# Bronstert, Axel, Prof. Dr.-Ing. CV (state of September 2023)

ORCID 0000-0002-6369-8536 WoS Researcher-ID: AAA-3314-2022

## Personal data

Name	Axel Bronstert, Prof. DrIng.
Affiliation	University of Potsdam Institute of Environmental Sciences Karl-Liebknecht-Str. 24-25 14476 Potsdam Germany
Phone	+49 (0)331 977-2584
Email	axelbron@uni-potsdam.de
Nationality	German
Date of birth	October 23, 1959
Education	
1988 - 1993	PhD in Hydrology at Karlsruhe Institute of Technology (summa cum laude); "Ehrensenator Huber Prize 1995" for an excellent dissertation
10/1986 - 3/1988	Research Scholar, Japanese Ministry for Res. & Education, Kyoto Univ., Japan
1980 (6 months)	Internship: 'HydroPlan' Hydro-Engineering Consultant, Herdecke, Germany
1981 (6 months)	Internship: German Agency for Technical Co-operation (GTZ), Germany (member of an international advisory group in the Republic of Zambia)
1979 - 1986	Studies of Civil Eng. and Water Resources at Karlsruhe Inst. of Technology
Language skills	German (mother tongue); English (fluent), French (intermediate), Spanish (intermediate)
Professional Caree	r (incl. side- and conjunct appointments)
2002 – today	Professor (W3) for Hydrology & Climatology at the University of Potsdam
2003 – today:	co-chair, Hydrology Group, Potsdam-Inst. for Climate Impact Research (PIK)
09/05 - 02/06	Visiting Professor, Dept. for Geosc. & Geoeng. TU Catalunya, Barcelona, Spain
02/00 - 10/02	Professor (C3) at the Institute for Geoecology, University of Potsdam
1995 - 2000	Research assistant at the Potsdam Inst. for Climate Impact Research (PIK)
1995 - 1999	Conjunct lecturer at the Technical Univ. Berlin and the Free Univ. of Berlin
01/95 - 02/95	Guest Scientist and Lecturer: CSIRO for Land and Water; Canberra, Australia
10/91 - 01/92	Visiting Lecturer at the Asian Institute of Technolgy (AIT), Bangkok, Thaliand
1988 - 1995	Research assistant at the Institute for Hydrology and Water Resources Management, University of Karlsruhe (hydrological modelling; water resources management)

## Supervised PhD-Thesis (2001 – 2023)

- 34 accomplished and 6 ongoing PhD-Thesis as main supervisor
- 62 accomplished PhD-Thesis and 3 ongoing as 2<sup>nd</sup> supervisor or reviewer

## Positions in scientific committees and academic units (selection)

Since 10/2021 Vice-President of the G	Forman Hydrological Society (DHG)
	ierman riyurologicai society (Drio)
10/2020 – 09/2021 Director Inst. for Enviro	onmental Sciences & Geography, Univ. of Potsdam
•	rd (SAB) of the Research Field "Earth and uhe Institute of Technology (KIT)
2015 – 2023 Scientific Advisory Boa	rd of the German Weather Service (DWD)
2015 – 2020 Speaker of the DFG-Re Risks in a Changing Wo	search and Training Group Natural Hazards and orld (NatRiskChange)
since 05/2012 – Member of the water s 04/2020 Foundation (DFG)	science review board (FK 318) of the German Science
10/2014-09/2015 Director of the Inst. for	Earth & Environmental Sciences, Univ. of Potsdam
since 02/2013 Member of the govern	ing board of the Water Science Alliance (WSA)
2011 - 2019 Member of the Commi Science Foundation (D	ssion on Water Research (KOWA) of German FG)
since 05/2010 Vice-Chair, Potsdam-Bo	erlin Consortium for Geo-Sciences Research 'Geo.X'
09/2011– 09/2014 President of the Germa	an Hydrological Society (DHG)
	ational Working Group on Development and Cali- dro-Ecological/Atmospheric Models of IHP/UNESCO
1997 – 2004 Chairman of the Worki	ng Group Runoff of DVWK (German Water Society)
1996 – 2000 Steering Committee fo	r Flood Mitigation of the European Commission

## **Resume**

Prof. Axel Bronstert holds the Chair of Hydrology and Climatology at University of Potsdam, and has 29 years of professional experience with a methodological focus in hydrological modelling and forecasting, hydrological field investigations, integrated modelling and hydraulic modelling. He has jointly worked in comprehensive research and applied projects, both nationally and internationally. He has published extensively over the past years on hydrological, hydro-climatological and interdisciplinary hydro-scientific issues. He is associated editor of two leading international hydrological journals. He was Visiting Professor at the Technical Univ. of Catalonia (Barcelona), Appl. Geosciences Dept. in 2005 and has won three academic prizes. He is member of the water science review board of the German Science Foundation (DFG) and was president of the German Hydrological Society (DHG) 2011 - 2014. His teaching activities comprise Basic Hydrology, Introduction in Climatology, Advanced Surface Hydrology, Hydrological end Geoecological Modelling; Open Channel Hydraulics; Water Management; Global Water Resources; Hydrological Processes.

Prof. Bronstert has been active in several technical and applied consulting projects regarding water management and hydrological risk assessment, mainly in international context, i.e. in Australia, Brazil, Chile, Congo, Mali, Netherlands, Philippines, Spain, Thailand, Zambia. In addition, he has ongoing collaborations with the Potsdam-Institute for Climate Impact Research (PIK), where he is involved in regional hydrological modelling and hydrological impact assessments.

## Areas of scientific and technical expertise

River-catchment interactions,
Phenomena of environmental change (such as climate and land-use changes)
Assessment and forecasting of hydrological hazards / extremes
Integrated flood-risk analysis
Climate Change Impacts on Hydro-systems
Climate – Water Interactions

## **Conducted Projects**

Funding organisation and duration	Project – Title and subject	Position
BMBF (2023 – 2025)	Development and transfer of a Seamless Prediction System for decision support in transboundary water management of the Blue Nile (SPS-Blue Nile): "Hydro-sedimentological component of a seamless prediction system for the Blue Nile area"	PI
DFG 10/2015 – 09/2024	Research and Training Group on "Natural Hazards and Risks in a Changing World", (NatRiskChange): including 3 PhD-Projects:  - Transient merging of Rhine flow regimes from climate change (09/2017 -10/22)  - Altered hydrological and sediment dynamics in high-alpine areas (10/2018 - 6/23)  - Changing water and energy conditions and their relevance for water and sediment pulses in Alpine areas (since 10/2021)	Speaker (2015-2020) & Co-Speaker (2020 – 2024)
Worldbank (01/2022 – 06 2023)	Support the improvement of water security and the strengthening of smart public water management in the State of Ceará	PI
BMBF (04/2021 – 03/2024)	Innovative Instrumente zum Management des Urbanen Starkregenrisikos (Inno_MAUS)	PI
DAAD (10/2022-09/2025)	Impacts of reservoir networks on rivers in the Ballans	Co_PI
VW-Foundation (10/2022 – 09/2023)	Analysis of the availability of water resources in Ukraine taking into account climate variability for the reconstruction of the destroyed water sector in the postwar period	PI, jointly with Prof. Snizhko
DAAD (12/2021-11/2024)	Understanding spatiotemporal variability of meteorological and hydrological droughts and seasonal forecasting over Peruvian Andes	PI
Geo.X 06/2022 – 12/2022	Warming Water Towers – The Leaking Roof of the World	PI
DAAD & UGC, India (2020 – 2024)	Co-PREPARE: Collaborative Indo-German PRoject on Estimating and Predicting NAtural Hazards in the Himalayan REgion	PI (German side)
DAAD (10/2019-09/2023)	Flash Flood Forecasting in urban areas	PI
BMBF (03/2017 – 12/2020)	SAWAM: Seasonal water resources management in dryland regions: Application-oriented transfer of regionalized global information; Sub-project: Regional modeling of water management and hydro-sedimentological processes and statistical downscaling for seasonal predictions	PI for Potsdam-Part
DFG (01/2015 – 12/2020)	Seamless hydrological prediction of the East-Indian Summer monsoon including the Analysis of its Variance	PI
DFG (01/2015 – 6/2020)	A Drought Forecast and Water Management System for semi- arid regions, taking the state of Ceará, Brazil as an example	PI
DAAD (04/2017- 05/2021)	Seamless integration of data and models for flash flood forecasting in Brazil	Co-PI
HGF, Uni Potsdam, FU Berlin (04/17-02/2020)	'Geo.X: Geo Data Science-Project: Assimilation of Rainfall Radar Data for flood forecasting	Co-PI
University of Potsdam (07/2017-08/2020)	Regional environmental change effects on water resources availability and hydro-power generation in an African environment. The case of the Shire River Basin and Lake Malawi Region, Malawi	PI
DAAD (10/2015-05/2019)	Enhancing the effectiveness of flood early warnings in the Philippines	Co-PI
EU (09/2015 - 09/2017)	Effects of global change on hydro-geomorphological hazards in Mediterranean rivers (Floodhazards)	Co-PI
BMBF (10/2014 - 06/2018)	RiscHid: Uncertainties in modelling hydrological extremes and sediment transport in semi-arid regions with an application in NE Brazil	PI
DAAD (10/2014 – 09/2015)	Assessment of climate change impact on water runoff in selected catchments of the Ukraine	PI

HGF, Uni Potsdam, FU Berlin (10/2011-12/17)	'GeoSim': Helmholtz Graduate School Explorative Simulation in Earth Science	Co-PI
BMBF	Potsdam Research Cluster for Georisk Analysis, Environmental Change and	PI for Sub-
(10/2009- 12/2014)	Sustainability (PROGRESS): "Forecasting of fast responding catchments"	Project D2.2
,	and "Water Availability in the alpine region under climate change"	and B1.2
AlpS Innsbruck	'HoPI II' (Flood Forecasting System for the Inn River in Tirol, Austria	PI for Potsdam
(4/2010 - 3/2014)	( 111 1111 3 1)	Part
BMBF (2011-2014)	Sustainable Coastal Zone Management: Comparative study of ecosystem	PI for fresh-
==. (==)	services: Part Freshwater Dynamics	water Part
DFG	Environmental impacts of water usage and mining in the region of the São	PI
(2013)	Francisco River, Brazil- Pre-study	
BMBF	Hydrological Optimization of Rice Production Technologies: Evaluation and	PI for Potsdam
(02/2011-07/2011)	Decision Support for Efficient Resource Use and Reduced Emissions in India	Part
University of Innsbruck	Expanded Downscaling for the Lech Catchment: Software Adaptation,	PI
(1/2010 -12/2010)	Instruction and Scientific Supervision	
BMBF	Operational Runoff and Flood forecasting in headwater Catchments	Head of proj.
08/ 2005-03/2010)	operational realism and risea to code any in risea water sateriments	consortium
BMBF	Investigation of land-use change effects in Chilenean Forest Areas	PI for Potsdam
(2007-2010)	Investigation of land use oflange effects in Offichean't ofest vicas	Part
EU	Integrated Flood Risk Analysis and Management Methodologies	PI for Potsdam
(03/2004-10/2009)	('FLOODSITE'), Sub-project. "Lowland range of the Elbe river"	Part
Industrieverband	Die Rolle der Hangneigung und Hangform auf Prozesse des Abflusses und	PI
Agrar, IVA	der Bodenerosion und deren Bedeutung für den Wasser- und Stofftransport	T I
(2007-2009)	in Fließgewässern	
DFG	Sediment Export from large Semi-Arid catchments: Measurements and	Head of
(12/2004-10/2008)	Modelling	
BMBF	Water management options in the Havel region	project group Head of
	water management options in the naver region	Consortium
(10/2002 - 02/2005) BMBF / International	Analyzing the impact of climate change and land-use on flood conditions in	PI
Bureau	Germany and Hungary. Co-operation project with Water Research Institute,	FI
(02/2003 - 01/2005)	Budapest	
LfU Baden-Württemb.	Presentation, comparison and climatological evaluation of climate scenarios	PI
	for South Germany	FI
(12/2003 -12/2004) DFG		PI
_	Extreme hydrological scenarios, 2-dimensional downscaling of climate	PI
(06/2001 - 05/2004) BMBF	models to daily precipitations rates with hydrological applications	lland of
	Options for flood risk mitigation through polder use at the Havel and Oder	Head of Consortium
(10/2003 - 01/2004)	rivers	PI
PIK	Development of a new concept of global water criticality ('GLOKRIT')	PI
(7/2001 - 03/2002) GFZ	Detential Improve of dilice brook assents on flood viols at the Dhine	PI
-·-	Potential Impact of dike break events on flood risk at the Rhine	PI
(8/2002 – 02/2003)	Olimanta wastaw and analah was interweted annuals	DI
HSPN-Brandenburg	Climate, water and society - an integrated approach	PI
(01/2002 - 12/2002)	Lawren Capla Madalling of Matay and Nutriont Transport in ungrouped and	DI
Danish Envi. Agency	Large-Scale Modelling of Water and Nutrient Transport in ungauged and	PI
(07/2000 - 12/2002)	costal catchments of Denmark	Dualant to our
IDNDR (04/2000)	Impacts of climate and land-use change on the Flooding Situation in the	Project team
(01/2000 - 12/2002)	Rhine Catchment	member
DFG (00/4000 07/2000)	Model because in continuous for a first and model for the first of the	Dunis - 1.1-
111X/1UUX - 117/3/1/191	Model based investigation of lateral runoff and the interactions with soil	Project team
(08/1998 - 07/2002)	moisture	member
European Union	moisture Impacts of land cover and river training measures on the flooding conditions	member Head of
European Union (12/1998 - 12/2001)	moisture Impacts of land cover and river training measures on the flooding conditions of the Rhine	member Head of Consortium
European Union (12/1998 - 12/2001) German Environment	moisture Impacts of land cover and river training measures on the flooding conditions of the Rhine Quantification impacts of land surface conditions on flooding conditions, with	member Head of Consortium PI and
European Union (12/1998 - 12/2001) German Environment Agency UBA	moisture Impacts of land cover and river training measures on the flooding conditions of the Rhine	member Head of Consortium PI and consortium
European Union (12/1998 - 12/2001) German Environment Agency UBA (11/1997 – 12/2001)	moisture Impacts of land cover and river training measures on the flooding conditions of the Rhine Quantification impacts of land surface conditions on flooding conditions, with particular consideration of land-use, vegetation cover and climate change	member Head of Consortium PI and consortium head
European Union (12/1998 - 12/2001) German Environment Agency UBA (11/1997 – 12/2001) BMBF	moisture Impacts of land cover and river training measures on the flooding conditions of the Rhine Quantification impacts of land surface conditions on flooding conditions, with particular consideration of land-use, vegetation cover and climate change  Water Availability and Vulnerability of Ecosystems and Society in North-East	member Head of Consortium PI and consortium head Project team
European Union (12/1998 - 12/2001) German Environment Agency UBA (11/1997 – 12/2001) BMBF (1995-2001)	moisture Impacts of land cover and river training measures on the flooding conditions of the Rhine Quantification impacts of land surface conditions on flooding conditions, with particular consideration of land-use, vegetation cover and climate change  Water Availability and Vulnerability of Ecosystems and Society in North-East Brazil. Sub-Projects 'Integrated Modelling' and 'Hydrological Modelling'	member  Head of Consortium  PI and consortium head  Project team member / PI
European Union (12/1998 - 12/2001) German Environment Agency UBA (11/1997 – 12/2001) BMBF (1995-2001) European Union	moisture Impacts of land cover and river training measures on the flooding conditions of the Rhine Quantification impacts of land surface conditions on flooding conditions, with particular consideration of land-use, vegetation cover and climate change  Water Availability and Vulnerability of Ecosystems and Society in North-East	member Head of Consortium PI and consortium head Project team
European Union (12/1998 - 12/2001) German Environment Agency UBA (11/1997 – 12/2001) BMBF (1995-2001) European Union (01/1998 - 12/2000)	moisture Impacts of land cover and river training measures on the flooding conditions of the Rhine Quantification impacts of land surface conditions on flooding conditions, with particular consideration of land-use, vegetation cover and climate change  Water Availability and Vulnerability of Ecosystems and Society in North-East Brazil. Sub-Projects 'Integrated Modelling' and 'Hydrological Modelling' European River Flood Occurrence and Total Risk Assessment System	member  Head of Consortium  PI and consortium head  Project team member / PI  PI Germany
European Union (12/1998 - 12/2001) German Environment Agency UBA (11/1997 – 12/2001) BMBF (1995-2001) European Union (01/1998 - 12/2000) European Union	moisture Impacts of land cover and river training measures on the flooding conditions of the Rhine Quantification impacts of land surface conditions on flooding conditions, with particular consideration of land-use, vegetation cover and climate change  Water Availability and Vulnerability of Ecosystems and Society in North-East Brazil. Sub-Projects 'Integrated Modelling' and 'Hydrological Modelling'	member  Head of Consortium  PI and consortium head  Project team member / PI  PI Germany  Action
European Union (12/1998 - 12/2001) German Environment Agency UBA (11/1997 – 12/2001) BMBF (1995-2001) European Union (01/1998 - 12/2000) European Union (06/1996 – 05/1998)	moisture Impacts of land cover and river training measures on the flooding conditions of the Rhine Quantification impacts of land surface conditions on flooding conditions, with particular consideration of land-use, vegetation cover and climate change  Water Availability and Vulnerability of Ecosystems and Society in North-East Brazil. Sub-Projects 'Integrated Modelling' and 'Hydrological Modelling' European River Flood Occurrence and Total Risk Assessment System  River Basin Modelling, Management and Flood Mitigation (Concerted Action)	member Head of Consortium PI and consortium head Project team member / PI PI Germany  Action Member
European Union (12/1998 - 12/2001) German Environment Agency UBA (11/1997 – 12/2001) BMBF (1995-2001) European Union (01/1998 - 12/2000) European Union (06/1996 – 05/1998) BMBF	moisture  Impacts of land cover and river training measures on the flooding conditions of the Rhine  Quantification impacts of land surface conditions on flooding conditions, with particular consideration of land-use, vegetation cover and climate change  Water Availability and Vulnerability of Ecosystems and Society in North-East Brazil. Sub-Projects 'Integrated Modelling' and 'Hydrological Modelling' European River Flood Occurrence and Total Risk Assessment System  River Basin Modelling, Management and Flood Mitigation (Concerted Action)  Modelling of water contamination in a small agricultural catchment). Sub-	member  Head of Consortium  PI and consortium head  Project team member / PI  PI Germany  Action
European Union (12/1998 - 12/2001) German Environment Agency UBA (11/1997 – 12/2001) BMBF (1995-2001) European Union (01/1998 - 12/2000) European Union (06/1996 – 05/1998) BMBF (03/1993-09/1995)	moisture  Impacts of land cover and river training measures on the flooding conditions of the Rhine  Quantification impacts of land surface conditions on flooding conditions, with particular consideration of land-use, vegetation cover and climate change  Water Availability and Vulnerability of Ecosystems and Society in North-East Brazil. Sub-Projects 'Integrated Modelling' and 'Hydrological Modelling' European River Flood Occurrence and Total Risk Assessment System  River Basin Modelling, Management and Flood Mitigation (Concerted Action)  Modelling of water contamination in a small agricultural catchment). Sub-project: Development of the overall model	member Head of Consortium PI and consortium head Project team member / PI PI Germany  Action Member researcher
European Union (12/1998 - 12/2001) German Environment Agency UBA (11/1997 – 12/2001) BMBF (1995-2001) European Union (01/1998 - 12/2000) European Union (06/1996 – 05/1998) BMBF (03/1993-09/1995) BMBF & CSIRO	moisture  Impacts of land cover and river training measures on the flooding conditions of the Rhine  Quantification impacts of land surface conditions on flooding conditions, with particular consideration of land-use, vegetation cover and climate change  Water Availability and Vulnerability of Ecosystems and Society in North-East Brazil. Sub-Projects 'Integrated Modelling' and 'Hydrological Modelling' European River Flood Occurrence and Total Risk Assessment System  River Basin Modelling, Management and Flood Mitigation (Concerted Action)  Modelling of water contamination in a small agricultural catchment). Sub-	member Head of Consortium PI and consortium head Project team member / PI PI Germany  Action Member
European Union (12/1998 - 12/2001) German Environment Agency UBA (11/1997 – 12/2001) BMBF (1995-2001) European Union (01/1998 - 12/2000) European Union (06/1996 – 05/1998) BMBF (03/1993-09/1995) BMBF & CSIRO Australia (1994-1995)	moisture  Impacts of land cover and river training measures on the flooding conditions of the Rhine  Quantification impacts of land surface conditions on flooding conditions, with particular consideration of land-use, vegetation cover and climate change  Water Availability and Vulnerability of Ecosystems and Society in North-East Brazil. Sub-Projects 'Integrated Modelling' and 'Hydrological Modelling' European River Flood Occurrence and Total Risk Assessment System  River Basin Modelling, Management and Flood Mitigation (Concerted Action)  Modelling of water contamination in a small agricultural catchment). Sub-project: Development of the overall model distributed and physically based hydrological modelling	member Head of Consortium PI and consortium head Project team member / PI PI Germany  Action Member researcher
European Union (12/1998 - 12/2001) German Environment Agency UBA (11/1997 – 12/2001) BMBF (1995-2001) European Union (01/1998 - 12/2000) European Union (06/1996 – 05/1998) BMBF (03/1993-09/1995) BMBF & CSIRO	moisture  Impacts of land cover and river training measures on the flooding conditions of the Rhine  Quantification impacts of land surface conditions on flooding conditions, with particular consideration of land-use, vegetation cover and climate change  Water Availability and Vulnerability of Ecosystems and Society in North-East Brazil. Sub-Projects 'Integrated Modelling' and 'Hydrological Modelling' European River Flood Occurrence and Total Risk Assessment System  River Basin Modelling, Management and Flood Mitigation (Concerted Action)  Modelling of water contamination in a small agricultural catchment). Sub-project: Development of the overall model	member Head of Consortium PI and consortium head Project team member / PI PI Germany  Action Member researcher

#### **Publications**

### 1) Overview

### Scientific Publications (journals, book chapters, etc...) see also orcid.org/0000-0002-6369-8536

Axel Bronstert has written the following publications (as of September 2023):

- 130 Articles in ISI-listed, peer reviewed journals (Clarivate core collection: H-Index: 42)
- 72 other peer reviewed articles or book contributions
- 43 books and book chapters etc: books (3), edited books (9), book chapters (8), institute series (13), special issues (4)
- 67 non-peer reviewed articles and other professional contributions

## 2) 10 most important publications:

- **Bronstert, A.,** Niehoff, D., Schiffler, G.R. (2023): Modelling infiltration and infiltration excess: The importance of fast and local processes. Hydrological Processes, 37(4), e14875. DOI:10.1002/hyp.14875.
- Vogel, J., Paton, E., Aich, V., **Bronstert, A.** (2021): Increasing compound warm spells and droughts in the Mediterranean Basin. Weather and Climate Extremes, 32, 100312. doi.org/10.1016/j.wace.2021.100312.
- Rottler, E., Francke, T., Bürger, G., **Bronstert, A.** (2020): Long-term changes in Central European river discharge 1869 2016: Impact of changing snow covers, reservoir constructions and an intensified hydrological cycle. Hydrology and Earth System Sciences, 24, 1721-1740. doi.org/10.5194/hess-24-1721-2020
- Bürger, G., Pfister, A., **Bronstert, A.** (2019): Temperature-driven rise in extreme sub-hourly rainfall. Journal of Climate, 32(22), 7597-7609. https://doi.org/10.1175/JCLI-D-19-0136.1
- Bronstert, A., Agarwal, A., Boessenkool, B., Crisologo, I., Fischer, M., Heistermann, M., Köhn-Reich, L., López-Tarazón, J.A., Moran, T.,Ozturk, U., Reinhardt-Imjela, C., Wendi, D. (2018): Forensic hydrometeorological analysis of an extreme flash flood: The 2016-05-29 event in Braunsbach, SW Germany. Science of the Total Environment, 630, 977-991. https://doi.org/10.1016/j.scitotenv.2018.02.241
- Vormoor, K., Lawrence, D., Heistermann, M., **Bronstert, A.** (2015): Climate change impacts on the seasonality and generation processes of floods: projections and uncertainties for catchments with mixed snowmelt/rainfall regimes. Hydrology and Earth System Sciences, 19, 913-931, doi.org/10.5194/hess-19-913-2015
- Bronstert, A., de Araújo, J.C., Batalla, J.C., Costa, A.C., Delgado, J.M., Francke, T., Foerster, S., Güntner, A., López-Tarazón, J.A., Mamede, G.L., Medeiros, P.A.H., Müller, E.N., Vericat, D. (2014): Process-based modelling of erosion, sediment transport and reservoir siltation in mesoscale semi-arid catchments. Journal of Soils and Sediments, 14(12), 2001-2018. https://doi.org/10.1007/s11368-014-0994-1
- Güntner, A., **Bronstert, A.** (2004): Representation of landscape variability and lateral redistribution processes for large-scale hydrological modelling in semi-arid areas. Journal of Hydrology; 297(1-4), 136-161. https://doi.org/10.1016/j.jhydrol.2004.04.008
- Niehoff, D., Fritsch, U., **Bronstert, A**. (2002): Land-use impacts on storm-runoff generation: Scenarios of land-use change and simulation of hydrological response in a meso-scale catchment in SW-Germany. Journal of Hydrology, 267(1-2), 80-93. https://doi.org/10.1016/S0022-1694(02)00142-7
- **Bronstert, A.,** Plate, E.J. (1997): Modelling of Runoff Generation and Soil Moisture Dynamics for Hillslopes and Micro-Catchments. Journal of Hydrology, 198, 177-195. doi.org/10.1016/S0022-1694(96)03306-9

## 3) complete list of publications: see attachment