Alex S Mayer

List of Publications by Year
in descending order

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53 papers	1,937 citations	331259 21 h-index	253896 43 g-index
55 all docs	55 docs citations	55 times ranked	1654 citing authors

#	Article	IF	Citations
1	Dissolution of Trapped Nonaqueous Phase Liquids: Mass Transfer Characteristics. Water Resources Research, 1990, 26, 2783-2796.	1.7	483
2	Pump-and-treat optimization using well locations and pumping rates as decision variables. Water Resources Research, 1997, 33, 1001-1012.	1.7	153
3	Multi-objective optimal design of groundwater remediation systems: application of the niched Pareto genetic algorithm (NPGA). Advances in Water Resources, 2002, 25, 51-65.	1.7	139
4	The influence of mass transfer characteristics and porous media heterogeneity on nonaqueous phase dissolution. Water Resources Research, 1996, 32, 1551-1567.	1.7	124
5	Economic valuation of environmental services sustained by water flows in the Yaqui River Delta. Ecological Economics, 2008, 65, 155-166.	2.9	123
6	Optimal design for problems involving flow and transport phenomena in saturated subsurface systems. Advances in Water Resources, 2002, 25, 1233-1256.	1.7	106
7	Measurement of Mass-Transfer Rates for Surfactant-Enhanced Solubilization of Nonaqueous Phase Liquids. Environmental Science & Technology, 1999, 33, 2965-2972.	4.6	76
8	Stochastic management of pump-and-treat strategies using surrogate functions. Advances in Water Resources, 2006, 29, 1901-1917.	1.7	63
9	The effects of surfactant formulation on nonequilibrium NAPL solubilization. Journal of Contaminant Hydrology, 2003, 60, 55-75.	1.6	53
10	Estimation of fault-zone conductance by calibration of a regional groundwater flow model: Desert Hot Springs, California. Hydrogeology Journal, 2007, 15, 1093-1106.	0.9	42
11	Visualization of surfactant-enhanced nonaqueous phase liquid mobilization and solubilization in a two-dimensional micromodel. Water Resources Research, 2001, 37, 523-537.	1.7	38
12	The economics of aquifer protection plans under climate water stress: New insights from hydroeconomic modeling. Journal of Hydrology, 2019, 576, 667-684.	2.3	33
13	Classification of watersheds into integrated social and biophysical indicators with clustering analysis. Ecological Indicators, 2014, 45, 340-349.	2.6	32
14	Rationalizing Systems Analysis for the Evaluation of Adaptation Strategies in Complex Humanâ€Water Systems. Earth's Future, 2018, 6, 1181-1206.	2.4	31
15	Optimal design of pump-and-treat systems under uncertain hydraulic conductivity and plume distribution. Journal of Contaminant Hydrology, 2008, 100, 30-46.	1.6	28
16	Relationship between Water Withdrawals and Freshwater Ecosystem Water Scarcity Quantified at Multiple Scales for a Great Lakes Watershed. Journal of Water Resources Planning and Management - ASCE, 2013, 139, 671-681.	1.3	26
17	Developing the greatest Blue Economy: Water productivity, fresh water depletion, and virtual water trade in the Great Lakes basin. Earth's Future, 2016, 4, 282-297.	2.4	26
18	Data-worth analysis for multiobjective optimal design of pump-and-treat remediation systems. Advances in Water Resources, 2007, 30, 1815-1830.	1.7	24

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19	Integrated Water Resources Optimization Models: An Assessment of a Multidisciplinary Tool for Sustainable Water Resources Management Strategies. Geography Compass, 2009, 3, 1176-1195.	1.5	24
20	The Significance of Hysteresis in Modeling Solute Transport in Unsaturated Porous Media. Soil Science Society of America Journal, 1998, 62, 1506-1512.	1.2	23
21	Exploring the application of participatory modeling approaches in the Sonora River Basin, Mexico. Environmental Modelling and Software, 2014, 52, 273-282.	1.9	22
22	Groundwater Availability as Constrained by Hydrogeology and Environmental Flows. Ground Water, 2014, 52, 225-238.	0.7	19
23	Effects of future urban and biofuel crop expansions on the riverine export of phosphorus to the Laurentian Great Lakes. Ecological Modelling, 2014, 277, 27-37.	1.2	19
24	Bioenergy Development Policy and Practice Must Recognize Potential Hydrologic Impacts: Lessons from the Americas. Environmental Management, 2015, 56, 1295-1314.	1.2	19
25	Evaluating ecosystem service trade-offs along a land-use intensification gradient in central Veracruz, Mexico. Ecosystem Services, 2020, 45, 101181.	2.3	19
26	Land use change effects on catchment streamflow response in a humid tropical montane cloud forest region, central Veracruz, Mexico. Hydrological Processes, 2020, 34, 3555-3570.	1.1	15
27	Effect of Flow Regime on Physical Nonequilibrium Transport in Unsaturated Porous Media. Vadose Zone Journal, 2008, 7, 981-991.	1.3	14
28	Measuring the net benefits of payments for hydrological services programs in Mexico. Ecological Economics, 2020, 175, 106666.	2.9	14
29	Estimation of Streambed Groundwater Fluxes Associated with Coaster Brook Trout Spawning Habitat. Ground Water, 2012, 50, 432-441.	0.7	12
30	Investigating Management of Transboundary Waters through Cooperation: A Serious Games Case Study of the Hueco Bolson Aquifer in Chihuahua, Mexico and Texas, United States. Water (Switzerland), 2021, 13, 2001.	1.2	12
31	Simultaneous optimization of dense non-aqueous phase liquid (DNAPL) source and contaminant plume remediation. Journal of Contaminant Hydrology, 2007, 91, 288-311.	1.6	11
32	Integrated Hydrologic-Economic-Institutional Model of Environmental Flow Strategies for Rio Yaqui Basin, Sonora, Mexico. Journal of Water Resources Planning and Management - ASCE, 2011, 137, 227-237.	1.3	11
33	Participatory Modeling Workshops in a Water-Stressed Basin Result in Gains in Modeling Capacity but Reveal Disparity in Water Resources Management Priorities. Water Resources Management, 2017, 31, 4731-4744.	1.9	11
34	Hydrologic impacts and trade-offs associated with forest-based bioenergy development practices in a snow-dominated watershed, Wisconsin, USA. Journal of Hydrology, 2019, 574, 421-429.	2.3	11
35	Community partnered projects: a case study of a collaborative effort to improve sanitation in a marginalized community in northwest Mexico. Environment, Development and Sustainability, 2009, 11, 197-213.	2.7	7
36	Tributary phosphorus monitoring in the U.S. portion of the Laurentian Great Lake Basin: Drivers and challenges. Journal of Great Lakes Research, 2013, 39, 569-577.	0.8	7

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37	Willingness to pay for improved water supplies in rural Ugandan villages. Journal of Water Sanitation and Hygiene for Development, 2014, 4, 490-498.	0.7	7
38	Modeling waterâ€energy tradeoffs for cultivating algae for biofuels in a semiâ€arid region with fresh and brackish water supplies. Biofuels, Bioproducts and Biorefining, 2020, 14, 1254-1269.	1.9	7
39	The importance of considering shifts in seasonal changes in discharges when predicting future phosphorus loads in streams. Biogeochemistry, 2015, 126, 153-172.	1.7	6
40	Equilibrium versus Nonequilibrium Treatment Modeling in the Optimal Design of Pump-and-Treat Groundwater Remediation Systems. Journal of Environmental Engineering, ASCE, 2007, 133, 809-818.	0.7	5
41	Hydrologic impacts and trade-offs associated with developing oil palm for bioenergy in Tabasco, Mexico. Journal of Hydrology: Regional Studies, 2020, 31, 100722.	1.0	5
42	Assessment of water treatment residuals as sorbent material in permeable reactive barriers: Application to a copperâ€contaminated site. Remediation, 2018, 29, 45-51.	1.1	4
43	Spatially variable hydrologic impact and biomass production tradeoffs associated with Eucalyptus (E.) Tj ETQq1 1 0.784314 rgBT /Ov	2.5	4
44	A comprehensive calibration and validation of SWAT-T using local datasets, evapotranspiration and streamflow in a tropical montane cloud forest area with permeable substrate in central Veracruz, Mexico. Journal of Hydrology, 2021, 603, 126781.	2.3	4
45	Quiahua, the First Citizen Science Rainfall Monitoring Network in Mexico: Filling Critical Gaps in Rainfall Data for Evaluating a Payment for Hydrologic Services Program. Citizen Science: Theory and Practice, 2020, 5, .	0.6	4
46	Assessing ecosystem service outcomes from payments for hydrological services programs in Veracruz, Mexico: Future deforestation threats and spatial targeting. Ecosystem Services, 2022, 53, 101401.	2.3	4
47	Perspectives on Water Resources among Anishinaabe and Nonâ€Native Residents of the Great Lakes Region. Journal of Contemporary Water Research and Education, 2018, 163, 94-108.	0.7	3
48	Spatiotemporal Dimensions of Water Stress Accounting: Incorporating Groundwaterâ€“Surface Water Interactions and Ecological Thresholds. Environmental Science & Technology, 2019, 53, 2316-2323.	4.6	3
49	Climate Change Impacts on Agricultural Water Availability in the Middle Rio Grande Basin. Journal of the American Water Resources Association, 0, , .	1.0	3
50	Assessment of a sustainability program in graduate Civil and Environmental Engineering Education. , 2013, , .		2
51	Urban evaporative consumptive use for waterâ€scarce cities in the United States and Mexico. AWWA Water Science, 2020, 2, e1185.	1.0	2
52	Using remediation time as an optimization variable in groundwater remediation systems. Developments in Water Science, 2004, , 1171-1180.	0.1	1
53	Least-Cost Provision of Ecosystem Services from Water: When, Where, and How Much?. Journal of Water Resources Planning and Management - ASCE, 2022, 148, .	1.3	1