

# Michael Finkel

## List of Publications by Year in descending order

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42  
papers

1,147  
citations

331670

21  
h-index

395702

33  
g-index

46  
all docs

46  
docs citations

46  
times ranked

1245  
citing authors

#	ARTICLE	IF	CITATIONS
1	Designing sustainable and economically attractive brownfield revitalization options using an integrated assessment model. <i>Journal of Environmental Management</i> , 2011, 92, 827-837.	7.8	91
2	Economical and ecological comparison of granular activated carbon (GAC) adsorber refill strategies. <i>Water Research</i> , 2005, 39, 1719-1728.	11.3	75
3	Evolutionary algorithms for the optimization of advective control of contaminated aquifer zones. <i>Water Resources Research</i> , 2004, 40, .	4.2	69
4	Life cycle assessment of active and passive groundwater remediation technologies. <i>Journal of Contaminant Hydrology</i> , 2006, 83, 171-199.	3.3	68
5	Application of monitored natural attenuation in contaminated land management—A review and recommended approach for Europe. <i>Environmental Science and Policy</i> , 2006, 9, 568-576.	4.9	55
6	Integrated planning and spatial evaluation of megasite remediation and reuse options. <i>Journal of Contaminant Hydrology</i> , 2012, 127, 88-100.	3.3	53
7	Contaminant mass discharge estimation in groundwater based on multi-level point measurements: A numerical evaluation of expected errors. <i>Journal of Contaminant Hydrology</i> , 2006, 84, 55-80.	3.3	52
8	An integrated model for assessing the risk of TCE groundwater contamination to human receptors and surface water ecosystems. <i>Ecological Engineering</i> , 2010, 36, 1126-1137.	3.6	51
9	Applying a multi-criteria genetic algorithm framework for brownfield reuse optimization: Improving redevelopment options based on stakeholder preferences. <i>Journal of Environmental Management</i> , 2013, 130, 331-346.	7.8	46
10	Optimization of concentration control by evolution strategies: Formulation, application, and assessment of remedial solutions. <i>Water Resources Research</i> , 2007, 43, .	4.2	40
11	Computationally efficient stochastic optimization using multiple realizations. <i>Advances in Water Resources</i> , 2008, 31, 399-417.	3.8	37
12	Uncertainty and data worth analysis for the hydraulic design of funnel-and-gate systems in heterogeneous aquifers. <i>Water Resources Research</i> , 2004, 40, .	4.2	34
13	Optimized groundwater drawdown in a subsiding urban mining area. <i>Journal of Hydrology</i> , 2009, 365, 95-104.	5.4	32
14	Spatially explicit computation of sustainability indicator values for the automated assessment of land-use options. <i>Landscape and Urban Planning</i> , 2013, 111, 34-45.	7.5	31
15	A system dynamics model for the screening-level long-term assessment of human health risks at contaminated sites. <i>Environmental Modelling and Software</i> , 2013, 40, 35-50.	4.5	30
16	Modelling the long-term performance of zero-valent iron using a spatio-temporal approach for iron aging. <i>Journal of Contaminant Hydrology</i> , 2007, 90, 58-80.	3.3	26
17	Field scale characterization and modeling of contaminant release from a coal tar source zone. <i>Journal of Contaminant Hydrology</i> , 2008, 102, 120-139.	3.3	26
18	Modelling surfactant-enhanced remediation of polycyclic aromatic hydrocarbons. <i>Environmental Modelling and Software</i> , 1998, 14, 203-211.	4.5	25

#	ARTICLE	IF	CITATIONS
19	Exposure-time based modeling of nonlinear reactive transport in porous media subject to physical and geochemical heterogeneity. <i>Journal of Contaminant Hydrology</i> , 2016, 192, 35-49.	3.3	25
20	Modeling the long-term and transient evolution of biogeochemical and isotopic signatures in coal tar-contaminated aquifers. <i>Water Resources Research</i> , 2011, 47, .	4.2	23
21	Combining Pump-and-Treat and Physical Barriers for Contaminant Plume Control. <i>Ground Water</i> , 2004, 42, 856-867.	1.3	22
22	Algorithmic funnel-and-gate system design optimization. <i>Water Resources Research</i> , 2007, 43, .	4.2	22
23	Combining implicit geological modeling, field surveys, and hydrogeological modeling to describe groundwater flow in a karst aquifer. <i>Hydrogeology Journal</i> , 2020, 28, 2779-2802.	2.1	22
24	On the validity of travel-time based nonlinear bioreactive transport models in steady-state flow. <i>Journal of Contaminant Hydrology</i> , 2015, 175-176, 26-43.	3.3	21
25	Cost-optimal contaminant plume management with a combination of pump-and-treat and physical barrier systems. <i>Ground Water Monitoring and Remediation</i> , 2005, 25, 96-106.	0.8	20
26	Modelling of sequential groundwater treatment with zero valent iron and granular activated carbon. <i>Journal of Contaminant Hydrology</i> , 2005, 78, 129-146.	3.3	19
27	Pedotransfer Function for the Brunswick Soil Hydraulic Property Model and Comparison to the van Genuchten-Mualem Model. <i>Water Resources Research</i> , 2020, 56, e2019WR026820.	4.2	18
28	Flow guided interpolation – A GIS-based method to represent contaminant concentration distributions in groundwater. <i>Environmental Modelling and Software</i> , 2010, 25, 1769-1780.	4.5	17
29	Using travel times to simulate multi-dimensional bioreactive transport in time-periodic flows. <i>Journal of Contaminant Hydrology</i> , 2016, 187, 1-17.	3.3	15
30	Conventional and Combined Pump-and-Treat Systems Under Nonuniform Background Flow. <i>Ground Water</i> , 2006, 44, 234-243.	1.3	13
31	A travel time-based approach to model kinetic sorption in highly heterogeneous porous media via reactive hydrofacies. <i>Water Resources Research</i> , 2016, 52, 9390-9411.	4.2	10
32	Impact of pre-equilibration and diffusion limited release kinetics on effluent concentration in column leaching tests: Insights from numerical simulations. <i>Waste Management</i> , 2017, 63, 58-73.	7.4	9
33	First order approximation for coupled film and intraparticle pore diffusion to model sorption/desorption batch experiments. <i>Journal of Hazardous Materials</i> , 2022, 429, 128314.	12.4	9
34	Modelling surfactant influenced PAH migration. <i>Physics and Chemistry of the Earth</i> , 1998, 23, 245-250.	0.3	8
35	Evaluating two multi-model simulation optimization approaches for managing groundwater contaminant plumes. <i>Journal of Hydrology</i> , 2020, 590, 125427.	5.4	8
36	Mass Transfer Principles in Column Percolation Tests: Initial Conditions and Tailing in Heterogeneous Materials. <i>Materials</i> , 2021, 14, 4708.	2.9	5

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37	Reaktionswandsysteme und ?Pump-and-Treat??Ein Kostenvergleich. Grundwasser, 2003, 8, 169-180.	1.4	4
38	Influence of flow rate and particle size on local equilibrium in column percolation tests using crushed masonry. Journal of Material Cycles and Waste Management, 2019, 21, 642-651.	3.0	4
39	Nitrate reduction potential of a fractured Middle Triassic carbonate aquifer in Southwest Germany. Hydrogeology Journal, 2022, 30, 163-180.	2.1	4
40	Managing collaborative research data for integrated, interdisciplinary environmental research. Earth Science Informatics, 2020, 13, 641-654.	3.2	3
41	Competent Optimization of Water Supply Problems under Uncertainty by Evolution Strategies. , 2007, , 1.		0
42	Transfer of pollutants in soils, sediments and water systems: From small to large scale. Journal of Hydrology, 2009, 369, 223-224.	5.4	0