

# 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  
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55  
all docs

55  
docs citations

55  
times ranked

1654  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Spatially variable hydrologic impact and biomass production tradeoffs associated with Eucalyptus ( E.) Tj ETQq1 1 0,784314 rgBT /Ov	2.5	4
4	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
5	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
6	Evaluating ecosystem service trade-offs along a land-use intensification gradient in central Veracruz, Mexico. Ecosystem Services, 2020, 45, 101181.	2.3	19
7	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
8	Urban evaporative consumptive use for waterâ€scarce cities in the United States and Mexico. AWWA Water Science, 2020, 2, e1185.	1.0	2
9	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
10	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
11	Measuring the net benefits of payments for hydrological services programs in Mexico. Ecological Economics, 2020, 175, 106666.	2.9	14
12	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
13	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
14	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
15	Spatiotemporal Dimensions of Water Stress Accounting: Incorporating Groundwaterâ€Surface Water Interactions and Ecological Thresholds. Environmental Science & Technology, 2019, 53, 2316-2323.	4.6	3
16	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
17	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
18	Rationalizing Systems Analysis for the Evaluation of Adaptation Strategies in Complex Humanâ€Water Systems. Earth's Future, 2018, 6, 1181-1206.	2.4	31

#	ARTICLE	IF	CITATIONS
19	Participatory Modeling Workshops in a Water-Stressed Basin Result in Gains in Modeling Capacity but Reveal Disparity in Water Resources Management Priorities. <i>Water Resources Management</i> , 2017, 31, 4731-4744.	1.9	11
20	Developing the greatest Blue Economy: Water productivity, fresh water depletion, and virtual water trade in the Great Lakes basin. <i>Earth's Future</i> , 2016, 4, 282-297.	2.4	26
21	The importance of considering shifts in seasonal changes in discharges when predicting future phosphorus loads in streams. <i>Biogeochemistry</i> , 2015, 126, 153-172.	1.7	6
22	Bioenergy Development Policy and Practice Must Recognize Potential Hydrologic Impacts: Lessons from the Americas. <i>Environmental Management</i> , 2015, 56, 1295-1314.	1.2	19
23	Groundwater Availability as Constrained by Hydrogeology and Environmental Flows. <i>Ground Water</i> , 2014, 52, 225-238.	0.7	19
24	Exploring the application of participatory modeling approaches in the Sonora River Basin, Mexico. <i>Environmental Modelling and Software</i> , 2014, 52, 273-282.	1.9	22
25	Effects of future urban and biofuel crop expansions on the riverine export of phosphorus to the Laurentian Great Lakes. <i>Ecological Modelling</i> , 2014, 277, 27-37.	1.2	19
26	Classification of watersheds into integrated social and biophysical indicators with clustering analysis. <i>Ecological Indicators</i> , 2014, 45, 340-349.	2.6	32
27	Willingness to pay for improved water supplies in rural Ugandan villages. <i>Journal of Water Sanitation and Hygiene for Development</i> , 2014, 4, 490-498.	0.7	7
28	Relationship between Water Withdrawals and Freshwater Ecosystem Water Scarcity Quantified at Multiple Scales for a Great Lakes Watershed. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2013, 139, 671-681.	1.3	26
29	Tributary phosphorus monitoring in the U.S. portion of the Laurentian Great Lake Basin: Drivers and challenges. <i>Journal of Great Lakes Research</i> , 2013, 39, 569-577.	0.8	7
30	Assessment of a sustainability program in graduate Civil and Environmental Engineering Education. , 2013, , .		2
31	Estimation of Streambed Groundwater Fluxes Associated with Coaster Brook Trout Spawning Habitat. <i>Ground Water</i> , 2012, 50, 432-441.	0.7	12
32	Integrated Hydrologic-Economic-Institutional Model of Environmental Flow Strategies for Rio Yaqui Basin, Sonora, Mexico. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2011, 137, 227-237.	1.3	11
33	Integrated Water Resources Optimization Models: An Assessment of a Multidisciplinary Tool for Sustainable Water Resources Management Strategies. <i>Geography Compass</i> , 2009, 3, 1176-1195.	1.5	24
34	Community partnered projects: a case study of a collaborative effort to improve sanitation in a marginalized community in northwest Mexico. <i>Environment, Development and Sustainability</i> , 2009, 11, 197-213.	2.7	7
35	Economic valuation of environmental services sustained by water flows in the Yaqui River Delta. <i>Ecological Economics</i> , 2008, 65, 155-166.	2.9	123
36	Optimal design of pump-and-treat systems under uncertain hydraulic conductivity and plume distribution. <i>Journal of Contaminant Hydrology</i> , 2008, 100, 30-46.	1.6	28

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37	Effect of Flow Regime on Physical Nonequilibrium Transport in Unsaturated Porous Media. <i>Vadose Zone Journal</i> , 2008, 7, 981-991.	1.3	14
38	Equilibrium versus Nonequilibrium Treatment Modeling in the Optimal Design of Pump-and-Treat Groundwater Remediation Systems. <i>Journal of Environmental Engineering, ASCE</i> , 2007, 133, 809-818.	0.7	5
39	Simultaneous optimization of dense non-aqueous phase liquid (DNAPL) source and contaminant plume remediation. <i>Journal of Contaminant Hydrology</i> , 2007, 91, 288-311.	1.6	11
40	Estimation of fault-zone conductance by calibration of a regional groundwater flow model: Desert Hot Springs, California. <i>Hydrogeology Journal</i> , 2007, 15, 1093-1106.	0.9	42
41	Data-worth analysis for multiobjective optimal design of pump-and-treat remediation systems. <i>Advances in Water Resources</i> , 2007, 30, 1815-1830.	1.7	24
42	Stochastic management of pump-and-treat strategies using surrogate functions. <i>Advances in Water Resources</i> , 2006, 29, 1901-1917.	1.7	63
43	Using remediation time as an optimization variable in groundwater remediation systems. <i>Developments in Water Science</i> , 2004, , 1171-1180.	0.1	1
44	The effects of surfactant formulation on nonequilibrium NAPL solubilization. <i>Journal of Contaminant Hydrology</i> , 2003, 60, 55-75.	1.6	53
45	Multi-objective optimal design of groundwater remediation systems: application of the niched Pareto genetic algorithm (NPGA). <i>Advances in Water Resources</i> , 2002, 25, 51-65.	1.7	139
46	Optimal design for problems involving flow and transport phenomena in saturated subsurface systems. <i>Advances in Water Resources</i> , 2002, 25, 1233-1256.	1.7	106
47	Visualization of surfactant-enhanced nonaqueous phase liquid mobilization and solubilization in a two-dimensional micromodel. <i>Water Resources Research</i> , 2001, 37, 523-537.	1.7	38
48	Measurement of Mass-Transfer Rates for Surfactant-Enhanced Solubilization of Nonaqueous Phase Liquids. <i>Environmental Science &amp; Technology</i> , 1999, 33, 2965-2972.	4.6	76
49	The Significance of Hysteresis in Modeling Solute Transport in Unsaturated Porous Media. <i>Soil Science Society of America Journal</i> , 1998, 62, 1506-1512.	1.2	23
50	Pump-and-treat optimization using well locations and pumping rates as decision variables. <i>Water Resources Research</i> , 1997, 33, 1001-1012.	1.7	153
51	The influence of mass transfer characteristics and porous media heterogeneity on nonaqueous phase dissolution. <i>Water Resources Research</i> , 1996, 32, 1551-1567.	1.7	124
52	Dissolution of Trapped Nonaqueous Phase Liquids: Mass Transfer Characteristics. <i>Water Resources Research</i> , 1990, 26, 2783-2796.	1.7	483
53	Climate Change Impacts on Agricultural Water Availability in the Middle Rio Grande Basin. <i>Journal of the American Water Resources Association</i> , 0, , .	1.0	3