Alex S Mayer

List of Publications by Year
in descending order

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53 papers	1,937 citations	331670 21 h-index	254184 43 g-index
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, .	2.6	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.	5.4	4
3	Spatially variable hydrologic impact and biomass production tradeoffs associated with Eucalyptus (E.) Tj ETQq1 1 0.784314 rgBT /Ov	5.6	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.	2.7	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.	5.4	4
6	Evaluating ecosystem service trade-offs along a land-use intensification gradient in central Veracruz, Mexico. Ecosystem Services, 2020, 45, 101181.	5.4	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.	3.7	7
8	Urban evaporative consumptive use for waterâ€scarce cities in the United States and Mexico. AWWA Water Science, 2020, 2, e1185.	2.1	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.	2.4	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.	2.6	15
11	Measuring the net benefits of payments for hydrological services programs in Mexico. Ecological Economics, 2020, 175, 106666.	5.7	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, .	1.2	4
13	The economics of aquifer protection plans under climate water stress: New insights from hydroeconomic modeling. Journal of Hydrology, 2019, 576, 667-684.	5.4	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.	5.4	11
15	Spatiotemporal Dimensions of Water Stress Accounting: Incorporating Groundwaterâ€“Surface Water Interactions and Ecological Thresholds. Environmental Science & Technology, 2019, 53, 2316-2323.	10.0	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.	2.4	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.	6.3	31

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19	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.	3.9	11
20	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.	6.3	26
21	The importance of considering shifts in seasonal changes in discharges when predicting future phosphorus loads in streams. Biogeochemistry, 2015, 126, 153-172.	3.5	6
22	Bioenergy Development Policy and Practice Must Recognize Potential Hydrologic Impacts: Lessons from the Americas. Environmental Management, 2015, 56, 1295-1314.	2.7	19
23	Groundwater Availability as Constrained by Hydrogeology and Environmental Flows. Ground Water, 2014, 52, 225-238.	1.3	19
24	Exploring the application of participatory modeling approaches in the Sonora River Basin, Mexico. Environmental Modelling and Software, 2014, 52, 273-282.	4.5	22
25	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.	2.5	19
26	Classification of watersheds into integrated social and biophysical indicators with clustering analysis. Ecological Indicators, 2014, 45, 340-349.	6.3	32
27	Willingness to pay for improved water supplies in rural Ugandan villages. Journal of Water Sanitation and Hygiene for Development, 2014, 4, 490-498.	1.8	7
28	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.	2.6	26
29	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.	1.9	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. Ground Water, 2012, 50, 432-441.	1.3	12
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.	2.6	11
33	Integrated Water Resources Optimization Models: An Assessment of a Multidisciplinary Tool for Sustainable Water Resources Management Strategies. Geography Compass, 2009, 3, 1176-1195.	2.7	24
34	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.	5.0	7
35	Economic valuation of environmental services sustained by water flows in the Yaqui River Delta. Ecological Economics, 2008, 65, 155-166.	5.7	123
36	Optimal design of pump-and-treat systems under uncertain hydraulic conductivity and plume distribution. Journal of Contaminant Hydrology, 2008, 100, 30-46.	3.3	28

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37	Effect of Flow Regime on Physical Nonequilibrium Transport in Unsaturated Porous Media. Vadose Zone Journal, 2008, 7, 981-991.	2.2	14
38	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.	1.4	5
39	Simultaneous optimization of dense non-aqueous phase liquid (DNAPL) source and contaminant plume remediation. Journal of Contaminant Hydrology, 2007, 91, 288-311.	3.3	11
40	Estimation of fault-zone conductance by calibration of a regional groundwater flow model: Desert Hot Springs, California. Hydrogeology Journal, 2007, 15, 1093-1106.	2.1	42
41	Data-worth analysis for multiobjective optimal design of pump-and-treat remediation systems. Advances in Water Resources, 2007, 30, 1815-1830.	3.8	24
42	Stochastic management of pump-and-treat strategies using surrogate functions. Advances in Water Resources, 2006, 29, 1901-1917.	3.8	63
43	Using remediation time as an optimization variable in groundwater remediation systems. Developments in Water Science, 2004, , 1171-1180.	0.1	1
44	The effects of surfactant formulation on nonequilibrium NAPL solubilization. Journal of Contaminant Hydrology, 2003, 60, 55-75.	3.3	53
45	Multi-objective optimal design of groundwater remediation systems: application of the niched Pareto genetic algorithm (NPGA). Advances in Water Resources, 2002, 25, 51-65.	3.8	139
46	Optimal design for problems involving flow and transport phenomena in saturated subsurface systems. Advances in Water Resources, 2002, 25, 1233-1256.	3.8	106
47	Visualization of surfactant-enhanced nonaqueous phase liquid mobilization and solubilization in a two-dimensional micromodel. Water Resources Research, 2001, 37, 523-537.	4.2	38
48	Measurement of Mass-Transfer Rates for Surfactant-Enhanced Solubilization of Nonaqueous Phase Liquids. Environmental Science & Technology, 1999, 33, 2965-2972.	10.0	76
49	The Significance of Hysteresis in Modeling Solute Transport in Unsaturated Porous Media. Soil Science Society of America Journal, 1998, 62, 1506-1512.	2.2	23
50	Pump-and-treat optimization using well locations and pumping rates as decision variables. Water Resources Research, 1997, 33, 1001-1012.	4.2	153
51	The influence of mass transfer characteristics and porous media heterogeneity on nonaqueous phase dissolution. Water Resources Research, 1996, 32, 1551-1567.	4.2	124
52	Dissolution of Trapped Nonaqueous Phase Liquids: Mass Transfer Characteristics. Water Resources Research, 1990, 26, 2783-2796.	4.2	483
53	Climate Change Impacts on Agricultural Water Availability in the Middle Rio Grande Basin. Journal of the American Water Resources Association, 0, , .	2.4	3