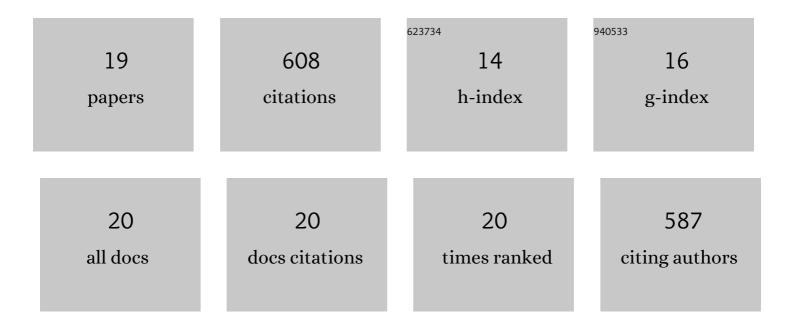
## Matthias Willmann

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/648944/publications.pdf Version: 2024-02-01



| #  | Article   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Transport upscaling in heterogeneous aquifers: What physical parameters control memory functions?. Water Resources Research, 2008, 44, .  | 4.2 | 129       |
| 2  | Intermittent Lagrangian velocities and accelerations in three-dimensional porous medium flow.<br>Physical Review E, 2015, 92, 013015.   | 2.1 | 72        |
| 3  | Coupling of mass transfer and reactive transport for nonlinear reactions in heterogeneous media.<br>Water Resources Research, 2010, 46, .   | 4.2 | 69        |
| 4  | Stochastic dynamics of intermittent poreâ€scale particle motion in threeâ€dimensional porous media:<br>Experiments and theory. Geophysical Research Letters, 2017, 44, 9361-9371. | 4.0 | 61        |
| 5  | A general real-time formulation for multi-rate mass transfer problems. Hydrology and Earth System<br>Sciences, 2009, 13, 1399-1411.   | 4.9 | 60        |
| 6  | Field Comparison of DNA‣abeled Nanoparticle and Solute Tracer Transport in a Fractured Crystalline<br>Rock. Water Resources Research, 2019, 55, 6577-6595.                        | 4.2 | 35        |
| 7  | Mechanisms of anomalous dispersion in flow through heterogeneous porous media. Physical Review<br>Fluids, 2016, 1, .  | 2.5 | 31        |
| 8  | Connectivity metrics based on the path of smallest resistance. Advances in Water Resources, 2016, 88, 14-20.  | 3.8 | 26        |
| 9  | Delineation of connectivity structures in 2â€Ð heterogeneous hydraulic conductivity fields. Water<br>Resources Research, 2015, 51, 5846-5854.                                     | 4.2 | 21        |
| 10 | On the meaning of the transmissivity values obtained from recovery tests. Hydrogeology Journal, 2007, 15, 833-842.  | 2.1 | 20        |
| 11 | Travel time and trajectory moments of conservative solutes in two-dimensional convergent flows.<br>Journal of Contaminant Hydrology, 2006, 82, 23-43.                             | 3.3 | 19        |
| 12 | Conservative transport upscaling based on information of connectivity. Water Resources Research, 2016, 52, 6867-6880.   | 4.2 | 18        |
| 13 | A new stochastic particleâ€tracking approach for fractured sedimentary formations. Water Resources<br>Research, 2013, 49, 352-359.  | 4.2 | 16        |
| 14 | Impact of log-transmissivity variogram structure on groundwater flow and transport predictions.<br>Advances in Water Resources, 2009, 32, 1311-1322.                              | 3.8 | 15        |
| 15 | Sharp Transition to Strongly Anomalous Transport in Unsaturated Porous Media. Geophysical<br>Research Letters, 2022, 49, e2021GL096280.   | 4.0 | 6         |
| 16 | Effect of Heterogeneity on Aquifer Reclamation Time. Quantitative Geology and Geostatistics, 2004, ,<br>259-270.  | 0.1 | 3         |
| 17 | Impact of the choice of the variogram model on flow and travel time predictors in radial flows. , 2005, , 273-284.  |     | 1         |
| 18 | Relationship Between Statistical Properties of Permeability Field and Behavior of Concentration in  |     | 0         |

Stationary Fluid Flow. , 2012, , .

## # ARTICLE IF CITATIONS 19 Transport Up-scaling in Highly Heterogeneous Media., 2013,,. 0