

# William W-G Yeh

## List of Publications by Year in descending order

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84  
papers

5,627  
citations

117625

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76900

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84  
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84  
docs citations

84  
times ranked

2760  
citing authors

#	ARTICLE	IF	CITATIONS
1	Water-Energy Nexus with Fast-Changing Operation Constraints in the Metropolitan Region of São Paulo, Brazil. , 2022, , .		0
2	Impacts of the COVID-19 Pandemic on the Brazilian Hydrothermal System. , 2021, , .		2
3	A Proposed Multi-Objective, Multi-Stage Stochastic Programming With Recourse Model for Reservoir Management and Operation. Water Resources Research, 2021, 57, e2020WR029200.	4.2	5
4	A Bayesian hierarchical model for estimating the statistical parameters in a three-parameter log-normal distribution for monthly average streamflows. Journal of Hydrology, 2020, 591, 125265.	5.4	6
5	A multi-objective risk management model for real-time flood control optimal operation of a parallel reservoir system. Journal of Hydrology, 2020, 590, 125264.	5.4	27
6	Streamflow scenario tree reduction based on conditional Monte Carlo sampling and regularized optimization. Journal of Hydrology, 2019, 577, 123943.	5.4	8
7	Seasonal Hydropower Planning for Data-Scarce Regions Using Multimodel Ensemble Forecasts, Remote Sensing Data, and Stochastic Programming. Water Resources Research, 2019, 55, 8583-8607.	4.2	17
8	Multivariate calibration of large scale hydrologic models: The necessity and value of a Pareto optimal approach. Advances in Water Resources, 2019, 130, 129-146.	3.8	20
9	Nonlinear model reduction of solute transport models. Advances in Water Resources, 2019, 130, 157-171.	3.8	0
10	Optimization of Large-Scale Daily Hydrothermal System Operations With Multiple Objectives. Water Resources Research, 2018, 54, 2834-2850.	4.2	20
11	A proposed Fast algorithm to construct the system matrices for a reduced-order groundwater model. Advances in Water Resources, 2017, 102, 68-83.	3.8	4
12	A decomposition-integration risk analysis method for real-time operation of a complex flood control system. Water Resources Research, 2017, 53, 2490-2506.	4.2	35
13	Real-Time Optimal Flood Control Decision Making and Risk Propagation Under Multiple Uncertainties. Water Resources Research, 2017, 53, 10635-10654.	4.2	70
14	Nonlinear model reduction of unconfined groundwater flow using POD and DEIM. Advances in Water Resources, 2016, 97, 130-143.	3.8	17
15	Impacts of the 2012-2015 Drought on the Brazilian Hydropower System. , 2016, , .		7
16	Scenario tree reduction in stochastic programming with recourse for hydropower operations. Water Resources Research, 2015, 51, 6359-6380.	4.2	58
17	A multiobjective short-term optimal operation model for a cascade system of reservoirs considering the impact on long-term energy production. Water Resources Research, 2015, 51, 3353-3369.	4.2	38
18	Independent component analysis for characterization and quantification of regional groundwater pumping. Journal of Hydrology, 2015, 527, 505-516.	5.4	14

#	ARTICLE	IF	CITATIONS
19	Trade-Off Analysis among Multiple Water Uses in a Hydropower System: Case of São Francisco River Basin, Brazil. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2015, 141, .	2.6	27
20	Hybrid Model for Short-Term Scheduling of Hydropower Systems. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2015, 141, .	2.6	12
21	Review: Optimization methods for groundwater modeling and management. <i>Hydrogeology Journal</i> , 2015, 23, 1051-1065.	2.1	61
22	Reduced order modeling of the Newton formulation of MODFLOW to solve unconfined groundwater flow. <i>Advances in Water Resources</i> , 2015, 83, 250-262.	3.8	22
23	Experimental design for estimating unknown hydraulic conductivity in an aquifer using a genetic algorithm and reduced order model. <i>Advances in Water Resources</i> , 2015, 86, 193-208.	3.8	14
24	Hydro Unit Commitment via Mixed Integer Linear Programming: A Case Study of the Three Gorges Project, China. <i>IEEE Transactions on Power Systems</i> , 2014, 29, 1232-1241.	6.5	140
25	Parameter-independent model reduction of transient groundwater flow models: Application to inverse problems. <i>Advances in Water Resources</i> , 2014, 69, 168-180.	3.8	26
26	Effectiveness and Efficiency of Scheduling Regional Water Resources Projects. <i>Water Resources Management</i> , 2013, 27, 665-693.	3.9	5
27	A reduced-order model for groundwater flow equation with random hydraulic conductivity: Application to Monte Carlo methods. <i>Water Resources Research</i> , 2013, 49, 3215-3228.	4.2	31
28	Experimental design for estimating unknown groundwater pumping using genetic algorithm and reduced order model. <i>Water Resources Research</i> , 2013, 49, 6688-6699.	4.2	17
29	Optimization of Large-Scale Hydrothermal System Operation. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2012, 138, 135-143.	2.6	63
30	Reduced order parameter estimation using quasilinearization and quadratic programming. <i>Water Resources Research</i> , 2012, 48, .	4.2	21
31	Two-Stage Stochastic Optimization of Large-Scale Hydrothermal System. , 2012, , .		5
32	A real-time groundwater management model using data assimilation. <i>Water Resources Research</i> , 2011, 47, .	4.2	15
33	Optimization of European call options considering physical delivery network and reservoir operation rules. <i>Water Resources Research</i> , 2011, 47, .	4.2	6
34	Model Calibration and Parameter Structure Identification in Characterization of Groundwater Systems. , 2011, , 159-202.		0
35	Optimal Pump and Recharge Management Model for Nitrate Removal in the Warren Groundwater Basin, California. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2010, 136, 299-308.	2.6	13
36	Snapshot selection for groundwater model reduction using proper orthogonal decomposition. <i>Water Resources Research</i> , 2010, 46, .	4.2	54

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37	Development of an objective-oriented groundwater model for conjunctive-use planning of surface water and groundwater. <i>Water Resources Research</i> , 2009, 45, .	4.2	3
38	A flow path model for regional water distribution optimization. <i>Water Resources Research</i> , 2009, 45, .	4.2	18
39	A nudging data assimilation algorithm for the identification of groundwater pumping. <i>Water Resources Research</i> , 2009, 45, .	4.2	7
40	An integrated optimization algorithm for parameter structure identification in groundwater modeling. <i>Advances in Water Resources</i> , 2008, 31, 545-560.	3.8	23
41	Optimization and capacity expansion of a water distribution system. <i>Advances in Water Resources</i> , 2008, 31, 776-786.	3.8	42
42	Improving Seawater Barrier Operation with Simulation Optimization in Southern California. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2008, 134, 171-180.	2.6	25
43	Groundwater Management Using Model Reduction via Empirical Orthogonal Functions. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2008, 134, 161-170.	2.6	48
44	Development of objective-oriented groundwater models: 1. Robust parameter identification. <i>Water Resources Research</i> , 2007, 43, .	4.2	10
45	Development of objective-oriented groundwater models: 2. Robust experimental design. <i>Water Resources Research</i> , 2007, 43, .	4.2	10
46	Model Development and Calibration of a Saltwater Intrusion Model in Southern California. <i>Journal of the American Water Resources Association</i> , 2007, 43, 1329-1343.	2.4	10
47	A diversified multiobjective GA for optimizing reservoir rule curves. <i>Advances in Water Resources</i> , 2007, 30, 1082-1093.	3.8	163
48	Experimental design for groundwater modeling and management. <i>Water Resources Research</i> , 2006, 42, .	4.2	24
49	Impacts of the 2004 tsunami on groundwater resources in Sri Lanka. <i>Water Resources Research</i> , 2006, 42, .	4.2	115
50	Geophysical parameterization and parameter structure identification using natural neighbors in groundwater inverse problems. <i>Journal of Hydrology</i> , 2005, 308, 269-283.	5.4	27
51	Optimal observation network design for parameter structure identification in groundwater modeling. <i>Water Resources Research</i> , 2005, 41, .	4.2	15
52	Optimization of Water Distribution and Water Quality by Hybrid Genetic Algorithm. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2005, 131, 431-440.	2.6	50
53	Optimal Experimental Design for Parameter Estimation and Contaminant Plume Characterization in Groundwater Modelling. , 2005, , 219-245.		2
54	Characterization and identification of aquifer heterogeneity with generalized parameterization and Bayesian estimation. <i>Water Resources Research</i> , 2004, 40, .	4.2	46

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55	Multiobjective Optimization for Sustainable Groundwater Management in Semiarid Regions. Journal of Water Resources Planning and Management - ASCE, 2004, 130, 490-497.	2.6	75
56	Global-local optimization for parameter structure identification in three-dimensional groundwater modeling. Water Resources Research, 2003, 39, .	4.2	68
57	Optimization of Reservoir Management and Operation with Hedging Rules. Journal of Water Resources Planning and Management - ASCE, 2003, 129, 86-97.	2.6	150
58	Optimization of Large-Scale Hydropower System Operations. Journal of Water Resources Planning and Management - ASCE, 2003, 129, 178-188.	2.6	224
59	Parameter Structure Identification in Groundwater Modeling: A Universal Parameterization Method. , 2003, , .		4
60	Uncertainty Analysis in Contaminated Aquifer Management. Journal of Water Resources Planning and Management - ASCE, 2002, 128, 33-45.	2.6	18
61	Experimental design and model parameter estimation for locating a dissolving dense nonaqueous phase liquid pool in groundwater. Water Resources Research, 2002, 38, 15-1-15-9.	4.2	41
62	Optimal Management of Flow in Groundwater Systems. Eos, 2000, 81, 315.	0.1	3
63	A proposed stepwise regression method for model structure identification. Water Resources Research, 1998, 34, 2561-2572.	4.2	71
64	Management Model for Conjunctive Use of Coastal Surface Water and Ground Water. Journal of Water Resources Planning and Management - ASCE, 1998, 124, 129-139.	2.6	110
65	MODEL DEVELOPMENT FOR CONJUNCTIVE USE STUDY OF THE SAN JACINTO BASIN, CALIFORNIA. Journal of the American Water Resources Association, 1995, 31, 227-241.	2.4	9
66	Optimal pumping test design for parameter estimation and prediction in groundwater hydrology. Water Resources Research, 1990, 26, 779-791.	4.2	14
67	Coupled inverse problems in groundwater modeling: 1. Sensitivity analysis and parameter identification. Water Resources Research, 1990, 26, 2507-2525.	4.2	187
68	Optimum experimental design for parameter identification in groundwater hydrology. Water Resources Research, 1989, 25, 1025-1040.	4.2	65
69	Optimal pumping test design for the parameter identification of groundwater systems. Water Resources Research, 1989, 25, 1737-1747.	4.2	28
70	Use of stochastic dynamic programming for reservoir management. Water Resources Research, 1987, 23, 983-996.	4.2	68
71	Optimal control of nonlinear groundwater hydraulics using differential dynamic programming. Water Resources Research, 1987, 23, 2097-2106.	4.2	94
72	Review of Parameter Identification Procedures in Groundwater Hydrology: The Inverse Problem. Water Resources Research, 1986, 22, 95-108.	4.2	974

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73	A Heuristic Solution Procedure for Expansion Sequencing Problems. Water Resources Research, 1986, 22, 1197-1206.	4.2	9
74	Reservoir Management and Operations Models: A State-of-the-Art Review. Water Resources Research, 1985, 21, 1797-1818.	4.2	1,152
75	Identification of Parameter Structure in Groundwater Inverse Problem. Water Resources Research, 1985, 21, 869-883.	4.2	125
76	An extended identifiability in aquifer parameter identification and optimal pumping test design. Water Resources Research, 1984, 20, 1837-1847.	4.2	39
77	Aquifer parameter identification with kriging and optimum parameterization. Water Resources Research, 1983, 19, 225-233.	4.2	68
78	Multiobjective analysis of multireservoir operations. Water Resources Research, 1982, 18, 1326-1336.	4.2	76
79	Aquifer parameter identification with optimum dimension in parameterization. Water Resources Research, 1981, 17, 664-672.	4.2	160
80	Operations Models for Central Valley Project. Finance and Development, 1976, 102, 101-115.	0.6	13
81	Optimization of real time operation of a multiple-reservoir system. Water Resources Research, 1974, 10, 1107-1112.	4.2	102
82	Identification of parameters in unsteady open channel flows. Water Resources Research, 1972, 8, 956-965.	4.2	102
83	Quasilinearization and the Identification of Aquifer Parameters. Water Resources Research, 1971, 7, 375-381.	4.2	27
84	Optimal Identification of Aquifer Diffusivity Using Quasilinearization. Water Resources Research, 1971, 7, 955-962.	4.2	33