

Erich T Hester

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

1,657
citations

304743

22
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289244

40
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all docs

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docs citations

45
times ranked

1571
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Nitrate removal by watershed-scale hyporheic stream restoration: Modeling approach to estimate effects and patterns at the stream network scale. <i>Ecological Engineering</i> , 2022, 175, 106498. | 3.6 | 6 |
| 2 | Pipe Dreams: The Effects of Stream Bank Soil Pipes on Hyporheic Denitrification Caused by a Peak Flow Event. <i>Water Resources Research</i> , 2022, 58, . | 4.2 | 5 |
| 3 | Applying a Coupled Hydrologic-Economic Modeling Framework: Evaluating Alternative Options for Reducing Impacts for Downstream Locations in Response to Upstream Development. <i>Sustainability</i> , 2022, 14, 6630. | 3.2 | 1 |
| 4 | Hyporheic transverse mixing zones and dispersivity: Laboratory and numerical experiments of hydraulic controls. <i>Journal of Contaminant Hydrology</i> , 2021, 243, 103885. | 3.3 | 4 |
| 5 | Abiotic Mixing-Dependent Reaction in a Laboratory Simulated Hyporheic Zone. <i>Water Resources Research</i> , 2020, 56, e2020WR027090. | 4.2 | 9 |
| 6 | Preferential Flow in Riparian Groundwater: Gateways for Watershed Solute Transport and Implications for Water Quality Management. <i>Water Resources Research</i> , 2020, 56, e2020WR028186. | 4.2 | 14 |
| 7 | Abundance, distribution, and geometry of naturally occurring streambank soil pipes. <i>Freshwater Science</i> , 2020, 39, 735-751. | 1.8 | 5 |
| 8 | Effect of Floodplain Restoration on Photolytic Removal of Pharmaceuticals. <i>Environmental Science & Technology</i> , 2020, 54, 3278-3287. | 10.0 | 13 |
| 9 | Filling the Void: The Effect of Stream Bank Soil Pipes on Transient Hyporheic Exchange During a Peak Flow Event. <i>Water Resources Research</i> , 2020, 56, e2019WR025959. | 4.2 | 11 |
| 10 | Parameter uncertainty with flow variation of the one-dimensional solute transport model for small streams using Markov chain Monte Carlo. <i>Journal of Hydrology</i> , 2019, 575, 1145-1154. | 5.4 | 12 |
| 11 | Effect of Surface Water Stage Fluctuation on Mixing-Dependent Hyporheic Denitrification in Riverbed Dunes. <i>Water Resources Research</i> , 2019, 55, 4668-4687. | 4.2 | 28 |
| 12 | Featured Collection Introduction: The Emerging Science of Aquatic System Connectivity I. <i>Journal of the American Water Resources Association</i> , 2019, 55, 287-293. | 2.4 | 3 |
| 13 | Modeling Connectivity of Non-floodplain Wetlands: Insights, Approaches, and Recommendations. <i>Journal of the American Water Resources Association</i> , 2019, 55, 559-577. | 2.4 | 26 |
| 14 | Variability of subsurface structure and infiltration hydrology among surface coal mine valley fills. <i>Science of the Total Environment</i> , 2019, 651, 2648-2661. | 8.0 | 15 |
| 15 | A tiered, system-of-systems modeling framework for resolving complex socio-environmental policy issues. <i>Environmental Modelling and Software</i> , 2019, 112, 82-94. | 4.5 | 45 |
| 16 | Comparing reach scale hyporheic exchange and denitrification induced by instream restoration structures and natural streambed morphology. <i>Ecological Engineering</i> , 2018, 115, 105-121. | 3.6 | 23 |
| 17 | Effects of large wood on floodplain connectivity in a headwater Mid-Atlantic stream. <i>Ecological Engineering</i> , 2018, 118, 134-142. | 3.6 | 22 |
| 18 | Policy Targeting to Reduce Economic Damages From Land Subsidence. <i>Water Resources Research</i> , 2018, 54, 4401-4416. | 4.2 | 13 |

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|----|--|------|-----------|
| 19 | The importance and challenge of hyporheic mixing. <i>Water Resources Research</i> , 2017, 53, 3565-3575. | 4.2 | 77 |
| 20 | Electrical resistivity imaging of hydrologic flow through surface coal mine valley fills with comparison to other landforms. <i>Hydrological Processes</i> , 2017, 31, 2244-2260. | 2.6 | 22 |
| 21 | Effects of in-stream structures and channel flow rate variation on transient storage. <i>Journal of Hydrology</i> , 2017, 548, 157-169. | 5.4 | 34 |
| 22 | A cost-effective image processing approach for analyzing the ecohydrology of river corridors. <i>Limnology and Oceanography: Methods</i> , 2016, 14, 359-369. | 2.0 | 11 |
| 23 | Effects of inset floodplains and hyporheic exchange induced by in-stream structures on nitrate removal in a headwater stream. <i>Ecological Engineering</i> , 2016, 97, 452-464. | 3.6 | 38 |
| 24 | Assessing and Enhancing Environmental Sustainability: A Conceptual Review. <i>Environmental Science & Technology</i> , 2016, 50, 6830-6845. | 10.0 | 59 |
| 25 | Specific conductance–stage relationships in Appalachian valley fill streams. <i>Environmental Earth Sciences</i> , 2016, 75, 1. | 2.7 | 11 |
| 26 | Vertical surface water–groundwater exchange processes within a headwater floodplain induced by experimental floods. <i>Hydrological Processes</i> , 2016, 30, 3770-3787. | 2.6 | 13 |
| 27 | Hydrologic Effects of Surface Coal Mining in Appalachia (<scp>U.S.</scp>). <i>Journal of the American Water Resources Association</i> , 2015, 51, 1436-1452. | 2.4 | 58 |
| 28 | Abundance and dimensions of naturally occurring macropores along stream channels and the effects of artificially constructed large macropores on transient storage. <i>Freshwater Science</i> , 2015, 34, 125-138. | 1.8 | 12 |
| 29 | Seasonal Variation in Floodplain Biogeochemical Processing in a Restored Headwater Stream. <i>Environmental Science & Technology</i> , 2015, 49, 13190-13198. | 10.0 | 30 |
| 30 | The effect of macropores on bi-directional hydrologic exchange between a stream channel and riparian groundwater. <i>Journal of Hydrology</i> , 2015, 529, 830-842. | 5.4 | 19 |
| 31 | Floodplain biogeochemical processing of floodwaters in the Atchafalaya River Basin during the Mississippi River flood of 2011. <i>Journal of Geophysical Research C: Biogeosciences</i> , 2014, 119, 537-546. | 3.0 | 39 |
| 32 | Comparison of effects of inset floodplains and hyporheic exchange induced by in-stream structures on solute retention. <i>Water Resources Research</i> , 2014, 50, 6168-6190. | 4.2 | 34 |
| 33 | Hyporheic mixing and biogeochemical processing in flow-through and backwater floodplain wetlands. <i>Water Resources Research</i> , 2014, 50, 7394-7405. | 4.2 | 28 |
| 34 | Macropores as preferential flow paths in meander bends. <i>Hydrological Processes</i> , 2014, 28, 482-495. | 2.6 | 38 |
| 35 | Hydraulic and thermal effects of in-stream structure-induced hyporheic exchange across a range of hydraulic conductivities. <i>Water Resources Research</i> , 2014, 50, 4643-4661. | 4.2 | 32 |
| 36 | Controls on mixing-dependent denitrification in hyporheic zones induced by riverbed dunes: A steady state modeling study. <i>Water Resources Research</i> , 2014, 50, 9048-9066. | 4.2 | 37 |

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|----|---|------|-----------|
| 37 | Measuring Environmental Sustainability of Water in Watersheds. Environmental Science & Technology, 2013, 47, 130617090430001. | 10.0 | 19 |
| 38 | Stream and Retention Pond Thermal Response to Heated Summer Runoff From Urban Impervious Surfaces. Journal of the American Water Resources Association, 2013, 49, 328-342. | 2.4 | 43 |
| 39 | Mixing of surface and groundwater induced by riverbed dunes: Implications for hyporheic zone definitions and pollutant reactions. Water Resources Research, 2013, 49, 5221-5237. | 4.2 | 89 |
| 40 | Human Impacts to River Temperature and Their Effects on Biological Processes: A Quantitative Synthesis. Journal of the American Water Resources Association, 2011, 47, 571-587. | 2.4 | 141 |
| 41 | Human Impacts to River Temperature and Their Effects on Biological Processes: A Quantitative Synthesis. , 2011, 47, 571. | | 1 |
| 42 | Moving Beyond the Banks: Hyporheic Restoration Is Fundamental to Restoring Ecological Services and Functions of Streams. Environmental Science & Technology, 2010, 44, 1521-1525. | 10.0 | 208 |
| 43 | The influence of in-stream structures on summer water temperatures via induced hyporheic exchange. Limnology and Oceanography, 2009, 54, 355-367. | 3.1 | 82 |
| 44 | In-stream geomorphic structures as drivers of hyporheic exchange. Water Resources Research, 2008, 44, . | 4.2 | 206 |
| 45 | Hyporheic Restoration in Streams and Rivers. Geophysical Monograph Series, 0, , 167-187. | 0.1 | 21 |