

# Yasushi Yamaguchi

## List of Publications by Year in descending order

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121  
papers

6,120  
citations

117453

34  
h-index

71532

76  
g-index

121  
all docs

121  
docs citations

121  
times ranked

6750  
citing authors

#	ARTICLE	IF	CITATIONS
1	Land use and land cover change in Greater Dhaka, Bangladesh: Using remote sensing to promote sustainable urbanization. <i>Applied Geography</i> , 2009, 29, 390-401.	1.7	798
2	Overview of Advanced Spaceborne Thermal Emission and Reflection Radiometer (ASTER). <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 1998, 36, 1062-1071.	2.7	687
3	Analysis of urban heat-island effect using ASTER and ETM+ Data: Separation of anthropogenic heat discharge and natural heat radiation from sensible heat flux. <i>Remote Sensing of Environment</i> , 2005, 99, 44-54.	4.6	286
4	Global correlation analysis for NDVI and climatic variables and NDVI trends: 1982-1990. <i>International Journal of Remote Sensing</i> , 2002, 23, 3873-3878.	1.3	285
5	Using remote sensing and GIS to detect and monitor land use and land cover change in Dhaka Metropolitan of Bangladesh during 1960-2005. <i>Environmental Monitoring and Assessment</i> , 2009, 150, 237-49.	1.3	273
6	The global distribution of pure anorthosite on the Moon. <i>Nature</i> , 2009, 461, 236-240.	13.7	265
7	Global monitoring of interannual changes in vegetation activities using NDVI and its relationships to temperature and precipitation. <i>International Journal of Remote Sensing</i> , 2001, 22, 1377-1382.	1.3	236
8	Dynamics of land use/cover changes and the analysis of landscape fragmentation in Dhaka Metropolitan, Bangladesh. <i>Geo Journal</i> , 2012, 77, 315-330.	1.7	189
9	Scaling of land surface temperature using satellite data: A case examination on ASTER and MODIS products over a heterogeneous terrain area. <i>Remote Sensing of Environment</i> , 2006, 105, 115-128.	4.6	186
10	Lunar Radar Sounder Observations of Subsurface Layers Under the Nearside Maria of the Moon. <i>Science</i> , 2009, 323, 909-912.	6.0	166
11	A case study on the relation between city planning and urban growth using remote sensing and spatial metrics. <i>Landscape and Urban Planning</i> , 2011, 100, 223-230.	3.4	136
12	The Ganges and Brahmaputra rivers in Bangladesh: basin denudation and sedimentation. <i>Hydrological Processes</i> , 1999, 13, 2907-2923.	1.1	127
13	Estimation of storage heat flux in an urban area using ASTER data. <i>Remote Sensing of Environment</i> , 2007, 110, 1-17.	4.6	126
14	An automated approach for updating land cover maps based on integrated change detection and classification methods. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2012, 71, 86-95.	4.9	113
15	Spectral indices for lithologic discrimination and mapping by using the ASTER SWIR bands. <i>International Journal of Remote Sensing</i> , 2003, 24, 4311-4323.	1.3	110
16	Long-term trends and spatial patterns of satellite-retrieved PM2.5 concentrations in South and Southeast Asia from 1999 to 2014. <i>Science of the Total Environment</i> , 2018, 615, 177-186.	3.9	100
17	ASTER instrument characterization and operation scenario. <i>Advances in Space Research</i> , 1999, 23, 1415-1424.	1.2	79
18	Distinguishing the vegetation dynamics induced by anthropogenic factors using vegetation optical depth and AVHRR NDVI: A cross-border study on the Mongolian Plateau. <i>Science of the Total Environment</i> , 2018, 616-617, 730-743.	3.9	73

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19	Suspended sediment in the Ganges and Brahmaputra Rivers in Bangladesh: observation from TM and AVHRR data. <i>Hydrological Processes</i> , 2001, 15, 493-509.	1.1	64
20	A high-resolution and multi-year emissions inventory for biomass burning in Southeast Asia during 2001â€“2010. <i>Atmospheric Environment</i> , 2014, 98, 8-16.	1.9	63
21	Comparison of global inventories of CO2 emissions from biomass burning during 2002â€“2011 derived from multiple satellite products. <i>Environmental Pollution</i> , 2015, 206, 479-487.	3.7	62
22	Twenty Years of ASTER Contributions to Lithologic Mapping and Mineral Exploration. <i>Remote Sensing</i> , 2019, 11, 1394.	1.8	61
23	A Combination of TsHARP and Thin Plate Spline Interpolation for Spatial Sharpening of Thermal Imagery. <i>Remote Sensing</i> , 2014, 6, 2845-2863.	1.8	57
24	Simulating terrestrial carbon fluxes using the new biosphere model â€œbiosphere model integrating eco-physiological and mechanistic approaches using satellite dataâ€•(BEAMS). <i>Journal of Geophysical Research</i> , 2005, 110, n/a-n/a.	3.3	54
25	Instrumentation and observation target of the Lunar Radar Sounder (LRS) experiment on-board the SELENE spacecraft. <i>Earth, Planets and Space</i> , 2008, 60, 321-332.	0.9	53
26	The Lunar Radar Sounder (LRS) Onboard the KAGUYA (SELENE) Spacecraft. <i>Space Science Reviews</i> , 2010, 154, 145-192.	3.7	50
27	Preflight and In-Flight Calibration Plan for ASTER. <i>Journal of Atmospheric and Oceanic Technology</i> , 1996, 13, 321-335.	0.5	49
28	Urban growth and change analysis using remote sensing and spatial metrics from 1975 to 2003 for Hanoi, Vietnam. <i>International Journal of Remote Sensing</i> , 2011, 32, 1901-1915.	1.3	47
29	Spatio-temporal evaluation of carbon emissions from biomass burning in Southeast Asia during the period 2001â€“2010. <i>Ecological Modelling</i> , 2014, 272, 98-115.	1.2	44
30	Long-term trends and spatial patterns of PM2.5-induced premature mortality in South and Southeast Asia from 1999 to 2014. <i>Science of the Total Environment</i> , 2018, 631-632, 1504-1514.	3.9	42
31	Satellite-derived mineral mapping and monitoring of weathering, deposition and erosion. <i>Scientific Reports</i> , 2016, 6, 23702.	1.6	41
32	Comparing terrestrial carbon fluxes from the scale of a flux tower to the global scale. <i>Ecological Modelling</i> , 2007, 208, 135-144.	1.2	40
33	Satellite-driven estimation of terrestrial carbon flux over Far East Asia with 1-km grid resolution. <i>Remote Sensing of Environment</i> , 2011, 115, 1758-1771.	4.6	40
34	Distribution of suspended sediment in the coastal sea off the Gangesâ€“Brahmaputra River mouth: observation from TM data. <i>Journal of Marine Systems</i> , 2002, 32, 307-321.	0.9	37
35	Mechanism of caldera collapse and resurgence: Observations from the northern part of the Kumano Acidic Rocks, Kii peninsula, southwest Japan. <i>Journal of Volcanology and Geothermal Research</i> , 2007, 167, 263-281.	0.8	36
36	High-Resolution Mapping of Biomass Burning Emissions in Three Tropical Regions. <i>Environmental Science &amp; Technology</i> , 2015, 49, 10806-10814.	4.6	36

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37	Detection of a landslide movement as geometric misregistration in image matching of SPOT HRV data of two different dates. <i>International Journal of Remote Sensing</i> , 2003, 24, 3523-3534.	1.3	33
38	Fe-oxide concretions formed by interacting carbonate and acidic waters on Earth and Mars. <i>Science Advances</i> , 2018, 4, eaau0872.	4.7	33
39	Aster early image evaluation. <i>Advances in Space Research</i> , 2001, 28, 69-76.	1.2	31
40	Distribution of the subsurface reflectors of the western nearside maria observed from Kaguya with Lunar Radar Sounder. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	31
41	Characterization and evaluation of MODIS-derived Drought Severity Index (DSI) for monitoring the 2009/2010 drought over southwestern China. <i>Natural Hazards</i> , 2014, 74, 2129-2145.	1.6	31
42	Reducing the Discrepancy Between ASTER and MODIS Land Surface Temperature Products. <i>Sensors</i> , 2007, 7, 3043-3057.	2.1	30
43	Geological mapping of the Francistown area in northeastern Botswana by surface temperature and spectral emissivity information derived from Advanced Spaceborne Thermal Emission and Reflection Radiometer (ASTER) thermal infrared data. <i>Ore Geology Reviews</i> , 2013, 53, 134-144.	1.1	30
44	<title>Scientific basis of ASTER instrument design</title>. , 1993, 1939, 150.		29
45	A multi-year and high-resolution inventory of biomass burning emissions in tropical continents from 2001â€”2017 based on satellite observations. <i>Journal of Cleaner Production</i> , 2020, 270, 122511.	4.6	29
46	Lunar mare volcanism in the eastern nearside region derived from Clementine UV/VIS data. <i>Meteoritics and Planetary Science</i> , 2003, 38, 1461-1484.	0.7	28
47	Underlying causes of PM2.5-induced premature mortality and potential health benefits of air pollution control in South and Southeast Asia from 1999 to 2014. <i>Environment International</i> , 2018, 121, 814-823.	4.8	28
48	Comparison of global net primary production trends obtained from satellite-based normalized difference vegetation index and carbon cycle model. <i>Global Biogeochemical Cycles</i> , 2001, 15, 351-363.	1.9	27
49	Scale Effect of Vegetation-Index-Based Spatial Sharpening for Thermal Imagery: A Simulation Study by ASTER Data. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2012, 9, 549-553.	1.4	27
50	Estimation of the permittivity and porosity of the lunar uppermost basalt layer based on observations of impact craters by SELENE. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 1453-1467.	1.5	27
51	Use of Landsat TM/ETM+ to monitor the spatial and temporal extent of spring breakup floods in the Lena River, Siberia. <i>International Journal of Remote Sensing</i> , 2015, 36, 719-733.	1.3	27
52	High-resolution inventory of mercury emissions from biomass burning in tropical continents during 2001â€”2017. <i>Science of the Total Environment</i> , 2019, 653, 638-648.	3.9	25
53	A comparison of thermal infrared emissivity spectra measured in situ, in the laboratory, and derived from thermal infrared multispectral scanner (TIMS) data in Cuprite, Nevada, U.S.A.. <i>International Journal of Remote Sensing</i> , 1997, 18, 1571-1581.	1.3	24
54	Estimation of surface iron oxide abundance with suppression of grain size and topography effects. <i>Ore Geology Reviews</i> , 2017, 83, 312-320.	1.1	24

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55	Surface Heat Balance Analysis of Tainan City on March 6, 2001 Using ASTER and Formosat-2 Data. <i>Sensors</i> , 2008, 8, 6026-6044.	2.1	23
56	Synthetic Aperture Radar Processing of Kaguya Lunar Radar Sounder Data for Lunar Subsurface Imaging. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2012, 50, 2161-2174.	2.7	23
57	Emittance Spectroscopy and Broadband Thermal Remote Sensing Applied to Phosphorite and Its Utility in Geoexploration: A Study in the Parts of Rajasthan, India. <i>Remote Sensing</i> , 2019, 11, 1003.	1.8	22
58	Mineralogical mapping of southern Namibia by application of continuum-removal MSAM method to the HyMap data. <i>International Journal of Remote Sensing</i> , 2013, 34, 5282-5295.	1.3	20
59	Mare volcanism: Reinterpretation based on Kaguya Lunar Radar Sounder data. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 1037-1045.	1.5	17
60	Monitoring the dynamics of ice shelf margins in Polar Regions with high-spatial- and high-temporal-resolution space-borne optical imagery. <i>Cold Regions Science and Technology</i> , 2009, 55, 14-22.	1.6	16
61	Vegetation, water and thermal stress index for study of drought in Nepal and central northeastern India. <i>International Journal of Remote Sensing</i> , 2010, 31, 903-912.	1.3	16
62	Assessing the Impacts of the 2009/2010 Drought on Vegetation Indices, Normalized Difference Water Index, and Land Surface Temperature in Southwestern China. <i>Advances in Meteorology</i> , 2017, 2017, 1-9.	0.6	16
63	Image-scale and look-direction effects on the detectability of lineaments in radar images. <i>Remote Sensing of Environment</i> , 1985, 17, 117-127.	4.6	15
64	Estimation of snow ablation under a dust layer covering a wide range of albedo. <i>Hydrological Processes</i> , 2002, 16, 2853-2865.	1.1	15
65	High-resolution and multi-year estimation of emissions from open biomass burning in Northeast China during 2001–2017. <i>Journal of Cleaner Production</i> , 2021, 310, 127496.	4.6	15
66	Observation and estimation of daily actual evapotranspiration and evaporation on a glacierized watershed at the headwater of the Urumqi River, Tianshan, China. <i>Hydrological Processes</i> , 1999, 13, 1589-1601.	1.1	14
67	Discrepancy Between ASTER- and MODIS- Derived Land Surface Temperatures: Terrain Effects. <i>Sensors</i> , 2009, 9, 1054-1066.	2.1	14
68	Magma source transition of lunar mare volcanism at 2.3 Ga. <i>Meteoritics and Planetary Science</i> , 2017, 52, 1899-1915.	0.7	14
69	Multi-temporal analysis of deforestation in Rondônia state in Brazil using Landsat MSS, TM, ETM+ and NOAA AVHRR imagery and its relationship to changes in the local hydrological environment. <i>International Journal of Remote Sensing</i> , 2003, 24, 4467-4479.	1.3	13
70	Assessment of values and trends in coarse spatial resolution NDVI datasets in Southeast Asia landscapes. <i>European Journal of Remote Sensing</i> , 2018, 51, 863-877.	1.7	13
71	Integration and Visualization of Mineralogical and Topographical Information Derived from ASTER and DEM Data. <i>Remote Sensing</i> , 2019, 11, 162.	1.8	13
72	An approach to estimating evapotranspiration in the Urumqi River basin, Tianshan, China, by means of remote sensing and a geographical information system technique. <i>Hydrological Processes</i> , 2005, 19, 1839-1854.	1.1	12

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73	Temporal influences on Landsat-5 Thematic Mapper image in visible band. <i>International Journal of Remote Sensing</i> , 2006, 27, 3183-3201.	1.3	12
74	Quantifying the spatial differences of landscape change in the Hai River Basin, China, in the 1990s. <i>International Journal of Remote Sensing</i> , 2012, 33, 4482-4501.	1.3	12
75	ENSO- and Rainfall-Sensitive Vegetation Regions in Indonesia as Identified from Multi-Sensor Remote Sensing Data. <i>ISPRS International Journal of Geo-Information</i> , 2018, 7, 103.	1.4	12
76	A monthly stream flow model for estimating the potential changes of river runoff on the projected global warming. <i>Hydrological Processes</i> , 2000, 14, 1851-1868.	1.1	10
77	Scientific exploration of lunar surface using a rover in Japanese future lunar mission. <i>Advances in Space Research</i> , 2002, 30, 1921-1926.	1.2	10
78	ASTER views a high altitude Tibetan Lake in stereo. <i>Eos</i> , 2004, 85, 435.	0.1	10
79	Scientific results from ASTER. <i>Remote Sensing of Environment</i> , 2005, 99, 1.	4.6	10
80	An Automated Method for Crater Counting Using Rotational Pixel Swapping Method. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2017, 55, 4384-4397.	2.7	10
81	Possible techniques for lithologic discrimination using the short-wavelength-infrared bands of the Japanese ERS-1. <i>Remote Sensing of Environment</i> , 1987, 23, 117-129.	4.6	9
82	Delineation of small-scale landforms relative to flood inundation in the western Red River delta, northern Vietnam using remotely sensed data. <i>Natural Hazards</i> , 2013, 69, 905-917.	1.6	8
83	Evaluation of the Effect of Pre-processing of the Remotely Sensed Data on the Actual Evapotranspiration, Surface Soil Moisture Mapping by an Approach Using Landsat, DEM and Meteorological Data. <i>Geocarto International</i> , 2000, 15, 59-70.	1.7	7
84	Comparison of surface heat balance in three cities in Taiwan using Terra ASTER and Formosat-2 RSI data. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2012, 18, 263-273.	1.4	7
85	Climate-Induced Extreme Hydrologic Events in the Arctic. <i>Remote Sensing</i> , 2016, 8, 971.	1.8	7
86	A simple global carbon and energy coupled cycle model for global warming simulation: sensitivity to the light saturation effect. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2003, 55, 676-691.	0.8	6
87	First space-borne high-spatial-resolution optical imagery of the Antarctic from Formosat-2. <i>Antarctic Science</i> , 2008, 20, 605-606.	0.5	6
88	Effects of topography on the spatial distribution of evapotranspiration over a complex terrain using two-source energy balance model with ASTER data. <i>Hydrological Processes</i> , 2009, 23, 2295-2306.	1.1	6
89	A new one-dimensional simple energy balance and carbon cycle coupled model for global warming simulation. <i>Theoretical and Applied Climatology</i> , 2010, 101, 459-473.	1.3	6
90	The layered structure of lunar maria: Identification of the HF-radar reflector in Mare Serenitatis using multiband optical images. <i>Icarus</i> , 2012, 218, 506-512.	1.1	6

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91	Rotational Pixel Swapping Method for Detection of Circular Features in Binary Images. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 710-723.	2.7	5
92	Retrieval algorithms for photopolarimetric properties of aerosols. Advances in Space Research, 1996, 17, 63-66.	1.2	4
93	Quantifying variability of satellite data in the reflective band for long-term monitoring of the Earth's surface: inference from a multi-temporal relationship between remotely sensed pixels. International Journal of Remote Sensing, 2011, 32, 7717-7730.	1.3	4
94	Weighted misclassification rate: a new measure of classification error designed for landscape pattern index. Remote Sensing Letters, 2012, 3, 57-65.	0.6	4
95	Identification of Alteration Minerals from Unstable Reflectance Spectra Using a Deep Learning Method. Geosciences (Switzerland), 2019, 9, 195.	1.0	4
96	GEOLOGICAL MAPPING BY COMBINING SPECTRAL UNMIXING AND CLUSTER ANALYSIS FOR HYPERSPECTRAL DATA. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLI-B8, 431-435.	0.2	4
97	Characterizing the Urban Growth of Hanoi, Nagoya, and Shanghai City using Remote Sensing and Spatial Metrics. , 2008, , .		3
98	Relative Importance of Climatic and Anthropogenic Drivers on the Dynamics of Aboveground Biomass across Agro-Ecological Zones on the Mongolian Plateau. Sustainability, 2018, 10, 3435.	1.6	3
99	Reflectances in the Ganges and Brahmaputra rivers and in the adjacent coastal sea. International Journal of Remote Sensing, 2000, 21, 2213-2224.	1.3	2
100	A new approach to reduce inconsistency between MODIS and ASTER land surface temperature products. , 2006, , .		2
101	Analysis of deforestation in Mato Grosso using multi-temporal Landsat TM Imageries. , 2010, , .		2
102	Soft image segmentation model. , 2012, , .		2
103	The Lunar Radar Sounder (LRS) Onboard the Kaguya (SELENE) Spacecraft. , 2010, , 145-192.		2
104	<title>Japanese mission overview of JERS and ASTER programs</title>. , 1991, , .		1
105	Current status and science objectives of ASTER project. Advances in Space Research, 1994, 14, 141-145.	1.2	1
106	In-flight test site calibration of EOS-AM1/ASTER/TIR with MODIS. Advances in Space Research, 1994, 14, 227-230.	1.2	1
107	<title>ASTER early science outcome and operation status</title>. , 2001, , .		1
108	A simple global carbon and energy coupled cycle model for global warming simulation: sensitivity to the light saturation effect. Tellus, Series B: Chemical and Physical Meteorology, 2003, 55, 676-691.	0.8	1

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109	ASTER science outcome and operation status. , 0, , .		1
110	Automated micro-landform classification by combination of satellite images and SRTM DEM. , 2011, , .		1
111	Scale effect of vegetation index based thermal sharpening: A simulation study based on aster data. , 2011, , .		1
112	Evolution of NASAâ€™s Earth Observing System and Development of the Moderate-Resolution Imaging Spectroradiometer and the Advanced Spaceborne Thermal Emission and Reflection Radiometer Instruments. Remote Sensing and Digital Image Processing, 2010, , 3-34.	0.7	1
113	<title>ASTER target observation scenario</title>. , 2001, 4169, 67.		0
114	<title>Overview of ASTER instrument and ASTER data product</title>. , 2002, , .		0
115	Studies on Surface Temperature using Remote Sensing Technique in the NW Part of Bangladesh. Geocarto International, 2003, 18, 41-49.	1.7	0
116	Error analysis of scaling evapotranspiration over heterogeneous land surface. , 2006, , .		0
117	An advanced method for mineral mapping applicable to hyperspectral images: the composite MSAM. Remote Sensing Letters, 2015, 6, 499-508.	0.6	0
118	Monitoring Spring Floods on the Lena River Using Multiple Satellite Sensors. Global Environmental Studies, 2018, , 53-69.	0.2	0
119	Editorial for the Special Issue â€œASTER 20th Anniversaryâ€: Remote Sensing, 2020, 12, 884.	1.8	0
120	The New Version 3 Aster Global DEM and the Aster Water Body Dataset. , 2021, , .		0
121	ASTER Application in Urban Heat Balance Analysis: A Case Study of Nagoya. Remote Sensing and Digital Image Processing, 2010, , 375-395.	0.7	0