

# Guo Zhang

## List of Publications by Year in descending order

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113  
papers

1,725  
citations

279487

23  
h-index

360668

35  
g-index

115  
all docs

115  
docs citations

115  
times ranked

1034  
citing authors

#	ARTICLE	IF	CITATIONS
1	Geometric Accuracy Validation for ZY-3 Satellite Imagery. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 1168-1171.	1.4	64
2	Triple linear-array image geometry model of ZiYuan-3 surveying satellite and its validation. International Journal of Image and Data Fusion, 2013, 4, 33-51.	0.8	62
3	Geometric Calibration and Accuracy Assessment of ZiYuan-3 Multispectral Images. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 4161-4172.	2.7	62
4	A robust multimodal remote sensing image registration method and system using steerable filters with first- and second-order gradients. ISPRS Journal of Photogrammetry and Remote Sensing, 2022, 188, 331-350.	4.9	60
5	Initial Assessment of the LEO Based Navigation Signal Augmentation System from Luojia-1A Satellite. Sensors, 2018, 18, 3919.	2.1	57
6	In-Orbit Geometric Calibration And Validation Of Zy-3 Linear Array Sensors. Photogrammetric Record, 2014, 29, 68-88.	0.4	55
7	Global and Local Contrastive Self-Supervised Learning for Semantic Segmentation of HR Remote Sensing Images. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	2.7	53
8	Basic Products of the ZiYuan-3 Satellite and Accuracy Evaluation. Photogrammetric Engineering and Remote Sensing, 2013, 79, 1131-1145.	0.3	51
9	Evaluating the Potential of LJ1-01 Nighttime Light Data for Modeling Socio-Economic Parameters. Sensors, 2019, 19, 1465.	2.1	50
10	Small Target Tracking in Satellite Videos Using Background Compensation. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 7010-7021.	2.7	45
11	Evaluation of the RPC Model for Spaceborne SAR Imagery. Photogrammetric Engineering and Remote Sensing, 2010, 76, 727-733.	0.3	43
12	Analyzing parcel-level relationships between Luojia 1-01 nighttime light intensity and artificial surface features across Shanghai, China: A comparison with NPP-VIIRS data. International Journal of Applied Earth Observation and Geoinformation, 2020, 85, 101989.	1.4	38
13	Verification of ZY-3 Satellite Imagery Geometric Accuracy Without Ground Control Points. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 2100-2104.	1.4	36
14	On-Orbit Relative Radiometric Calibration of the Night-Time Sensor of the Luojia1-01 Satellite. Sensors, 2018, 18, 4225.	2.1	36
15	Multi-Mode GF-3 Satellite Image Geometric Accuracy Verification Using the RPC Model. Sensors, 2017, 17, 2005.	2.1	35
16	Detection and Correction of Relative Attitude Errors for ZY1-02C. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 7674-7683.	2.7	34
17	Geometric Calibration and Accuracy Verification of the GF-3 Satellite. Sensors, 2017, 17, 1977.	2.1	33
18	Geometric Processing and Accuracy Verification of Zhuhai-1 Hyperspectral Satellites. Remote Sensing, 2019, 11, 996.	1.8	33

#	ARTICLE	IF	CITATIONS
19	Improvement of Gaofen-3 Absolute Positioning Accuracy Based on Cross-Calibration. <i>Sensors</i> , 2017, 17, 2903.	2.1	31
20	Orientation of Spaceborne SAR Stereo Pairs Employing the RPC Adjustment Model. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2011, 49, 2782-2792.	2.7	29
21	On-Orbit Geometric Calibration and Validation of Luojia 1-01 Night-Light Satellite. <i>Remote Sensing</i> , 2019, 11, 264.	1.8	29
22	Monitoring urban expansion using time series of night-time light data: a case study in Wuhan, China. <i>International Journal of Remote Sensing</i> , 2017, 38, 6110-6128.	1.3	28
23	Building Extraction from Airborne Multi-Spectral LiDAR Point Clouds Based on Graph Geometric Moments Convolutional Neural Networks. <i>Remote Sensing</i> , 2020, 12, 3186.	1.8	26
24	Planar Block Adjustment and Orthorectification of ZY-3 Satellite Images. <i>Photogrammetric Engineering and Remote Sensing</i> , 2014, 80, 559-570.	0.3	23
25	Analysis and Reduction of Solar Stray Light in the Nighttime Imaging Camera of Luojia-1 Satellite. <i>Sensors</i> , 2019, 19, 1130.	2.1	23
26	Multi-Scale DenseNets-Based Aircraft Detection from Remote Sensing Images. <i>Sensors</i> , 2019, 19, 5270.	2.1	21
27	Block Adjustment for Satellite Imagery Based on the Strip Constraint. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2015, 53, 933-941.	2.7	20
28	Stitching images of dual-cameras onboard satellite. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2017, 128, 274-286.	4.9	20
29	Geometric Potential Assessment for ZY3-02 Triple Linear Array Imagery. <i>Remote Sensing</i> , 2017, 9, 658.	1.8	20
30	Star-Based Calibration of the Installation Between the Camera and Star Sensor of the Luojia 1-01 Satellite. <i>Remote Sensing</i> , 2019, 11, 2081.	1.8	20
31	CCD distortion calibration without accurate ground control data for pushbroom satellites. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2018, 142, 21-26.	4.9	19
32	Speckle Suppression by Weighted Euclidean Distance Anisotropic Diffusion. <i>Remote Sensing</i> , 2018, 10, 722.	1.8	19
33	Attributed Scattering Center Extraction With Genetic Algorithm. <i>IEEE Transactions on Antennas and Propagation</i> , 2021, 69, 2810-2819.	3.1	19
34	Surface deformation extraction from small baseline subset synthetic aperture radar interferometry (SBAS-InSAR) using coherence-optimized baseline combinations. <i>GIScience and Remote Sensing</i> , 2022, 59, 295-309.	2.4	19
35	Integrating Stereo Images and Laser Altimeter Data of the ZY3-02 Satellite for Improved Earth Topographic Modeling. <i>Remote Sensing</i> , 2019, 11, 2453.	1.8	17
36	A Multi-Objective Modeling Method of Multi-Satellite Imaging Task Planning for Large Regional Mapping. <i>Remote Sensing</i> , 2020, 12, 344.	1.8	17

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37	Multimode Hybrid Geometric Calibration of Spaceborne SAR Considering Atmospheric Propagation Delay. <i>Remote Sensing</i> , 2017, 9, 464.	1.8	15
38	Block Adjustment without GCPs for Chinese Spaceborne SAR GF-3 Imagery. <i>Sensors</i> , 2018, 18, 4023.	2.1	15
39	Multiscale Intensity Propagation to Remove Multiplicative Stripe Noise From Remote Sensing Images. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020, 58, 2308-2323.	2.7	15
40	Improvement and Assessment of the Geometric Accuracy of Chinese High-Resolution Optical Satellites. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2015, 8, 4841-4852.	2.3	14
41	Systematic Error Compensation Based on a Rational Function Model for Ziyuan1-02C. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2015, 53, 3985-3995.	2.7	14
42	Improvement and Assessment of the Absolute Positioning Accuracy of Chinese High-Resolution SAR Satellites. <i>Remote Sensing</i> , 2019, 11, 1465.	1.8	13
43	High Sensitive Night-time Light Imaging Camera Design and In-orbit Test of Luojia1-01 Satellite. <i>Sensors</i> , 2019, 19, 797.	2.1	13
44	Evaluation of LJ1-01 Nighttime Light Imagery for Estimating Monthly PM <sub>2.5</sub> Concentration: A Comparison With NPP-VIIRS Nighttime Light Data. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2020, 13, 3618-3632.	2.3	13
45	An Improved InSAR Image Co-Registration Method for Pairs with Relatively Big Distortions or Large Incoherent Areas. <i>Sensors</i> , 2016, 16, 1519.	2.1	12
46	Auto-calibration of GF-1 WFV images using flat terrain. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2017, 134, 59-69.	4.9	12
47	High-frequency attitude jitter correction for the Gaofen satellite. <i>Photogrammetric Record</i> , 2018, 33, 264-282.	0.4	12
48	Evaluating the Feasibility of Illegal Open-Pit Mining Identification Using InSAR Coherence. <i>Remote Sensing</i> , 2020, 12, 367.	1.8	12
49	Application of RPC Model in Orthorectification of Spaceborne SAR Imagery. <i>Photogrammetric Record</i> , 2012, 27, 94-110.	0.4	11
50	Planar Block Adjustment for China's Land Regions with Luojia1-01 Nighttime Light Imagery. <i>Remote Sensing</i> , 2019, 11, 2097.	1.8	11
51	Effective Range and Driving Factors of the Urban Ventilation Corridor Effect on Urban Thermal Comfort at Unified Scale with Multisource Data. <i>Remote Sensing</i> , 2021, 13, 1783.	1.8	11
52	AGFP-Net: Attentive geometric feature pyramid network for land cover classification using airborne multispectral LiDAR data. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2022, 108, 102723.	1.4	11
53	Translusion-SNet: A Semisupervised Hyperspectral Image Stripe Noise Removal Based on Transformer and CNN. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-14.	2.7	11
54	Correction of Distortions in YG-12 High-Resolution Panchromatic Images. <i>Photogrammetric Engineering and Remote Sensing</i> , 2015, 81, 25-36.	0.3	10

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55	A Penalized Spline-Based Attitude Model for High-Resolution Satellite Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 1849-1859.	2.7	10
56	Random cross-observation intensity consistency method for large-scale SAR images mosaics: An example of Gaofen-3 SAR images covering China. ISPRS Journal of Photogrammetry and Remote Sensing, 2019, 156, 215-234.	4.9	10
57	Planar block adjustment and orthorectification of Chinese spaceborne SAR YG-5 imagery based on RPC. International Journal of Remote Sensing, 2018, 39, 640-654.	1.3	9
58	Assessment of the geolocation accuracy of YG-13A high-resolution SAR data. Remote Sensing Letters, 2018, 9, 101-110.	0.6	9
59	Geometric Accuracy Evaluation of High-Resolution Satellite Images Based on Xianning Test Field. Sensors, 2018, 18, 2121.	2.1	9
60	Night-light Image Restoration Method Based on Night Scattering Model for Luojia 1-01 Satellite. Sensors, 2019, 19, 3761.	2.1	9
61	Accuracy Comparison and Assessment of DSM Derived from GFDM Satellite and GF-7 Satellite Imagery. Remote Sensing, 2021, 13, 4791.	1.8	9
62	Geometric Self-Calibration of YaoGan-13 Images Using Multiple Overlapping Images. Sensors, 2019, 19, 2367.	2.1	8
63	Fusion Despeckling Based on Surface Variation Anisotropic Diffusion Filter and Ratio Image Filter. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 2398-2411.	2.7	8
64	Layover Compensation Method for Regional Spaceborne SAR Imagery Without GCPs. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 8367-8381.	2.7	8
65	Large-Scale Orthorectification of GF-3 SAR Images Without Ground Control Points for China's Land Area. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	2.7	8
66	Evaluation of the RPC model as a replacement for the spaceborne InSAR phase equation. Photogrammetric Record, 2011, 26, 325-338.	0.4	7
67	A Hierarchical Approach to Persistent Scatterer Network Construction and Deformation Time Series Estimation. Remote Sensing, 2015, 7, 211-228.	1.8	7
68	In-Orbit Geometric Calibration Without Accurate Ground Control Data. Photogrammetric Engineering and Remote Sensing, 2018, 84, 485-493.	0.3	7
69	Correction of Pushbroom Satellite Imagery Interior Distortions Independent of Ground Control Points. Remote Sensing, 2018, 10, 98.	1.8	7
70	Speckle Reduction by Directional Coherent Anisotropic Diffusion. Remote Sensing, 2019, 11, 2768.	1.8	7
71	A Self-Adaptive Denoising Algorithm Based on Genetic Algorithm for Photon-Counting Lidar Data. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	7
72	A general method of generating satellite epipolar images based on RPC model. , 2011, , .		6

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73	Compensation for Distortion of Basic Satellite Images Based on Rational Function Model. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 5767-5775.	2.3	6
74	An Improved On-Orbit Relative Radiometric Calibration Method for Agile High-Resolution Optical Remote-Sensing Satellites With Sensor Geometric Distortion. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	2.7	6
75	Combined Model Color-Correction Method Utilizing External Low-Frequency Reference Signals for Large-Scale Optical Satellite Image Mosaics. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 4993-5007.	2.7	6
76	Combined Block Adjustment for Optical Satellite Stereo Imagery Assisted by Spaceborne SAR and Laser Altimetry Data. Remote Sensing, 2021, 13, 3062.	1.8	6
77	An object-based change detection approach by integrating intensity and texture differences. , 2010, , .		5
78	Combined Calibration Method Based on Rational Function Model for the Chinese GF-1 Wide-Field-of-View Imagery. Photogrammetric Engineering and Remote Sensing, 2016, 82, 291-298.	0.3	5
79	A method for detecting the atmospheric refraction effect using satellite remote sensing. Remote Sensing Letters, 2016, 7, 985-993.	0.6	5
80	Geometric Accuracy Evaluation of YG-18 Satellite Imagery Based on RFM. Photogrammetric Record, 2017, 32, 33-47.	0.4	5
81	Vertical Accuracy Simulation of Stereo Mapping Using a Small Matrix Charge-Coupled Device. Remote Sensing, 2018, 10, 29.	1.8	5
82	Stability Analysis of Geometric Positioning Accuracy of YG-13 Satellite. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-12.	2.7	5
83	Research on the methods of inner calibration of spaceborne SAR. , 2011, , .		4
84	Robust Approach for Recovery of Rigorous Sensor Model Using Rational Function Model. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 4355-4361.	2.7	4
85	A new approach toward object-based change detection. Science China Technological Sciences, 2010, 53, 105-110.	2.0	3
86	On-orbit relative radiometric calibration of optical video satellites without uniform calibration sites. International Journal of Remote Sensing, 2019, 40, 5454-5474.	1.3	3
87	Thermal Stability Optimization of the Luojia 1-01 Nighttime Light Remote-Sensing Camera's Principal Distance. Sensors, 2019, 19, 990.	2.1	3
88	Accuracy Verification of Airborne Large-Footprint Lidar based on Terrain Features. Remote Sensing, 2020, 12, 879.	1.8	3
89	Application and Evaluation of the Gaofen-3 Satellite on a Terrain Survey with InSAR Technology. Applied Sciences (Switzerland), 2020, 10, 806.	1.3	3
90	Geometric calibration of satellite laser altimeters based on waveform matching. Photogrammetric Record, 2021, 36, 104-123.	0.4	3

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91	Hyperspectral Image Stripe Removal Network With Cross-Frequency Feature Interaction. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	2.7	3
92	Correction of Camera Interior Orientation Elements Based on Multi-Frame Star Map. , 2020, , .		3
93	Toward Real Hyperspectral Image Stripe Removal via Direction Constraint Hierarchical Feature Cascade Networks. Remote Sensing, 2022, 14, 467.	1.8	3
94	RPC-based adjustment model for COSMO-SkyMed stereo slant/ground-range images. , 2010, , .		2
95	Geometric model for high-resolution SAR-GEC images. International Journal of Image and Data Fusion, 2013, 4, 159-170.	0.8	2
96	Denoising Algorithm Based on Local Distance Weighted Statistics for Photon Counting Lidar Point Data. , 2019, , .		2
97	Long-Periodic Analysis of Boresight Misalignment of Ziyuan3-01 Three-Line Camera. Remote Sensing, 2022, 14, 1157.	1.8	2
98	Luojia-1 Nightlight Image Registration Based on Sparse Lights. Remote Sensing, 2022, 14, 2372.	1.8	2
99	Combined Adjustment Pipeline for Improved Global Geopositioning Accuracy of Optical Satellite Imagery With the Aid of SAR and GLAS. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 5076-5085.	2.3	2
100	Detection of Anomaly Temperature Based on ASTER and ETM+ Thermal Infrared Image. , 2008, , .		1
101	Production and characteristics of Sensor Corrected and geocoded ellipsoid corrected products. , 2010, , .		1
102	Application of the RPC model for spaceborne SAR image geometric processing. Geo-Spatial Information Science, 2012, 15, 3-9.	2.4	1
103	Slant-Range accuracy assessment for the YaoGan 13. Journal of Engineering, 2019, 2019, 5957-5961.	0.6	1
104	Feasibility of Replacing the Range Doppler Equation of Spaceborne Synthetic Aperture Radar Considering Atmospheric Propagation Delay with a Rational Polynomial Coefficient Model. Sensors, 2020, 20, 553.	2.1	1
105	Bias Compensation Model for Sensor Orientation Under Weak Conditions. IEEE Geoscience and Remote Sensing Letters, 2021, 18, 172-176.	1.4	1
106	Simulations of Spotlight Synthetic Aperture Radar Super-resolution Algorithm. Journal of the Indian Society of Remote Sensing, 2022, 50, 493-505.	1.2	1
107	A Self-Adaptive Algorithm of Automatic Interior Orientation for P31 Images. Annals of GIS, 2001, 7, 113-118.	1.4	0
108	Application of RPC model for InSAR phase evaluation. , 2011, , .		0

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109	Calculating Viewing Angles Pixel by Pixel in Optical Remote Sensing Satellite Imagery Using the Rational Function Model. Remote Sensing, 2018, 10, 478.	1.8	0
110	Improving Geometric Performance for Imagery Captured by Non-Cartographic Optical Satellite: A Case Study of GF-1 WFV Imagery. Remote Sensing, 2018, 10, 971.	1.8	0
111	A Multi-Satellite Regional Imaging Mission Planning Method Based on Moom for Emergency Surveying and Mapping. , 2019, , .		0
112	Azimuth apodization for autoregressive syntheticâ€aperture radar imaging. IET Radar, Sonar and Navigation, 2021, 15, 1361.	0.9	0
113	A Hierarchical Approach to Persistent Scatterer Network Construction and Deformation Time Series Estimation. Remote Sensing, 2015, 7, 211-228.	1.8	0