

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	A natural gradient experiment on solute transport in a sand aquifer: 3. Retardation estimates and mass balances for organic solutes. <i>Water Resources Research</i> , 1986, 22, 2047-2058.	4.2	266
2	Full-Scale Evaluation of In Situ Cometabolic Degradation of Trichloroethylene in Groundwater through Toluene Injection. <i>Environmental Science & Technology</i> , 1998, 32, 88-100.	10.0	210
3	Interpreting organic solute transport data from a field experiment using physical nonequilibrium models. <i>Journal of Contaminant Hydrology</i> , 1986, 1, 77-93.	3.3	149
4	Using the method of moments to analyze three-dimensional diffusion-limited solute transport from temporal and spatial perspectives. <i>Water Resources Research</i> , 1987, 23, 1575-1585.	4.2	147
5	Three-Dimensional Solutions for Solute Transport in an Infinite Medium With Mobile and Immobile Zones. <i>Water Resources Research</i> , 1986, 22, 1139-1148.	4.2	114
6	Simulations of physical nonequilibrium solute transport models: Application to a large-scale field experiment. <i>Journal of Contaminant Hydrology</i> , 1988, 3, 37-63.	3.3	73
7	Application of the method of temporal moments to interpret solute transport with sorption and degradation. <i>Journal of Contaminant Hydrology</i> , 2003, 60, 123-134.	3.3	72
8	Estimation of septic tank setback distances based on transport of E. coli and F-RNA phages. <i>Environment International</i> , 2004, 29, 907-921.	10.0	64
9	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. <i>Journal of Contaminant Hydrology</i> , 2005, 77, 165-194.	3.3	59
10	Analytical modeling of aquifer decontamination by pumping when transport is affected by rate-limited sorption. <i>Water Resources Research</i> , 1991, 27, 547-556.	4.2	58
11	The influence of mass transfer on solute transport in column experiments with an aggregated soil. <i>Journal of Contaminant Hydrology</i> , 1987, 1, 375-393.	3.3	55
12	Development and application of an analytical model to aid design and implementation of in situ remediation technologies. <i>Journal of Contaminant Hydrology</i> , 1999, 37, 295-317.	3.3	42
13	Silver deposited titanium dioxide thin film for photocatalysis of organic compounds using natural light. <i>Solar Energy</i> , 2013, 88, 242-249.	6.1	41
14	Hydraulic containment: analytical and semi-analytical models for capture zone curve delineation. <i>Journal of Hydrology</i> , 2002, 262, 224-244.	5.4	37
15	Field Evaluation of In Situ Source Reduction of Trichloroethylene in Groundwater Using Bioenhanced In-Well Vapor Stripping. <i>Environmental Science & Technology</i> , 2005, 39, 8963-8970.	10.0	35
16	Dissolved organic matter effects on the performance of a barrier to polycyclic aromatic hydrocarbon transport by groundwater. <i>Journal of Contaminant Hydrology</i> , 2003, 60, 307-326.	3.3	34
17	Analytical solutions for efficient interpretation of single-well push-pull tracer tests. <i>Water Resources Research</i> , 2010, 46, .	4.2	33
18	Full-scale demonstration of in situ cometabolic biodegradation of trichloroethylene in groundwater 2. Comprehensive analysis of field data using reactive transport modeling. <i>Water Resources Research</i> , 2002, 38, 11-11-18.	4.2	28

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19	Concurrent Treatment of 1,4-Dioxane and Chlorinated Aliphatics in a Groundwater Recirculation System Via Aerobic Cometabolism. <i>Ground Water Monitoring and Remediation</i> , 2018, 38, 53-64.	0.8	28
20	Influence of pH on the transport of silver nanoparticles in saturated porous media: laboratory experiments and modeling. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	27
21	Influence of natural organic matter on fate and transport of silver nanoparticles in saturated porous media: laboratory experiments and modeling. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	1.9	22
22	Transport issues and bioremediation modeling for the in situ aerobic co-metabolism of chlorinated solvents. <i>Biodegradation</i> , 2001, 12, 127-140.	3.0	21
23	Combined Effect of Natural Organic Matter and Surfactants on the Apparent Solubility of Polycyclic Aromatic Hydrocarbons. <i>Journal of Environmental Quality</i> , 2002, 31, 275-280.	2.0	21
24	Validation of two innovative methods to measure contaminant mass flux in groundwater. <i>Journal of Contaminant Hydrology</i> , 2009, 106, 51-61.	3.3	21
25	Organophosphate vapor detection on gold electrodes using peptide nanotubes. <i>Biosensors and Bioelectronics</i> , 2014, 61, 119-123.	10.1	21
26	Full-scale demonstration of in situ cometabolic biodegradation of trichloroethylene in groundwater 1. Dynamics of a recirculating well system. <i>Water Resources Research</i> , 2002, 38, 10-1-10-15.	4.2	19
27	Impact of plumbing age on copper levels in drinking water. <i>Journal of Water Supply: Research and Technology - AQUA</i> , 2011, 60, 1-15.	1.4	19
28	Containment of groundwater contamination plumes: minimizing drawdown by aligning capture wells parallel to regional flow. <i>Journal of Hydrology</i> , 2004, 286, 52-68.	5.4	18
29	Peptide nanostructures in biomedical technology. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2016, 8, 730-743.	6.1	18
30	Use of tandem circulation wells to measure hydraulic conductivity without groundwater extraction. <i>Journal of Contaminant Hydrology</i> , 2008, 100, 127-136.	3.3	16
31	An Assembly Model for Simulation of Large-Scale Ground Water Flow and Transport. <i>Ground Water</i> , 2008, 46, 882-892.	1.3	14
32	The use of carbon nanotube yarn as a filter medium to treat nitroaromatic-contaminated water. <i>New Carbon Materials</i> , 2016, 31, 415-423.	6.1	14
33	Modeling NAPL dissolution from pendular rings in idealized porous media. <i>Water Resources Research</i> , 2015, 51, 8182-8197.	4.2	13
34	An analytical solution to equations describing rate-limited soil vapor extraction of contaminants in the vadose zone. <i>Water Resources Research</i> , 1994, 30, 2691-2698.	4.2	12
35	A three-dimensional analytical model to simulate groundwater flow during operation of recirculating wells. <i>Journal of Hydrology</i> , 2005, 314, 67-77.	5.4	12
36	REVIEW OF GROUNDWATER CONTAMINANT MASS FLUX MEASUREMENT. <i>Environmental Engineering Research</i> , 2007, 12, 176-193.	2.5	12

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37	Control of new copper corrosion in high alkalinity drinking water. Journal - American Water Works Association, 2012, 104, E15.	0.3	11
38	Semianalytical solutions for transport in aquifer and fractured clay matrix system. Water Resources Research, 2015, 51, 7218-7237.	4.2	11
39	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
40	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
41	Analytical Solutions for Solute Transport in a Spherically Symmetric Divergent Flow Field. Transport in Porous Media, 2006, 63, 305-321.	2.6	8
42	A Screening Model for Injection-Extraction Treatment Well Recirculation System Design. Ground Water Monitoring and Remediation, 2008, 28, 63-71.	0.8	8
43	Peptide Nanotube Encapsulated Enzyme Biosensor for Vapor Phase Detection of Malathion, an Organophosphorus Compound. Sensors, 2019, 19, 3856.	3.8	8
44	Simplified Expressions for Spatial Moments of Ground-Water Contaminant Plumes. Journal of Hydrologic Engineering - ASCE, 1999, 4, 377-380.	1.9	7
45	Modeling Chlorinated Solvent Bioremediation Using Hydrogen Release Compound (HRC). Bioremediation Journal, 2006, 10, 129-141.	2.0	7
46	Screening Software for an Innovative In Situ Bioremediation Technology. Bioremediation Journal, 1998, 2, 7-15.	2.0	5
47	Modeling Pd-Catalyzed Destruction of Chlorinated Ethenes in Groundwater. Journal of Environmental Engineering, ASCE, 2003, 129, 147-154.	1.4	4
48	Comment on "Analytical solution for solute transport resulting from instantaneous injection in streams with transient storage" by F. De Smedt, W. Brevis, and P. Debels, 2005. Journal of Hydrology 315, 25-39. Journal of Hydrology, 2006, 330, 759-760.	5.4	4
49	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
50	Direct estimation of hydraulic parameters relating to steady state groundwater flow. Environmental Modelling and Software, 2016, 86, 50-55.	4.5	3
51	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
52	Recirculation Systems. SERDP and ESTCP Remediation Technology Monograph Series, 2012, , 139-168.	0.3	3
53	Comment on "Field-Scale Transport of Nonpolar Organic Solutes in 3-D Heterogeneous Aquifers" Environmental Science & Technology, 1998, 32, 2654-2655.	10.0	2
54	Transfer and commercialisation of contaminated groundwater remediation technologies. International Journal of Technology Transfer and Commercialisation, 2002, 1, 329.	0.2	0

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55	Reply to comment on "Validation of two innovative methods to measure contaminant mass flux in groundwater" by Goltz et al. (2009). Journal of Contaminant Hydrology, 2014, 171, 83-84.	3.3	0
56	Field Studies: Elicitation of Fate and Transport Processes and Application to Full-scale Remediation., 1995, , 110-116.		0