## Peter Bauer-Gottwein

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Estimating Reservoir Release Using Multi-Source Satellite Datasets and Hydrological Modeling Techniques. Remote Sensing, 2022, 14, 815.	1.8	3
2	Challenges with Regard to Unmanned Aerial Systems (UASs) Measurement of River Surface Velocity Using Doppler Radar. Remote Sensing, 2022, 14, 1277.	1.8	2
3	A Droneâ€Borne Method to Jointly Estimate Discharge and Manning's Roughness of Natural Streams. Water Resources Research, 2021, 57, e2020WR028266.	1.7	21
4	Polar Drift in the 1990s Explained by Terrestrial Water Storage Changes. Geophysical Research Letters, 2021, 48, e2020GL092114.	1.5	17
5	Assessing the aquatic toxicity and environmental safety of tracer compounds Rhodamine B and Rhodamine WT. Water Research, 2021, 197, 117109.	5.3	82
6	The Impact of Assuming Perfect Foresight in Hydroeconomic Analysis of Yellow River Diversions to the Hai River Basin, China: A Framework Combining Linear Programming and Model Predictive Control. Frontiers in Water, 2021, 3, .	1.0	1
7	Altimetry for the future: Building on 25 years of progress. Advances in Space Research, 2021, 68, 319-363.	1.2	119
8	Hydraulic Model Calibration Using CryoSatâ€2 Observations in the Zambezi Catchment. Water Resources Research, 2021, 57, e2020WR029261.	1.7	7
9	Impacts of water resources management on land water storage in the North China Plain: Insights from multi-mission earth observations. Journal of Hydrology, 2021, 603, 126933.	2.3	17
10	Sentinel-3 radar altimetry for river monitoring – a catchment-scale evaluation of satellite water surface elevation from Sentinel-3A and Sentinel-3B. Hydrology and Earth System Sciences, 2021, 25, 333-357.	1.9	44
11	Hyperspectral reflectance measurements from UAS under intermittent clouds: Correcting irradiance measurements for sensor tilt. Remote Sensing of Environment, 2021, 267, 112719.	4.6	11
12	Calibrating 1D hydrodynamic river models in the absence of cross-section geometry using satellite observations of water surface elevation and river width. Hydrology and Earth System Sciences, 2021, 25, 6359-6379.	1.9	8
13	The Impact of Assuming Perfect Foresight When Planning Infrastructure in the Water–Energy–Food Nexus. Frontiers in Water, 2021, 3, .	1.0	1
14	Unmanned Aerial System (UAS) observations of water surface elevation in a small stream: Comparison of radar altimetry, LIDAR and photogrammetry techniques. Remote Sensing of Environment, 2020, 237, 111487.	4.6	53
15	Evaluation of Sentinel-3 SRAL SAR altimetry over Chinese rivers. Remote Sensing of Environment, 2020, 237, 111546.	4.6	57
16	A Bigger Picture of how the Tibetan Lakes Have Changed Over the Past Decade Revealed by CryoSatâ€⊋ Altimetry. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD033161.	1.2	20
17	On the Performance of Sentinelâ€3 Altimetry Over New Reservoirs: Approaches to Determine Onboard A Priori Elevation. Geophysical Research Letters, 2020, 47, e2020GL088770.	1.5	19
18	On the Contribution of Satellite Altimetry-Derived Water Surface Elevation to Hydrodynamic Model Calibration in the Han River. Remote Sensing, 2020, 12, 4087.	1.8	6

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19	Informing hydrological models of poorly gauged river catchments – A parameter regionalization and calibration approach. Journal of Hydrology, 2020, 587, 124999.	2.3	15
20	The Value of Distributed High-Resolution UAV-Borne Observations of Water Surface Elevation for River Management and Hydrodynamic Modeling. Remote Sensing, 2020, 12, 1171.	1.8	13
21	Temporal interpolation of land surface fluxes derived from remote sensing – results with an unmanned aerial system. Hydrology and Earth System Sciences, 2020, 24, 3643-3661.	1.9	8
22	Combining Clustering Methods With MPS to Estimate Structural Uncertainty for Hydrological Models. Frontiers in Earth Science, 2019, 7, .	0.8	16
23	Unmanned Aerial System multispectral mapping for low and variable solar irradiance conditions: Potential of tensor decomposition. ISPRS Journal of Photogrammetry and Remote Sensing, 2019, 155, 58-71.	4.9	28
24	WHAT-IF: an open-source decision support tool for water infrastructure investment planning within the water–energy–food–climate nexus. Hydrology and Earth System Sciences, 2019, 23, 4129-4152.	1.9	47
25	Optimizing water resources allocation in the Haihe River basin under groundwater sustainability constraints. Journal of Chinese Geography, 2019, 29, 935-958.	1.5	16
26	High spatial resolution monitoring land surface energy, water and CO2 fluxes from an Unmanned Aerial System. Remote Sensing of Environment, 2019, 229, 14-31.	4.6	43
27	Simultaneous calibration of multiple hydrodynamic model parameters using satellite altimetry observations of water surface elevation in the Songhua River. Remote Sensing of Environment, 2019, 225, 229-247.	4.6	51
28	How do GPM IMERG precipitation estimates perform as hydrological model forcing? Evaluation for 300 catchments across Mainland China. Journal of Hydrology, 2019, 572, 486-500.	2.3	98
29	Benefits of Cooperation in Transnational Water-Energy Systems. Journal of Water Resources Planning and Management - ASCE, 2019, 145, .	1.3	8
30	Joint optimization of water allocation and water quality management in Haihe River basin. Science of the Total Environment, 2019, 654, 72-84.	3.9	33
31	Influence of local geoid variation on water surface elevation estimates derived from multi-mission altimetry for Lake Namco. Remote Sensing of Environment, 2019, 221, 65-79.	4.6	31
32	A Regional Scale Hydrostratigraphy Generated from Geophysical Data of Varying Age, Type, and Quality. Water Resources Management, 2019, 33, 539-553.	1.9	9
33	Unmanned aerial vehicle observations of water surface elevation and bathymetry in the cenotes and lagoons of the Yucatan Peninsula, Mexico. Hydrogeology Journal, 2018, 26, 2213-2228.	0.9	14
34	A data assimilation system combining CryoSat-2 data and hydrodynamic river models. Journal of Hydrology, 2018, 557, 197-210.	2.3	28
35	Evaluation of multi-mode CryoSat-2 altimetry data over the Po River against in situ data and a hydrodynamic model. Advances in Water Resources, 2018, 112, 17-26.	1.7	36
36	Incorporating diffuse radiation into a light use efficiency and evapotranspiration model: An 11-year study in a high latitude deciduous forest. Agricultural and Forest Meteorology, 2018, 248, 479-493.	1.9	53

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37	Mapping Root-Zone Soil Moisture Using a Temperature–Vegetation Triangle Approach with an Unmanned Aerial System: Incorporating Surface Roughness from Structure from Motion. Remote Sensing, 2018, 10, 1978.	1.8	26
38	Technical note: Bathymetry observations of inland water bodies using a tethered single-beam sonar controlled by an unmanned aerial vehicle. Hydrology and Earth System Sciences, 2018, 22, 4165-4181.	1.9	59
39	Informing a hydrological model of the Ogoou $\tilde{A}$ with multi-mission remote sensing data. Hydrology and Earth System Sciences, 2018, 22, 1453-1472.	1.9	37
40	Optimization of regional water - power systems under cooling constraints and climate change. Energy, 2018, 155, 484-494.	4.5	23
41	Probabilistic predictions using a groundwater model informed with airborne EM data. Advances in Water Resources, 2017, 103, 86-98.	1.7	9
42	Measuring water level in rivers and lakes from lightweight Unmanned Aerial Vehicles. Journal of Hydrology, 2017, 548, 237-250.	2.3	60
43	Monitoring recent lake level variations on the Tibetan Plateau using CryoSat-2 SARIn mode data. Journal of Hydrology, 2017, 544, 109-124.	2.3	130
44	Water level observations from unmanned aerial vehicles for improving estimates of surface water–groundwater interaction. Hydrological Processes, 2017, 31, 4371-4383.	1.1	21
45	CryoSat-2 radar altimetry for monitoring freshwater resources of China. Remote Sensing of Environment, 2017, 200, 125-139.	4.6	47
46	Multi-Objective Optimization for Analysis of Changing Trade-Offs in the Nepalese Water–Energy–Food Nexus with Hydropower Development. Water (Switzerland), 2017, 9, 162.	1.2	47
47	CryoSat-2 Altimetry Applications over Rivers and Lakes. Water (Switzerland), 2017, 9, 211.	1.2	48
48	Application of CryoSat-2 altimetry data for river analysis and modelling. Hydrology and Earth System Sciences, 2017, 21, 751-764.	1.9	49
49	The cost of ending groundwater overdraft on the North China Plain. Hydrology and Earth System Sciences, 2016, 20, 771-785.	1.9	14
50	Optimizing Wellfield Operation in a Variable Power Price Regime. Ground Water, 2016, 54, 92-103.	0.7	12
51	Joint optimization of regional water-power systems. Advances in Water Resources, 2016, 92, 200-207.	1.7	37
52	Airborne and groundâ€based transient electromagnetic mapping of groundwater salinity in the Machile–Zambezi Basin, southwestern Zambia. Near Surface Geophysics, 2015, 13, 383-396.	0.6	20
53	Operational river discharge forecasting in poorly gauged basins: the Kavango River basin case study. Hydrology and Earth System Sciences, 2015, 19, 1469-1485.	1.9	16
54	Performance evaluation of groundwater model hydrostratigraphy from airborne electromagnetic data and lithological borehole logs. Hydrology and Earth System Sciences, 2015, 19, 3875-3890.	1.9	28

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55	Mapping localised freshwater anomalies in the brackish paleo-lake sediments of the Machile–Zambezi Basin with transient electromagnetic sounding, geoelectrical imaging and induced polarisation. Journal of Applied Geophysics, 2015, 123, 81-92.	0.9	12
56	Evaluation of Remotely Sensed Precipitation and Its Performance for Streamflow Simulations in Basins of the Southeast Tibetan Plateau. Journal of Hydrometeorology, 2015, 16, 2577-2594.	0.7	33
57	Optimization of Multipurpose Reservoir Systems Using Power Market Models. Journal of Water Resources Planning and Management - ASCE, 2015, 141, .	1.3	16
58	Hydroeconomic optimization of reservoir management under downstream water quality constraints. Journal of Hydrology, 2015, 529, 1679-1689.	2.3	26
59	Using Stochastic Dynamic Programming to Support Water Resources Management in the Ziya River Basin, China. Journal of Water Resources Planning and Management - ASCE, 2015, 141, .	1.3	38
60	Enabling the Use of Earth Observation Data for Integrated Water Resource Management in Africa with the Water Observation and Information System. Remote Sensing, 2014, 6, 7819-7839.	1.8	26
61	Operational reservoir inflow forecasting with radar altimetry: the Zambezi case study. Hydrology and Earth System Sciences, 2014, 18, 997-1007.	1.9	22
62	Large-scale 3-D modeling by integration of resistivity models and borehole data through inversion. Hydrology and Earth System Sciences, 2014, 18, 4349-4362.	1.9	47
63	Using radar altimetry to update a large-scale hydrological model of the Brahmaputra river basin. Hydrology Research, 2014, 45, 148-164.	1.1	15
64	Assessing climate change impacts on the Iberian power system using a coupled water-power model. Climatic Change, 2014, 126, 351-364.	1.7	44
65	Modeling ecohydrological impacts of land management and water use in the Silver Creek basin, Idaho. Journal of Geophysical Research G: Biogeosciences, 2014, 119, 487-507.	1.3	11
66	Automatic Generation of Groundwater Model Hydrostratigraphy from AEM Resistivity and Boreholes. , 2014, , .		1
67	Calibrating a Salt Water Intrusion Model with Timeâ€Domain Electromagnetic Data. Ground Water, 2013, 51, 385-397.	0.7	23
68	Assimilation of radar altimetry to a routing model of the Brahmaputra River. Water Resources Research, 2013, 49, 4807-4816.	1.7	60
69	Integrated flow and temperature modeling at the catchment scale. Journal of Hydrology, 2013, 495, 238-251.	2.3	45
70	Systems Analysis Approach to the Design of Efficient Water Pricing Policies under the EU Water Framework Directive. Journal of Water Resources Planning and Management - ASCE, 2013, 139, 574-582.	1.3	36
71	Well Field Management Using Multi-Objective Optimization. Water Resources Management, 2013, 27, 629-648.	1.9	9
72	Sequential and joint hydrogeophysical inversion using a field-scale groundwater model with ERT and TDEM data. Hydrology and Earth System Sciences, 2013, 17, 4043-4060.	1.9	36

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73	Optimization of Well Field Operation: Case Study of SÃ,ndersÃ, Waterworks, Denmark. Journal of Water Resources Planning and Management - ASCE, 2013, 139, 109-116.	1.3	4
74	Multi-objective optimization of the management of a waterworks using an integrated well field model. Hydrology Research, 2012, 43, 430-444.	1.1	7
75	River monitoring from satellite radar altimetry in the Zambezi River basin. Hydrology and Earth System Sciences, 2012, 16, 2181-2192.	1.9	75
76	Regional-scale airborne electromagnetic surveying of the Yucatan karst aquifer (Mexico): geological and hydrogeological interpretation. Hydrogeology Journal, 2012, 20, 1407-1425.	0.9	11
77	Coupled hydrogeophysical inversion using timeâ€lapse magnetic resonance sounding and timeâ€lapse gravity data for hydraulic aquifer testing: Will it work in practice?. Water Resources Research, 2012, 48, .	1.7	25
78	A convex programming framework for optimal and bounded suboptimal well field management. Water Resources Research, 2012, 48, .	1.7	4
79	Will climate change exacerbate water stress in Central Asia?. Climatic Change, 2012, 112, 881-899.	1.7	151
80	Using timeâ€lapse gravity for groundwater model calibration: An application to alluvial aquifer storage. Water Resources Research, 2011, 47, .	1.7	49
81	The use of Time Domain Electromagnetic method and Continuous Vertical Electrical Sounding to map groundwater salinity in the Barotse sub-basin, Zambia. Physics and Chemistry of the Earth, 2011, 36, 798-805.	1.2	7
82	Real-time remote sensing driven river basin modeling using radar altimetry. Hydrology and Earth System Sciences, 2011, 15, 241-254.	1.9	57
83	Calibrating Vadose Zone Models with Time‣apse Gravity Data. Vadose Zone Journal, 2011, 10, 1034-1044.	1.3	16
84	Combining satellite radar altimetry, SAR surface soil moisture and GRACE total storage changes for hydrological model calibration in a large poorly gauged catchment. Hydrology and Earth System Sciences, 2011, 15, 1729-1743.	1.9	94
85	Estimating resource costs of compliance with EU WFD ecological status requirements at the river basin scale. Journal of Hydrology, 2011, 396, 197-214.	2.3	18
86	The influence of conceptual model uncertainty on management decisions for a groundwater-dependent ecosystem in karst. Journal of Hydrology, 2011, 400, 24-40.	2.3	28
87	Measuring gravity change caused by water storage variations: Performance assessment under controlled conditions. Journal of Hydrology, 2011, 402, 60-70.	2.3	29
88	Review: The Yucatán Peninsula karst aquifer, Mexico. Hydrogeology Journal, 2011, 19, 507-524.	0.9	236
89	Variable density groundwater flow: from modelling to applications. , 2010, , 87-118.		14
90	Hydrologic Dynamics of the Ground-Water-Dependent Sian Ka'an Wetlands, Mexico, Derived from InSAR and SAR Data. Wetlands, 2010, 30, 1-13.	0.7	49

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91	Hydrogeophysical exploration of three-dimensional salinity anomalies with the time-domain electromagnetic method (TDEM). Journal of Hydrology, 2010, 380, 318-329.	2.3	36
92	Hydrogeology of the south-eastern Yucatan Peninsula: New insights from water level measurements, geochemistry, geophysics and remote sensing. Journal of Hydrology, 2010, 389, 1-17.	2.3	77
93	Evaluating terrestrial water storage variations from regionally constrained GRACE mascon data and hydrological models over Southern Africa – preliminary results. International Journal of Remote Sensing, 2010, 31, 3899-3912.	1.3	9
94	Terrestrial Water Storage from GRACE and Satellite Altimetry in the Okavango Delta (Botswana). International Association of Geodesy Symposia, 2010, , 521-526.	0.2	2
95	Spatial mapping of submerged cave systems by means of airborne electromagnetics: an emerging technology to support protection of endangered karst aquifers. Near Surface Geophysics, 2009, 7, 613-627.	0.6	21
96	Calculation of the temporal gravity variation from spatially variable water storage change in soils and aquifers. Journal of Hydrology, 2009, 365, 302-309.	2.3	63
97	Regional review: the hydrology of the Okavango Delta, Botswana—processes, data and modelling. Hydrogeology Journal, 2009, 17, 1297-1328.	0.9	85
98	The role of remote sensing in hydrological modelling of the Okavango Delta, Botswana. Journal of Environmental Management, 2009, 90, 2252-2260.	3.8	39
99	Plant uptake of NaCl in relation to enzyme kinetics and toxic effects. Environmental and Experimental Botany, 2008, 64, 1-7.	2.0	45
100	Phytotoxicity of salt and plant salt uptake: Modeling ecohydrological feedback mechanisms. Water Resources Research, 2008, 44, .	1.7	13
101	Characterization and Quantification of Pneumatic Fracturing Effects at a Clay Till Site. Environmental Science & Technology, 2008, 42, 570-576.	4.6	35
102	Okavango Delta Islands: Interaction between density-driven flow and geochemical reactions under evapo-concentration. Journal of Hydrology, 2007, 335, 389-405.	2.3	55
103	How can remote sensing contribute in groundwater modeling?. Hydrogeology Journal, 2007, 15, 5-18.	0.9	111
104	A regional coupled surface water/groundwater model of the Okavango Delta, Botswana. Water Resources Research, 2006, 42, .	1.7	81
105	Coupled flow and salinity transport modelling in semi-arid environments: The Shashe River Valley, Botswana. Journal of Hydrology, 2006, 316, 163-183.	2.3	69
106	Geoelectrical imaging of groundwater salinization in the Okavango Delta, Botswana. Journal of Applied Geophysics, 2006, 60, 126-141.	0.9	103
107	Salt transport on islands in the Okavango Delta: Numerical investigations. Advances in Water Resources, 2006, 29, 11-29.	1.7	59
108	The micro-topography of the wetlands of the Okavango Delta, Botswana. Earth Surface Processes and Landforms, 2005, 30, 27-39.	1.2	43

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109	Estimation of the evapotranspiration rate from diurnal groundwater level fluctuations in the Okavango Delta, Botswana. Journal of Hydrology, 2004, 288, 344-355.	2.3	63
110	Using remote sensing to regionalize local precipitation recharge rates obtained from the Chloride Method. Journal of Hydrology, 2004, 294, 241-250.	2.3	82
111	Transport of a decay chain in homogenous porous media: analytical solutions. Journal of Contaminant Hydrology, 2001, 49, 217-239.	1.6	72