Xiaobing Zhou

List of Publications by Year
in descending order

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		471061	433756
42	1,015	17	31
papers	citations	h-index	g-index

43	43	43	1221
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Applications of SAR Interferometry in Earth and Environmental Science Research. Sensors, 2009, 9, 1876-1912.	2.1	136
2	Statistical evaluation of remotely sensed snow-cover products with constraints from streamflow and SNOTEL measurements. Remote Sensing of Environment, 2005, 94, 214-231.	4.6	129
3	Short-term streamflow forecasting with global climate change implications â€“ A comparative study between genetic programming and neural network models. Journal of Hydrology, 2008, 352, 336-354.	2.3	126
4	Studying the vegetation response to simulated leakage of sequestered CO2 using spectral vegetation indices. Ecological Informatics, 2010, 5, 379-389.	2.3	46
5	Local segmentation of images using an improved fuzzy C-means clustering algorithm based on self-adaptive dictionary learning. Applied Soft Computing Journal, 2020, 91, 106200.	4.1	45
6	Image segmentation based on an active contour model of partial image restoration with local cosine fitting energy. Information Sciences, 2018, 447, 52-71.	4.0	42
7	Effects of vertical inhomogeneity on snow spectral albedo and its implication for optical remote sensing of snow. Journal of Geophysical Research, 2003, 108, .	3.3	41
8	Dynamic Changes of NDVI in the Growing Season of the Tibetan Plateau During the Past 17 Years and Its Response to Climate Change. International Journal of Environmental Research and Public Health, 2019, 16, 3452.	1.2	34
9	Observed response of soil O2 concentration to leaked CO2 from an engineered CO2 leakage experiment. International Journal of Greenhouse Gas Control, 2013, 16, 116-128.	2.3	33
10	Analytic solution of the gravity anomaly of irregular 2D masses with density contrast varying as a 2D polynomial function. Geophysics, 2010, 75, I11-I19.	1.4	31
11	Geometrical-optics code for computing the optical properties of large dielectric spheres. Applied Optics, 2003, 42, 4295.	2.1	29
12	Impact of the construction of a large dam on riparian vegetation cover at different elevation zones as observed from remotely sensed data. International Journal of Applied Earth Observation and Geoinformation, 2014, 32, 19-34.	1.4	28
13	Modelling and measuring the spectral bidirectional reflectance factor of snow-covered sea ice: an intercomparison study. Hydrological Processes, 2004, 18, 3559-3581.	1.1	26
14	Gravity inversion of 2D bedrock topography for heterogeneous sedimentary basins based on line integral and maximum difference reduction methods. Geophysical Prospecting, 2013, 61, 220-234.	1.0	26
15	General line integrals for gravity anomalies of irregular 2D masses with horizontally and vertically dependent density contrast. Geophysics, 2009, 74, I1-I7.	1.4	25
16	Experimental observation of signature changes in bulk soil electrical conductivity in response to engineered surface CO2 leakage. International Journal of Greenhouse Gas Control, 2012, 7, 20-29.	2.3	19
17	The vertical influence of temperature and precipitation on snow cover variability in the Central Tianshan Mountains, Northwest China. Hydrological Processes, 2019, 33, 1686-1697.	1.1	19
18	A progressive segmented optimization algorithm for calibrating time-variant parameters of the snowmelt runoff model (SRM). Journal of Hydrology, 2018, 566, 470-483.	2.3	16

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19	A Novel Inpainting Algorithm for Recovering Landsat-7 ETM+ SLC-OFF Images Based on the Low-Rank Approximate Regularization Method of Dictionary Learning With Nonlocal and Nonconvex Models. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 6741-6754.	2.7	15
20	The variation of vegetation productivity and its relationship to temperature and precipitation based on the GLASS-LAI of different African ecosystems from 1982 to 2013. International Journal of Biometeorology, 2019, 63, 847-860.	1.3	14
21	Physiological responses of dandelion and orchard grass leaves to experimentally released upwelling soil CO2. International Journal of Greenhouse Gas Control, 2014, 24, 139-148.	2.3	13
22	Surface velocity estimations of ice shelves in the northern Antarctic Peninsula derived from MODIS data. Journal of Chinese Geography, 2016, 26, 243-256.	1.5	13
23	Vertical distribution of snow cover and its relation to temperature over the Manasi River Basin of Tianshan Mountains, Northwest China. Journal of Chinese Geography, 2017, 27, 403-419.	1.5	13
24	Monitoring land deformation in Changzhou city (China) with multi-band InSAR data sets from 2006 to 2012. International Journal of Remote Sensing, 2018, 39, 1151-1174.	1.3	11
25	Identification of Alpine Glaciers in the Central Himalayas Using Fully Polarimetric L-Band SAR Data. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 691-703.	2.7	11
26	Reconstruction of Snow Depth Data at Moderate Spatial Resolution (1 km) from Remotely Sensed Snow Data and Multiple Optimized Environmental Factors: A Case Study over the Qinghai-Tibetan Plateau. Remote Sensing, 2021, 13, 657.	1.8	11
27	Albedo of summer snow on sea ice, Ross Sea, Antarctica. Journal of Geophysical Research, 2007, 112, .	3.3	9
28	Investigation of broadband power amplifier with high power-combining efficiency. Microwave and Optical Technology Letters, 2008, 50, 2178-2181.	0.9	9
29	Construction of a Fluxgate Magnetic Gradiometer for Integration with an Unmanned Aircraft System. Remote Sensing, 2020, 12, 2551.	1.8	9
30	Atmospheric NO2 Distribution Characteristics and Influencing Factors in Yangtze River Economic Belt: Analysis of the NO2 Product of TROPOMI/Sentinel-5P. Atmosphere, 2021, 12, 1142.	1.0	8
31	Interannual variation in the start of vegetation growing season and its response to climate change in the Qinghaiâ€“Tibet Plateau derived from MODIS data during 2001 to 2016. Journal of Applied Remote Sensing, 2019, 13, 1.	0.6	8
32	Development of a low-cost UAV-based system for CH₄monitoring over oil fields. Environmental Technology (United Kingdom), 2021, 42, 3154-3163.	1.2	7
33	Bulk electric conductivity response to soil and rock CO2 concentration during controlled CO2 release experiments: Observations and analytic modeling. Geophysics, 2015, 80, E293-E308.	1.4	2
34	Assessment and adjustment of sea surface salinity products from Aquarius in the southeast Indian Ocean based on in situ measurement and MyOcean modeled data. Acta Oceanologica Sinica, 2016, 35, 54-62.	0.4	2
35	Variations in the extent and elevation of the Larsen A and B ice shelves, Antarctica, derived from multiple datasets. Journal of Applied Remote Sensing, 2018, 12, 1.	0.6	2
36	On â€œGravity anomalies of 2D bodies with variable density contrastâ€•().. Geophysics, 2009, 74, X3-X4.	1.4	1

#	Article	IF	Citations
37	Algorithm for the retrieval of soil moisture from the radar backscattering coefficient. HKIE Transactions, 2013, 20, 124-132.	1.9	1
38	Quantification of water and exposed lined areas of coal-bed methane water ponds using regular true-color images by developing a novel uniformness based multi-component algorithm. Journal of Hydrology, 2019, 572, 645-658.	2.3	1
39	A novel denoising algorithm for medical images based on the nonâ€convex nonâ€local similar adaptive regularization. IET Image Processing, 2021, 15, 1702-1711.	1.4	1
40	Tempo-differentially selected growth rate model development and improved extraction of remotely sensed phenology in the Qinghaiâ€“Tibet Plateau. Journal of Applied Remote Sensing, 2022, 16, .	0.6	1
41	The Potential of Sentinel-1A Data for Identification of Debris-Covered Alpine Glacier Based on Machine Learning Approach. Remote Sensing, 2022, 14, 1980.	1.8	1
42	Forest Fire Monitoring and Positioning Improvement at Subpixel Level: Application to Himawari-8 Fire Products. Remote Sensing, 2022, 14, 2460.	1.8	1