## Mantha S Phanikumar

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Surfaceâ€subsurface model intercomparison: A first set of benchmark results to diagnose integrated hydrology and feedbacks. Water Resources Research, 2014, 50, 1531-1549.	1.7	222
2	Quantitative Detection of Human Adenoviruses in Wastewater and Combined Sewer Overflows Influencing a Michigan River. Applied and Environmental Microbiology, 2010, 76, 715-723.	1.4	199
3	A process-based, distributed hydrologic model based on a large-scale method for surface–subsurface coupling. Advances in Water Resources, 2010, 33, 1524-1541.	1.7	156
4	A novel numerical method for the time variable fractional order mobile–immobile advection–dispersion model. Computers and Mathematics With Applications, 2013, 66, 693-701.	1.4	156
5	Evaluation of public health risks at recreational beaches in Lake Michigan via detection of enteric viruses and a human-specific bacteriological marker. Water Research, 2009, 43, 1137-1149.	5.3	123
6	Modeling the Transport and Inactivation ofE. coliand Enterococci in the Near-Shore Region of Lake Michigan. Environmental Science & Technology, 2006, 40, 5022-5028.	4.6	122
7	Evaluating controls on coupled hydrologic and vegetation dynamics in a humid continental climate watershed using a subsurfaceâ€land surface processes model. Water Resources Research, 2013, 49, 2552-2572.	1.7	97
8	Tempered fractional time series model for turbulence in geophysical flows. Journal of Statistical Mechanics: Theory and Experiment, 2014, 2014, P09023.	0.9	63
9	Budget Analysis of <i>Escherichia coli</i> at a Southern Lake Michigan Beach. Environmental Science & Technology, 2010, 44, 1010-1016.	4.6	60
10	Estimating longitudinal dispersion in rivers using Acoustic Doppler Current Profilers. Advances in Water Resources, 2010, 33, 615-623.	1.7	54
11	Impacts of a changing earth on microbial dynamics and human health risks in the continuum between beach water and sand. Water Research, 2019, 162, 456-470.	5.3	53
12	Quantifying storage changes in regional Great Lakes watersheds using a coupled subsurfaceâ€land surface process model and <scp>GRACE</scp> , <scp>MODIS</scp> products. Water Resources Research, 2014, 50, 7359-7377.	1.7	51
13	Nearshore hydrodynamics as loading and forcing factors for <i>Escherichia coli</i> contamination at an embayed beach. Limnology and Oceanography, 2012, 57, 362-381.	1.6	48
14	Wave-Induced Mass Transport Affects Daily <i>Escherichia coli</i> Fluctuations in Nearshore Water. Environmental Science & Technology, 2012, 46, 2204-2211.	4.6	47
15	Surface storage dynamics in large rivers: Comparing threeâ€dimensional particle transport, oneâ€dimensional fractional derivative, and multirate transient storage models. Water Resources Research, 2011, 47, .	1.7	42
16	Modeling watershed-scale solute transport using an integrated, process-based hydrologic model with applications to bacterial fate and transport. Journal of Hydrology, 2015, 529, 35-48.	2.3	42
17	Real-Time Nowcasting of Microbiological Water Quality at Recreational Beaches: A Wavelet and Artificial Neural Network-Based Hybrid Modeling Approach. Environmental Science & Technology, 2018, 52, 8446-8455.	4.6	41
18	Summer circulation and exchange in the Saginaw Bay-Lake Huron system. Journal of Geophysical Research: Oceans, 2014, 119, 2713-2734.	1.0	37

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19	Evaluating Bacteriophage P22 as a Tracer in a Complex Surface Water System: The Grand River, Michigan. Environmental Science & Technology, 2008, 42, 2426-2431.	4.6	35
20	An efficient space-fractional dispersion approximation for stream solute transport modeling. Advances in Water Resources, 2009, 32, 1482-1494.	1.7	34
21	Elimination of the Reaction Rate "Scale Effectâ€, Application of the Lagrangian Reactive Particleâ€Tracking Method to Simulate Mixingâ€Limited, Fieldâ€Scale Biodegradation at the Schoolcraft (MI,) T	j ETQq1 I	l 0.7 <b>&amp;</b> 4314 r <mark>g</mark> B
22	Interaction of bacterial communities and indicators of water quality in shoreline sand, sediment, and water of Lake Michigan. Water Research, 2020, 178, 115671.	5.3	33
23	Comparative Evaluation of Statistical and Mechanistic Models of <i>Escherichia coli</i> at Beaches in Southern Lake Michigan. Environmental Science & Technology, 2016, 50, 2442-2449.	4.6	32
24	Separating surface storage from hyporheic retention in natural streams using wavelet decomposition of acoustic Doppler current profiles. Water Resources Research, 2007, 43, .	1.7	31
25	Prototypic automated continuous recreational water quality monitoring of nine Chicago beaches. Journal of Environmental Management, 2016, 166, 285-293.	3.8	27
26	Evaluating the role of sedimentâ€bacteria interactions on <i>Escherichia coli</i> concentrations at beaches in southern Lake Michigan. Journal of Geophysical Research: Oceans, 2013, 118, 7049-7065.	1.0	26
27	Identifying and Eliminating Sources of Recreational Water Quality Degradation along an Urban Coast. Journal of Environmental Quality, 2018, 47, 1042-1050.	1.0	25
28	Direct numerical simulations of turbulence and hyporheic mixing near sediment–water interfaces. Journal of Fluid Mechanics, 2020, 892, .	1.4	21
29	Impact of domestic wells and hydrogeologic setting on water quality in peri-urban Dar es Salaam, Tanzania. Science of the Total Environment, 2019, 686, 1238-1250.	3.9	19
30	Evaluating the impacts of drought on rice productivity over Cambodia in the Lower Mekong Basin. Journal of Hydrology, 2021, 599, 126291.	2.3	19
31	A multi-species reactive transport model to estimate biogeochemical rates based on single-well push–pull test data. Computers and Geosciences, 2010, 36, 997-1004.	2.0	17
32	Formation Criteria for Hyporheic Anoxic Microzones: Assessing Interactions of Hydraulics, Nutrients, and Biofilms. Water Resources Research, 2020, 56, no.	1.7	17
33	Evaluating the role of groundwater in circulation and thermal structure within a deep inland lake. Advances in Water Resources, 2017, 108, 310-327.	1.7	15
34	lce cover, winter circulation, and exchange in <scp>S</scp> aginaw <scp>B</scp> ay and <scp>L</scp> ake <scp>H</scp> uron. Limnology and Oceanography, 2017, 62, 376-393.	1.6	14
35	Origin of stratified basal ice in outlet glaciers of Vatnajökull and Öræfajökull, Iceland. Boreas, 2010, 39, 457-470.	1.2	13
36	Solute dispersion in the coastal boundary layer of southern Lake Michigan. Journal of Geophysical Research: Oceans, 2013, 118, 1606-1617.	1.0	13

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37	Evaluating a Coupled Phenology‣urface Energy Balance Model to Understand Stream‣ubsurface Temperature Dynamics in a Mixedâ€Use Farmland Catchment. Water Resources Research, 2019, 55, 1675-1697.	1.7	13
38	Numerical Modeling of Microbial Fate and Transport in Natural Waters: Review and Implications for Normal and Extreme Storm Events. Water (Switzerland), 2020, 12, 1876.	1.2	13
39	Quantifying the space – time variability of water balance components in an agricultural basin using a process-based hydrologic model and the Budyko framework. Science of the Total Environment, 2019, 676, 176-189.	3.9	11
40	Linking Cross Contamination of Domestic Water with Storage Practices at the Point of Use in Urban Areas of Dar es Salaam, Tanzania. Journal of Environmental Engineering, ASCE, 2019, 145, 04019017.	0.7	11
41	Evaluating the impacts of foreshore sand and birds on microbiological contamination at a freshwater beach. Water Research, 2021, 190, 116671.	5.3	11
42	Manifold methods for assimilating geophysical and meteorological data in Earth system models and their components. Journal of Hydrology, 2017, 544, 383-396.	2.3	10
43	Analysis of water security and source preferences in rural Tanzania. Journal of Water Sanitation and Hygiene for Development, 2018, 8, 439-448.	0.7	8
44	Modeling the photoinactivation and transport of somatic and Fâ€specific coliphages at a Great Lakes beach. Journal of Environmental Quality, 2020, 49, 1612-1623.	1.0	7
45	Modeling the effects of vegetation on stream temperature dynamics in a large, mixed land cover watershed in the Great Lakes region. Journal of Hydrology, 2020, 581, 124283.	2.3	6
46	Influence of Filter Pore Size on Composition and Relative Abundance of Bacterial Communities and Select Host-Specific MST Markers in Coastal Waters of Southern Lake Michigan. Frontiers in Microbiology, 2021, 12, 665664.	1.5	5
47	Quantifying the Effects of Bed Roughness on Transit Time Distributions via Direct Numerical Simulations of Turbulent Hyporheic Exchange. Water Resources Research, 2022, 58, .	1.7	5
48	Comparison of negative skewed space fractional models with time nonlocal approaches for stream solute transport modeling. Journal of Hydrology, 2020, 582, 124504.	2.3	3
49	Decreasing Groundwater Supply Can Exacerbate Lake Warming and Trigger Algal Blooms. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2021JG006455.	1.3	3
50	Improving safe sanitation practices using groundwater transport modelling and water quality monitoring data. Water Science and Technology, 2021, 84, 3311-3322.	1.2	2
51	Quantifying the spatiotemporal dynamics of recharge in a composite Great Lakes watershed using a high-resolution hydrology model and multi-source data. Journal of Hydrology, 2021, 601, 126594.	2.3	2
52	Evaluation of Modeling Approaches for Sorption–Desorption Processes in Flow-Through Soil Columns. Journal of Environmental Engineering, ASCE, 2022, 148, .	0.7	2
53	Microbial source tracking and evaluation of best management practices for restoring degraded beaches of Lake Michigan. Journal of Great Lakes Research, 2022, 48, 441-454.	0.8	1
54	Fecal Indicator Organism Modeling and Microbial Source Tracking in Environmental Waters. , 0, ,		0

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55	Wind speed and direction estimation using manifold approximation. , 2015, , .		Ο