# Mark N Goltz

List of Publications by Year
in descending order



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|---|---|---|---|
| 56 papers | 1,962 citations | 331670 21 h-index | 243625 44 g-index |
| 63 all docs | 63 docs citations | 63 times ranked | 1379 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Analytical solutions for contaminant fate and transport in parallel plate fracture-rock matrix systems with poiseuille flow. Journal of Hydrology, 2021, 596, 126097. | 5.4 | 3 |
| 2 | Peptide Nanotube Encapsulated Enzyme Biosensor for Vapor Phase Detection of Malathion, an Organophosphorus Compound. Sensors, 2019, 19, 3856. | 3.8 | 8 |
| 3 | Concurrent Treatment of 1,4â€Dioxane and Chlorinated Aliphatics in a Groundwater Recirculation System Via Aerobic Cometabolism. Ground Water Monitoring and Remediation, 2018, 38, 53-64. | 0.8 | 28 |
| 4 | Analytical solutions for a soil vapor extraction model that incorporates gas phase dispersion and molecular diffusion. Journal of Hydrology, 2017, 549, 452-460. | 5.4 | 11 |
| 5 | Peptide nanostructures in biomedical technology. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2016, 8, 730-743. | 6.1 | 18 |
| 6 | Direct estimation of hydraulic parameters relating to steady state groundwater flow. Environmental Modelling and Software, 2016, 86, 50-55. | 4.5 | 3 |
| 7 | The use of carbon nanotube yarn as a filter medium to treat nitroaromatic-contaminated water. New Carbon Materials, 2016, 31, 415-423. | 6.1 | 14 |
| 8 | Semianalytical solutions for transport in aquifer and fractured clay matrix system. Water Resources Research, 2015, 51, 7218-7237. | 4.2 | 11 |
| 9 | Modeling NAPL dissolution from pendular rings in idealized porous media. Water Resources Research, 2015, 51, 8182-8197. | 4.2 | 13 |
| 10 | Influence of natural organic matter on fate and transport of silver nanoparticles in saturated porous media: laboratory experiments and modeling. Journal of Nanoparticle Research, 2015, 17, 1. | 1.9 | 22 |
| 11 | Reply to comment on â€œValidation of two innovative methods to measure contaminant mass flux in groundwaterâ€•by Goltz et al. (2009). Journal of Contaminant Hydrology, 2014, 171, 83-84. | 3.3 | 0 |
| 12 | Organophosphate vapor detection on gold electrodes using peptide nanotubes. Biosensors and Bioelectronics, 2014, 61, 119-123. | 10.1 | 21 |
| 13 | Influence of pH on the transport of silver nanoparticles in saturated porous media: laboratory experiments and modeling. Journal of Nanoparticle Research, 2013, 15, 1. | 1.9 | 27 |
| 14 | Silver deposited titanium dioxide thin film for photocatalysis of organic compounds using natural light. Solar Energy, 2013, 88, 242-249. | 6.1 | 41 |
| 15 | Control of new copper corrosion in highâ€alkalinity drinking water. Journal - American Water Works Association, 2012, 104, E15. | 0.3 | 11 |
| 16 | Recirculation Systems. SERDP and ESTCP Remediation Technology Monograph Series, 2012, , 139-168. | 0.3 | 3 |
| 17 | Impact of plumbing age on copper levels in drinking water. Journal of Water Supply: Research and Technology - AQUA, 2011, 60, 1-15. | 1.4 | 19 |
| 18 | Analytical solutions for efficient interpretation of singleâ€well pushâ€pull tracer tests. Water Resources Research, 2010, 46, . | 4.2 | 33 |

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| 19 | Validation of two innovative methods to measure contaminant mass flux in groundwater. Journal of Contaminant Hydrology, 2009, 106, 51-61. | 3.3 | 21 |
| 20 | An Assembly Model for Simulation of Largeâ€Scale Ground Water Flow and Transport. Ground Water, 2008, 46, 882-892. | 1.3 | 14 |
| 21 | A Screening Model for Injectionâ€Extraction Treatment Well Recirculation System Design. Ground Water Monitoring and Remediation, 2008, 28, 63-71. | 0.8 | 8 |
| 22 | Use of tandem circulation wells to measure hydraulic conductivity without groundwater extraction. Journal of Contaminant Hydrology, 2008, 100, 127-136. | 3.3 | 16 |
| 23 | REVIEW OF GROUNDWATER CONTAMINANT MASS FLUX MEASUREMENT. Environmental Engineering Research, 2007, 12, 176-193. | 2.5 | 12 |
| 24 | Modeling Chlorinated Solvent Bioremediation Using Hydrogen Release Compound (HRC). Bioremediation Journal, 2006, 10, 129-141. | 2.0 | 7 |
| 25 | Comment on â€˜Analytical solution for solute transport resulting from instantaneous injection in streams with transient storageâ€™ by F. De Smedt, W. Brevis, and P. Debels, 2005. Journal of Hydrology 315, 25â€“39. Journal of Hydrology, 2006, 330, 759-760. | 5.4 | 4 |
| 26 | Analytical Solutions for Solute Transport in a Spherically Symmetric Divergent Flow Field. Transport in Porous Media, 2006, 63, 305-321. | 2.6 | 8 |
| 27 | Filtration and transport of Bacillus subtilis spores and the F-RNA phage MS2 in a coarse alluvial gravel aquifer: Implications in the estimation of setback distances. Journal of Contaminant Hydrology, 2005, 77, 165-194. | 3.3 | 59 |
| 28 | Field Evaluation of In Situ Source Reduction of Trichloroethylene in Groundwater Using Bioenhanced In-Well Vapor Stripping. Environmental Science & Technology, 2005, 39, 8963-8970. | 10.0 | 35 |
| 29 | A three-dimensional analytical model to simulate groundwater flow during operation of recirculating wells. Journal of Hydrology, 2005, 314, 67-77. | 5.4 | 12 |
| 30 | Containment of groundwater contamination plumes: minimizing drawdown by aligning capture wells parallel to regional flow. Journal of Hydrology, 2004, 286, 52-68. | 5.4 | 18 |
| 31 | Estimation of septic tank setback distances based on transport of E. coli and F-RNA phages. Environment International, 2004, 29, 907-921. | 10.0 | 64 |
| 32 | Application of the method of temporal moments to interpret solute transport with sorption and degradation. Journal of Contaminant Hydrology, 2003, 60, 123-134. | 3.3 | 72 |
| 33 | Dissolved organic matter effects on the performance of a barrier to polycyclic aromatic hydrocarbon transport by groundwater. Journal of Contaminant Hydrology, 2003, 60, 307-326. | 3.3 | 34 |
| 34 | Modeling Pd-Catalyzed Destruction of Chlorinated Ethenes in Groundwater. Journal of Environmental Engineering, ASCE, 2003, 129, 147-154. | 1.4 | 4 |
| 35 | Transfer and commercialisation of contaminated groundwater remediation technologies. International Journal of Technology Transfer and Commercialisation, 2002, 1, 329. | 0.2 | 0 |
| 36 | Full-scale demonstration of in situ cometabolic biodegradation of trichloroethylene in groundwater 1. Dynamics of a recirculating well system. Water Resources Research, 2002, 38, 10-1-10-15. | 4.2 | 19 |

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| 37 | Full-scale demonstration of in situ cometabolic biodegradation of trichloroethylene in groundwater 2. Comprehensive analysis of field data using reactive transport modeling. Water Resources Research, 2002, 38, 11-1-11-18. | 4.2 | 28 |
| 38 | Hydraulic containment: analytical and semi-analytical models for capture zone curve delineation. Journal of Hydrology, 2002, 262, 224-244. | 5.4 | 37 |
| 39 | Combined Effect of Natural Organic Matter and Surfactants on the Apparent Solubility of Polycyclic Aromatic Hydrocarbons. Journal of Environmental Quality, 2002, 31, 275-280. | 2.0 | 21 |
| 40 | Sorption and Biodegradation of Vapor-Phase Organic Compounds with Wastewater Sludge and Food Waste Compost. Journal of the Air and Waste Management Association, 2001, 51, 1237-1244. | 1.9 | 3 |
| 41 | Transport issues and bioremediation modeling for the in situ aerobic co-metabolism of chlorinated solvents. Biodegradation, 2001, 12, 127-140. | 3.0 | 21 |
| 42 | Simplified Expressions for Spatial Moments of Ground-Water Contaminant Plumes. Journal of Hydrologic Engineering - ASCE, 1999, 4, 377-380. | 1.9 | 7 |
| 43 | Development and application of an analytical model to aid design and implementation of in situ remediation technologies. Journal of Contaminant Hydrology, 1999, 37, 295-317. | 3.3 | 42 |
| 44 | Solutions to equations incorporating the effect of rate-limited contaminant mass transfer on vadose zone remediation by soil vapor extraction. Water Resources Research, 1999, 35, 879-883. | 4.2 | 9 |
| 45 | Full-Scale Evaluation ofIn SituCometabolic Degradation of Trichloroethylene in Groundwater through Toluene Injection. Environmental Science & Technology, 1998, 32, 88-100. | 10.0 | 210 |
| 46 | Comment on â€œField-Scale Transport of Nonpolar Organic Solutes in 3-D Heterogeneous Aquifersâ€• Environmental Science & Technology, 1998, 32, 2654-2655. | 10.0 | 2 |
| 47 | Screening Software for an Innovative In Situ Bioremediation Technology. Bioremediation Journal, 1998, 2, 7-15. | 2.0 | 5 |
| 48 | Field Studies: Elicitation of Fate and Transport Processes and Application to Full-scale Remediation. , 1995, , 110-116. | | 0 |
| 49 | An analytical solution to equations describing rate-limited soil vapor extraction of contaminants in the vadose zone. Water Resources Research, 1994, 30, 2691-2698. | 4.2 | 12 |
| 50 | Analytical modeling of aquifer decontamination by pumping when transport is affected by rate-limited sorption. Water Resources Research, 1991, 27, 547-556. | 4.2 | 58 |
| 51 | Simulations of physical nonequilibrium solute transport models: Application to a large-scale field experiment. Journal of Contaminant Hydrology, 1988, 3, 37-63. | 3.3 | 73 |
| 52 | Using the method of moments to analyze threeâ€dimensional diffusionâ€limited solute transport from temporal and spatial perspectives. Water Resources Research, 1987, 23, 1575-1585. | 4.2 | 147 |
| 53 | The influence of mass transfer on solute transport in column experiments with an aggregated soil. Journal of Contaminant Hydrology, 1987, 1, 375-393. | 3.3 | 55 |
| 54 | Threeâ€Dimensional Solutions for Solute Transport in an Infinite Medium With Mobile and Immobile Zones. Water Resources Research, 1986, 22, 1139-1148. | 4.2 | 114 |

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| 55 | A natural gradient experiment on solute transport in a sand aquifer: 3. Retardation estimates and mass balances for organic solutes. Water Resources Research, 1986, 22, 2047-2058. | 4.2 | 266 |
| 56 | Interpreting organic solute transport data from a field experiment using physical nonequilibrium models. Journal of Contaminant Hydrology, 1986, 1, 77-93. | 3.3 | 149 |