

LISTE DER VERÖFFENTLICHUNGEN

Peer-reviewed articles

2021

Kärcher, O., Flörke, M., Markovic, D. (2021)

Different life stage, different risks: Thermal performance across the life cycle of *Salmo trutta* and *Salmo salar* in the face of climate change

Ecology and Evolution

Virkki, V., Alanära, E., Porkka, M., Ahopelto, L., Gleeson, T., Mohan, C., Wang-Erlandsson, L., Flörke, M., Gerten, D., Gosling, S.N., Hanasaki, N., Müller Schmied, H., Kummu, M. (2021)

Environmental flow envelopes: quantifying global, ecosystem-threatening streamflow alterations

Hydrology and Earth System Sciences Discussions, 1-31

Nagy, S., Breiner, F.T., Anand, M., Butchart, S.H.M., Flörke, M., Fluet-Chouinard, E., Guisan, A., Hilarides, L., Jones, V.R., Kalyakin, M., Lehner, B., Pearce-Higgins, J.W., Voltzit, O. (2021)

Climate change exposure of waterbird species in the African-Eurasian flyways

Bird Conservation International, 1-26

Vega-Rodríguez, M.A., Pérez, C.J., Reder, K., Flörke, M. (2021)

A stage-based approach to allocating water quality monitoring stations based on the WorldQual model: The Jubba River as a case study

Science of The Total Environment 762, 144162

Mueller Schmied, H., Cáceres, D., Eisner, S., Floerke, M., Herbert, C., Niemann, C., Asali Peiris, T., Popat, E., Portmann, F.T., Reinecke, R., Schumacher, M., Shadkam, S., Telteu C.E., Trautmann, T., Doell, P. (2021)

The global water resources and use model WaterGAP v2. 2d: Model description and evaluation

GEOSCIENTIFIC MODEL DEVELOPMENT 14 (2), 1037-1079

Reinecke, R., Müller Schmied, H., Trautmann, T., Seaby Andersen, L., Burek, P., Flörke, M., Gosling, S.N., Grillakis, M., Hanasaki, N., Koutroulis, A., Pokhrel, Y., Thiery, W., Wada, Y., Yusuke, S., Petra Döll, P. (2021)

Uncertainty of simulated groundwater recharge at different global warming levels: a global-scale multi-model ensemble study

Hydrology and Earth System Sciences 25 (2), 787-810

van Vliet, M.T.H., Jones, E.R., Flörke, M., Franssen, W.H.P., Hanasaki, N., Wada, Y., Yearsley, J.R. (2021)

Global water scarcity including surface water quality and expansions of clean water technologies

Environmental Research Letters 16 (2), 024020

Schomberg, A.C., Bringezu, S., Flörke, M. (2021)

Extended life cycle assessment reveals the spatially-explicit water scarcity footprint of a lithium-ion battery storage

Communications Earth & Environment 2 (1), 1-10

2020

Terrapon-Pfaff, J.C., Ortiz, W., Viebahn, P., Kynast, E., Flörke, M.

Water demand scenarios for electricity generation at the global and regional levels

Water 12 (9), 2482

Gleeson, T., Wang-Erlandsson, L., Porkka, M., Zipper, S.C., Jaramillo, F., Gerten, D., Fetzer, I., Cornell, S.E., Piemontese, L., Gordon, L.J., Rockström, J., Oki, T., Sivapalan, M., Wada, Y., Brauman,

K.A., Flörke, M., Bierkens, M.F.P., Lehner, B., Keys, P., Kummu, M., Wagener, T., Dadson, S., Troy, T.J., Steffen, W., Falkenmark, M., Famiglietti, J.S. (2020)

Illuminating water cycle modifications and Earth system resilience in the Anthropocene
Water Resources Research 56 (4), e2019WR024957

Gleeson, T., Wang-Erlandsson, L., Zipper, S.C., Porkka, M., Jaramillo, F., Gerten, D., Fetzer, I., Cornell, S.E., Piemontese, L., Gordon, L.J., Rockström, J., Oki, T., Sivapalan, M., Wada, Y., Brauman, K.A., Flörke, M., Bierkens, M.F.P., Lehner, B., Keys, P., Kummu, M., Wagener, T., Dadson, S., Troy, T.J., Steffen, W., Falkenmark, M., Famiglietti, J.S. (2020)

The water planetary boundary: interrogation and revision
One Earth 2 (3), 223-234

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Johnson, N., Burek, P., Byers, E., Falchetta, G., Flörke, M., Fujimori, S., Havlik, P., Hejazi, M., Hunt, J., Krey, V., Langan, S., Nakicenovic, N., Palazzo, A., Popp, A., Riahi, K., van Dijk, M., van Vliet, M.T.H., van Vuuren, D.P., Wada, Y., Wiberg, D., Willaarts, B., Zimm, C., Parkinson, S. (2019)
Integrated solutions for the Water-Energy-Land Nexus: Are global models rising to the challenge?
Water 11 (11), 2223

Liu, X., Liu, W., Yang, H., Tang, Q., Flörke, M., Masaki, Y., Müller Schmied, H., Ostberg, S., Pokhrel, Y., Satoh, Y., Wada, W. (2019)

Multimodel assessments of human and climate impacts on mean annual streamflow in China
Hydrology and Earth System Sciences 23 (3), 1245-1261

Fronzek, S., Carter, T.R., Pirttioja, N., Alkemade, R., Audsley, E., Bugmann, H., Flörke, M., Holman, I., Honda, Y., Ito, A., Janes-Bassett, V., Lafond, V., Leemans, R., Mokrech, M., Nunez, S., Sandars, D., Snell, R., Takahashi, K., Tanaka, A., Wimmer, F., Yoshikawa, M. (2019)

Determining sectoral and regional sensitivity to climate and socio-economic change in Europe using impact response surfaces
Regional environmental change 19 (3), 679-693

Flörke, M., Bärlund, I., van Vliet, M.T.H., Bouwman, A.F., Wada, Y. (2019)

Analysing trade-offs between SDGs related to water quality using salinity as a marker
Current Opinion in Environmental Sustainability 36, 96-104

Hofstra, N., Vermeulen, L.C., Derx, J., Flörke, M., Mateo-Sagasta, J., Rose, J., Medema, G. (2019)
Priorities for developing a modelling and scenario analysis framework for waterborne pathogen concentrations in rivers worldwide and consequent burden of disease
Current Opinion in Environmental Sustainability 36, 28-38

van Vliet, M.T.H., Flörke, M., Harrison, J.A., Hofstra, N., Keller, V., Ludwig, F., Emiel Spanier, J., Strokal, M., Wada, Y., Wen, Y., Williams, R.J. (2019)

Model inter-comparison design for large-scale water quality models
Current Opinion in Environmental Sustainability 36, 59-67

Strokal, M., Spanier, J.E., Kroeze, C., Koelmans, A.A., Flörke, M., Franssen, W., Hofstra, N., Langan, S., Tang, T., van Vliet, M.T.H., Wada, Y., Wang, M., van Wijnen, J., Williams, R.J. (2019)

Global multi-pollutant modelling of water quality: scientific challenges and future directions.
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Hofstra, N., Kroeze, C., Flörke, M., van Vliet, M.T.H. (2019)

Editorial overview: Water quality: A new challenge for global scale model development and application

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Determining sectoral and regional sensitivity to climate and socio-economic change in Europe using impact response surfaces

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Berger, M., Eisner, S., van der Ent, R., Flörke, M., Link, A., Poligkeit, J., Bach, V., Finkenbeiner, M. (2018)

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Environmental Science & Technology 52 (18), 10757-10766

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Phosphorus loadings to the world's largest lakes: sources and trends

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Hattermann, F.F., Vetter, T., Breuer, L., Su, B., Daggupati, P., Donnelly, C., Fekete, B., Flörke, M., Gosling, S.N., Hoffmann, P., Liersch, S., Masaki, Y., Motovilov, Y., Müller, C., Samaniego, L., Stacke, T., Wada, Y., Yang, T., Krysnova, V. (2018)

Sources of uncertainty in hydrological climate impact assessment: a cross-scale study

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