

Timothy K Gates

List of Publications by Year in descending order

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61
papers

1,492
citations

304701

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all docs

61
docs citations

61
times ranked

1067
citing authors

#	ARTICLE	IF	CITATIONS
1	Performance Measures for Evaluation of Irrigation Water Delivery Systems. Journal of Irrigation and Drainage Engineering - ASCE, 1990, 116, 804-823.	1.0	252
2	Planning Reservoir Operations with Imprecise Objectives. Journal of Water Resources Planning and Management - ASCE, 1997, 123, 154-162.	2.6	90
3	Integration of Water Quantity and Quality in Strategic River Basin Planning. Journal of Water Resources Planning and Management - ASCE, 2000, 126, 85-97.	2.6	79
4	Uncertainty of canal seepage losses estimated using flowing water balance with acoustic Doppler devices. Journal of Hydrology, 2014, 517, 746-761.	5.4	72
5	Assessing Selenium Contamination in the Irrigated Stream-Aquifer System of the Arkansas River, Colorado. Journal of Environmental Quality, 2009, 38, 2344-2356.	2.0	59
6	Monitoring and Modeling Flow and Salt Transport in a Salinity-Threatened Irrigated Valley. Journal of Irrigation and Drainage Engineering - ASCE, 2002, 128, 87-99.	1.0	53
7	Appraising options to reduce shallow groundwater tables and enhance flow conditions over regional scales in an irrigated alluvial aquifer system. Journal of Hydrology, 2013, 495, 216-237.	5.4	48
8	Modeling Variably Saturated Multispecies Reactive Groundwater Solute Transport with MODFLOW-UZF and RT3D. Ground Water, 2013, 51, 752-761.	1.3	48
9	Field-Measured Hydraulic Resistance Characteristics in Vegetation-Infested Canals. Journal of Irrigation and Drainage Engineering - ASCE, 1992, 118, 256-274.	1.0	46
10	Agroecological Impacts from Salinization and Waterlogging in an Irrigated River Valley. Journal of Irrigation and Drainage Engineering - ASCE, 2005, 131, 197-209.	1.0	45
11	The Influence of Nitrate on Selenium in Irrigated Agricultural Groundwater Systems. Journal of Environmental Quality, 2012, 41, 783-792.	2.0	42
12	Irrigation and Drainage Strategies in Salinity-Affected Regions. Journal of Irrigation and Drainage Engineering - ASCE, 1989, 115, 255-284.	1.0	38
13	Simulating reactive transport of selenium coupled with nitrogen in a regional-scale irrigated groundwater system. Journal of Hydrology, 2014, 515, 29-46.	5.4	32
14	Stochastic Variability of Fluvial Hydraulic Geometry: Mississippi and Red Rivers. Journal of Hydraulic Engineering, 2002, 128, 426-437.	1.5	31
15	Evaluating Regional Solutions to Salinization and Waterlogging in an Irrigated River Valley. Journal of Irrigation and Drainage Engineering - ASCE, 2006, 132, 21-30.	1.0	30
16	Spatiotemporal Stochastic Open-Channel Flow. I: Model and Its Parameter Data. Journal of Hydraulic Engineering, 1996, 122, 641-651.	1.5	27
17	Simulating selenium and nitrogen fate and transport in coupled stream-aquifer systems of irrigated regions. Journal of Hydrology, 2018, 560, 512-529.	5.4	27
18	A salinity reactive transport and equilibrium chemistry model for regional-scale agricultural groundwater systems. Journal of Hydrology, 2019, 572, 274-293.	5.4	27

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19	Regional Assessment of Soil Water Salinity across an Intensively Irrigated River Valley. Journal of Irrigation and Drainage Engineering - ASCE, 2012, 138, 393-405.	1.0	26
20	Vertical Leakage in Egypt's Nile Valleys Estimation and Implications. Journal of Irrigation and Drainage Engineering - ASCE, 1991, 117, 515-533.	1.0	24
21	Simulating variably-saturated reactive transport of selenium and nitrogen in agricultural groundwater systems. Journal of Contaminant Hydrology, 2013, 149, 27-45.	3.3	24
22	Calibration of Electromagnetic Induction for Regional Assessment of Soil Water Salinity in an Irrigated Valley. Journal of Irrigation and Drainage Engineering - ASCE, 2006, 132, 436-444.	1.0	23
23	Assessing the effectiveness of land and water management practices on nonpoint source nitrate levels in an alluvial stream-aquifer system. Journal of Contaminant Hydrology, 2015, 179, 102-115.	3.3	20
24	Spatiotemporal Stochastic Open-Channel Flow. II: Simulation Experiments. Journal of Hydraulic Engineering, 1996, 122, 652-661.	1.5	19
25	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. Journal of Hydrology, 2018, 566, 299-312.	5.4	19
26	Stochastic Approximation Applied to Optimal Irrigation and Drainage Planning. Journal of Irrigation and Drainage Engineering - ASCE, 1989, 115, 488-502.	1.0	17
27	Irrigation-Drainage Design and Management Model: Development. Journal of Irrigation and Drainage Engineering - ASCE, 1995, 121, 71-82.	1.0	17
28	Neural network approach to stream-aquifer modeling for improved river basin management. Journal of Hydrology, 2010, 391, 235-247.	5.4	17
29	Assessing best management practices for remediation of selenium loading in groundwater to streams in an irrigated region. Journal of Hydrology, 2015, 521, 341-359.	5.4	17
30	Relationships between riparian evapotranspiration and groundwater depth along a semiarid irrigated river valley. Hydrological Processes, 2020, 34, 1714-1727.	2.6	17
31	Multicriterion Strategic Planning for Improved Irrigation Delivery. I: Approach. Journal of Irrigation and Drainage Engineering - ASCE, 1991, 117, 897-913.	1.0	13
32	Variability in Perceived Satisfaction of Reservoir Management Objectives. Journal of Water Resources Planning and Management - ASCE, 1997, 123, 147-153.	2.6	13
33	Estimating spatially-variable rate constants of denitrification in irrigated agricultural groundwater systems using an Ensemble Smoother. Journal of Hydrology, 2012, 468-469, 188-202.	5.4	13
34	Stream-aquifer and in-stream processes affecting nitrogen along a major river and contributing tributary. Journal of Contaminant Hydrology, 2017, 199, 24-35.	3.3	13
35	Stochastic Design of Hydraulic Structures in Irrigation Canal Networks. Journal of Irrigation and Drainage Engineering - ASCE, 1993, 119, 346-363.	1.0	11
36	Deep learning for compute-efficient modeling of BMP impacts on stream-aquifer exchange and water law compliance in an irrigated river basin. Environmental Modelling and Software, 2019, 122, 104529.	4.5	11

#	ARTICLE	IF	CITATIONS
37	Optimal Irrigation Delivery System Design under Uncertainty. Journal of Irrigation and Drainage Engineering - ASCE, 1992, 118, 433-449.	1.0	10
38	River GeoDSS for Agroenvironmental Enhancement of Colorado's Lower Arkansas River Basin. II: Evaluation of Strategies. Journal of Water Resources Planning and Management - ASCE, 2010, 136, 190-200.	2.6	10
39	Multicriterion Strategic Planning for Improved Irrigation Delivery. II: Application. Journal of Irrigation and Drainage Engineering - ASCE, 1991, 117, 914-934.	1.0	9
40	Assessing Uncertainty in Mass Balance Calculation of River Nonpoint Source Loads. Journal of Environmental Engineering, ASCE, 2008, 134, 247-258.	1.4	9
41	Impact of Shallow Groundwater on Evapotranspiration Losses from Uncultivated Land in an Irrigated River Valley. Journal of Irrigation and Drainage Engineering - ASCE, 2011, 137, 501-512.	1.0	9
42	Analysis of acoustic Doppler current profiler mean velocity measurements in shallow flows. Flow Measurement and Instrumentation, 2020, 74, 101755.	2.0	9
43	Sediment and microbial fouling of experimental groundwater recharge trenches. Journal of Contaminant Hydrology, 1994, 15, 321-344.	3.3	8
44	River GeoDSS for Agroenvironmental Enhancement of Colorado's Lower Arkansas River Basin. I: Model Development and Calibration. Journal of Water Resources Planning and Management - ASCE, 2010, 136, 177-189.	2.6	8
45	Field evaluation of a polymer sealant for canal seepage reduction. Agricultural Water Management, 2021, 252, 106898.	5.6	8
46	Uncertainty in mass-balance estimates of regional irrigation-induced return flows and pollutant loads to a river. Journal of Hydrology: Regional Studies, 2018, 19, 193-210.	2.4	6
47	Irrigation of Small-Level Basins in Egypt. Journal of Irrigation and Drainage Engineering - ASCE, 1991, 117, 361-376.	1.0	4
48	Sensitivity of predicted irrigation-delivery performance to hydraulic and hydrologic uncertainty. Agricultural Water Management, 1995, 27, 267-282.	5.6	4
49	Modeling Subsurface Heterogeneity of Irrigated and Drained Fields. I: Model Development and Testing. Journal of Irrigation and Drainage Engineering - ASCE, 2013, 139, 797-808.	1.0	4
50	Institutional Constraints on Cost-Effective Water Management: Selenium Contamination in Colorado's Lower Arkansas River Valley. Journal of the American Water Resources Association, 2016, 52, 1420-1432.	2.4	4
51	Stochastic Optimal Management of Perched Saline Aquifers in Irrigated Regions. , 1989, , 181-190.		4
52	Assessing Irrigation-Induced Selenium and Iron in the Lower Arkansas River Valley in Colorado. , 2005, , .		4
53	Conjunctive Stream-Aquifer Modeling Using Artificial Neural Networks. , 2003, , 1.		3
54	Combining a River Basin Network Flow Model and Artificial Neural Networks for Salinity Control in an Irrigated Valley. , 2005, , 1.		3

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55	Modeling Subsurface Heterogeneity of Irrigated and Drained Fields. II: Multivariate Stochastic Analysis of Root-Zone Hydrosalinity and Crop Yield. Journal of Irrigation and Drainage Engineering - ASCE, 2013, 139, 809-820.	1.0	3
56	Enabling improved water and environmental management in an irrigated river basin using multi-agent optimization of reservoir operations. Environmental Modelling and Software, 2021, 135, 104909.	4.5	3
57	Velocity measurements in developing narrow open-channel flows with high free-stream turbulence: Acoustic Doppler Velocimetry (ADV) vs Laser Doppler Anemometry (LDA). Flow Measurement and Instrumentation, 2022, 87, 102206.	2.0	3
58	Strategic River Water Quality Planning Using Calibrated Stochastic Simulation. Journal of Water Resources Planning and Management - ASCE, 2004, 130, 215-231.	2.6	2
59	Hydrologic Aspects of Saline Water Table Management in Regional Shallow Aquifers. , 1991, , 51-70.		2
60	Some Insights on Flow over Sharp-Crested Weirs Using Computational Fluid Dynamics: Implications for Enhanced Flow Measurement. Journal of Irrigation and Drainage Engineering - ASCE, 2022, 148, .	1.0	2
61	Refined protocols to mitigate user-induced uncertainty for ADCP moving-boat discharge measurement in irrigation canals. Flow Measurement and Instrumentation, 2021, 82, 102060.	2.0	1