

David Kraus

List of Publications by Year in descending order

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29
papers

699
citations

643344

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1199
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#	ARTICLE	IF	CITATIONS
1	Modeling Intra- and Interannual Variability of BVOC Emissions From Maize, Oilseed Rape, and Ryegrass. <i>Journal of Advances in Modeling Earth Systems</i> , 2022, 14, .	1.3	2
2	Significant Global Yield-Gap Closing Is Possible Without Increasing the Intensity of Environmentally Harmful Nitrogen Losses. <i>Frontiers in Sustainable Food Systems</i> , 2022, 6, .	1.8	3
3	Greenhouse Gas Mitigation Potential of Alternate Wetting and Drying for Rice Production at National Scale—A Modeling Case Study for the Philippines. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2022, 127, .	1.3	5
4	Modeling gas exchange and biomass production in West African Sahelian and Sudanian ecological zones. <i>Geoscientific Model Development</i> , 2021, 14, 3789-3812.	1.3	3
5	Dynamic simulation of management events for assessing impacts of climate change on pre-alpine grassland productivity. <i>European Journal of Agronomy</i> , 2021, 128, 126306.	1.9	14
6	Beyond livestock carrying capacity in the Sahelian and Sudanian zones of West Africa. <i>Scientific Reports</i> , 2021, 11, 22094.	1.6	5
7	Simulating Long-Term Development of Greenhouse Gas Emissions, Plant Biomass, and Soil Moisture of a Temperate Grassland Ecosystem under Elevated Atmospheric CO ₂ . <i>Agronomy</i> , 2020, 10, 50.	1.3	11
8	Approaches and concepts of modelling denitrification: increased process understanding using observational data can reduce uncertainties. <i>Current Opinion in Environmental Sustainability</i> , 2020, 47, 37-45.	3.1	26
9	Dynamic coupling of allometric ratios to a process-based forest growth model for estimating the impacts of stand density changes. <i>Forestry</i> , 2020, 93, 601-615.	1.2	7
10	New records of very high nitrous oxide fluxes from rice cannot be generalized for water management and climate impacts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 1464-1465.	3.3	14
11	Constraining N cycling in the ecosystem model LandscapeDNDC with the stable isotope model SIMONE. <i>Ecology</i> , 2019, 100, e02675.	1.5	16
12	Greenhouse gas footprint of diversifying rice cropping systems: Impacts of water regime and organic amendments. <i>Agriculture, Ecosystems and Environment</i> , 2019, 270-271, 41-54.	2.5	36
13	Closing the N-Budget: How Simulated Groundwater-Borne Nitrate Supply Affects Plant Growth and Greenhouse Gas Emissions on Temperate Grassland. <i>Atmosphere</i> , 2018, 9, 407.	1.0	5
14	Postfire nitrogen balance of Mediterranean shrublands: Direct combustion losses versus gaseous and leaching losses from the postfire soil mineral nitrogen flush. <i>Global Change Biology</i> , 2018, 24, 4505-4520.	4.2	29
15	Importance of soil NO emissions for the total atmospheric NO _x budget of Saxony, Germany. <i>Atmospheric Environment</i> , 2017, 152, 61-76.	1.9	21
16	Exploring impacts of vegetated buffer strips on nitrogen cycling using a spatially explicit hydro-biogeochemical modeling approach. <i>Environmental Modelling and Software</i> , 2017, 90, 55-67.	1.9	17
17	Rejecting hydro-biogeochemical model structures by multi-criteria evaluation. <i>Environmental Modelling and Software</i> , 2017, 93, 1-12.	1.9	19
18	Constraining a complex biogeochemical model for CO ₂ and N ₂ O emission simulations from various land uses by model-data fusion. <i>Biogeosciences</i> , 2017, 14, 3487-3508.	1.3	16

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19	How well can we assess impacts of agricultural land management changes on the total greenhouse gas balance (CO ₂ , CH ₄ and N ₂ O) of tropical rice-cropping systems with a biogeochemical model?. Agriculture, Ecosystems and Environment, 2016, 224, 104-115.	2.5	27
20	Greenhouse gas emissions and global warming potential of traditional and diversified tropical rice rotation systems. Global Change Biology, 2016, 22, 432-448.	4.2	129
21	A modeling study on mitigation of N ₂ O emissions and NO ₃ leaching at different agricultural sites across Europe using LandscapeDNDC. Science of the Total Environment, 2016, 553, 128-140.	3.9	52
22	Impacts of management and climate change on nitrate leaching in a forested karst area. Journal of Environmental Management, 2016, 165, 243-252.	3.8	45
23	Diurnal patterns of methane emissions from paddy rice fields in the Philippines. Journal of Plant Nutrition and Soil Science, 2015, 178, 755-767.	1.1	17
24	Simulation of CO ₂ Fluxes in European Forest Ecosystems with the Coupled Soil-Vegetation Process Model "LandscapeDNDC". Forests, 2015, 6, 1779-1809.	0.9	18
25	A new LandscapeDNDC biogeochemical module to predict CH ₄ and N ₂ O emissions from lowland rice and upland cropping systems. Plant and Soil, 2015, 386, 125-149.	1.8	52
26	Methane and nitrous oxide emissions from rice and maize production in diversified rice cropping systems. Nutrient Cycling in Agroecosystems, 2015, 101, 37-53.	1.1	74
27	Estimation and mitigation of N ₂ O emission and nitrate leaching from intensive crop cultivation in the Hae-an catchment, South Korea. Science of the Total Environment, 2015, 529, 40-53.	3.9	30
28	Simulation of Land Management Effects on Soil N ₂ O Emissions Using a Coupled Hydrology-Biogeochemistry Model on the Landscape Scale. , 2015, , 2207-2231.		0
29	Parameter-Induced Uncertainty Quantification of Regional N ₂ O Emissions and NO ₃ Leaching using the Biogeochemical Model LandscapeDNDC. Advances in Agricultural Systems Modeling, 0, , 149-171.	0.3	2