Etsushi Kato

List of Publications by Year in descending order

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Version: 2024-02-01

76294 58549 18,501 86 40 82 citations h-index g-index papers 123 123 123 21392 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Can global models provide insights into regional mitigation strategies? A diagnostic model comparison study of bioenergy in Brazil. Climatic Change, 2022, 170, 1.	1.7	7
2	Are Landâ€Use Change Emissions in Southeast Asia Decreasing or Increasing?. Global Biogeochemical Cycles, 2022, 36, .	1.9	7
3	Global Carbon Budget 2021. Earth System Science Data, 2022, 14, 1917-2005.	3.7	663
4	Job creation in response to Japan's energy transition towards deep mitigation: An extension of partial equilibrium integrated assessment models. Applied Energy, 2022, 318, 119178.	5.1	8
5	Role of negative emissions technologies (NETs) and innovative technologies in transition of Japan's energy systems toward net-zero CO2 emissions. Sustainability Science, 2021, 16, 463-475.	2.5	24
6	EMF 35 JMIP study for Japan's long-term climate and energy policy: scenario designs and key findings. Sustainability Science, 2021, 16, 355-374.	2.5	32
7	Industrial decarbonization under Japan's national mitigation scenarios: a multi-model analysis. Sustainability Science, 2021, 16, 411-427.	2.5	15
8	The role of renewables in the Japanese power sector: implications from the EMF35 JMIP. Sustainability Science, 2021, 16, 375-392.	2.5	16
9	Demand-side decarbonization and electrification: EMF 35 JMIP study. Sustainability Science, 2021, 16, 395-410.	2.5	14
10	Linking global terrestrial CO ₂ fluxes and environmental drivers: inferences from the Orbiting Carbon ObservatoryÂ2 satellite and terrestrial biospheric models. Atmospheric Chemistry and Physics, 2021, 21, 6663-6680.	1.9	10
11	Five years of variability in the global carbon cycle: comparing an estimate from the Orbiting Carbon Observatory-2 and process-based models. Environmental Research Letters, 2021, 16, 054041.	2.2	8
12	Response to Comments on "Recent global decline of CO ₂ fertilization effects on vegetation photosynthesisâ€. Science, 2021, 373, eabg7484.	6.0	15
13	Slowdown of the greening trend in natural vegetation with further rise in atmospheric CO ₂ . Biogeosciences, 2021, 18, 4985-5010.	1.3	49
14	Assessing the representation of the Australian carbon cycle in global vegetation models. Biogeosciences, 2021, 18, 5639-5668.	1.3	21
15	Global energy sector emission reductions and bioenergy use: overview of the bioenergy demand phase of the EMF-33 model comparison. Climatic Change, 2020, 163, 1553-1568.	1.7	112
16	State of the science in reconciling topâ€down and bottomâ€up approaches for terrestrial CO ₂ budget. Global Change Biology, 2020, 26, 1068-1084.	4.2	43
17	Implications of climate change mitigation strategies on international bioenergy trade. Climatic Change, 2020, 163, 1639-1658.	1.7	32
18	Key factors for achieving emission reduction goals cognizant of CCS. International Journal of Greenhouse Gas Control, 2020, 99, 103097.	2.3	12

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19	Climateâ€Driven Variability and Trends in Plant Productivity Over Recent Decades Based on Three Global Products. Global Biogeochemical Cycles, 2020, 34, e2020GB006613.	1.9	36
20	EMF-33 insights on bioenergy with carbon capture and storage (BECCS). Climatic Change, 2020, 163, 1621-1637.	1.7	30
21	Bioenergy technologies in long-run climate change mitigation: results from the EMF-33 study. Climatic Change, 2020, 163, 1603-1620.	1.7	31
22	Recent global decline of CO ₂ fertilization effects on vegetation photosynthesis. Science, 2020, 370, 1295-1300.	6.0	317
23	Causes of slowingâ€down seasonal CO ₂ amplitude at Mauna Loa. Global Change Biology, 2020, 26, 4462-4477.	4.2	14
24	Increased control of vegetation on global terrestrial energy fluxes. Nature Climate Change, 2020, 10, 356-362.	8.1	152
25	Enhanced regional terrestrial carbon uptake over Korea revealed by atmospheric CO 2 measurements from 1999 to 2017. Global Change Biology, 2020, 26, 3368-3383.	4.2	7
26	Evaluation of global terrestrial evapotranspiration using state-of-the-art approaches in remote sensing, machine learning and land surface modeling. Hydrology and Earth System Sciences, 2020, 24, 1485-1509.	1.9	130
27	Sources of Uncertainty in Regional and Global Terrestrial CO ₂ Exchange Estimates. Global Biogeochemical Cycles, 2020, 34, e2019GB006393.	1.9	59
28	Global Carbon Budget 2020. Earth System Science Data, 2020, 12, 3269-3340.	3.7	1,477
29	MIROC-INTEG-LAND version 1: a global biogeochemical land surface model with human water management, crop growth, and land-use change. Geoscientific Model Development, 2020, 13, 4713-4747.	1.3	14
30	Increased atmospheric vapor pressure deficit reduces global vegetation growth. Science Advances, 2019, 5, eaax1396.	4.7	755
31	Contrasting effects of CO ₂ fertilization, land-use change and warming on seasonal amplitude of Northern Hemisphere CO ₂ exchange. Atmospheric Chemistry and Physics, 2019, 19, 12361-12375.	1.9	30
32	Evaluation of Japanese energy system toward 2050 with TIMES-Japan – deep decarbonization pathways. Energy Procedia, 2019, 158, 4141-4146.	1.8	28
33	Negative extreme events in gross primary productivity and their drivers in China during the past three decades. Agricultural and Forest Meteorology, 2019, 275, 47-58.	1.9	40
34	Japan's long-term climate mitigation policy: Multi-model assessment and sectoral challenges. Energy, 2019, 167, 1120-1131.	4.5	59
35	Global Carbon Budget 2019. Earth System Science Data, 2019, 11, 1783-1838.	3.7	1,159
36	Plant Regrowth as a Driver of Recent Enhancement of Terrestrial CO ₂ Uptake. Geophysical Research Letters, 2018, 45, 4820-4830.	1.5	32

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37	Land use change and El Niño-Southern Oscillation drive decadal carbon balance shifts in Southeast Asia. Nature Communications, 2018, 9, 1154.	5.8	28
38	Widespread seasonal compensation effects of spring warming on northern plant productivity. Nature, 2018, 562, 110-114.	13.7	240
39	Reconciling global-model estimates and country reporting of anthropogenic forest CO2 sinks. Nature Climate Change, 2018, 8, 914-920.	8.1	101
40	Impact of the 2015/2016 El Ni $ ilde{A}$ \pm o on the terrestrial carbon cycle constrained by bottom-up and top-down approaches. Philosophical Transactions of the Royal Society B: Biological Sciences, 2018, 373, 20170304.	1.8	63
41	Global Carbon Budget 2018. Earth System Science Data, 2018, 10, 2141-2194.	3.7	1,167
42	Global Carbon Budget 2017. Earth System Science Data, 2018, 10, 405-448.	3.7	801
43	Historical carbon dioxide emissions caused by land-use changes are possibly larger than assumed. Nature Geoscience, 2017, 10, 79-84.	5.4	284
44	Compensatory water effects link yearly global land CO2 sink changes to temperature. Nature, 2017, 541, 516-520.	13.7	480
45	Emission pathways to achieve 2.0°C and 1.5°C climate targets. Earth's Future, 2017, 5, 592-604.	2.4	28
46	A Sustainable Pathway of Bioenergy with Carbon Capture and Storage Deployment. Energy Procedia, 2017, 114, 6115-6123.	1.8	7
47	Land-use and land-cover change carbon emissions between 1901 and 2012 constrained by biomass observations. Biogeosciences, 2017, 14, 5053-5067.	1.3	58
48	The Paris Agreement and Climate Change Countermeasure Technologies. Kagaku Kogaku Ronbunshu, 2017, 43, 171-177.	0.1	0
49	Establishment of a simple method to search natural products that suppress $\hat{l}\pm$ -glucosidase amount in intestinal epithelial cell. Planta Medica International Open, 2017, 4, .	0.3	0
50	Role of CO ₂ , climate and land use in regulating the seasonal amplitude increase of carbon fluxes in terrestrial ecosystems: a multimodel analysis. Biogeosciences, 2016, 13, 5121-5137.	1.3	26
51	The carbon cycle in Mexico: past, present and future of C stocks and fluxes. Biogeosciences, 2016, 13, 223-238.	1.3	24
52	The terrestrial carbon budget of South and Southeast Asia. Environmental Research Letters, 2016, 11, 105006.	2.2	39
53	Precipitation and carbon-water coupling jointly control the interannual variability of global land gross primary production. Scientific Reports, 2016, 6, 39748.	1.6	57
54	Greening of the Earth and its drivers. Nature Climate Change, 2016, 6, 791-795.	8.1	1,675

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55	Increased climate risk in Brazilian double cropping agriculture systems: Implications for land use in Northern Brazil. Agricultural and Forest Meteorology, 2016, 228-229, 286-298.	1.9	75
56	Regional carbon fluxes from land use and land cover change in Asia, 1980–2009. Environmental Research Letters, 2016, 11, 074011.	2.2	31
57	Biophysical and economic limits to negative CO2 emissions. Nature Climate Change, 2016, 6, 42-50.	8.1	973
58	Global Carbon Budget 2016. Earth System Science Data, 2016, 8, 605-649.	3.7	905
59	Decomposing uncertainties in the future terrestrial carbon budget associated with emission scenarios, climate projections, and ecosystem simulations using the ISI-MIP results. Earth System Dynamics, 2015, 6, 435-445.	2.7	40
60	The dominant role of semi-arid ecosystems in the trend and variability of the land CO ₂ sink. Science, 2015, 348, 895-899.	6.0	1,002
61	Current status and future of land surface models. Soil Science and Plant Nutrition, 2015, 61, 34-47.	0.8	13
62	Global Carbon Budget 2015. Earth System Science Data, 2015, 7, 349-396.	3.7	616
63	Global carbon budget 2014. Earth System Science Data, 2015, 7, 47-85.	3.7	463
64	Global and regional effects of land-use change on climate in 21st century simulations with interactive carbon cycle. Earth System Dynamics, 2014, 5, 309-319.	2.7	65
65	Quantifying uncertainties in soil carbon responses to changes in global mean temperature and precipitation. Earth System Dynamics, 2014, 5, 197-209.	2.7	53
66	Modeling in Earth system science up to and beyond IPCC AR5. Progress in Earth and Planetary Science, 2014, 1 , .	1.1	27
67	Global carbon budget 2013. Earth System Science Data, 2014, 6, 235-263.	3.7	311
68	<scp>BECCS</scp> capability of dedicated bioenergy crops under a future landâ€use scenario targeting net negative carbon emissions. Earth's Future, 2014, 2, 421-439.	2.4	52
69	Effect of Anthropogenic Land-Use and Land-Cover Changes on Climate and Land Carbon Storage in CMIP5 Projections for the Twenty-First Century. Journal of Climate, 2013, 26, 6859-6881.	1.2	329
70	Evaluation of spatially explicit emission scenario of land-use change and biomass burning using a process-based biogeochemical model. Journal of Land Use Science, 2013, 8, 104-122.	1.0	104
71	Twenty-First-Century Compatible CO2 Emissions and Airborne Fraction Simulated by CMIP5 Earth System Models under Four Representative Concentration Pathways. Journal of Climate, 2013, 26, 4398-4413.	1.2	248
72	The global carbon budget 1959–2011. Earth System Science Data, 2013, 5, 165-185.	3.7	527

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73	Climate Change, Allowable Emission, and Earth System Response to Representative Concentration Pathway Scenarios. Journal of the Meteorological Society of Japan, 2012, 90, 417-434.	0.7	12
74	Development of spatially explicit emission scenario from land-use change and biomass burning for the input data of climate projection. Procedia Environmental Sciences, 2011, 6, 146-152.	1.3	8
75	An emission pathway for stabilization at 6ÂWmâ^2 radiative forcing. Climatic Change, 2011, 109, 59-76.	1.7	270
76	MIROC-ESM 2010: model description and basic results of CMIP5-20c3m experiments. Geoscientific Model Development, 2011, 4, 845-872.	1.3	1,070
77	Competitive effects of the exotic Bombus terrestris on native bumble bees revealed by a field removal experiment. Population Ecology, 2010, 52, 123-136.	0.7	26
78	Investigating the rankâ€size relationship of urban areas using land cover maps. Geophysical Research Letters, 2008, 35, .	1.5	7
79	Abundance, body size, and morphology of bumblebees in an area where an exotic species, Bombus terrestris, has colonized in Japan. Ecological Research, 2007, 22, 331-341.	0.7	18
80	Allocation of Resources to Reproduction in Styrax obassia in a Masting Year. Annals of Botany, 2002, 89, 767-772.	1.4	86
81	Fruit set in Styrax obassia (Styracaceae): the effect of light availability, display size, and local floral density. American Journal of Botany, 1999, 86, 495-501.	0.8	42
82	Fruit set in Styrax obassia (Styracaceae): the effect of light availability, display size, and local floral density. American Journal of Botany, 1999, 86, 495-501.	0.8	10
83	Enterotoxigenicity of Staphylococcus aureus Strains Isolated from Chickens. Journal of Food Protection, 1980, 43, 683-686.	0.8	26
84	Putting Costs of Direct Air Capture in Context. SSRN Electronic Journal, 0, , .	0.4	28
85	Role of NETs and carbon recycling technologies in the transitions of Japan's energy systems toward net-zero CO2 emissions goal. SSRN Electronic Journal, 0, , .	0.4	1
86	Efficient and Sustainable Use of Technologies and Feedstock for Beccs Deployment in Mitigation Pathways. SSRN Electronic Journal, 0, , .	0.4	0