

# Michael H Young

## List of Publications by Year in descending order

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94  
papers

2,217  
citations

218677

26  
h-index

276875

41  
g-index

103  
all docs

103  
docs citations

103  
times ranked

3072  
citing authors

#	ARTICLE	IF	CITATIONS
1	Green-Ampt infiltration model for sloping surfaces. <i>Water Resources Research</i> , 2006, 42, .	4.2	156
2	Soil structure is an important omission in Earth System Models. <i>Nature Communications</i> , 2020, 11, 522.	12.8	138
3	Development and analysis of the Soil Water Infiltration Global database. <i>Earth System Science Data</i> , 2018, 10, 1237-1263.	9.9	85
4	Effects of rainfall characteristics on infiltration and redistribution patterns in revegetation-stabilized desert ecosystems. <i>Journal of Hydrology</i> , 2008, 358, 134-143.	5.4	79
5	Influence of a Nonionic Surfactant on the Water Retention Properties of Unsaturated Soils. <i>Soil Science Society of America Journal</i> , 2001, 65, 1392-1399.	2.2	77
6	Estimating aquifer hydraulic properties using sinusoidal pumping at the Savannah River site, South Carolina, USA. <i>Hydrogeology Journal</i> , 2003, 11, 466-482.	2.1	74
7	LARGE WEIGHING LYSIMETERS FOR WATER USE AND DEEP PERCOLATION STUDIES. <i>Soil Science</i> , 1996, 161, 491-501.	0.9	74
8	Invasion of shrublands by exotic grasses: ecohydrological consequences in cold versus warm deserts. <i>Ecohydrology</i> , 2012, 5, 160-173.	2.4	72
9	Penman Monteith Crop Coefficients for Use with Desert Turf Systems. <i>Crop Science</i> , 2001, 41, 1197-1206.	1.8	47
10	Toward better hydraulic fracturing fluids and their application in energy production: A review of sustainable technologies and reduction of potential environmental impacts. <i>Journal of Petroleum Science and Engineering</i> , 2019, 173, 793-803.	4.2	47
11	Field and Laboratory Evaluation of the CS655 Soil Water Content Sensor. <i>Vadose Zone Journal</i> , 2018, 17, 1-16.	2.2	45
12	Two- and three-parameter calibrations of time domain reflectometry for soil moisture measurement. <i>Water Resources Research</i> , 1997, 33, 2417-2421.	4.2	42
13	Estimation of depth averaged unsaturated soil hydraulic properties from infiltration experiments. <i>Journal of Hydrology</i> , 2001, 242, 26-42.	5.4	37
14	Flexible Time Domain Reflectometry Probe for Deep Vadose Zone Monitoring. <i>Vadose Zone Journal</i> , 2003, 2, 270-275.	2.2	36
15	Reducing Saturated Hydraulic Conductivity of Sandy Soils with Polyacrylamide. <i>Soil Science Society of America Journal</i> , 2009, 73, 13-20.	2.2	36
16	Controls on Water Use for Thermoelectric Generation: Case Study Texas, U.S.. <i>Environmental Science &amp; Technology</i> , 2013, 47, 11326-11334.	10.0	34
17	Microtopographic control on the ground thermal regime in ice wedge polygons. <i>Cryosphere</i> , 2018, 12, 1957-1968.	3.9	34
18	Dryland Ecohydrology in the Anthropocene: Taking Stock of Human-Ecological Interactions. <i>Geography Compass</i> , 2011, 5, 112-127.	2.7	33

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19	Influence of relative surface age on hydraulic properties and infiltration on soils associated with desert pavements. <i>Catena</i> , 2008, 72, 169-178.	5.0	31
20	Monitoring Vegetation Phenological Cycles in Two Different Semi-Arid Environmental Settings Using a Ground-Based NDVI System: A Potential Approach to Improve Satellite Data Interpretation. <i>Remote Sensing</i> , 2010, 2, 990-1013.	4.0	31
21	Geochemical sensitivity to CO <sub>2</sub> leakage: detection in potable aquifers at carbon sequestration sites. , 2014, 4, 384-399.		30
22	Diurnal fluctuations of tensiometric readings due to surface temperature changes. <i>Water Resources Research</i> , 1998, 34, 2863-2869.	4.2	29
23	Long-term effects of restoration on soil hydraulic properties in revegetation-stabilized desert ecosystems. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	29
24	Quantifying the effects of phenology on ecosystem evapotranspiration in planted grassland mesocosms using EcoCELL technology. <i>Agricultural and Forest Meteorology</i> , 2003, 118, 173-183.	4.8	28
25	Simulating the Effect of Vegetation in Formation of Pedogenic Carbonate. <i>Soil Science Society of America Journal</i> , 2014, 78, 914-924.	2.2	28
26	Steering operational synergies in terrestrial observation networks: opportunity for advancing Earth system dynamics modelling. <i>Earth System Dynamics</i> , 2018, 9, 593-609.	7.1	28
27	The Texas Soil Observation Network: A Comprehensive Soil Moisture Dataset for Remote Sensing and Land Surface Model Validation. <i>Vadose Zone Journal</i> , 2019, 18, 1-20.	2.2	28
28	Evapotranspiration of mixed shrub communities in phreatophytic zones of the Great Basin region of Nevada (USA). <i>Ecohydrology</i> , 2011, 4, 807-822.	2.4	27
29	A New Technique for Characterizing the Efficacy of Fugitive Dust Suppressants. <i>Journal of the Air and Waste Management Association</i> , 2009, 59, 603-612.	1.9	26
30	Interference of river level changes on riparian zone evapotranspiration estimates from diurnal groundwater level fluctuations. <i>Journal of Hydrology</i> , 2011, 403, 381-389.	5.4	26
31	Numerical Modeling of Coupled Water Flow and Heat Transport in Soil and Snow. <i>Soil Science Society of America Journal</i> , 2016, 80, 247-263.	2.2	26
32	Spatial structure of hydraulic properties from canopy to interspace in the Mojave Desert. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	25
33	Changes in Soil Structure and Hydraulic Properties in a Wooded Shrubland Ecosystem following a Prescribed Fire. <i>Soil Science Society of America Journal</i> , 2012, 76, 1965-1977.	2.2	25
34	Soil disturbance and hydrologic response at the National Training Center, Ft. Irwin, California. <i>Journal of Arid Environments</i> , 2006, 67, 456-472.	2.4	24
35	Upscaling Schemes and Relationships for the Gardner and van Genuchten Hydraulic Functions for Heterogeneous Soils. <i>Vadose Zone Journal</i> , 2007, 6, 186-195.	2.2	24
36	Spatiotemporal patterns in nutrient loads, nutrient concentrations, and algal biomass in Lake Taihu, China. <i>Lake and Reservoir Management</i> , 2011, 27, 298-309.	1.3	24

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37	Leveraging Environmental Research and Observation Networks to Advance Soil Carbon Science. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 1047-1055.	3.0	24
38	Brief communication: Rapid machine-learning-based extraction and measurement of ice wedge polygons in high-resolution digital elevation models. <i>Cryosphere</i> , 2019, 13, 237-245.	3.9	24
39	Impacts of interrelated biotic and abiotic processes during the past 125000 years of landscape evolution in the Northern Mojave Desert, Nevada, USA. <i>Journal of Arid Environments</i> , 2007, 69, 633-657.	2.4	23
40	Correcting Dual-€Probe Heat-€Pulse Readings for Changes in Ambient Temperature. <i>Vadose Zone Journal</i> , 2008, 7, 22-30.	2.2	23
41	Influence of surfactants on unsaturated water flow and solute transport. <i>Water Resources Research</i> , 2015, 51, 1977-1988.	4.2	23
42	A gas-phase partitioning tracer method for the in situ measurement of soil-water content. <i>Water Resources Research</i> , 1999, 35, 3699-3707.	4.2	22
43	Variability of soil physical and hydraulic properties at the Mojave Global Change Facility, Nevada: Implications for water budget and evapotranspiration. <i>Journal of Arid Environments</i> , 2009, 73, 733-744.	2.4	22
44	Soil heterogeneity in Mojave Desert shrublands: Biotic and abiotic processes. <i>Water Resources Research</i> , 2012, 48, .	4.2	22
45	Optimal parameters for the Green-Ampt infiltration model under rainfall conditions. <i>Journal of Hydrology and Hydromechanics</i> , 2015, 63, 93-101.	2.0	22
46	Physiological Response of <i>Daphnia magna</i> to Linear Anionic Polyacrylamide: Ecological Implications for Receiving Waters. <i>Water, Air, and Soil Pollution</i> , 2010, 212, 309-317.	2.4	18
47	Microbially Mediated Aerobic and Anaerobic Degradation of Acrylamide in a Western United States Irrigation Canal. <i>Journal of Environmental Quality</i> , 2010, 39, 1563-1569.	2.0	18
48	Impacts from Above-Ground Activities in the Eagle Ford Shale Play on Landscapes and Hydrologic Flows, La Salle County, Texas. <i>Environmental Management</i> , 2015, 55, 1262-1275.	2.7	18
49	Impacts of riparian zone plant water use on temporal scaling of groundwater systems. <i>Hydrological Processes</i> , 2012, 26, 1352-1360.	2.6	17
50	Time Series Analysis of Energy Production and Associated Landscape Fragmentation in the Eagle Ford Shale Play. <i>Environmental Management</i> , 2017, 60, 852-866.	2.7	17
51	A Laboratory Method for Determining the Unsaturated Hydraulic Properties of Soil Peds. <i>Soil Science Society of America Journal</i> , 2005, 69, 807-815.	2.2	15
52	Gas source attribution techniques for assessing leakage at geologic CO <sub>2</sub> storage sites: Evaluating a CO <sub>2</sub> and CH <sub>4</sub> soil gas anomaly at the Cranfield CO <sub>2</sub> -EOR site. <i>Chemical Geology</i> , 2017, 454, 93-104.	3.3	15
53	High-resolution mapping of spatial heterogeneity in ice wedge polygon geomorphology near Prudhoe Bay, Alaska. <i>Scientific Data</i> , 2020, 7, 87.	5.3	15
54	Airborne lidar on the Alaskan North Slope: Wetlands mapping, lake volumes, and permafrost features. <i>The Leading Edge</i> , 2013, 32, 798-805.	0.7	14

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55	Defoliation effects of <i>Diorhabda carinulata</i> on tamarisk evapotranspiration and groundwater levels. <i>Ecohydrology</i> , 2015, 8, 1560-1571.	2.4	14
56	Characterizing Disturbed Desert Soils Using Multiobjective Parameter Optimization. <i>Vadose Zone Journal</i> , 2013, 12, 1-23.	2.2	13
57	Fate and Transport of Thirteen Pharmaceutical and Personal Care Products in a Controlled Irrigated Turfgrass System. <i>Agronomy Journal</i> , 2012, 104, 1244-1254.	1.8	12
58	Feedbacks Between Surface Deformation and Permafrost Degradation in Ice Wedge Polygons, Arctic Coastal Plain, Alaska. <i>Journal of Geophysical Research F: Earth Surface</i> , 2020, 125, e2019JF005349.	2.8	12
59	Variability of wetting front velocities during a field-scale infiltration experiment. <i>Water Resources Research</i> , 1999, 35, 3079-3087.	4.2	10
60	Estimating the Fine Soil Fraction of Desert Pavements Using Ground Penetrating Radar. <i>Vadose Zone Journal</i> , 2006, 5, 720-730.	2.2	10
61	Effects of paleoclimate and time-varying canopy structures on paleowater fluxes. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	10
62	Numerical Modelling of Ice-Wedge Polygon Geomorphic Transition. <i>Permafrost and Periglacial Processes</i> , 2017, 28, 347-355.	3.4	10
63	Incorporating Parametric Uncertainty in the Design of Alternative Landfill Covers in Arid Regions. <i>Vadose Zone Journal</i> , 2006, 5, 742-750.	2.2	9
64	Probabilistic Analysis of Monitoring Systems for Detecting Subsurface Contaminant Plumes. <i>Ground Water</i> , 1998, 36, 894-900.	1.3	7
65	Optimized System to Improve Pumping Rate Stability During Aquifer Tests. <i>Ground Water</i> , 2002, 40, 629-637.	1.3	7
66	Introduction to special section on Bridging Hydrology, Soil Science, and Ecology: Hydrogeology and Ecohydrology. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	7
67	Projected Landscape Impacts from Oil and Gas Development Scenarios in the Permian Basin, USA. <i>Environmental Management</i> , 2020, 66, 348-363.	2.7	7
68	A screening approach to improve water management practices in undeveloped shale plays, with application to the transboundary Eagle Ford Formation in northeast Mexico. <i>Journal of Environmental Management</i> , 2019, 236, 146-162.	7.8	7
69	An integrated approach for modeling solute transport in streams and canals with applications. <i>Journal of Hydrology</i> , 2009, 378, 128-136.	5.4	6
70	The seedbed microclimate and active revegetation of disturbed lands in the Mojave Desert. <i>Journal of Arid Environments</i> , 2009, 73, 563-573.	2.4	6
71	Challenges in the Application of Fractional Derivative Models in Capturing Solute Transport in Porous Media: Darcy-Scale Fractional Dispersion and the Influence of Medium Properties. <i>Mathematical Problems in Engineering</i> , 2013, 2013, 1-10.	1.1	6
72	Potential Economic Impacts of Environmental Flows Following a Possible Listing of Endangered Texas Freshwater Mussels. <i>Journal of the American Water Resources Association</i> , 2014, 50, 1081-1101.	2.4	6

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73	On Evaluating Characteristics of the Solute Transport in the Arid Vadose Zone. <i>Ground Water</i> , 2014, 52, 50-62.	1.3	6
74	Synchrotron X-Ray Microtomography-New Means to Quantify Root Induced Changes of Rhizosphere Physical Properties. <i>SSSA Special Publication Series</i> , 2015, , 39-67.	0.2	6
75	Baseflow recession analysis in a large shale play: Climate variability and anthropogenic alterations mask effects of hydraulic fracturing. <i>Journal of Hydrology</i> , 2017, 553, 160-171.	5.4	6
76	Field-Scale Monitoring of Pharmaceutical Compounds Applied to Active Golf Courses by Recycled Water. <i>Journal of Environmental Quality</i> , 2014, 43, 658-670.	2.0	5
77	Shrub spatial organization and partitioning of evaporation and transpiration in arid environments. <i>Ecohydrology</i> , 2015, 8, 1218-1228.	2.4	5
78	Monitoring water content dynamics of biological soil crusts. <i>Journal of Arid Environments</i> , 2017, 142, 41-49.	2.4	5
79	Airborne LiDAR and Aerial Imagery to Assess Potential Burrow Locations for the Desert Tortoise ( <i>Gopherus agassizii</i> ). <i>Remote Sensing</i> , 2017, 9, 458.	4.0	5
80	Impacts of Surfactant Adjuvants on Pesticide Availability and Transport in Soils. <i>ACS Symposium Series</i> , 2003, , 231-245.	0.5	4
81	Sensitivity of Unlined Canal Seepage to Hydraulic Properties of Polyacrylamide-treated Soil. <i>Soil Science Society of America Journal</i> , 2009, 73, 695-703.	2.2	4
82	Water and Salt Status of Bare Soil and Turfgrass Systems Irrigated with Recycled Water. <i>Agronomy Journal</i> , 2013, 105, 1051-1060.	1.8	4
83	Implications of unconventional oil and gas development on groundwater resources. <i>Current Opinion in Environmental Science and Health</i> , 2022, 27, 100346.	4.1	4
84	Introduction to Coupling Soil Science and Hydrology with Ecology: Toward Integrating Landscape Processes. <i>Vadose Zone Journal</i> , 2010, 9, 515-516.	2.2	3
85	Model-based Assessment of the Site-specific Cost of Monitoring. <i>Energy Procedia</i> , 2017, 114, 5316-5319.	1.8	2
86	An outlier detection approach for water footprint assessments in shale formations: case Eagle Ford play (Texas). <i>Environmental Earth Sciences</i> , 2020, 79, 1.	2.7	2
87	Geomorphic controls on shrub canopy volume and spacing of creosote bush in northern Mojave Desert, USA. <i>Landscape Ecology</i> , 2021, 36, 527-547.	4.2	2
88	Sensitivity and Uncertainty of Groundwater Discharge Estimates for Semiarid Shrublands. <i>Journal of the American Water Resources Association</i> , 2009, 45, 641-653.	2.4	1
89	DETERMINING WETLANDS DISTRIBUTION, LAKE DEPTHS, AND TOPOGRAPHY USING AIRBORNE LIDAR AND IMAGERY ON THE NORTH SLOPE, ALASKA. , 2013, , .		1
90	Airborne LiDAR on the Alaskan North Slope: wetlands mapping, lake volumes, and permafrost features. , 2013, , .		1

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91	Answer to the comment on “Interference of river level changes on riparian zone evapotranspiration estimates from diurnal groundwater level fluctuations” by J. Zhu, M. Young, J. Healey, R. Jasoni, J. Osterberg [J. Hydrol. 403(3&#x2013;4) (2011) 381&#x2013;389]. Journal of Hydrology, 2011, 408, 316-317.	5.4	0
92	VZJ Introduces New Type of Article: “Priority Communications”™. CSA News, 2013, 58, 16-16.	0.0	0
93	<i>Vadose Zone Journal</i>: The First Ten Years. Vadose Zone Journal, 2013, 12, 1-3.	2.2	0
94	Connecting Modern Soil and Paleosol Communities: Improving Climate Proxies and Our Understanding of Earth's Critical Zone. CSA News, 2014, 59, 24-25.	0.0	0