

Mantha S Phanikumar

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

2,151
citations

236925

25
h-index

233421

45
g-index

56
all docs

56
docs citations

56
times ranked

2433
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Evaluation of Modeling Approaches for Sorption–Desorption Processes in Flow-Through Soil Columns. <i>Journal of Environmental Engineering, ASCE</i> , 2022, 148, . | 1.4 | 2 |
| 2 | Quantifying the Effects of Bed Roughness on Transit Time Distributions via Direct Numerical Simulations of Turbulent Hyporheic Exchange. <i>Water Resources Research</i> , 2022, 58, . | 4.2 | 5 |
| 3 | Microbial source tracking and evaluation of best management practices for restoring degraded beaches of Lake Michigan. <i>Journal of Great Lakes Research</i> , 2022, 48, 441-454. | 1.9 | 1 |
| 4 | Evaluating the impacts of foreshore sand and birds on microbiological contamination at a freshwater beach. <i>Water Research</i> , 2021, 190, 116671. | 11.3 | 11 |
| 5 | 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. <i>Frontiers in Microbiology</i> , 2021, 12, 665664. | 3.5 | 5 |
| 6 | Evaluating the impacts of drought on rice productivity over Cambodia in the Lower Mekong Basin. <i>Journal of Hydrology</i> , 2021, 599, 126291. | 5.4 | 19 |
| 7 | Decreasing Groundwater Supply Can Exacerbate Lake Warming and Trigger Algal Blooms. <i>Journal of Geophysical Research C: Biogeosciences</i> , 2021, 126, e2021JG006455. | 3.0 | 3 |
| 8 | Improving safe sanitation practices using groundwater transport modelling and water quality monitoring data. <i>Water Science and Technology</i> , 2021, 84, 3311-3322. | 2.5 | 2 |
| 9 | Quantifying the spatiotemporal dynamics of recharge in a composite Great Lakes watershed using a high-resolution hydrology model and multi-source data. <i>Journal of Hydrology</i> , 2021, 601, 126594. | 5.4 | 2 |
| 10 | Modeling the effects of vegetation on stream temperature dynamics in a large, mixed land cover watershed in the Great Lakes region. <i>Journal of Hydrology</i> , 2020, 581, 124283. | 5.4 | 6 |
| 11 | Comparison of negative skewed space fractional models with time nonlocal approaches for stream solute transport modeling. <i>Journal of Hydrology</i> , 2020, 582, 124504. | 5.4 | 3 |
| 12 | Modeling the photoinactivation and transport of somatic and F-specific coliphages at a Great Lakes beach. <i>Journal of Environmental Quality</i> , 2020, 49, 1612-1623. | 2.0 | 7 |
| 13 | Numerical Modeling of Microbial Fate and Transport in Natural Waters: Review and Implications for Normal and Extreme Storm Events. <i>Water (Switzerland)</i> , 2020, 12, 1876. | 2.7 | 13 |
| 14 | Interaction of bacterial communities and indicators of water quality in shoreline sand, sediment, and water of Lake Michigan. <i>Water Research</i> , 2020, 178, 115671. | 11.3 | 33 |
| 15 | Formation Criteria for Hyporheic Anoxic Microzones: Assessing Interactions of Hydraulics, Nutrients, and Biofilms. <i>Water Resources Research</i> , 2020, 56, no. | 4.2 | 17 |
| 16 | Direct numerical simulations of turbulence and hyporheic mixing near sediment–water interfaces. <i>Journal of Fluid Mechanics</i> , 2020, 892, . | 3.4 | 21 |
| 17 | Impacts of a changing earth on microbial dynamics and human health risks in the continuum between beach water and sand. <i>Water Research</i> , 2019, 162, 456-470. | 11.3 | 53 |
| 18 | Impact of domestic wells and hydrogeologic setting on water quality in peri-urban Dar es Salaam, Tanzania. <i>Science of the Total Environment</i> , 2019, 686, 1238-1250. | 8.0 | 19 |

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|----|--|------|-----------|
| 19 | Evaluating a Coupled Phenology–Surface Energy Balance Model to Understand Stream–Subsurface Temperature Dynamics in a Mixed–Use Farmland Catchment. <i>Water Resources Research</i> , 2019, 55, 1675-1697. | 4.2 | 13 |
| 20 | Quantifying the space – time variability of water balance components in an agricultural basin using a process-based hydrologic model and the Budyko framework. <i>Science of the Total Environment</i> , 2019, 676, 176-189. | 8.0 | 11 |
| 21 | Linking Cross Contamination of Domestic Water with Storage Practices at the Point of Use in Urban Areas of Dar es Salaam, Tanzania. <i>Journal of Environmental Engineering, ASCE</i> , 2019, 145, 04019017. | 1.4 | 11 |
| 22 | Analysis of water security and source preferences in rural Tanzania. <i>Journal of Water Sanitation and Hygiene for Development</i> , 2018, 8, 439-448. | 1.8 | 8 |
| 23 | Real-Time Nowcasting of Microbiological Water Quality at Recreational Beaches: A Wavelet and Artificial Neural Network-Based Hybrid Modeling Approach. <i>Environmental Science & Technology</i> , 2018, 52, 8446-8455. | 10.0 | 41 |
| 24 | Identifying and Eliminating Sources of Recreational Water Quality Degradation along an Urban Coast. <i>Journal of Environmental Quality</i> , 2018, 47, 1042-1050. | 2.0 | 25 |
| 25 | Ice cover, winter circulation, and exchange in Saginaw Bay and Lake Huron. <i>Limnology and Oceanography</i> , 2017, 62, 376-393. | 3.1 | 14 |
| 26 | Evaluating the role of groundwater in circulation and thermal structure within a deep inland lake. <i>Advances in Water Resources</i> , 2017, 108, 310-327. | 3.8 | 15 |
| 27 | Manifold methods for assimilating geophysical and meteorological data in Earth system models and their components. <i>Journal of Hydrology</i> , 2017, 544, 383-396. | 5.4 | 10 |
| 28 | Elimination of the Reaction Rate –Scale Effect: Application of the Lagrangian Reactive Particle–Tracking Method to Simulate Mixing–Limited, Field–Scale Biodegradation at the Schoolcraft (MI), Tj ETQ 0 0 0 rBT /Overlo | 2.0 | 8 |
| 29 | Prototypic automated continuous recreational water quality monitoring of nine Chicago beaches. <i>Journal of Environmental Management</i> , 2016, 166, 285-293. | 7.8 | 27 |
| 30 | Comparative Evaluation of Statistical and Mechanistic Models of <i>Escherichia coli</i> at Beaches in Southern Lake Michigan. <i>Environmental Science & Technology</i> , 2016, 50, 2442-2449. | 10.0 | 32 |
| 31 | Wind speed and direction estimation using manifold approximation. , 2015, , . | | 0 |
| 32 | Modeling watershed-scale solute transport using an integrated, process-based hydrologic model with applications to bacterial fate and transport. <i>Journal of Hydrology</i> , 2015, 529, 35-48. | 5.4 | 42 |
| 33 | Summer circulation and exchange in the Saginaw Bay-Lake Huron system. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 2713-2734. | 2.6 | 37 |
| 34 | Quantifying storage changes in regional Great Lakes watersheds using a coupled subsurface–land surface process model and GRACE, MODIS products. <i>Water Resources Research</i> , 2014, 50, 7359-7377. | 4.2 | 51 |
| 35 | Surface–subsurface model intercomparison: A first set of benchmark results to diagnose integrated hydrology and feedbacks. <i>Water Resources Research</i> , 2014, 50, 1531-1549. | 4.2 | 222 |
| 36 | Tempered fractional time series model for turbulence in geophysical flows. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2014, 2014, P09023. | 2.3 | 63 |

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|----|--|------|-----------|
| 37 | A novel numerical method for the time variable fractional order mobile-immobile advection-dispersion model. <i>Computers and Mathematics With Applications</i> , 2013, 66, 693-701. | 2.7 | 156 |
| 38 | Solute dispersion in the coastal boundary layer of southern Lake Michigan. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 1606-1617. | 2.6 | 13 |
| 39 | Evaluating controls on coupled hydrologic and vegetation dynamics in a humid continental climate watershed using a subsurface and surface processes model. <i>Water Resources Research</i> , 2013, 49, 2552-2572. | 4.2 | 97 |
| 40 | Evaluating the role of sediment-bacteria interactions on <i>Escherichia coli</i> concentrations at beaches in southern Lake Michigan. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 7049-7065. | 2.6 | 26 |
| 41 | Nearshore hydrodynamics as loading and forcing factors for <i>Escherichia coli</i> contamination at an embayed beach. <i>Limnology and Oceanography</i> , 2012, 57, 362-381. | 3.1 | 48 |
| 42 | Wave-Induced Mass Transport Affects Daily <i>Escherichia coli</i> Fluctuations in Nearshore Water. <i>Environmental Science & Technology</i> , 2012, 46, 2204-2211. | 10.0 | 47 |
| 43 | Surface storage dynamics in large rivers: Comparing three-dimensional particle transport, one-dimensional fractional derivative, and multirate transient storage models. <i>Water Resources Research</i> , 2011, 47, . | 4.2 | 42 |
| 44 | A multi-species reactive transport model to estimate biogeochemical rates based on single-well push-pull test data. <i>Computers and Geosciences</i> , 2010, 36, 997-1004. | 4.2 | 17 |
| 45 | Estimating longitudinal dispersion in rivers using Acoustic Doppler Current Profilers. <i>Advances in Water Resources</i> , 2010, 33, 615-623. | 3.8 | 54 |
| 46 | A process-based, distributed hydrologic model based on a large-scale method for surface-subsurface coupling. <i>Advances in Water Resources</i> , 2010, 33, 1524-1541. | 3.8 | 156 |
| 47 | Origin of stratified basal ice in outlet glaciers of Vatnajökull and Fajökull, Iceland. <i>Boreas</i> , 2010, 39, 457-470. | 2.4 | 13 |
| 48 | Quantitative Detection of Human Adenoviruses in Wastewater and Combined Sewer Overflows Influencing a Michigan River. <i>Applied and Environmental Microbiology</i> , 2010, 76, 715-723. | 3.1 | 199 |
| 49 | Budget Analysis of <i>Escherichia coli</i> at a Southern Lake Michigan Beach. <i>Environmental Science & Technology</i> , 2010, 44, 1010-1016. | 10.0 | 60 |
| 50 | An efficient space-fractional dispersion approximation for stream solute transport modeling. <i>Advances in Water Resources</i> , 2009, 32, 1482-1494. | 3.8 | 34 |
| 51 | Evaluation of public health risks at recreational beaches in Lake Michigan via detection of enteric viruses and a human-specific bacteriological marker. <i>Water Research</i> , 2009, 43, 1137-1149. | 11.3 | 123 |
| 52 | Evaluating Bacteriophage P22 as a Tracer in a Complex Surface Water System: The Grand River, Michigan. <i>Environmental Science & Technology</i> , 2008, 42, 2426-2431. | 10.0 | 35 |
| 53 | Separating surface storage from hyporheic retention in natural streams using wavelet decomposition of acoustic Doppler current profiles. <i>Water Resources Research</i> , 2007, 43, . | 4.2 | 31 |
| 54 | Modeling the Transport and Inactivation of <i>E. coli</i> and Enterococci in the Near-Shore Region of Lake Michigan. <i>Environmental Science & Technology</i> , 2006, 40, 5022-5028. | 10.0 | 122 |

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|----|---|----|-----------|
| 55 | Fecal Indicator Organism Modeling and Microbial Source Tracking in Environmental Waters. , 0, , 3.4.6-1-3.4.6-16. | | 0 |