

Ryan T Bailey

List of Publications by Year in descending order

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Version: 2024-02-01

72
papers

1,710
citations

279701

23
h-index

345118

36
g-index

73
all docs

73
docs citations

73
times ranked

1328
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessing regional-scale spatio-temporal patterns of groundwater-surface water interactions using a coupled SWAT-MODFLOW model. <i>Hydrological Processes</i> , 2016, 30, 4420-4433.	1.1	183
2	Coupled SWAT-MODFLOW model for large-scale mixed agro-urban river basins. <i>Environmental Modelling and Software</i> , 2019, 115, 200-210.	1.9	88
3	Comprehensive simulation of nitrate transport in coupled surface-subsurface hydrologic systems using the linked SWAT-MODFLOW-RT3D model. <i>Environmental Modelling and Software</i> , 2019, 122, 104242.	1.9	62
4	Assessing Selenium Contamination in the Irrigated Stream-Aquifer System of the Arkansas River, Colorado. <i>Journal of Environmental Quality</i> , 2009, 38, 2344-2356.	1.0	59
5	Review: Selenium contamination, fate, and reactive transport in groundwater in relation to human health. <i>Hydrogeology Journal</i> , 2017, 25, 1191-1217.	0.9	57
6	Comparison of abstraction scenarios simulated by SWAT and SWAT-MODFLOW. <i>Hydrological Sciences Journal</i> , 2019, 64, 434-454.	1.2	57
7	Estimating the Ground Water Resources of Atoll Islands. <i>Water (Switzerland)</i> , 2010, 2, 1-27.	1.2	49
8	Modeling Variably Saturated Multispecies Reactive Groundwater Solute Transport with MODFLOW-UZF and RT3D. <i>Ground Water</i> , 2013, 51, 752-761.	0.7	48
9	SWATMOD-Prep: Graphical User Interface for Preparing Coupled SWAT-MODFLOW Simulations. <i>Journal of the American Water Resources Association</i> , 2017, 53, 400-410.	1.0	47
10	The Influence of Nitrate on Selenium in Irrigated Agricultural Groundwater Systems. <i>Journal of Environmental Quality</i> , 2012, 41, 783-792.	1.0	42
11	Estimating geostatistical parameters and spatially-variable hydraulic conductivity within a catchment system using an ensemble smoother. <i>Hydrology and Earth System Sciences</i> , 2012, 16, 287-304.	1.9	34
12	Spatial and temporal variability of in-stream water quality parameter influence on dissolved oxygen and nitrate within a regional stream network. <i>Ecological Modelling</i> , 2014, 277, 87-96.	1.2	34
13	Spatio-temporal patterns of the interaction between groundwater and surface water in plains. <i>Hydrological Processes</i> , 2020, 34, 1371-1392.	1.1	34
14	Simulating reactive transport of selenium coupled with nitrogen in a regional-scale irrigated groundwater system. <i>Journal of Hydrology</i> , 2014, 515, 29-46.	2.3	32
15	DSSAT-MODFLOW: A new modeling framework for exploring groundwater conservation strategies in irrigated areas. <i>Agricultural Water Management</i> , 2020, 232, 106033.	2.4	31
16	Modeling Variably Saturated Subsurface Solute Transport with MODFLOW-UZF and MT3DMS. <i>Ground Water</i> , 2013, 51, 237-251.	0.7	30
17	Assessment of System Responses in Intensively Irrigated Stream-Aquifer Systems Using SWAT-MODFLOW. <i>Water (Switzerland)</i> , 2019, 11, 1576.	1.2	30
18	Enhancing SWAT+ simulation of groundwater flow and groundwater-surface water interactions using MODFLOW routines. <i>Environmental Modelling and Software</i> , 2020, 126, 104660.	1.9	30

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19	Appraising climate change impacts on future water resources and agricultural productivity in agro-urban river basins. <i>Science of the Total Environment</i> , 2021, 788, 147717.	3.9	28
20	Quantifying the streamflow response to groundwater abstractions for irrigation or drinking water at catchment scale using SWAT and SWATâ€“MODFLOW. <i>Environmental Sciences Europe</i> , 2020, 32, .	2.6	28
21	Simulating selenium and nitrogen fate and transport in coupled stream-aquifer systems of irrigated regions. <i>Journal of Hydrology</i> , 2018, 560, 512-529.	2.3	27
22	A salinity reactive transport and equilibrium chemistry model for regional-scale agricultural groundwater systems. <i>Journal of Hydrology</i> , 2019, 572, 274-293.	2.3	27
23	Effects of Marine Overwash for Atoll Aquifers: Environmental and Human Factors. <i>Ground Water</i> , 2014, 52, 694-704.	0.7	25
24	Predicting Future Groundwater Resources of Coral Atoll Islands. <i>Hydrological Processes</i> , 2016, 30, 2092-2105.	1.1	25
25	Using the SWAT Model in Intensively Managed Irrigated Watersheds: Model Modification and Application. <i>Journal of Hydrologic Engineering - ASCE</i> , 2018, 23, .	0.8	25
26	Simulating variably-saturated reactive transport of selenium and nitrogen in agricultural groundwater systems. <i>Journal of Contaminant Hydrology</i> , 2013, 149, 27-45.	1.6	24
27	A salinity module for SWAT to simulate salt ion fate and transport at the watershed scale. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 3155-3174.	1.9	24
28	Quantifying the effects of climate change on hydrological regime and stream biota in a groundwater-dominated catchment: A modelling approach combining SWAT-MODFLOW with flow-biota empirical models. <i>Science of the Total Environment</i> , 2020, 745, 140933.	3.9	24
29	Assessing the impacts of groundwater abstractions on flow regime and stream biota: Combining SWAT-MODFLOW with flow-biota empirical models. <i>Science of the Total Environment</i> , 2020, 706, 135702.	3.9	23
30	Modelling potential groundwater recharge in the Limpopo River Basin with SWAT-MODFLOW. <i>Groundwater for Sustainable Development</i> , 2019, 9, 100260.	2.3	22
31	Estimating the Impact of Drought on Groundwater Resources of the Marshall Islands. <i>Water (Switzerland)</i> , 2017, 9, 41.	1.2	21
32	Evaluating nitrate and phosphorus remediation in intensively irrigated stream-aquifer systems using a coupled flow and reactive transport model. <i>Journal of Hydrology</i> , 2021, 598, 126304.	2.3	21
33	Assessing the effectiveness of land and water management practices on nonpoint source nitrate levels in an alluvial streamâ€“aquifer system. <i>Journal of Contaminant Hydrology</i> , 2015, 179, 102-115.	1.6	20
34	Evaluating the contribution of subsurface drainage to watershed water yield using SWAT+ with groundwater modeling. <i>Science of the Total Environment</i> , 2022, 802, 149962.	3.9	20
35	Evaluating best management practices to lower selenium and nitrate in groundwater and streams in an irrigated river valley using a calibrated fate and reactive transport model. <i>Journal of Hydrology</i> , 2018, 566, 299-312.	2.3	19
36	A New Physically-Based Spatially-Distributed Groundwater Flow Module for SWAT+. <i>Hydrology</i> , 2020, 7, 75.	1.3	19

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37	Sustainability of rainwater catchment systems for small island communities. Journal of Hydrology, 2018, 557, 137-146.	2.3	19
38	Estimating transient freshwater lens dynamics for atoll islands of the Maldives. Journal of Hydrology, 2014, 515, 247-256.	2.3	18
39	Assessing best management practices for remediation of selenium loading in groundwater to streams in an irrigated region. Journal of Hydrology, 2015, 521, 341-359.	2.3	17
40	Quantifying transient post-flooding aquifer recovery for atoll islands in the Western Pacific. Hydrological Processes, 2015, 29, 4470-4482.	1.1	16
41	Estimating Current and Future Groundwater Resources of the Maldives. Journal of the American Water Resources Association, 2015, 51, 112-122.	1.0	16
42	Investigating the controlling factors on salinity in soil, groundwater, and river water in a semi-arid agricultural watershed using SWAT-Salt. Science of the Total Environment, 2022, 810, 152293.	3.9	15
43	Estimating spatially-variable first-order rate constants in groundwater reactive transport systems. Journal of Contaminant Hydrology, 2011, 122, 104-121.	1.6	14
44	Analyzing the Effects of Groundwater Pumping on an Urban Stream-Aquifer System. Journal of the American Water Resources Association, 2020, 56, 310-322.	1.0	14
45	Estimating spatially-variable rate constants of denitrification in irrigated agricultural groundwater systems using an Ensemble Smoother. Journal of Hydrology, 2012, 468-469, 188-202.	2.3	13
46	Stream-aquifer and in-stream processes affecting nitrogen along a major river and contributing tributary. Journal of Contaminant Hydrology, 2017, 199, 24-35.	1.6	13
47	Assessing controls on selenium fate and transport in watersheds using the SWAT model. Science of the Total Environment, 2020, 738, 140318.	3.9	13
48	Geohydrologic Factors Governing Atoll Island Groundwater Resources. Journal of Hydrologic Engineering - ASCE, 2017, 22, .	0.8	12
49	Quantifying threats to groundwater resources in the Republic of Maldives Part I: Future rainfall patterns and sea-level rise. Hydrological Processes, 2018, 32, 1137-1153.	1.1	11
50	Evaluating crop-soil-water dynamics in waterlogged areas using a coupled groundwater-agronomic model. Environmental Modelling and Software, 2021, 143, 105130.	1.9	11
51	APEX-MODFLOW: A New integrated model to simulate hydrological processes in watershed systems. Environmental Modelling and Software, 2021, 143, 105093.	1.9	11
52	Multisite Assessment of Hydrologic Processes in Snow-Dominated Mountainous River Basins in Colorado Using a Watershed Model. Journal of Hydrologic Engineering - ASCE, 2015, 20, .	0.8	10
53	Quantifying threats to groundwater resources in the Republic of Maldives Part II: Recovery from tsunami marine overwash events. Hydrological Processes, 2018, 32, 1154-1165.	1.1	10
54	Understanding Climate-Hydrologic-Human Interactions to Guide Groundwater Model Development for Southern High Plains. Journal of Contemporary Water Research and Education, 2017, 162, 79-99.	0.7	9

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55	An improved calibration technique to address high dimensionality and non-linearity in integrated groundwater and surface water models. <i>Environmental Modelling and Software</i> , 2022, 149, 105312.	1.9	9
56	Groundwater-surface water interactions at wetland interface: Advancement in catchment system modeling. <i>Environmental Modelling and Software</i> , 2022, 152, 105407.	1.9	9
57	Sustainable Rainwater Catchment Systems for Micronesian Atoll Communities. <i>Journal of the American Water Resources Association</i> , 2015, 51, 185-199.	1.0	8
58	Assessing groundwater availability of the Maldives under future climate conditions. <i>Hydrological Processes</i> , 2017, 31, 3334-3349.	1.1	8
59	Modeling sulfur cycling and sulfate reactive transport in an agricultural groundwater system. <i>Agricultural Water Management</i> , 2017, 185, 78-92.	2.4	7
60	Method for estimating available groundwater volume of small coral islands. <i>Hydrological Sciences Journal</i> , 2017, 62, 2381-2392.	1.2	7
61	Featured Series Introduction: Optimizing Ogallala Aquifer Water Use to Sustain Food Systems. <i>Journal of the American Water Resources Association</i> , 2019, 55, 3-5.	1.0	7
62	Estimating groundwater recharge for a freshwater lens in an arid region: Formative and stability assessment. <i>Hydrological Processes</i> , 2020, 34, 1063-1080.	1.1	7
63	Using DSSAT-MODFLOW to determine the controls of groundwater storage and crop yield in groundwater-based irrigated regions. <i>Journal of Hydrology</i> , 2022, 612, 128161.	2.3	6
64	Simulating the effect of subsurface tile drainage on watershed salinity using SWAT. <i>Agricultural Water Management</i> , 2022, 262, 107431.	2.4	5
65	Institutional Constraints on Cost-Effective Water Management: Selenium Contamination in Colorado's Lower Arkansas River Valley. <i>Journal of the American Water Resources Association</i> , 2016, 52, 1420-1432.	1.0	4
66	Review: Revisiting the Theis solution derivation to enhance understanding and application. <i>Hydrogeology Journal</i> , 2019, 27, 55-60.	0.9	4
67	Simulating salinity transport in High-Desert landscapes using APEX-MODFLOW-Salt. <i>Journal of Hydrology</i> , 2022, 610, 127873.	2.3	4
68	Assimilation of historical head data to estimate spatial distributions of stream bed and aquifer hydraulic conductivity fields. <i>Hydrological Processes</i> , 2017, 31, 1527-1538.	1.1	3
69	A Modeling Approach for Assessing Groundwater Resources of a Large Coral Island under Future Climate and Population Conditions: Gan Island, Maldives. <i>Water (Switzerland)</i> , 2019, 11, 1963.	1.2	3
70	Improving integrated surface water-groundwater modelling with groundwater extraction for water management. <i>Hydrological Sciences Journal</i> , 2021, 66, 1513-1530.	1.2	3
71	Using nutrient transport data to characterize and identify the presence of surface inlets in regions with subsurface drainage. <i>Journal of Environmental Quality</i> , 2021, 50, 396-404.	1.0	2
72	Assessing the Impact of Artificial Recharge Ponds on Hydrological Fluxes in an Irrigated Stream-Aquifer System. <i>Hydrology</i> , 2022, 9, 91.	1.3	2