

# Huanfeng Shen

## List of Publications by Year in descending order

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262  
papers

15,467  
citations

17440

63  
h-index

19190

118  
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262  
all docs

262  
docs citations

262  
times ranked

8915  
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep learning in environmental remote sensing: Achievements and challenges. Remote Sensing of Environment, 2020, 241, 111716.	11.0	744
2	Hyperspectral Image Restoration Using Low-Rank Matrix Recovery. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 4729-4743.	6.3	642
3	Land-cover classification with high-resolution remote sensing images using transferable deep models. Remote Sensing of Environment, 2020, 237, 111322.	11.0	465
4	Total-Variation-Regularized Low-Rank Matrix Factorization for Hyperspectral Image Restoration. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 178-188.	6.3	463
5	Hyperspectral Image Denoising Employing a Spectral-Spatial Adaptive Total Variation Model. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 3660-3677.	6.3	462
6	Image super-resolution: The techniques, applications, and future. Signal Processing, 2016, 128, 389-408.	3.7	375
7	A Multiscale and Multidepth Convolutional Neural Network for Remote Sensing Imagery Pan-Sharpener. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 978-989.	4.9	374
8	Boosting the Accuracy of Multispectral Image Pansharpening by Learning a Deep Residual Network. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 1795-1799.	3.1	367
9	Missing Information Reconstruction of Remote Sensing Data: A Technical Review. IEEE Geoscience and Remote Sensing Magazine, 2015, 3, 61-85.	9.6	342
10	Hyperspectral Image Denoising Employing a Spatial-Spectral Deep Residual Convolutional Neural Network. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 1205-1218.	6.3	322
11	Estimating Ground-Level PM <sub>2.5</sub> by Fusing Satellite and Station Observations: A Geospatially Intelligent Deep Learning Approach. Geophysical Research Letters, 2017, 44, 11,985.	4.0	284
12	A super-resolution reconstruction algorithm for surveillance images. Signal Processing, 2010, 90, 848-859.	3.7	273
13	Long-term and fine-scale satellite monitoring of the urban heat island effect by the fusion of multi-temporal and multi-sensor remote sensed data: A 26-year case study of the city of Wuhan in China. Remote Sensing of Environment, 2016, 172, 109-125.	11.0	263
14	An Integrated Framework for the Spatio-Temporal Spectral Fusion of Remote Sensing Images. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 7135-7148.	6.3	242
15	Recovering Quantitative Remote Sensing Products Contaminated by Thick Clouds and Shadows Using Multitemporal Dictionary Learning. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 7086-7098.	6.3	227
16	Recovering missing pixels for Landsat ETM+ SLC-off imagery using multi-temporal regression analysis and a regularization method. Remote Sensing of Environment, 2013, 131, 182-194.	11.0	226
17	A MAP-Based Algorithm for Destriping and Inpainting of Remotely Sensed Images. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 1492-1502.	6.3	217
18	Review of the pansharpening methods for remote sensing images based on the idea of meta-analysis: Practical discussion and challenges. Information Fusion, 2019, 46, 102-113.	19.1	214

#	ARTICLE	IF	CITATIONS
19	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.	4.9	205
20	A MAP Approach for Joint Motion Estimation, Segmentation, and Super Resolution. IEEE Transactions on Image Processing, 2007, 16, 479-490.	9.8	201
21	Deep learning based cloud detection for medium and high resolution remote sensing images of different sensors. ISPRS Journal of Photogrammetry and Remote Sensing, 2019, 150, 197-212.	11.1	192
22	Multi-feature combined cloud and cloud shadow detection in GaoFen-1 wide field of view imagery. Remote Sensing of Environment, 2017, 191, 342-358.	11.0	191
23	Integrated fusion of multi-scale polar-orbiting and geostationary satellite observations for the mapping of high spatial and temporal resolution land surface temperature. Remote Sensing of Environment, 2015, 156, 169-181.	11.0	186
24	Point-surface fusion of station measurements and satellite observations for mapping PM2.5 distribution in China: Methods and assessment. Atmospheric Environment, 2017, 152, 477-489.	4.1	166
25	Hyperspectral Image Denoising Using Local Low-Rank Matrix Recovery and Global Spatialâ€“Spectral Total Variation. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 713-729.	4.9	161
26	A Total Variation Regularization Based Super-Resolution Reconstruction Algorithm for Digital Video. Eurasip Journal on Advances in Signal Processing, 2007, 2007, .	1.7	160
27	Cloud removal for remotely sensed images by similar pixel replacement guided with a spatio-temporal MRF model. ISPRS Journal of Photogrammetry and Remote Sensing, 2014, 92, 54-68.	11.1	147
28	The Relationships between PM2.5 and Meteorological Factors in China: Seasonal and Regional Variations. International Journal of Environmental Research and Public Health, 2017, 14, 1510.	2.6	146
29	A super-resolution reconstruction algorithm for hyperspectral images. Signal Processing, 2012, 92, 2082-2096.	3.7	133
30	A Practical Compressed Sensing-Based Pan-Sharpener Method. IEEE Geoscience and Remote Sensing Letters, 2012, 9, 629-633.	3.1	131
31	Multiframe Super-Resolution Employing a Spatially Weighted Total Variation Model. IEEE Transactions on Circuits and Systems for Video Technology, 2012, 22, 379-392.	8.3	128
32	Adjustable Model-Based Fusion Method for Multispectral and Panchromatic Images. IEEE Transactions on Systems, Man, and Cybernetics, 2012, 42, 1693-1704.	5.0	125
33	An effective thin cloud removal procedure for visible remote sensing images. ISPRS Journal of Photogrammetry and Remote Sensing, 2014, 96, 224-235.	11.1	125
34	Hybrid Noise Removal in Hyperspectral Imagery With a Spatialâ€“Spectral Gradient Network. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 7317-7329.	6.3	117
35	Two-Step Sparse Coding for the Pan-Sharpener of Remote Sensing Images. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 1792-1805.	4.9	115
36	Effects of urban form on haze pollution in China: Spatial regression analysis based on PM2.5 remote sensing data. Applied Geography, 2018, 98, 215-223.	3.7	109

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37	Inpainting for Remotely Sensed Images With a Multichannel Nonlocal Total Variation Model. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 175-187.	6.3	105
38	The relationships between PM <sub>2.5</sub> and aerosol optical depth (AOD) in mainland China: About and behind the spatio-temporal variations. Environmental Pollution, 2019, 248, 526-535.	7.5	99
39	High-quality seamless DEM generation blending SRTM-1, ASTER GDEM v2 and ICESat/GLAS observations. ISPRS Journal of Photogrammetry and Remote Sensing, 2017, 123, 20-34.	11.1	97
40	Compressed Sensing-Based Inpainting of Aqua Moderate Resolution Imaging Spectroradiometer Band 6 Using Adaptive Spectrum-Weighted Sparse Bayesian Dictionary Learning. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 894-906.	6.3	96
41	Estimating Regional Ground-Level PM <sub>2.5</sub> Directly From Satellite Top-of-Atmosphere Reflectance Using Deep Belief Networks. Journal of Geophysical Research D: Atmospheres, 2018, 123, 13,875.	3.3	96
42	Deep learning-based air temperature mapping by fusing remote sensing, station, simulation and socioeconomic data. Remote Sensing of Environment, 2020, 240, 111692.	11.0	95
43	A Spatial and Temporal Nonlocal Filter-Based Data Fusion Method. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 4476-4488.	6.3	94
44	Remote Sensing Image Mosaicking: Achievements and Challenges. IEEE Geoscience and Remote Sensing Magazine, 2019, 7, 8-22.	9.6	93
45	Thick cloud and cloud shadow removal in multitemporal imagery using progressively spatio-temporal patch group deep learning. ISPRS Journal of Photogrammetry and Remote Sensing, 2020, 162, 148-160.	11.1	92
46	A Large-Scale Benchmark Data Set for Evaluating Pansharpening Performance: Overview and Implementation. IEEE Geoscience and Remote Sensing Magazine, 2021, 9, 18-52.	9.6	92
47	A two-step framework for reconstructing remotely sensed land surface temperatures contaminated by cloud. ISPRS Journal of Photogrammetry and Remote Sensing, 2018, 141, 30-45.	11.1	90
48	An Urban Water Extraction Method Combining Deep Learning and Google Earth Engine. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 769-782.	4.9	89
49	Noise Removal From Hyperspectral Image With Joint Spectral-Spatial Distributed Sparse Representation. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 5425-5439.	6.3	88
50	Robust registration for remote sensing images by combining and localizing feature- and area-based methods. ISPRS Journal of Photogrammetry and Remote Sensing, 2019, 151, 15-26.	11.1	82
51	Super-Resolution Reconstruction Algorithm To MODIS Remote Sensing Images. Computer Journal, 2008, 52, 90-100.	2.4	81
52	A long-term and comprehensive assessment of the urbanization-induced impacts on vegetation net primary productivity. Science of the Total Environment, 2019, 669, 342-352.	8.0	80
53	A robust mosaicking procedure for high spatial resolution remote sensing images. ISPRS Journal of Photogrammetry and Remote Sensing, 2015, 109, 108-125.	11.1	77
54	Patch Matching-Based Multitemporal Group Sparse Representation for the Missing Information Reconstruction of Remote-Sensing Images. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 3629-3641.	4.9	77

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55	Estimation of ultrahigh resolution PM2.5 concentrations in urban areas using 160m Gaofen-1 AOD retrievals. <i>Remote Sensing of Environment</i> , 2018, 216, 91-104.	11.0	77
56	Stripe Noise Separation and Removal in Remote Sensing Images by Consideration of the Global Sparsity and Local Variational Properties. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2016, 54, 3049-3060.	6.3	75
57	Hyperspectral Image Super-Resolution by Spectral Mixture Analysis and Spatial "Spectral Group Sparsity. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2016, 13, 1250-1254.	3.1	72
58	Evaluation and comparison of MODIS Collection 6.1 aerosol optical depth against AERONET over regions in China with multifarious underlying surfaces. <i>Atmospheric Environment</i> , 2019, 200, 280-301.	4.1	72
59	Sparse-based reconstruction of missing information in remote sensing images from spectral/temporal complementary information. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2015, 106, 1-15.	11.1	68
60	Super-Resolution Reconstruction for Multi-Angle Remote Sensing Images Considering Resolution Differences. <i>Remote Sensing</i> , 2014, 6, 637-657.	4.0	67
61	A spatial and temporal reflectance fusion model considering sensor observation differences. <i>International Journal of Remote Sensing</i> , 2013, 34, 4367-4383.	2.9	66
62	Reconstructing MODIS LST Based on Multitemporal Classification and Robust Regression. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2015, 12, 512-516.	3.1	65
63	An Online Coupled Dictionary Learning Approach for Remote Sensing Image Fusion. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2014, 7, 1284-1294.	4.9	64
64	Exploring the association between the built environment and remotely sensed PM2.5 concentrations in urban areas. <i>Journal of Cleaner Production</i> , 2019, 220, 1014-1023.	9.3	62
65	Adaptive Multiple-Frame Image Super-Resolution Based on U-Curve. <i>IEEE Transactions on Image Processing</i> , 2010, 19, 3157-3170.	9.8	61
66	A Moving Weighted Harmonic Analysis Method for Reconstructing High-Quality SPOT VEGETATION NDVI Time-Series Data. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2015, 53, 6008-6021.	6.3	61
67	Estimating surface soil moisture from satellite observations using a generalized regression neural network trained on sparse ground-based measurements in the continental U.S. <i>Journal of Hydrology</i> , 2020, 580, 124351.	5.4	61
68	Spatially Continuous and High-Resolution Land Surface Temperature Product Generation: A review of reconstruction and spatiotemporal fusion techniques. <i>IEEE Geoscience and Remote Sensing Magazine</i> , 2021, 9, 112-137.	9.6	61
69	Spatial "Spectral Fusion by Combining Deep Learning and Variational Model. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019, 57, 6169-6181.	6.3	60
70	Long time-series NDVI reconstruction in cloud-prone regions via spatio-temporal tensor completion. <i>Remote Sensing of Environment</i> , 2021, 264, 112632.	11.0	60
71	Recovering Reflectance of AQUA MODIS Band 6 Based on Within-Class Local Fitting. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2011, 4, 185-192.	4.9	59
72	The influence of urban planning factors on PM2.5 pollution exposure and implications: A case study in China based on remote sensing, LBS, and GIS data. <i>Science of the Total Environment</i> , 2019, 659, 1585-1596.	8.0	59

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73	Quantifying 3D building form effects on urban land surface temperature and modeling seasonal correlation patterns. <i>Building and Environment</i> , 2021, 204, 108132.	6.9	59
74	Regional Spatially Adaptive Total Variation Super-Resolution With Spatial Information Filtering and Clustering. <i>IEEE Transactions on Image Processing</i> , 2013, 22, 2327-2342.	9.8	57
75	Polarimetric-Spatial Classification of SAR Images Based on the Fusion of Multiple Classifiers. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2014, 7, 961-971.	4.9	56
76	Hyperspectral Image Denoising With a Spatial-Spectral View Fusion Strategy. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2014, 52, 2314-2325.	6.3	56
77	Estimation of spatiotemporal PM1.0 distributions in China by combining PM2.5 observations with satellite aerosol optical depth. <i>Science of the Total Environment</i> , 2019, 658, 1256-1264.	8.0	56
78	Geographically and temporally weighted neural networks for satellite-based mapping of ground-level PM2.5. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2020, 167, 178-188.	11.1	55
79	Satellite Video Super-Resolution via Multiscale Deformable Convolution Alignment and Temporal Grouping Projection. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-19.	6.3	55
80	Pansharpening for Cloud-Contaminated Very High-Resolution Remote Sensing Images. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019, 57, 2840-2854.	6.3	54
81	A Combined Loss-Based Multiscale Fully Convolutional Network for High-Resolution Remote Sensing Image Change Detection. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2022, 19, 1-5.	3.1	54
82	A locally adaptive L1-L2 norm for multi-frame super-resolution of images with mixed noise and outliers. <i>Signal Processing</i> , 2014, 105, 156-174.	3.7	52
83	SAR Image Despeckling by the Use of Variational Methods With Adaptive Nonlocal Functionals. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2016, 54, 3421-3435.	6.3	52
84	The recent developments in cloud removal approaches of MODIS snow cover product. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 2401-2416.	4.9	50
85	Land-surface temperature retrieval at high spatial and temporal resolutions based on multi-sensor fusion. <i>International Journal of Digital Earth</i> , 2013, 6, 113-133.	3.9	49
86	Adaptive Norm Selection for Regularized Image Restoration and Super-Resolution. <i>IEEE Transactions on Cybernetics</i> , 2016, 46, 1388-1399.	9.5	49
87	Single image haze removal considering sensor blur and noise. <i>Eurasip Journal on Advances in Signal Processing</i> , 2013, 2013, .	1.7	48
88	An Adaptive Nonlocal Regularized Shadow Removal Method for Aerial Remote Sensing Images. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2014, 52, 106-120.	6.3	48
89	A Review on Recent Developments in Fully Polarimetric SAR Image Despeckling. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2018, 11, 743-758.	4.9	48
90	Advances and Opportunities in Remote Sensing Image Geometric Registration: A systematic review of state-of-the-art approaches and future research directions. <i>IEEE Geoscience and Remote Sensing Magazine</i> , 2021, 9, 120-142.	9.6	48

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91	A Perceptually Inspired Variational Method for the Uneven Intensity Correction of Remote Sensing Images. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 3053-3065.	6.3	46
92	SAR Image Despeckling Employing a Recursive Deep CNN Prior. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 273-286.	6.3	45
93	Monitoring snow cover variability (2000–2014) in the Hengduan Mountains based on cloud-removed MODIS products with an adaptive spatio-temporal weighted method. Journal of Hydrology, 2017, 551, 314-327.	5.4	44
94	Large-scale MODIS AOD products recovery: Spatial-temporal hybrid fusion considering aerosol variation mitigation. ISPRS Journal of Photogrammetry and Remote Sensing, 2019, 157, 1-12.	11.1	44
95	A Universal Destriping Framework Combining 1-D and 2-D Variational Optimization Methods. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 808-822.	6.3	43
96	A Spatiotemporal Fusion Based Cloud Removal Method for Remote Sensing Images With Land Cover Changes. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 862-874.	4.9	43
97	Deeply supervised convolutional neural network for shadow detection based on a novel aerial shadow imagery dataset. ISPRS Journal of Photogrammetry and Remote Sensing, 2020, 167, 443-457.	11.1	43
98	A differential information residual convolutional neural network for pansharpening. ISPRS Journal of Photogrammetry and Remote Sensing, 2020, 163, 257-271.	11.1	43
99	Building Earthquake Damage Information Extraction from a Single Post-Earthquake PolSAR Image. Remote Sensing, 2016, 8, 171.	4.0	42
100	An Integrated Method for Reconstructing Daily MODIS Land Surface Temperature Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 1026-1040.	4.9	42
101	Hyperspectral image recovery employing a multidimensional nonlocal total variation model. Signal Processing, 2015, 111, 230-248.	3.7	41
102	A residual convolutional neural network for polarimetric SAR image super-resolution. ISPRS Journal of Photogrammetry and Remote Sensing, 2020, 161, 90-108.	11.1	41
103	The Impact of Local Acquisition Time on the Accuracy of Microwave Surface Soil Moisture Retrievals over the Contiguous United States. Remote Sensing, 2015, 7, 13448-13465.	4.0	40
104	Spectral Response Function-Guided Deep Optimization-Driven Network for Spectral Super-Resolution. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 4213-4227.	11.3	40
105	Dead Pixel Completion of Aqua MODIS Band 6 Using a Robust M-Estimator Multiregression. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 768-772.	3.1	39
106	Multimodal registration of remotely sensed images based on Jeffrey's divergence. ISPRS Journal of Photogrammetry and Remote Sensing, 2016, 122, 97-115.	11.1	39
107	Cloud and cloud shadow detection for optical satellite imagery: Features, algorithms, validation, and prospects. ISPRS Journal of Photogrammetry and Remote Sensing, 2022, 188, 89-108.	11.1	39
108	A Validation Approach Considering the Uneven Distribution of Ground Stations for Satellite-Based PM <sub>2.5</sub> Estimation. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 1312-1321.	4.9	38



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109	A spatially adaptive retinex variational model for the uneven intensity correction of remote sensing images. <i>Signal Processing</i> , 2014, 101, 19-34.	3.7	36
110	Assimilating multi-source data into land surface model to simultaneously improve estimations of soil moisture, soil temperature, and surface turbulent fluxes in irrigated fields. <i>Agricultural and Forest Meteorology</i> , 2016, 230-231, 142-156.	4.8	36
111	DEM generation from contours and a low-resolution DEM. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2017, 134, 135-147.	11.1	36
112	Adaptive Anisotropic Diffusion Method for Polarimetric SAR Speckle Filtering. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2015, 8, 1041-1050.	4.9	35
113	Thick Cloud Removal in High-Resolution Satellite Images Using Stepwise Radiometric Adjustment and Residual Correction. <i>Remote Sensing</i> , 2019, 11, 1925.	4.0	35
114	Temporal and Spatial Features of the Correlation between PM2.5 and O3 Concentrations in China. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 4824.	2.6	34
115	Improving the estimation of hydrological states in the SWAT model via the ensemble Kalman smoother: Synthetic experiments for the Heihe River Basin in northwest China. <i>Advances in Water Resources</i> , 2014, 67, 32-45.	3.8	33
116	A modified two-leaf light use efficiency model for improving the simulation of GPP using a radiation scalar. <i>Agricultural and Forest Meteorology</i> , 2021, 307, 108546.	4.8	33
117	A Blind Restoration Method for Remote Sensing Images. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2012, 9, 1137-1141.	3.1	32
118	Pansharpening with a Guided Filter Based on Three-Layer Decomposition. <i>Sensors</i> , 2016, 16, 1068.	3.8	32
119	Multiframe image super-resolution adapted with local spatial information. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2011, 28, 381.	1.5	31
120	Comparison of ensemble-based state and parameter estimation methods for soil moisture data assimilation. <i>Advances in Water Resources</i> , 2015, 86, 425-438.	3.8	31
121	Fusion of polarimetric and texture information for urban building extraction from fully polarimetric SAR imagery. <i>Remote Sensing Letters</i> , 2016, 7, 31-40.	1.4	30
122	A Variational Gradient-based Fusion Method for Visible and SWIR Imagery. <i>Photogrammetric Engineering and Remote Sensing</i> , 2012, 78, 947-958.	0.6	28
123	Fusion of multi-scale DEMs using a regularized super-resolution method. <i>International Journal of Geographical Information Science</i> , 2015, 29, 2095-2120.	4.8	28
124	Hyperspectral Image Denoising with a Combined Spatial and Spectral Weighted Hyperspectral Total Variation Model. <i>Canadian Journal of Remote Sensing</i> , 2016, 42, 53-72.	2.4	28
125	Quality Improvement of Satellite Soil Moisture Products by Fusing with In-Situ Measurements and GNSS-R Estimates in the Western Continental U.S.. <i>Remote Sensing</i> , 2018, 10, 1351.	4.0	28
126	Shadow removal based on separated illumination correction for urban aerial remote sensing images. <i>Signal Processing</i> , 2019, 165, 197-208.	3.7	28



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127	Monitoring the Variation of Vegetation Water Content with Machine Learning Methods: Point-to-Surface Fusion of MODIS Products and GNSS-IR Observations. <i>Remote Sensing</i> , 2019, 11, 1440.	4.0	27
128	Mapping PM2.5 concentration at a sub-km level resolution: A dual-scale retrieval approach. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2020, 165, 140-151.	11.1	27
129	A piece-wise approach to removing the nonlinear and irregular stripes in MODIS data. <i>International Journal of Remote Sensing</i> , 2014, 35, 44-53.	2.9	25
130	A general variational framework considering cast shadows for the topographic correction of remote sensing imagery. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2016, 117, 161-171.	11.1	25
131	Estimating snow depth by combining satellite data and ground-based observations over Alaska: A deep learning approach. <i>Journal of Hydrology</i> , 2020, 585, 124828.	5.4	25
132	A two-step deep learning framework for mapping gapless all-weather land surface temperature using thermal infrared and passive microwave data. <i>Remote Sensing of Environment</i> , 2022, 277, 113070.	11.0	24
133	Generating gapless land surface temperature with a high spatio-temporal resolution by fusing multi-source satellite-observed and model-simulated data. <i>Remote Sensing of Environment</i> , 2022, 278, 113083.	11.0	24
134	A 33-Year NPP Monitoring Study in Southwest China by the Fusion of Multi-Source Remote Sensing and Station Data. <i>Remote Sensing</i> , 2017, 9, 1082.	4.0	23
135	Zoom-based super-resolution reconstruction approach using prior total variation. <i>Optical Engineering</i> , 2007, 46, 127003.	1.0	22
136	Double Low-Rank Matrix Decomposition for Hyperspectral Image Denoising and Destriping. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-19.	6.3	22
137	Evaluation of Multiple Downscaled Microwave Soil Moisture Products over the Central Tibetan Plateau. <i>Remote Sensing</i> , 2017, 9, 402.	4.0	21
138	Assessment of the impact of spatial heterogeneity on microwave satellite soil moisture periodic error. <i>Remote Sensing of Environment</i> , 2018, 205, 85-99.	11.0	21
139	Robust Registration by Rank Minimization for Multiangle Hyper/Multispectral Remotely Sensed Imagery. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2014, 7, 2443-2457.	4.9	20
140	Investigating multiple aerosol optical depth products from MODIS and VIIRS over Asia: Evaluation, comparison, and merging. <i>Atmospheric Environment</i> , 2020, 230, 117548.	4.1	20
141	Block Adjustment-Based Radiometric Normalization by Considering Global and Local Differences. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2022, 19, 1-5.	3.1	20
142	A Principal Component Based Haze Masking Method for Visible Images. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2014, 11, 975-979.	3.1	19
143	A Spatially-Spectral Adaptive Haze Removal Method for Visible Remote Sensing Images. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020, 58, 6168-6180.	6.3	19
144	Comparison of big-leaf and two-leaf light use efficiency models for GPP simulation after considering a radiation scalar. <i>Agricultural and Forest Meteorology</i> , 2022, 313, 108761.	4.8	19

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145	A Nonlinear Guided Filter for Polarimetric SAR Image Despeckling. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 1918-1927.	6.3	18
146	The Effects of Fireworks Discharge on Atmospheric PM2.5 Concentration in the Chinese Lunar New Year. International Journal of Environmental Research and Public Health, 2020, 17, 9333.	2.6	18
147	Spatiotemporal analysis of water area annual variations using a Landsat time series: a case study of nine plateau lakes in Yunnan province, China. International Journal of Remote Sensing, 2016, 37, 5826-5842.	2.9	17
148	Improving Spatial Coverage for Aqua MODIS AOD using NDVI-Based Multi-Temporal Regression Analysis. Remote Sensing, 2017, 9, 340.	4.0	17
149	Climate Control on Net Primary Productivity in the Complicated Mountainous Area: A Case Study of Yunnan, China. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 4637-4648.	4.9	17
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