

Tsuneo Matsunaga

List of Publications by Year in descending order

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157
papers

5,915
citations

81900

39
h-index

79698

73
g-index

185
all docs

185
docs citations

185
times ranked

5318
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | A temperature and emissivity separation algorithm for Advanced Spaceborne Thermal Emission and Reflection Radiometer (ASTER) images. IEEE Transactions on Geoscience and Remote Sensing, 1998, 36, 1113-1126. | 6.3 | 1,145 |
| 2 | The global distribution of pure anorthosite on the Moon. Nature, 2009, 461, 236-240. | 27.8 | 265 |
| 3 | The surface composition of asteroid 162173 Ryugu from Hayabusa2 near-infrared spectroscopy. Science, 2019, 364, 272-275. | 12.6 | 262 |
| 4 | Global lunar-surface mapping experiment using the Lunar Imager/Spectrometer on SELENE. Earth, Planets and Space, 2008, 60, 243-255. | 2.5 | 184 |
| 5 | Possible mantle origin of olivine around lunar impact basins detected by SELENE. Nature Geoscience, 2010, 3, 533-536. | 12.9 | 184 |
| 6 | Possible lunar lava tube skylight observed by SELENE cameras. Geophysical Research Letters, 2009, 36, . | 4.0 | 134 |
| 7 | Long-Lived Volcanism on the Lunar Farside Revealed by SELENE Terrain Camera. Science, 2009, 323, 905-908. | 12.6 | 133 |
| 8 | Timing and characteristics of the latest mare eruption on the Moon. Earth and Planetary Science Letters, 2011, 302, 255-266. | 4.4 | 133 |
| 9 | Performance and scientific objectives of the SELENE (KAGUYA) Multiband Imager. Earth, Planets and Space, 2008, 60, 257-264. | 2.5 | 116 |
| 10 | Massive layer of pure anorthosite on the Moon. Geophysical Research Letters, 2012, 39, . | 4.0 | 102 |
| 11 | Long-term trends and spatial patterns of satellite-retrieved PM2.5 concentrations in South and Southeast Asia from 1999 to 2014. Science of the Total Environment, 2018, 615, 177-186. | 8.0 | 100 |
| 12 | Highly porous nature of a primitive asteroid revealed by thermal imaging. Nature, 2020, 579, 518-522. | 27.8 | 100 |
| 13 | Automated detection and classification of lunar craters using multiple approaches. Advances in Space Research, 2006, 37, 21-27. | 2.6 | 97 |
| 14 | Curie point depth in northeast Japan and its correlation with regional thermal structure and seismicity. Journal of Geophysical Research, 1994, 99, 22363-22371. | 3.3 | 96 |
| 15 | Discoveries on the lithology of lunar crater central peaks by SELENE Spectral Profiler. Geophysical Research Letters, 2008, 35, . | 4.0 | 87 |
| 16 | Lunar photometric properties at wavelengths 0.5–1.6 μ m acquired by SELENE Spectral Profiler and their dependency on local albedo and latitudinal zones. Icarus, 2011, 215, 639-660. | 2.5 | 86 |
| 17 | Evaluation of various satellite sensors for waterline extraction in a coral reef environment: Majuro Atoll, Marshall Islands. Geomorphology, 2006, 82, 398-411. | 2.6 | 81 |
| 18 | Asymmetric crustal growth on the Moon indicated by primitive farside highland materials. Nature Geoscience, 2012, 5, 384-388. | 12.9 | 79 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Lack of Exposed Ice Inside Lunar South Pole Shackleton Crater. <i>Science</i> , 2008, 322, 938-939. | 12.6 | 77 |
| 20 | Comparing GOSAT observations of localized CO ₂ enhancements by large emitters with inventory-based estimates. <i>Geophysical Research Letters</i> , 2016, 43, 3486-3493. | 4.0 | 74 |
| 21 | One Moon, Many Measurements 3: Spectral reflectance. <i>Icarus</i> , 2013, 226, 364-374. | 2.5 | 73 |
| 22 | Vicarious calibration of ASTER thermal infrared bands. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2005, 43, 2733-2746. | 6.3 | 71 |
| 23 | Global terrestrial carbon fluxes of 1999–2019 estimated by upscaling eddy covariance data with a random forest. <i>Scientific Data</i> , 2020, 7, 313. | 5.3 | 71 |
| 24 | Deriving the Absolute Reflectance of Lunar Surface Using SELENE (Kaguya) Multiband Imager Data. <i>Space Science Reviews</i> , 2010, 154, 57-77. | 8.1 | 67 |
| 25 | Thermal Infrared Imaging Experiments of C-Type Asteroid 162173 Ryugu on Hayabusa2. <i>Space Science Reviews</i> , 2017, 208, 255-286. | 8.1 | 64 |
| 26 | Comparison of global inventories of CO ₂ emissions from biomass burning during 2002–2011 derived from multiple satellite products. <i>Environmental Pollution</i> , 2015, 206, 479-487. | 7.5 | 62 |
| 27 | Ultramafic impact melt sheet beneath the South Pole–Aitken basin on the Moon. <i>Geophysical Research Letters</i> , 2009, 36, . | 4.0 | 61 |
| 28 | NIRS3: The Near Infrared Spectrometer on Hayabusa2. <i>Space Science Reviews</i> , 2017, 208, 317-337. | 8.1 | 60 |
| 29 | Olivine-rich exposures in the South Pole-Aitken Basin. <i>Icarus</i> , 2012, 218, 331-344. | 2.5 | 57 |
| 30 | Mare volcanism in the lunar farside Moscoviense region: Implication for lateral variation in magma production of the Moon. <i>Geophysical Research Letters</i> , 2009, 36, . | 4.0 | 51 |
| 31 | Formation age of the lunar crater Giordano Bruno. <i>Meteoritics and Planetary Science</i> , 2009, 44, 1115-1120. | 1.6 | 49 |
| 32 | Vicarious Calibration of the GOSAT Sensors Using the Railroad Valley Desert Playa. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2011, 49, 1781-1795. | 6.3 | 49 |
| 33 | Geologic structure generated by large impact basin formation observed at the South Pole–Aitken basin on the Moon. <i>Geophysical Research Letters</i> , 2014, 41, 2738-2745. | 4.0 | 49 |
| 34 | GOSAT-2014 methane spectral line list. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2015, 154, 63-71. | 2.3 | 48 |
| 35 | Thermophysical properties of the surface of asteroid 162173 Ryugu: Infrared observations and thermal inertia mapping. <i>Icarus</i> , 2020, 348, 113835. | 2.5 | 48 |
| 36 | Thermally altered subsurface material of asteroid (162173) Ryugu. <i>Nature Astronomy</i> , 2021, 5, 246-250. | 10.1 | 47 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 37 | Effects of atmospheric light scattering on spectroscopic observations of greenhouse gases from space. Part 2: Algorithm intercomparison in the GOSAT data processing for CO ₂ retrievals over TCCON sites. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 1493-1512. | 3.3 | 46 |
| 38 | ASTER preflight and in-flight calibration and the validation of Level 2 products. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 1998, 36, 1161-1172. | 6.3 | 45 |
| 39 | Compositional evidence for an impact origin of the Moon's Procellarum basin. <i>Nature Geoscience</i> , 2012, 5, 775-778. | 12.9 | 45 |
| 40 | Effects of atmospheric light scattering on spectroscopic observations of greenhouse gases from space: Validation of PPDF-based CO ₂ retrievals from GOSAT. <i>Journal of Geophysical Research</i> , 2012, 117, . | 3.3 | 42 |
| 41 | Long-term trends and spatial patterns of PM _{2.5} -induced premature mortality in South and Southeast Asia from 1999 to 2014. <i>Science of the Total Environment</i> , 2018, 631-632, 1504-1514. | 8.0 | 42 |
| 42 | A new type of pyroclastic deposit on the Moon containing Fe-spinel and chromite. <i>Geophysical Research Letters</i> , 2013, 40, 4549-4554. | 4.0 | 38 |
| 43 | High-Resolution Mapping of Biomass Burning Emissions in Three Tropical Regions. <i>Environmental Science & Technology</i> , 2015, 49, 10806-10814. | 10.0 | 36 |
| 44 | Preflight and In-Flight Calibration of the Spectral Profiler on Board SELENE (Kaguya). <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2011, 49, 4660-4676. | 6.3 | 35 |
| 45 | Planned radiometrically calibrated and geometrically corrected products of lunar high-resolution Terrain Camera on SELENE. <i>Advances in Space Research</i> , 2008, 42, 310-316. | 2.6 | 34 |
| 46 | One Moon, many measurements 2: Photometric corrections. <i>Icarus</i> , 2013, 226, 127-139. | 2.5 | 33 |
| 47 | Development of an application scheme for the SELENE/SP lunar reflectance model for radiometric calibration of hyperspectral and multispectral sensors. <i>Planetary and Space Science</i> , 2016, 124, 76-83. | 1.7 | 33 |
| 48 | METEX – A flexible tool for air trajectory calculation†. <i>Environmental Modelling and Software</i> , 2010, 25, 607-608. | 4.5 | 32 |
| 49 | Anomalous porous boulders on (162173) Ryugu as primordial materials from its parent body. <i>Nature Astronomy</i> , 2021, 5, 766-774. | 10.1 | 30 |
| 50 | Methane Emission Estimates by the Global High-Resolution Inverse Model Using National Inventories. <i>Remote Sensing</i> , 2019, 11, 2489. | 4.0 | 29 |
| 51 | A multi-year and high-resolution inventory of biomass burning emissions in tropical continents from 2001–2017 based on satellite observations. <i>Journal of Cleaner Production</i> , 2020, 270, 122511. | 9.3 | 29 |
| 52 | On recent (2008–2012) stratospheric aerosols observed by lidar over Japan. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 11975-11984. | 4.9 | 28 |
| 53 | Underlying causes of PM _{2.5} -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. | 10.0 | 28 |
| 54 | Country-Scale Analysis of Methane Emissions with a High-Resolution Inverse Model Using GOSAT and Surface Observations. <i>Remote Sensing</i> , 2020, 12, 375. | 4.0 | 28 |

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| 55 | Characterization of Multiband Imager Aboard SELENE. <i>Space Science Reviews</i> , 2010, 154, 79-102. | 8.1 | 27 |
| 56 | Timing and duration of mare volcanism in the central region of the northern farside of the Moon. <i>Earth, Planets and Space</i> , 2011, 63, 5-13. | 2.5 | 25 |
| 57 | High-resolution inventory of mercury emissions from biomass burning in tropical continents during 2001–2017. <i>Science of the Total Environment</i> , 2019, 653, 638-648. | 8.0 | 25 |
| 58 | 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. | 2.9 | 24 |
| 59 | One Moon, many measurements 1: Radiance values. <i>Icarus</i> , 2013, 226, 951-963. | 2.5 | 24 |
| 60 | An explanation of bright areas inside Shackleton Crater at the Lunar South Pole other than water-ice deposits. <i>Geophysical Research Letters</i> , 2013, 40, 3814-3818. | 4.0 | 23 |
| 61 | Evidence of impact melt sheet differentiation of the lunar South Pole–Aitken basin. <i>Journal of Geophysical Research E: Planets</i> , 2017, 122, 1672-1686. | 3.6 | 22 |
| 62 | Satellite estimation of photosynthetically active radiation in Southeast Asia: Impacts of smoke and cloud cover. <i>Journal of Geophysical Research</i> , 2004, 109, n/a-n/a. | 3.3 | 20 |
| 63 | Comparison of XH ₂ O Retrieved from GOSAT Short-Wavelength Infrared Spectra with Observations from the TCCON Network. <i>Remote Sensing</i> , 2016, 8, 414. | 4.0 | 20 |
| 64 | Animal Detection Using Thermal Images and Its Required Observation Conditions. <i>Remote Sensing</i> , 2018, 10, 1050. | 4.0 | 20 |
| 65 | Temperature and emissivity separation from Advanced Spaceborne Thermal Emission and Reflection Radiometer (ASTER) images. , 1996, , . | | 19 |
| 66 | Current status of Hyperspectral Imager Suite (HISUI) onboard International Space Station (ISS). , 2017, , . | | 19 |
| 67 | Net primary production in Southeast Asia following a large reduction in photosynthetically active radiation owing to smoke. <i>Geophysical Research Letters</i> , 2005, 32, , . | 4.0 | 18 |
| 68 | The widespread occurrence of high-calcium pyroxene in bright-ray craters on the Moon and implications for lunar-crust composition. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a. | 4.0 | 18 |
| 69 | DIAL measurement of lower tropospheric ozone over Saga (33.24° N, 130.29° E), Japan, and comparison with a chemistry–climate model. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 1385-1394. | 3.1 | 16 |
| 70 | Hisui Status Toward FY2019 Launch. , 2018, , . | | 16 |
| 71 | Estimating ice breakup dates on Eurasian lakes using water temperature trends and threshold surface temperatures derived from MODIS data. <i>International Journal of Remote Sensing</i> , 2007, 28, 2163-2179. | 2.9 | 15 |
| 72 | Temporal comparison of global inventories of CO ₂ emissions from biomass burning during 2002–2011 derived from remotely sensed data. <i>Environmental Science and Pollution Research</i> , 2017, 24, 16905-16916. | 5.3 | 15 |

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|----|---|------|-----------|
| 73 | Simultaneous retrieval of temperature and area according to sub-pixel hotspots from nighttime Landsat 8 OLI data. <i>Remote Sensing of Environment</i> , 2018, 204, 276-286. | 11.0 | 15 |
| 74 | The instrument constant of sky radiometers (POM-02) – Part 2: Solid view angle. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 5389-5402. | 3.1 | 15 |
| 75 | 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. | 9.3 | 15 |
| 76 | Calibration of NIR 2 of Spectral Profiler Onboard Kaguya/SELENE. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2014, 52, 6882-6898. | 6.3 | 14 |
| 77 | Support system for surveying moving wild animals in the snow using aerial remote-sensing images. <i>International Journal of Remote Sensing</i> , 2014, 35, 1374-1394. | 2.9 | 14 |
| 78 | Technical note: Evaluation of three machine learning models for surface ocean CO ₂ mapping. <i>Ocean Science</i> , 2017, 13, 303-313. | 3.4 | 14 |
| 79 | Interannual variability on methane emissions in monsoon Asia derived from GOSAT and surface observations. <i>Environmental Research Letters</i> , 2021, 16, 024040. | 5.2 | 14 |
| 80 | <title>Development of a visible and near-infrared spectrometer for Selenological and Engineering Explorer (SELENE)</title>. , 2001, 4151, 32. | | 13 |
| 81 | Global occurrence trend of high-Ca pyroxene on lunar highlands and its implications. <i>Journal of Geophysical Research E: Planets</i> , 2015, 120, 831-848. | 3.6 | 13 |
| 82 | Featureless spectra on the Moon as evidence of residual lunar primordial crust. <i>Journal of Geophysical Research E: Planets</i> , 2015, 120, 2190-2205. | 3.6 | 13 |
| 83 | Current status of Hyperspectral Imager Suite (HISUI). , 2013, , . | | 12 |
| 84 | Impact velocity dependence of transient cratering growth. <i>Journal of Geophysical Research E: Planets</i> , 2017, 122, 1077-1089. | 3.6 | 12 |
| 85 | Variation of the lunar highland surface roughness at baseline 0.15–100%km and the relationship to relative age. <i>Geophysical Research Letters</i> , 2014, 41, 1444-1451. | 4.0 | 11 |
| 86 | An Automated Method for Crater Counting Using Rotational Pixel Swapping Method. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2017, 55, 4384-4397. | 6.3 | 10 |
| 87 | The Impact of Different Support Vectors on GOSAT-2 CAI-2 L2 Cloud Discrimination. <i>Remote Sensing</i> , 2017, 9, 1236. | 4.0 | 10 |
| 88 | The instrument constant of sky radiometers (POM-02) – Part 1: Calibration constant. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 5363-5388. | 3.1 | 9 |
| 89 | HISUI Status Toward 2020 Launch. , 2019, , . | | 9 |
| 90 | Nocturnal aerosol optical depth measurements with modified sky radiometer POM-02 using the moon as a light source. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 6465-6488. | 3.1 | 9 |

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| 91 | Estimation of net ecosystem production in Asia using the diagnostic-type ecosystem model with a 10-km grid-scale resolution. Journal of Geophysical Research G: Biogeosciences, 2016, 121, 1484-1502. | 3.0 | 8 |
| 92 | Interpreting Temporal Changes of Atmospheric CO ₂ Over Fire Affected Regions Based on GOSAT Observations. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 77-81. | 3.1 | 8 |
| 93 | Space-Weathered Anorthosite as Spectral Type Material on the Martian Satellites. Geophysical Research Letters, 2018, 45, 1305-1312. | 4.0 | 8 |
| 94 | Quantifying CO ₂ emissions from a thermal power plant based on CO ₂ column measurements by portable Fourier transform spectrometers. Remote Sensing of Environment, 2021, 267, 112714. | 11.0 | 8 |
| 95 | Normative productivity of the global vegetation. Carbon Balance and Management, 2008, 3, 8. | 3.2 | 7 |
| 96 | Scientific objectives and specification of the SELENE Multiband Imager. Advances in Space Research, 2008, 42, 301-304. | 2.6 | 7 |
| 97 | Climate-Induced Extreme Hydrologic Events in the Arctic. Remote Sensing, 2016, 8, 971. | 4.0 | 7 |
| 98 | Lidar detection of high concentrations of ozone and aerosol transported from northeastern Asia over Saga, Japan. Atmospheric Chemistry and Physics, 2017, 17, 1865-1879. | 4.9 | 7 |
| 99 | Assessment of Anthropogenic Methane Emissions over Large Regions Based on GOSAT Observations and High Resolution Transport Modeling. Remote Sensing, 2017, 9, 941. | 4.0 | 7 |
| 100 | Preliminary verification for application of a support vector machine-based cloud detection method to GOSAT-2 CAI-2. Atmospheric Measurement Techniques, 2018, 11, 2863-2878. | 3.1 | 7 |
| 101 | GLOBAL HIGH-RESOLUTION STEREO MAPPING OF THE MOON WITH THE SELENE TERRAIN CAMERA. , 2006, , 101-108. | | 7 |
| 102 | Statistical and in-situ validations of the ASTER spectral emissivity product at Railroad Valley, Nevada, USA. Remote Sensing of Environment, 2014, 145, 81-92. | 11.0 | 6 |
| 103 | Tectonic evolution of northwestern Imbrium of the Moon that lasted in the Copernican Period. Earth, Planets and Space, 2016, 68, . | 2.5 | 6 |
| 104 | <title>Early evaluation of ASTER emissivity products and its application to environmental and geologic studies</title>. , 2002, , . | | 5 |
| 105 | Lunar cratering chronology: Statistical fluctuation of crater production frequency and its effect on age determination. Earth, Planets and Space, 2008, 60, 265-270. | 2.5 | 5 |
| 106 | Rotational Pixel Swapping Method for Detection of Circular Features in Binary Images. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 710-723. | 6.3 | 5 |
| 107 | The Result of SELENE (KAGUYA) Development and Operation~!2009-06-28~!2009-08-10~!2009-10-01~!. Recent Patents on Space Technology, 2009, 1, 12-23. | 0.1 | 5 |
| 108 | Sensitivity of biomass burning emissions estimates to land surface information. Biogeosciences, 2022, 19, 2059-2078. | 3.3 | 5 |

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|-----|--|-----|-----------|
| 109 | An evaluation method of reflectance spectra to be obtained by Hayabusa2 Near-Infrared Spectrometer (NIRS3) based on laboratory measurements of carbonaceous chondrites. Earth, Planets and Space, 2017, 69, . | 2.5 | 4 |
| 110 | Information content analysis: the potential for methane isotopologue retrieval from GOSAT-2. Atmospheric Measurement Techniques, 2018, 11, 1159-1179. | 3.1 | 4 |
| 111 | Relationships between ice breakup dates of lakes and local air temperature on the Eurasian continent. International Journal of Remote Sensing, 2007, 28, 5535-5550. | 2.9 | 3 |
| 112 | Automatic detection of moving wild animals in airborne remote sensing images. , 2010, , . | | 3 |
| 113 | A monitoring method of coral bleaching and recovery by using hyperspectral sensor. , 2013, , . | | 3 |
| 114 | Effective observation planning and its simulation of a Japanese spaceborne sensor: Hyperspectral imager suite (HISUI). , 2014, , . | | 3 |
| 115 | Difference between forward- and backward-looking bands of GOSAT-2 CAI-2 cloud discrimination used with Terra MISR data. International Journal of Remote Sensing, 2016, 37, 1115-1126. | 2.9 | 3 |
| 116 | Impact of Changes in Minimum Reflectance on Cloud Discrimination. Remote Sensing, 2018, 10, 693. | 4.0 | 3 |
| 117 | On the zero-level offset in the GOSAT TANSO-FTS O ₂ and XCH ₄ and the quality of solar-induced chlorophyll fluorescence (SIF): comparison of SIF between GOSAT and OCO-2. Atmospheric Measurement Techniques, 2019, 12, 6721-6735. | 3.1 | 3 |
| 118 | Estimation of the Ice Breakup Dates Using the Water Temperature Trend from In-Situ Data and MODIS Data at Saroma-ko Lagoon. Suimon Mizu Shigen Gakkaishi, 2004, 17, 241-251. | 0.1 | 3 |
| 119 | Validation of XCO ₂ and XCH ₄ retrieved from a portable Fourier transform spectrometer with those from in situ profiles from aircraft-borne instruments. Atmospheric Measurement Techniques. 2020, 13, 5149-5163. | 3.1 | 3 |
| 120 | Temperature and emissivity separation from ASTER on EOS AM-1 - preflight validation by ASTER airborne simulator -. Advances in Space Research, 1999, 23, 1463-1469. | 2.6 | 2 |
| 121 | Stream Water Chemistry of Water Conservation Forest in Kanto Mountain Region. Suimon Mizu Shigen Gakkaishi, 2005, 18, 424-434. | 0.1 | 2 |
| 122 | Validation of Frame-Transfer Correction of SELENE/LISM/MI. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 2911-2917. | 6.3 | 2 |
| 123 | Aster/TIR vicarious calibration activities in the last 11 years. , 2011, , . | | 2 |
| 124 | Observation planning and its coverage simulation of a Japanese spaceborne sensor: Hyperspectral Imager Suite (HISUI). , 2013, , . | | 2 |
| 125 | Linking Carbon Dioxide Variability at Hateruma Station to East Asia Emissions by Bayesian Inversion. Geophysical Monograph Series, 2013, , 163-172. | 0.1 | 2 |
| 126 | ASTER/TIR vicarious calibration activities in US and Japan validation sites for 14 years. Proceedings of SPIE, 2014, , . | 0.8 | 2 |

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|-----|--|-----|-----------|
| 127 | Current status of Hyperspectral Imager Suite (HISUI) and its deployment plan on International Space Station. , 2016, , . | | 2 |
| 128 | Bias Correction of the Ratio of Total Column CH ₄ to CO ₂ Retrieved from GOSAT Spectra. Remote Sensing, 2020, 12, 3155. | 4.0 | 2 |
| 129 | Deriving the Absolute Reflectance of Lunar Surface Using SELENE (Kaguya) Multiband Imager Data. , 2010, , 57-77. | | 2 |
| 130 | Characterization of Multiband Imager Aboard SELENE. , 2010, , 79-102. | | 2 |
| 131 | NIRS3: The Near Infrared Spectrometer on Hayabusa2. , 2017, , 317-337. | | 2 |
| 132 | Meteorological control of subtropical South American methane emissions estimated from GOSAT observations. Scientific Online Letters on the Atmosphere, 2021, , . | 1.4 | 2 |
| 133 | DETAILED URBAN VEGETATIVE COVER MAP WITH ESTIMATION OF VEGETATION LOCATION IN MIXEL. Nihon Kenchiku Gakkai Keikakukei Ronbunshu, 2001, 66, 77-83. | 0.3 | 2 |
| 134 | COMPUTATIONAL GEOLOGY FOR LUNAR DATA ANALYSIS FROM LISM ON KAGUYA. , 0, , 77-88. | | 1 |
| 135 | Future potential of thermal infrared multispectral data for mapping temperature and emissivity parameters. Advances in Space Research, 1994, 14, 71-80. | 2.6 | 1 |
| 136 | Landsat-7 1/4ç’ä,ãṽâ⊙é“æ1-ãf»ä,æµ.ãâã,ãfããf.ã,£ãf«æzfã° ã^†ã,fæŽ`ã°š. Proceedings of Coastal Engineering | | 1 |
| 137 | Preliminary Results of the SELENE Terrain Camera. Transactions of the Japan Society for Aeronautical and Space Sciences Space Technology Japan, 2009, 7, Tk_61-Tk_66. | 0.2 | 1 |
| 138 | GOSAT higher level product status 1.5 year after the launch. , 2010, , . | | 1 |
| 139 | Usability of lunar reflectance model based on SELENE/SP for planned HISUI radiometric calibration. , 2013, , . | | 1 |
| 140 | Bottom-type classification in coral reef area using hyperspectral bottom index imagery. , 2015, , . | | 1 |
| 141 | Aerosol Optical Characteristics in Fukuoka and Beijing Measured by Integrating Nephelometer and Aethalometer: Comparison of Source and Downstream Regions. Journal of the Meteorological Society of Japan, 2018, 96, 215-240. | 1.8 | 1 |
| 142 | Thermophysical Properties of C-Type Asteroid 162173 Ryugu Revealed by the Thermal Infrared Imager TIR on Hayabusa2. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2021, 19, 654-659. | 0.2 | 1 |
| 143 | Lunar Surface Roughness Estimation Using Stereoscopic Data. Transactions of the Japan Society for Aeronautical and Space Sciences Space Technology Japan, 2009, 7, Pk_29-Pk_34. | 0.2 | 1 |
| 144 | The spatial distribution of the ice breakup dates on Lake Baikal and time series of the ice breakup dates on Lake Khanka. Journal of the Japanese Society of Snow and Ice, 2004, 66, 581-590. | 0.1 | 1 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 145 | Classification of Seagrass Beds by Coupling Airborne LiDAR Bathymetry Data and Digital Aerial Photographs. Structure and Function of Mountain Ecosystems in Japan, 2016, , 59-70. | 0.5 | 1 |
| 146 | Biospheric context of Siberian development. Nature Precedings, 2008, , . | 0.1 | 0 |
| 147 | Feasibility Study of Transparency Estimation in Lake Nakaumi by SGLI using in-situ Spectral Reflectance Data. Journal of Japan Society of Civil Engineers Ser B2 (Coastal Engineering), 2009, 65, 1046-1050. | 0.4 | 0 |
| 148 | Biospheric context of Siberian development. Nature Precedings, 2011, , . | 0.1 | 0 |
| 149 | Support system to extract tie points in airborne images of snow covered area using roots of single trees. , 2011, , . | | 0 |
| 150 | Biosphere Aspects of the Development of Siberia. Problems of Economic Transition, 2012, 55, 52-56. | 0.0 | 0 |
| 151 | Observation planning algorithm of a Japanese spaceborne sensor: Hyperspectral Imager Suite (HISUI). , 2014, , . | | 0 |
| 152 | Detection of large point sources of carbon dioxide by a satellite hyperspectral camera. , 2015, , . | | 0 |
| 153 | Case studies for observation planning algorithm of a Japanese spaceborne sensor: Hyperspectral Imager Suite (HISUI). Proceedings of SPIE, 2016, , . | 0.8 | 0 |
| 154 | A METHOD OF THE DETAILED VEGETATION MAPPING OF URBAN AREA AND SURROUNDING FOREST. AIJ Journal of Technology and Design, 2002, 8, 185-188. | 0.3 | 0 |
| 155 | Observation planning algorithm of a Japanese space-borne sensor: Hyperspectral Imager Suite (HISUI) onboard International Space Station (ISS) as platform. , 2017, , . | | 0 |
| 156 | Products and Science Achievements of Gosat Satellite Series. , 2020, , . | | 0 |
| 157 | Inversion Estimates of Methane Emission in the Middle East in 2010-2017 with GOSAT Observations. , 2020, , . | | 0 |