

Lucas J Menzel

List of Publications by Year in descending order

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Version: 2024-02-01

49
papers

1,672
citations

377584

21
h-index

371746

37
g-index

50
all docs

50
docs citations

50
times ranked

2596
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Remobilization of pollutants during extreme flood events poses severe risks to human and environmental health. <i>Journal of Hazardous Materials</i> , 2022, 421, 126691. | 6.5 | 43 |
| 2 | Hydrological variability in southern Siberia and the role of permafrost degradation. <i>Journal of Hydrology</i> , 2022, 604, 127203. | 2.3 | 11 |
| 3 | Mapping snow cover in forests using optical remote sensing, machine learning and time-lapse photography. <i>Remote Sensing of Environment</i> , 2022, 275, 113017. | 4.6 | 15 |
| 4 | Different drought types and the spatial variability in their hazard, impact, and propagation characteristics. <i>Natural Hazards and Earth System Sciences</i> , 2022, 22, 2099-2116. | 1.5 | 17 |
| 5 | Performance Assessment of Optical Satellite-Based Operational Snow Cover Monitoring Algorithms in Forested Landscapes. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2021, 14, 7159-7178. | 2.3 | 41 |
| 6 | The development and persistence of soil moisture stress during drought across southwestern Germany. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 2009-2025. | 1.9 | 11 |
| 7 | Separating the effects of climate change and human activities on drought propagation via a natural and human-impacted catchment comparison method. <i>Journal of Hydrology</i> , 2021, 603, 126913. | 2.3 | 38 |
| 8 | Recent snow cover changes over central European low mountain ranges. <i>Hydrological Processes</i> , 2020, 34, 321-338. | 1.1 | 23 |
| 9 | The Combination of Wildfire and Changing Climate Triggers Permafrost Degradation in the Khentii Mountains, Northern Mongolia. <i>Atmosphere</i> , 2020, 11, 155. | 1.0 | 11 |
| 10 | Ground surface temperature variability and permafrost distribution over mountainous terrain in northern Mongolia. <i>Arctic, Antarctic, and Alpine Research</i> , 2020, 52, 13-26. | 0.4 | 12 |
| 11 | Estimating daily average net radiation in Northern Mongolia. <i>Geografiska Annaler, Series A: Physical Geography</i> , 2019, 101, 177-194. | 0.6 | 3 |
| 12 | Role of Surface Melt and Icing Events in Livestock Mortality across Mongolia's Semi-Arid Landscape. <i>Remote Sensing</i> , 2019, 11, 2392. | 1.8 | 6 |
| 13 | Multi-Source Based Spatio-Temporal Distribution of Snow in a Semi-Arid Headwater Catchment of Northern Mongolia. <i>Geosciences (Switzerland)</i> , 2019, 9, 53. | 1.0 | 11 |
| 14 | Probabilistic dependence between streamflow and hydroclimatic variables and the possible linkages to large-scale atmospheric circulation: A case study in Baden-Württemberg, Southwest Germany. <i>Journal of Hydrology</i> , 2018, 565, 443-454. | 2.3 | 2 |
| 15 | Effects of wildfire on runoff generating processes in northern Mongolia. <i>Regional Environmental Change</i> , 2017, 17, 1951-1963. | 1.4 | 23 |
| 16 | Snow process monitoring in montane forests with time-lapse photography. <i>Hydrological Processes</i> , 2017, 31, 2872-2886. | 1.1 | 16 |
| 17 | Water research in Germany: from the reconstruction of the Roman Rhine to a risk assessment for aquatic neophytes. <i>Environmental Earth Sciences</i> , 2017, 76, 1. | 1.3 | 5 |
| 18 | Hochwasser und Sturzfluten an Flüssen in Deutschland. , 2017, , 87-101. | | 4 |

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|----|--|-----|-----------|
| 19 | Temporal dynamics and spatial patterns of drought and the relation to ENSO: a case study in Northwest China. <i>International Journal of Climatology</i> , 2016, 36, 2886-2898. | 1.5 | 60 |
| 20 | Producing cloud-free MODIS snow cover products with conditional probability interpolation and meteorological data. <i>Remote Sensing of Environment</i> , 2016, 186, 439-451. | 4.6 | 50 |
| 21 | A probabilistic prediction network for hydrological drought identification and environmental flow assessment. <i>Water Resources Research</i> , 2016, 52, 6243-6262. | 1.7 | 49 |
| 22 | Analysis and simulation of the water and energy balance of intense agriculture in the Upper Rhine valley, south-west Germany. <i>Environmental Earth Sciences</i> , 2016, 75, 1. | 1.3 | 10 |
| 23 | Identifying long-term variations in vegetation and climatic variables and their scale-dependent relationships: A case study in Southwest Germany. <i>Global and Planetary Change</i> , 2016, 147, 54-66. | 1.6 | 46 |
| 24 | Improving the accuracy of MODIS 8-day snow products with in situ temperature and precipitation data. <i>Journal of Hydrology</i> , 2016, 534, 466-477. | 2.3 | 24 |
| 25 | Tracing variability of runoff generation in mountainous permafrost of semi-arid north-eastern Mongolia. <i>Hydrological Processes</i> , 2015, 29, 1046-1055. | 1.1 | 16 |
| 26 | Science-Based IWRM Implementation in a Data-Scarce Central Asian Region: Experiences from a Research and Development Project in the Kharaa River Basin, Mongolia. <i>Water (Switzerland)</i> , 2015, 7, 3486-3514. | 1.2 | 21 |
| 27 | Evapotranspiration and energy balance dynamics of a semi-arid mountainous steppe and shrubland site in Northern Mongolia. <i>Environmental Earth Sciences</i> , 2015, 73, 593-609. | 1.3 | 37 |
| 28 | Addressing drought conditions under current and future climates in the Jordan River region. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 305-318. | 1.9 | 78 |
| 29 | Soil Moisture Dynamics in a Mountainous Headwater Area in the Discontinuous Permafrost Zone of northern Mongolia. <i>Arctic, Antarctic, and Alpine Research</i> , 2014, 46, 459-470. | 0.4 | 28 |
| 30 | Leaf area index as a function of precipitation within a hydrological model. <i>Hydrology Research</i> , 2014, 45, 660-672. | 1.1 | 7 |
| 31 | INTEGRATING MULTI-SCALE DATA FOR THE ASSESSMENT OF WATER AVAILABILITY AND QUALITY IN THE KHARAA-ORKHON-SELENGA RIVER SYSTEM. <i>Geography, Environment, Sustainability</i> , 2014, 7, 65-86. | 0.6 | 4 |
| 32 | INTEGRATING MULTI-SCALE DATA FOR THE ASSESSMENT OF WATER AVAILABILITY AND QUALITY IN THE KHARAA - ORKHON - SELENGA RIVER SYSTEM. <i>Geography, Environment, Sustainability</i> , 2014, 7, 65-86. | 0.6 | 20 |
| 33 | INTEGRATING MULTI-SCALE DATA FOR THE ASSESSMENT OF WATER AVAILABILITY AND QUALITY IN THE KHARAA - ORKHON - SELENGA RIVER SYSTEM. <i>Geography, Environment, Sustainability</i> , 2014, 7, 65-86. | 0.6 | 6 |
| 34 | Modeling the water resources of the Black and Mediterranean Sea river basins and their impact on regional mass changes. <i>Journal of Geodynamics</i> , 2012, 59-60, 157-167. | 0.7 | 15 |
| 35 | Swiss prealpine Rietholzbach research catchment and lysimeter: 32 year time series and 2003 drought event. <i>Water Resources Research</i> , 2012, 48, . | 1.7 | 96 |
| 36 | The aesthetics of water and land: a promising concept for managing scarce water resources under climate change. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2010, 368, 5323-5337. | 1.6 | 29 |

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|----|---|------|-----------|
| 37 | Current state and future development of blue water availability and blue water demand: A view at seven case studies. <i>Journal of Hydrology</i> , 2010, 384, 245-263. | 2.3 | 40 |
| 38 | Impact of Climate Change on the Regional Hydrology – Scenario-Based Modelling Studies in the German Rhine Catchment. <i>Natural Hazards</i> , 2006, 38, 45-61. | 1.6 | 52 |
| 39 | Summer Floods in Central Europe – Climate Change Track?. <i>Natural Hazards</i> , 2005, 36, 165-189. | 1.6 | 186 |
| 40 | Natural flood reduction strategies – a challenge. <i>International Journal of River Basin Management</i> , 2005, 3, 125-131. | 1.5 | 23 |
| 41 | Special Issue – ‘Advances in Flood Research’, <i>Journal of Hydrology</i> , 2002, 267, 1. | 2.3 | 5 |
| 42 | Climate change scenarios and runoff response in the Mulde catchment (Southern Elbe, Germany). <i>Journal of Hydrology</i> , 2002, 267, 53-64. | 2.3 | 199 |
| 43 | Coping with variability and change: Floods and droughts. <i>Natural Resources Forum</i> , 2002, 26, 263-274. | 1.8 | 45 |
| 44 | Energy Balance and Evapotranspiration in a High Mountain Area during Summer. <i>Journal of Applied Meteorology and Climatology</i> , 1997, 36, 966-973. | 1.7 | 18 |
| 45 | Modelling canopy resistances and transpiration of grassland. <i>Physics and Chemistry of the Earth</i> , 1996, 21, 123-129. | 0.3 | 20 |
| 46 | Model-based scenarios of Mediterranean droughts. <i>Advances in Geosciences</i> , 0, 12, 145-151. | 12.0 | 33 |
| 47 | A global comparison of four potential evapotranspiration equations and their relevance to stream flow modelling in semi-arid environments. <i>Advances in Geosciences</i> , 0, 18, 15-23. | 12.0 | 105 |
| 48 | Distributed modelling of climate change impacts on snow sublimation in Northern Mongolia. <i>Advances in Geosciences</i> , 0, 21, 117-124. | 12.0 | 24 |
| 49 | Modelling the effects of land-use and land-cover change on water availability in the Jordan River region. <i>Advances in Geosciences</i> , 0, 21, 73-80. | 12.0 | 31 |