperspectral Image Classification as a Case Study. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 5806-5818.	2.3	32
47	Enhanced-Random-Feature-Subspace-Based Ensemble CNN for the Imbalanced Hyperspectral Image Classification. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 3988-3999.	2.3	31
48	An Improved Spatial and Temporal Reflectance Unmixing Model to Synthesize Time Series of Landsat-Like Images. Remote Sensing, 2018, 10, 1388.	1.8	30
49	Probabilistic anomaly detector for remotely sensed hyperspectral data. Journal of Applied Remote Sensing, 2014, 8, 083538.	0.6	29
50	A maximum noise fraction transform with improved noise estimation for hyperspectral images. Science in China Series F: Information Sciences, 2009, 52, 1578-1587.	1.1	28
51	Locality Sensitive Discriminant Analysis for Group Sparse Representation-Based Hyperspectral Imagery Classification. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 1358-1362.	1.4	28
52	Ant colony optimization-based supervised and unsupervised band selections for hyperspectral urban data classification. Journal of Applied Remote Sensing, 2014, 8, 085094.	0.6	27
53	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
54	Multiscale Spatial-Spectral Convolutional Network with Image-Based Framework for Hyperspectral Imagery Classification. Remote Sensing, 2019, 11, 2220.	1.8	27

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55	Physically Constrained Transfer Learning Through Shared Abundance Space for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 10455-10472.	2.7	27
56	Real-time target detection in hyperspectral images based on spatial-spectral information extraction. Eurasip Journal on Advances in Signal Processing, 2012, 2012, .	1.0	26
57	High-Resolution Aerial Imagery Semantic Labeling with Dense Pyramid Network. Sensors, 2018, 18, 3774.	2.1	26
58	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
59	Combining t-Distributed Stochastic Neighbor Embedding With Convolutional Neural Networks for Hyperspectral Image Classification. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 1368-1372.	1.4	25
60	A Pixel Cluster CNN and Spectral-Spatial Fusion Algorithm for Hyperspectral Image Classification With Small-Size Training Samples. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 4101-4114.	2.3	25
61	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
62	AutoNAS: Automatic Neural Architecture Search for Hyperspectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	2.7	24
63	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
64	Transferred Multi-Perception Attention Networks for Remote Sensing Image Super-Resolution. Remote Sensing, 2019, 11, 2857.	1.8	23
65	Ensemble-Based Information Retrieval With Mass Estimation for Hyperspectral Target Detection. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-23.	2.7	23
66	A neighbourhood-constrained k-means approach to classify very high spatial resolution hyperspectral imagery. Remote Sensing Letters, 2013, 4, 161-170.	0.6	21
67	A New Algorithm for Bilinear Spectral Unmixing of Hyperspectral Images Using Particle Swarm Optimization. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 5776-5790.	2.3	21
68	Mask DeepLab: End-to-end image segmentation for change detection in high-resolution remote sensing images. International Journal of Applied Earth Observation and Geoinformation, 2021, 104, 102582.	1.4	21
69	Multimodal Attention-Aware Convolutional Neural Networks for Classification of Hyperspectral and LiDAR Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2023, 16, 3635-3644.	2.3	21
70	Incorporating Negative Sample Training for Ship Detection Based on Deep Learning. Sensors, 2019, 19, 684.	2.1	20
71	Separable-spectral convolution and inception network for hyperspectral image super-resolution. International Journal of Machine Learning and Cybernetics, 2019, 10, 2593-2607.	2.3	19
72	Hyperspectral Image Classification Based on Adjacent Constraint Representation. IEEE Geoscience and Remote Sensing Letters, 2021, 18, 707-711.	1.4	19

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73	Multilayer Cascade Screening Strategy for Semi-Supervised Change Detection in Hyperspectral Images. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 1926-1940.	2.3	19
74	A real-time unsupervised background extraction-based target detection method for hyperspectral imagery. Journal of Real-Time Image Processing, 2018, 15, 597-615.	2.2	18
75	Multiharmonic Postnonlinear Mixing Model for Hyperspectral Nonlinear Unmixing. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 1765-1769.	1.4	18
76	An Endmember Extraction Method Based on Artificial Bee Colony Algorithms for Hyperspectral Remote Sensing Images. Remote Sensing, 2015, 7, 16363-16383.	1.8	17
77	Soft urban water cover extraction using mixed training samples and Support Vector Machines. International Journal of Remote Sensing, 2015, 36, 3331-3344.	1.3	17
78	Data-augmented matched subspace detector for hyperspectral subpixel target detection. Pattern Recognition, 2020, 106, 107464.	5.1	16
79	Group Sparse Representation Based on Nonlocal Spatial and Local Spectral Similarity for Hyperspectral Imagery Classification. Sensors, 2018, 18, 1695.	2.1	15
80	A Novel Classification Framework for Hyperspectral Image Classification Based on Multiscale Spectral-Spatial Convolutional Network. , 2021, , .		15
81	Graph-Cut-Based Collaborative Node Embeddings for Hyperspectral Images Classification. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	15
82	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
83	Optimized maximum noise fraction for dimensionality reduction of Chinese HJ-1A hyperspectral data. Eurasip Journal on Advances in Signal Processing, 2013, 2013, .	1.0	13
84	Real-time implementation of optimized maximum noise fraction transform for feature extraction of hyperspectral images. Journal of Applied Remote Sensing, 2014, 8, 084797.	0.6	13
85	Locality-preserving sparse representation-based classification in hyperspectral imagery. Journal of Applied Remote Sensing, 2016, 10, 042004.	0.6	13
86	An Improved Aggregated-Mosaic Method for the Sparse Object Detection of Remote Sensing Imagery. Remote Sensing, 2021, 13, 2602.	1.8	13
87	Transferable network with Siamese architecture for anomaly detection in hyperspectral images. International Journal of Applied Earth Observation and Geoinformation, 2022, 106, 102669.	1.4	13
88	Bilinear normal mixing model for spectral unmixing. IET Image Processing, 2019, 13, 344-354.	1.4	11
89	An Entropy and MRF Model-Based CNN for Large-Scale Landsat Image Classification. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 1145-1149.	1.4	11
90	A Novel Feature Extension Method for the Forest Disaster Monitoring Using Multispectral Data. Remote Sensing, 2020, 12, 2261.	1.8	11

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91	Edge-constrained Markov random field classification by integrating hyperspectral image with LiDAR data over urban areas. Journal of Applied Remote Sensing, 2014, 8, 085089.	0.6	10
92	Hyperspectral Nonlinear Unmixing by Using Plug-and-Play Prior for Abundance Maps. Remote Sensing, 2020, 12, 4117.	1.8	10
93	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
94	Hyperspectral image clustering method based on artificial bee colony algorithm and Markov random fields. Journal of Applied Remote Sensing, 2015, 9, 095047.	0.6	9
95	Region-Based Estimate of Endmember Variances for Hyperspectral Image Unmixing. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 1807-1811.	1.4	9
96	Graphics processing unitâ€"accelerated computation of the Markov random fields and loopy belief propagation algorithms for hyperspectral image classification. Journal of Applied Remote Sensing, 2015, 9, 097295.	0.6	8
97	Approximate computing for onboard anomaly detection from hyperspectral images. Journal of Real-Time Image Processing, 2019, 16, 99-114.	2.2	8
98	FPGA implementation of a maximum simplex volume algorithm for endmember extraction from remotely sensed hyperspectral images. Journal of Real-Time Image Processing, 2019, 16, 1681-1694.	2.2	8
99	Deep Ensemble CNN Method Based on Sample Expansion for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	2.7	8
100	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
101	CNN-based Large Scale Landsat Image Classification. , 2018, , .		7
102	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
103	FPGA implementation of collaborative representation algorithm for real-time hyperspectral target detection. Journal of Real-Time Image Processing, 2018, 15, 673-685.	2.2	7
104	Revisiting Graph Convolutional Networks with Mini-Batch Sampling for Hyperspectral Image Classification. , 2021, , .		7
105	A novel anomaly detection method incorporating target information derived from hyperspectral imagery. Remote Sensing Letters, 2016, 7, 11-20.	0.6	6
106	Performance assessment of ESTARFM with different similar-pixel identification schemes. Journal of Applied Remote Sensing, 2018, 12, 1.	0.6	6
107	Multi-GPU Based Parallel Design of the Ant Colony Optimization Algorithm for Endmember Extraction from Hyperspectral Images. Sensors, 2019, 19, 598.	2.1	6
108	A Novel Classification Framework for Hyperspectral Image Classification Based on Multi-Scale Dense Network. , 2021, , .		6

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109	Ant colony optimization for supervised and unsupervised hyperspectral band selection. , 2013, , .		5
110	Improved discrete swarm intelligence algorithms for endmember extraction from hyperspectral remote sensing images. Journal of Applied Remote Sensing, 2016, 10, 045018.	0.6	5
111	Union of random subspace-based group sparse representation for hyperspectral imagery classification. Remote Sensing Letters, 2018, 9, 534-540.	0.6	5
112	MSDH: Matched subspace detector with heterogeneous noise. Pattern Recognition Letters, 2019, 125, 701-707.	2.6	5
113	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
114	Transferable Deep Learning from Time Series of Landsat Data for National Land-Cover Mapping with Noisy Labels: A Case Study of China. Remote Sensing, 2021, 13, 4194.	1.8	5
115	A comparative study on noise estimation for hyperspectral imagery. , 2012, , .		4
116	Special issue on advances in real-time image processing for remote sensing. Journal of Real-Time Image Processing, 2018, 15, 435-438.	2.2	4
117	Automatic Detection of Track and Fields in China from High-Resolution Satellite Images Using Multi-Scale-Fused Single Shot MultiBox Detector. Remote Sensing, 2019, 11, 1377.	1.8	4
118	Neighborhood Activity-Driven Representation for Hyperspectral Imagery Classification. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 4506-4517.	2.3	4
119	Study on the issue of noise estimation in dimension reduction of hyperspectral images. , 2011, , .		3
120	Underdeveloped village extraction from high spatial resolution optical image based on GLCM textures and fuzzy classification. , 2014, , .		3
121	Large-scale Landsat image classification based on deep learning methods. APSIPA Transactions on Signal and Information Processing, 2019, 8, .	2.6	3
122	RARA: Dataflow Based Error Compensation Methods with Runtime Accuracy-Reconfigurable Adder. , 2020, , .		3
123	Hyperspectral Imagery Classification Based on Multiscale Superpixel-Level Constraint Representation. Remote Sensing, 2020, 12, 3342.	1.8	3
124	Detecting and Analyzing the Increase of High-Rising Buildings to Monitor the Dynamic of the Xiong'an New Area. Sustainability, 2020, 12, 4355.	1.6	3
125	A particle swarm optimization algorithm for unmixing the polynomial post-nonlinear mixing model. , 2016, , .		2
126	Global Spatial and Local Spectral Similarity-Based Group Sparse Representation for Hyperspectral Imagery Classification. , 2018, , .		2

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127	EvoNAS: Evolvable Neural Architecture Search for Hyperspectral Unmixing. , 2021, , .		2
128	Edge constrained MRF method for classification of hyperspectral imagery. , 2014, , .		1
129	Spectral feature extraction based on Orthogonal Polynomial Function fitting. , 2014, , .		1
130	Improvement of linear spectral emissivity constraint method for temperature and emissivity separation of hyperspectral thermal infrared data. , 2015, , .		1
131	Spectral-spatial classification based on subspace support vector machine and Markov random field. , 2016, , .		1
132	Nonlinear hyperspectral unmixing based on normalized P-linear algorithm. , 2017, , .		1
133	Constraint Non-Negative Matrix Factorization With Sparseness and Piece wise Smoothness for Hyperspectral Unmixing. , 2018, , .		1
134	FPGA Implementation for Hyperspectral Target Detection with Adaptive Coherence Estimator. , 2019, , .		1
135	Superpixel-Level Constraint Representation for Hyperspectral Imagery Classification. , 2020, , .		1
136	Optimising the use of hyperspectral and multispectral data for regional crop classification. Proceedings of SPIE, 2013, , .	0.8	0
137	Improved discrete swarm intelligence algorithms for endmember extraction in hyperspectral remote sensing image. , 2016, , .		0
138	GPU implementation of ant colony optimization-based band selections for hyperspectral data classification. , 2016, , .		0
139	Potential Analysis of Feature Extraction Based Quick Response for Environmental Change with Social Media Photos. , 2018, , .		0
140	Subspace-based multitask learning framework for hyperspectral imagery classification. Multimedia Tools and Applications, 2020, 79, 8887-8909.	2.6	0
141	A Unified Multimodal Deep Learning Framework For Remote Sensing Imagery Classification. , 2021, , .		0
142	Ensemble CNN with Enhanced Feature Subspaces for Imbalanced Hyperspectral Image Classification. , 2021, , .		0
143	Multimodal Convolutional Neural Networks with Cross-Channel Reconstruction. , 2021, , .		0
144	Learning Locality-Constrained Sparse Coding for Spectral Enhancement of Multispectral Imagery. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	0