

Michiaki Sugita

List of Publications by Year in descending order

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Version: 2024-02-01

67
papers

2,101
citations

201674

27
h-index

243625

44
g-index

70
all docs

70
docs citations

70
times ranked

1831
citing authors

#	ARTICLE	IF	CITATIONS
1	Application of self-preservation in the diurnal evolution of the surface energy budget to determine daily evaporation. <i>Journal of Geophysical Research</i> , 1992, 97, 18377-18382.	3.3	219
2	Daily evaporation over a region from lower boundary layer profiles measured with radiosondes. <i>Water Resources Research</i> , 1991, 27, 747-752.	4.2	148
3	Energy partitioning and its biophysical controls above a grazing steppe in central Mongolia. <i>Agricultural and Forest Meteorology</i> , 2006, 137, 89-106.	4.8	113
4	Regional Surface Fluxes From Remotely Sensed Skin Temperature and Lower Boundary Layer Measurements. <i>Water Resources Research</i> , 1990, 26, 2937-2944.	4.2	104
5	Cloud effect in the estimation of instantaneous downward longwave radiation. <i>Water Resources Research</i> , 1993, 29, 599-605.	4.2	83
6	Sensible Heat Transfer Parameterization for Surfaces with Anisothermal Dense Vegetation. <i>Journals of the Atmospheric Sciences</i> , 1996, 53, 209-216.	1.7	79
7	Net ecosystem carbon dioxide exchange over grazed steppe in central Mongolia. <i>Global Change Biology</i> , 2005, 11, 051013014052004-???	9.5	76
8	Change of interception process due to the succession from Japanese red pine to evergreen oak. <i>Journal of Hydrology</i> , 2005, 315, 154-166.	5.4	73
9	Wind velocity measurements in the neutral boundary layer above hilly prairie. <i>Journal of Geophysical Research</i> , 1990, 95, 7617-7624.	3.3	60
10	Regional surface fluxes from satellite-derived surface temperatures (AVHRR) and radiosonde profiles. <i>Boundary-Layer Meteorology</i> , 1992, 58, 355-366.	2.3	55
11	An overview of the rangelands atmosphere-hydrosphere-biosphere interaction study experiment in northeastern Asia (RAISE). <i>Journal of Hydrology</i> , 2007, 333, 3-20.	5.4	54
12	Water sources in semiarid northeast Asia as revealed by field observations and isotope transport model. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	54
13	Radiometrically determined skin temperature and scalar roughness to estimate surface heat flux. Part I: Parameterization of radiometric scalar roughness. <i>Boundary-Layer Meteorology</i> , 1994, 69, 397-416.	2.3	49
14	The extent of the unstable Monin-Obukhov layer for temperature and humidity above complex hilly grassland. <i>Boundary-Layer Meteorology</i> , 1990, 51, 383-400.	2.3	47
15	Comparison of land surface temperatures derived from satellite observations with ground truth during FIFE. <i>International Journal of Remote Sensing</i> , 1993, 14, 1659-1676.	2.9	45
16	Year-round measurements of net ecosystem CO ₂ flux over a montane larch forest in Mongolia. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	44
17	Optimal Measurement Strategy for Surface Temperature to Determine Sensible Heat Flux From Anisothermal Vegetation. <i>Water Resources Research</i> , 1996, 32, 2129-2134.	4.2	42
18	Is Mongolia's groundwater increasing or decreasing? The case of the Kherlen River basin / Les eaux souterraines de Mongolie s'accroissent ou décroissent-elles? Cas du bassin versant la Rivière Kherlen. <i>Hydrological Sciences Journal</i> , 2008, 53, 1221-1229.	2.6	41

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19	Complementary relationship with a convective boundary layer model to estimate regional evaporation. <i>Water Resources Research</i> , 2001, 37, 353-365.	4.2	39
20	Seasonal variation in oxygen isotope composition of waters for a montane larch forest in Mongolia. <i>Trees - Structure and Function</i> , 2006, 20, 122-130.	1.9	37
21	Temporal variation of $\delta^{13}C$ of larch leaves from a montane boreal forest in Mongolia. <i>Trees - Structure and Function</i> , 2007, 21, 479-490.	1.9	35
22	A bulk similarity approach in the atmospheric boundary layer using radiometric skin temperature to determine regional surface fluxes. <i>Boundary-Layer Meteorology</i> , 1991, 55, 1-23.	2.3	34
23	The stability functions in the bulk similarity formulation for the unstable boundary layer. <i>Boundary-Layer Meteorology</i> , 1992, 61, 65-80.	2.3	32
24	Single level turbulence measurements to determine roughness parameters of complex terrain. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	31
25	Response of gross ecosystem productivity, light use efficiency, and water use efficiency of Mongolian steppe to seasonal variations in soil moisture. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	31
26	Change of evapotranspiration components due to the succession from Japanese red pine to evergreen oak. <i>Journal of Hydrology</i> , 2006, 326, 166-180.	5.4	29
27	Regional Roughness Parameters and Momentum Fluxes over a Complex Area. <i>Journal of Applied Meteorology and Climatology</i> , 1996, 35, 2179-2190.	1.7	28
28	Regional surface fluxes under nonuniform soil moisture conditions during drying. <i>Water Resources Research</i> , 1992, 28, 1669-1674.	4.2	27
29	Landsat surface temperatures and radio soundings to obtain regional surface fluxes. <i>Water Resources Research</i> , 1992, 28, 1675-1679.	4.2	20
30	Radiometrically determined skin temperature and scalar roughness to estimate surface heat flux part II: Performance of parameterized scalar roughness for the determination of sensible heat. <i>Boundary-Layer Meteorology</i> , 1994, 70, 1-12.	2.3	19
31	Natural recovery of steppe vegetation on vehicle tracks in central Mongolia. <i>Journal of Biosciences</i> , 2006, 31, 85-93.	1.1	19
32	Spectral unmixing model to assess land cover fractions in Mongolian steppe regions. <i>Remote Sensing of Environment</i> , 2010, 114, 2361-2372.	11.0	19
33	Evaporation from Lake Kasumigaura: annual totals and variability in time and space. <i>Hydrological Research Letters</i> , 2014, 8, 103-107.	0.5	19
34	Variability of surface fluxes within a complex area observed during TABLE 92. <i>Agricultural and Forest Meteorology</i> , 1995, 73, 189-207.	4.8	18
35	Seasonal variation of surface fluxes and scalar roughness of suburban land covers. <i>Agricultural and Forest Meteorology</i> , 2005, 135, 1-21.	4.8	18
36	Drag and Bulk Transfer Coefficients Over Water Surfaces in Light Winds. <i>Boundary-Layer Meteorology</i> , 2016, 160, 319-346.	2.3	18

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37	Inner Region Humidity Characteristics of the Neutral Boundary Layer Over Prairie Terrain. <i>Water Resources Research</i> , 1990, 26, 2931-2936.	4.2	17
38	How regional are the regional fluxes obtained from lower atmospheric boundary layer data?. <i>Water Resources Research</i> , 1997, 33, 1437-1445.	4.2	16
39	Satellite-derived surface temperatures with boundary layer temperatures and geostrophic winds to estimate surface energy fluxes. <i>Journal of Geophysical Research</i> , 1995, 100, 25447.	3.3	15
40	Seasonal and interannual variations in water vapor exchange and surface water balance over a grazed steppe in central Mongolia. <i>Agricultural Water Management</i> , 2010, 97, 857-864.	5.6	15
41	Flux determination over a smooth surface under strongly unstable conditions. <i>Boundary-Layer Meteorology</i> , 1995, 73, 145-158.	2.3	14
42	Recent Low-Flow and Groundwater Storage Changes in Upland Watersheds of the Kanto Region, Japan. <i>Journal of Hydrologic Engineering - ASCE</i> , 2009, 14, 280-285.	1.9	14
43	Crop evapotranspiration in the Nile Delta under different irrigation methods. <i>Hydrological Sciences Journal</i> , 2017, 62, 1618-1635.	2.6	14
44	Natural and Anthropogenic Coastal Environmental Hazards: An Integrated Remote Sensing, GIS, and Geophysical-based Approach. <i>Surveys in Geophysics</i> , 2021, 42, 1109-1141.	4.6	14
45	Wind as a Main Driver of Spatial Variability of Surface Energy Balance Over a Shallow 10 ² km ² Scale Lake: Lake Kasumigaura, Japan. <i>Water Resources Research</i> , 2020, 56, e2020WR027173.	4.2	13
46	Evaluation of Surface Fluxes Over a Paddy Field in Tropical Environment: Some findings from a preliminary observation of GAME.. <i>Suimon Mizu Shigen Gakkaishi</i> , 1998, 11, 39-60.	0.1	12
47	How Similar are Temperature and Humidity Profiles in the Unstable Boundary Layer?. <i>Journal of Applied Meteorology and Climatology</i> , 1990, 29, 489-497.	1.7	10
48	Determination of canopy emissivity: how reliable is it?. <i>Agricultural and Forest Meteorology</i> , 1996, 81, 229-239.	4.8	10
49	Surface and Mixed-Layer Variance Methods to Estimate Regional Sensible Heat Flux at the Surface. <i>Boundary-Layer Meteorology</i> , 2003, 106, 117-145.	2.3	10
50	Wind speed measurements in upper and lower boundary layer to determine regional momentum fluxes. <i>Agricultural and Forest Meteorology</i> , 1999, 98-99, 145-158.	4.8	8
51	Limiting factors for nomadic pastoralism in Mongolian steppe: A hydrologic perspective. <i>Journal of Hydrology</i> , 2015, 524, 455-467.	5.4	7
52	Variance methods to estimate regional heat fluxes with aircraft measurements in the convective boundary layer. <i>Journal of Hydrology</i> , 2007, 333, 68-85.	5.4	6
53	Energy and Water Balance of a Pine Forest during a Bai-u and a Summer Season. <i>J Agricultural Meteorology</i> , 1984, 40, 263-267.	1.5	6
54	Regional surface momentum flux derived from atmospheric boundary layer bulk similarity approach. <i>Journal of Geophysical Research</i> , 1999, 104, 16965-16972.	3.3	5

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55	Irrigation Methods and Water Requirements in the Nile Delta. , 2017, , 125-151.		5
56	Do windbreaks reduce the water consumption of a crop field?. Agricultural and Forest Meteorology, 2018, 250-251, 330-342.	4.8	5
57	Spatial variability of the surface energy balance of Lake Kasumigaura and implications for flux measurements. Hydrological Sciences Journal, 2020, 65, 401-414.	2.6	5
58	Quantitative assessment of decadal water temperature changes in Lake Kasumigaura, a shallow turbid lake, using a one-dimensional model. Science of the Total Environment, 2022, 845, 157247.	8.0	5
59	Regional sensible heat flux and thermal roughness length of an inhomogeneous landscape. Hydrological Processes, 1998, 12, 2115-2131.	2.6	3
60	Factors Affecting Evapotranspiration of a Forest. Geographical Review of Japan, 1985, 58, 74-82.	0.2	3
61	Water Dynamics Within the Soil-“Vegetation”-Atmosphere System in a Steppe Region Covered by Shrubs and Herbaceous Plants. Structure and Function of Mountain Ecosystems in Japan, 2013, , 43-63.	0.5	2
62	Effects of enclosure on aboveground biomass, vegetation constitution, and midday gross primary productivity in semi-arid Mongolian steppe. J Agricultural Meteorology, 2010, 66, 227-236.	1.5	2
63	Concise formulae for the atmospheric correction of hemispherical thermal radiation measured near the ground surface. Water Resources Research, 2009, 45, .	4.2	1
64	International Collaboration and Cooperation through Researches of Hydrologic Science. Journal of Japanese Association of Hydrological Sciences, 2015, 45, 73-84.	0.2	1
65	A small non-research vessel as a platform for lake surface flux measurements. Hydrological Research Letters, 2021, 15, 16-22.	0.5	1
66	CHANGES IN RIVER WATER TEMPERATURE WITH RAINFALL. Chirigaku Hyoron, 1983, 56, 835-843.	0.0	1
67	How universal is the C function in the bulk atmospheric boundary layer similarity approach for estimating surface sensible heat flux?. Water Resources Research, 2009, 45, .	4.2	0