

Thomas Meixner

List of Publications by Year in descending order

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Version: 2024-02-01

103
papers

5,271
citations

109321

35
h-index

88630

70
g-index

107
all docs

107
docs citations

107
times ranked

6802
citing authors

#	ARTICLE	IF	CITATIONS
1	Tandem Use of Multiple Tracers and Metrics to Identify Dynamic and Slow Hydrological Flowpaths. <i>Frontiers in Water</i> , 2022, 4, .	2.3	1
2	How Soil Freezes and Thaws at a Snow-Dominated Forest Site in the U.S.â€”A Synthetic Approach Using the Soil and Cold Regions Model (SCRM). <i>Soil Systems</i> , 2022, 6, 52.	2.6	1
3	An improved practical approach for estimating catchmentâ€”scale response functions through wavelet analysis. <i>Hydrological Processes</i> , 2021, 35, e14082.	2.6	1
4	Net Zero Urban Water from Concept to Applications: Integrating Natural, Built, and Social Systems for Responsive and Adaptive Solutions. <i>ACS ES&T Water</i> , 2021, 1, 518-529.	4.6	10
5	Rapid Assessment and Long-Term Monitoring of Green Stormwater Infrastructure with Citizen Scientists. <i>Sustainability</i> , 2021, 13, 12520.	3.2	3
6	Vegetation source water identification using isotopic and hydrometric observations from a subhumid mountain catchment. <i>Ecohydrology</i> , 2020, 13, e2167.	2.4	9
7	Groundwater Isotopes in the Sonoyta River Watershed, USA-Mexico: Implications for Recharge Sources and Management of the Quitobaquito Springs. <i>Water (Switzerland)</i> , 2020, 12, 3307.	2.7	7
8	Ubiquitous Fractal Scaling and Filtering Behavior of Hydrologic Fluxes and Storages from A Mountain Headwater Catchment. <i>Water (Switzerland)</i> , 2020, 12, 613.	2.7	2
9	Influence of Climate and Duration of Stream Water Presence on Rates of Litter Decomposition and Nutrient Dynamics in Temporary Streams and Surrounding Environments of Southwestern USA. <i>Frontiers in Water</i> , 2020, 2, .	2.3	4
10	Estimating Surface Water Presence and Infiltration in Ephemeral to Intermittent Streams in the Southwestern US. <i>Frontiers in Water</i> , 2020, 2, .	2.3	7
11	Selfâ€”Affine Fractal Spatial and Temporal Variability of the San Pedro River, Southern Arizona. <i>Journal of Geophysical Research F: Earth Surface</i> , 2019, 124, 1540-1558.	2.8	4
12	Distinct stores and the routing of water in the deep critical zone of a snow-dominated volcanic catchment. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 4661-4683.	4.9	17
13	Hydrologic functioning of the deep critical zone and contributions to streamflow in a highâ€”elevation catchment: Testing of multiple conceptual models. <i>Hydrological Processes</i> , 2019, 33, 476-494.	2.6	22
14	EDDIE modules are effective learning tools for developing quantitative literacy and seismological understanding. <i>Journal of Geoscience Education</i> , 2018, 66, 97-108.	1.4	4
15	A net ecosystem carbon budget for snow dominated forested headwater catchments: linking water and carbon fluxes to critical zone carbon storage. <i>Biogeochemistry</i> , 2018, 138, 225-243.	3.5	17
16	Event-Response Ellipses: A Method to Quantify and Compare the Role of Dynamic Storage at the Catchment Scale in Snowmelt-Dominated Systems. <i>Water (Switzerland)</i> , 2018, 10, 1824.	2.7	1
17	Why Do Largeâ€”Scale Land Surface Models Produce a Low Ratio of Transpiration to Evapotranspiration?. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 9109-9130.	3.3	47
18	Post-secondary Science Studentsâ€™ Explanations of Randomness and Variation and Implications for Science Learning. <i>International Journal of Science and Mathematics Education</i> , 2017, 15, 1039-1056.	2.5	9

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19	Comparing potential recharge estimates from three Land Surface Models across the western US. <i>Journal of Hydrology</i> , 2017, 545, 410-423.	5.4	22
20	Framework for incorporating climate change on flood magnitude and frequency analysis in the upper Santa Cruz River. <i>Journal of Hydrology</i> , 2017, 549, 194-207.	5.4	16
21	Geochemical evolution of the Critical Zone across variable time scales informs concentration–discharge relationships: The Rio Grande Basin Critical Zone Observatory. <i>Water Resources Research</i> , 2017, 53, 4169-4196.	4.2	57
22	Riparian vegetation of ephemeral streams. <i>Journal of Arid Environments</i> , 2017, 138, 27-37.	2.4	28
23	How Might Recharge Change Under Projected Climate Change in the Western U.S.?. <i>Geophysical Research Letters</i> , 2017, 44, 10407-10418.	4.0	38
24	Using Large Data Sets for Open-Ended Inquiry in Undergraduate Science Classrooms. <i>BioScience</i> , 2017, 67, 1052-1061.	4.9	25
25	Annual and monthly runoff analysis in the Elqui River, Chile, a semi-arid snow-glacier fed basin. <i>Tecnología Y Ciencias Del Agua</i> , 2017, 08, 23-35.	0.3	5
26	Seasonal glacial meltwater contributions to surface water in the Bolivian Andes: A case study using environmental tracers. <i>Journal of Hydrology: Regional Studies</i> , 2016, 8, 260-273.	2.4	11
27	Identifying the sources and geochemical evolution of groundwater using stable isotopes and hydrogeochemistry in the Quaternary aquifer in the area between Ismailia and El Kassara canals, Northeastern Egypt. <i>Arabian Journal of Geosciences</i> , 2016, 9, 1.	1.3	9
28	Valuing instream-related services of wastewater. <i>Ecosystem Services</i> , 2016, 21, 59-71.	5.4	11
29	Riparian zones attenuate nitrogen loss following bark beetle-induced lodgepole pine mortality. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 933-948.	3.0	9
30	Implications of projected climate change for groundwater recharge in the western United States. <i>Journal of Hydrology</i> , 2016, 534, 124-138.	5.4	299
31	Students, Meet Data. <i>Eos</i> , 2016, 97, .	0.1	5
32	The role of biodiversity in the hydrological cycle. <i>IHE Delft Lecture Note Series</i> , 2016, , 249-288.	0.0	0
33	Critical Zone Services: Expanding Context, Constraints, and Currency beyond Ecosystem Services. <i>Vadose Zone Journal</i> , 2015, 14, v2j2014.10.0142.	2.2	60
34	Combined impact of catchment size, land cover, and precipitation on streamflow and total dissolved nitrogen: A global comparative analysis. <i>Global Biogeochemical Cycles</i> , 2015, 29, 1109-1121.	4.9	27
35	Determining the importance of model calibration for forecasting absolute/relative changes in streamflow from LULC and climate changes. <i>Journal of Hydrology</i> , 2015, 522, 439-451.	5.4	96
36	Use of Combined Biogeochemical Model Approaches and Empirical Data to Assess Critical Loads of Nitrogen. <i>Environmental Pollution</i> , 2015, , 269-295.	0.4	0

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37	Influences of topographic index distribution on hydrologically sensitive areas in agricultural watershed. Stochastic Environmental Research and Risk Assessment, 2014, 28, 2235-2242.	4.0	8
38	High Atmospheric Nitrate Inputs and Nitrogen Turnover in Semi-arid Urban Catchments. Ecosystems, 2014, 17, 1309-1325.	3.4	46
39	Evaluation of the importance of clay confining units on groundwater flow in alluvial basins using solute and isotope tracers: the case of Middle San Pedro Basin in southeastern Arizona (USA). Hydrogeology Journal, 2014, 22, 829-849.	2.1	16
40	Stream water carbon controls in seasonally snow-covered mountain catchments: impact of inter-annual variability of water fluxes, catchment aspect and seasonal processes. Biogeochemistry, 2014, 118, 273-290.	3.5	60
41	Physical and biological controls on trace gas fluxes in semi-arid urban ephemeral waterways. Biogeochemistry, 2014, 121, 189-207.	3.5	58
42	Assessing Nitrogen-Saturation in a Seasonally Dry Chaparral Watershed: Limitations of Traditional Indicators of N-Saturation. Ecosystems, 2014, 17, 1286-1305.	3.4	55
43	A Comparison of Empirical and Modelled Nitrogen Critical Loads for Mediterranean Forests and Shrublands in California. , 2014, , 357-368.		3
44	The influence of local hydrogeologic forcings on near-stream event water recharge and retention (Upper San Pedro River, Arizona). Hydrological Processes, 2013, 27, 617-627.	2.6	7
45	The role of flood size and duration on streamflow and riparian groundwater composition in a semi-arid basin. Journal of Hydrology, 2013, 488, 126-135.	5.4	20
46	Interactive Effects of Air Pollution and Climate Change on Forest Ecosystems in the United States. Developments in Environmental Science, 2013, 13, 333-369.	0.5	13
47	Towards a unified threshold-based hydrological theory: necessary components and recurring challenges. Hydrological Processes, 2013, 27, 313-318.	2.6	63
48	Dryland Riparian Ecosystems in the American Southwest: Sensitivity and Resilience to Climatic Extremes. Ecosystems, 2013, 16, 411-415.	3.4	36
49	Aerosol and precipitation chemistry in the southwestern United States: spatiotemporal trends and interrelationships. Atmospheric Chemistry and Physics, 2013, 13, 7361-7379.	4.9	49
50	Framing Scenarios of Binational Water Policy with a Tool to Visualize, Quantify and Value Changes in Ecosystem Services. Water (Switzerland), 2013, 5, 852-874.	2.7	20
51	Multi-gauge Calibration for Modeling the Semi-Arid Santa Cruz Watershed in Arizona-Mexico Border Area Using SWAT. Air, Soil and Water Research, 2012, 5, ASWR.S9410.	2.5	46
52	Using ¹⁷ O to Investigate Nitrate Sources and Sinks in a Semi-Arid Groundwater System. Environmental Science & Technology, 2012, 46, 745-751.	10.0	36
53	Carbon and Nitrogen Export from Semiarid Uplands to Perennial Rivers: Connections and Missing Links, San Pedro River, Arizona, USA. Geography Compass, 2012, 6, 546-559.	2.7	3
54	Modeling effects of floods on streambed hydraulic conductivity and groundwater-surface water interactions. Water Resources Research, 2012, 48, .	4.2	50

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55	Quantifying the effects of stream channels on storm water quality in a semi-arid urban environment. <i>Journal of Hydrology</i> , 2012, 470-471, 98-110.	5.4	13
56	It takes a community to raise a hydrologist: the Modular Curriculum for Hydrologic Advancement (MOCHA). <i>Hydrology and Earth System Sciences</i> , 2012, 16, 3405-3418.	4.9	31
57	RIPGISâ€NET: A GIS Tool for Riparian Groundwater Evapotranspiration in MODFLOW. <i>Ground Water</i> , 2012, 50, 154-158.	1.3	14
58	Seasonalizing Mountain System Recharge in Semiâ€Arid Basinsâ€Climate Change Impacts. <i>Ground Water</i> , 2012, 50, 585-597.	1.3	26
59	Quantifying mountain block recharge by means of catchmentâ€scale storageâ€discharge relationships. <i>Water Resources Research</i> , 2011, 47, .	4.2	88
60	Impact of transient soil water simulation to estimated nitrogen leaching and emission at high- and low-deposition forest sites in Southern California. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	13
61	Effects of measurement resolution on the analysis of temperature time series for streamâ€aquifer flux estimation. <i>Water Resources Research</i> , 2011, 47, .	4.2	20
62	Impact of land-surface elevation and riparian evapotranspiration seasonality on groundwater budget in MODFLOW models. <i>Hydrogeology Journal</i> , 2011, 19, 1181-1188.	2.1	15
63	How Water, Carbon, and Energy Drive Critical Zone Evolution: The Jemezâ€Santa Catalina Critical Zone Observatory. <i>Vadose Zone Journal</i> , 2011, 10, 884-899.	2.2	111
64	Overland flow generation in chaparral ecosystems: temporal and spatial variability. <i>Hydrological Processes</i> , 2010, 24, 65-75.	2.6	9
65	Riskâ€based determination of critical nitrogen deposition loads for fire spread in southern California deserts. <i>Ecological Applications</i> , 2010, 20, 1320-1335.	3.8	59
66	Nitrogen critical loads and management alternatives for N-impacted ecosystems in California. <i>Journal of Environmental Management</i> , 2010, 91, 2404-2423.	7.8	192
67	Adding an empirical factor to better represent the rewetting pulse mechanism in a soil biogeochemical model. <i>Geoderma</i> , 2010, 159, 440-451.	5.1	25
68	Seasonal variation in nitrogen uptake and turnover in two high-elevation soils: mineralization responses are site-dependent. <i>Biogeochemistry</i> , 2009, 93, 253-270.	3.5	40
69	Clogging of an Effluent Dominated Semiarid River: A Conceptual Model of Streamâ€Aquifer Interactions ¹ . <i>Journal of the American Water Resources Association</i> , 2009, 45, 1047-1062.	2.4	36
70	Interactions Between Biogeochemistry and Hydrologic Systems. <i>Annual Review of Environment and Resources</i> , 2009, 34, 65-96.	13.4	138
71	Estimating stream chemistry during the snowmelt pulse using a spatially distributed, coupled snowmelt and hydrochemical modeling approach. <i>Water Resources Research</i> , 2008, 44, .	4.2	15
72	Empirical and simulated critical loads for nitrogen deposition in California mixed conifer forests. <i>Environmental Pollution</i> , 2008, 155, 492-511.	7.5	120

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73	Fit-for-purpose analysis of uncertainty using split-sampling evaluations. Hydrological Sciences Journal, 2008, 53, 1090-1103.	2.6	42
74	Chapter 19 Management Options for Mitigating Nitrogen (N) Losses from N-Saturated Mixed-Conifer Forests in California. Developments in Environmental Science, 2008, 8, 425-455.	0.5	2
75	A global and efficient multi-objective auto-calibration and uncertainty estimation method for water quality catchment models. Journal of Hydroinformatics, 2007, 9, 277-291.	2.4	105
76	Changes in N cycling and microbial N with elevated N in exotic annual grasslands of southern California. Applied Soil Ecology, 2007, 36, 1-9.	4.3	32
77	Influence of shifting flow paths on nitrogen concentrations during monsoon floods, San Pedro River, Arizona. Journal of Geophysical Research, 2007, 112, .	3.3	23
78	Water in the desert: Introduction to special section on River and Riparian Biogeochemistry. Journal of Geophysical Research, 2007, 112, .	3.3	1
79	Smog Nitrogen and the Rapid Acidification of Forest Soil, San Bernardino Mountains, Southern California. Scientific World Journal, The, 2007, 7, 175-180.	2.1	10
80	Impacts of anthropogenic N additions on nitrogen mineralization from plant litter in exotic annual grasslands. Soil Biology and Biochemistry, 2007, 39, 24-32.	8.8	39
81	Mineralization responses at near-zero temperatures in three alpine soils. Biogeochemistry, 2007, 84, 233-245.	3.5	37
82	N Saturation Symptoms in Chaparral Catchments Are Not Reversed by Prescribed Fire. Environmental Science & Technology, 2006, 40, 2887-2894.	10.0	29
83	Modeling nitrogen transport in the Newport Bay/San Diego Creek watershed of Southern California. Agricultural Water Management, 2006, 81, 199-215.	5.6	12
84	A global sensitivity analysis tool for the parameters of multi-variable catchment models. Journal of Hydrology, 2006, 324, 10-23.	5.4	980
85	Altered Ecohydrologic Response Drives Native Shrub Loss under Conditions of Elevated Nitrogen Deposition. Journal of Environmental Quality, 2006, 35, 76-92.	2.0	40
86	Environmental and ecological hydroinformatics to support the implementation of the European Water Framework Directive for river basin management. Journal of Hydroinformatics, 2006, 8, 239-252.	2.4	23
87	Methods to quantify and identify the sources of uncertainty for river basin water quality models. Water Science and Technology, 2006, 53, 51-59.	2.5	176
88	Decadal-scale Dynamics of Water, Carbon and Nitrogen in a California Chaparral Ecosystem: DAYCENT Modeling Results. Biogeochemistry, 2006, 77, 217-245.	3.5	41
89	Episodic rewetting enhances carbon and nitrogen release from chaparral soils. Soil Biology and Biochemistry, 2005, 37, 2195-2204.	8.8	305
90	Biogeochemical Budgets in a Mediterranean Catchment with High Rates of Atmospheric N Deposition – Importance of Scale and Temporal Asynchrony. Biogeochemistry, 2004, 70, 331-356.	3.5	62

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91	Temporal and spatial variability of cation and silica export in an alpine watershed, Emerald Lake, California. <i>Hydrological Processes</i> , 2004, 18, 1759-1776.	2.6	4
92	Tracing Atmospheric Nitrate Deposition in a Complex Semiarid Ecosystem Using $\delta^{17}O$. <i>Environmental Science & Technology</i> , 2004, 38, 2175-2181.	10.0	134
93	Multidecadal hydrochemical response of a Sierra Nevada watershed: sensitivity to weathering rate and changes in deposition. <i>Journal of Hydrology</i> , 2004, 285, 272-285.	5.4	19
94	Prescribed fire, soils, and stream water chemistry in a watershed in the Lake Tahoe Basin, California. <i>International Journal of Wildland Fire</i> , 2004, 13, 27.	2.4	65
95	Title is missing!. <i>Biogeochemistry</i> , 2003, 62, 289-308.	3.5	17
96	Ecological Effects of Nitrogen Deposition in the Western United States. <i>BioScience</i> , 2003, 53, 404.	4.9	522
97	Estimating parameters and structure of a hydrochemical model using multiple criteria. <i>Water Science and Application</i> , 2003, , 213-228.	0.3	2
98	Multicriteria parameter estimation for models of stream chemical composition. <i>Water Resources Research</i> , 2002, 38, 9-1-9-9.	4.2	28
99	Nitrate in Polluted Mountainous Catchments with Mediterranean Climates. <i>Scientific World Journal</i> , The, 2001, 1, 564-571.	2.1	8
100	Stream chemistry modeling of two watersheds in the Front Range, Colorado. <i>Water Resources Research</i> , 2000, 36, 77-87.	4.2	31
101	Sensitivity analysis using mass flux and concentration. <i>Hydrological Processes</i> , 1999, 13, 2233-2244.	2.6	26
102	Federal priorities and programs in the hydrological sciences. <i>Eos</i> , 1999, 80, 271.	0.1	0
103	Importance of biogeochemical processes in modeling stream chemistry in two watersheds in the Sierra Nevada, California. <i>Water Resources Research</i> , 1998, 34, 3121-3133.	4.2	11