

Luk Jm Peeters

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

1,197
citations

516710

16
h-index

395702

33
g-index

62
all docs

62
docs citations

62
times ranked

1549
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of surrogate models and their application to groundwater modeling. <i>Water Resources Research</i> , 2015, 51, 5957-5973.	4.2	366
2	Hydrogeological conceptual model building and testing: A review. <i>Journal of Hydrology</i> , 2019, 569, 310-329.	5.4	97
3	Application of a multimodel approach to account for conceptual model and scenario uncertainties in groundwater modelling. <i>Journal of Hydrology</i> , 2010, 394, 416-435.	5.4	82
4	Relating small-scale sedimentary structures and permeability in a cross-bedded aquifer. <i>Journal of Hydrology</i> , 2008, 361, 41-51.	5.4	50
5	Estimating groundwater recharge and its associated uncertainty: Use of regression kriging and the chloride mass balance method. <i>Journal of Hydrology</i> , 2018, 561, 1063-1080.	5.4	47
6	Accounting for surface-groundwater interactions and their uncertainty in river and groundwater models: A case study in the Namoi River, Australia. <i>Environmental Modelling and Software</i> , 2013, 50, 108-119.	4.5	42
7	Exploratory data analysis and clustering of multivariate spatial hydrogeological data by means of GEO3DSOM, a variant of Kohonen's Self-Organizing Map. <i>Hydrology and Earth System Sciences</i> , 2007, 11, 1309-1321.	4.9	40
8	Groundwater recharge from overbank floods. <i>Water Resources Research</i> , 2012, 48, .	4.2	38
9	Bayesian data fusion applied to water table spatial mapping. <i>Water Resources Research</i> , 2008, 44, .	4.2	31
10	High-resolution paleovalley classification from airborne electromagnetic imaging and deep neural network training using digital elevation model data. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 2561-2580.	4.9	30
11	Bayesian data fusion for water table interpolation: Incorporating a hydrogeological conceptual model in kriging. <i>Water Resources Research</i> , 2010, 46, .	4.2	28
12	Emulator-enabled approximate Bayesian computation (ABC) and uncertainty analysis for computationally expensive groundwater models. <i>Journal of Hydrology</i> , 2018, 564, 191-207.	5.4	27
13	Estimating seepage flux from ephemeral stream channels using surface water and groundwater level data. <i>Water Resources Research</i> , 2014, 50, 1474-1489.	4.2	24
14	Assumption Hunting in Groundwater Modeling: Find Assumptions Before They Find You. <i>Ground Water</i> , 2017, 55, 665-669.	1.3	24
15	Effect of aquifer storage and recovery (ASR) on recovered stormwater quality variability. <i>Water Research</i> , 2017, 117, 1-8.	11.3	21
16	Understanding the sources of uncertainty to reduce the risks of undesirable outcomes in large-scale freshwater ecosystem restoration projects: An example from the Murray-Darling Basin, Australia. <i>Environmental Science and Policy</i> , 2013, 33, 97-108.	4.9	20
17	Robust global sensitivity analysis of a river management model to assess nonlinear and interaction effects. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 3777-3785.	4.9	15
18	A Background Color Scheme for Piper Plots to Spatially Visualize Hydrochemical Patterns. <i>Ground Water</i> , 2014, 52, 2-6.	1.3	15

#	ARTICLE	IF	CITATIONS
19	A Systematic Approach to Hydrogeological Conceptual Model Testing, Combining Remote Sensing and Geophysical Data. <i>Water Resources Research</i> , 2020, 56, e2020WR027578.	4.2	14
20	Conceptual evaluation of continental land-surface model behaviour. <i>Environmental Modelling and Software</i> , 2013, 43, 49-59.	4.5	13
21	Determining the initial spatial extent of an environmental impact assessment with a probabilistic screening methodology. <i>Environmental Modelling and Software</i> , 2018, 109, 353-367.	4.5	13
22	Gauge based precipitation estimation and associated model and product uncertainties. <i>Journal of Hydrology</i> , 2012, 444-445, 100-112.	5.4	12
23	Modelling overbank flood recharge at a continental scale. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 1273-1288.	4.9	12
24	Impacts of coal mining and coal seam gas extraction on groundwater and surface water. <i>Journal of Hydrology</i> , 2020, 591, 125281.	5.4	11
25	Towards Geostatistical Learning for the Geosciences: A Case Study in Improving the Spatial Awareness of Spectral Clustering. <i>Mathematical Geosciences</i> , 2020, 52, 1035-1048.	2.4	11
26	Groundwater Impacts and Management under a Drying Climate in Southern Australia. <i>Water (Switzerland)</i> , 2021, 13, 3588.	2.7	11
27	Towards monitoring groundwater-dependent ecosystems using synthetic aperture radar imagery. <i>Hydrological Processes</i> , 2019, 33, 3239-3250.	2.6	10
28	Regional-scale modelling and predictive uncertainty analysis of cumulative groundwater impacts from coal seam gas and coal mining developments. <i>Hydrogeology Journal</i> , 2020, 28, 193-218.	2.1	10
29	Emulation Engines: Choice and Quantification of Uncertainty for Complex Hydrological Models. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2018, 23, 39-62.	1.4	9
30	Hydrogeological Bayesian Hypothesis Testing through Trans-Dimensional Sampling of a Stochastic Water Balance Model. <i>Water (Switzerland)</i> , 2019, 11, 1463.	2.7	9
31	A spatial causal network approach for multi-stressor risk analysis and mapping for environmental impact assessments. <i>Science of the Total Environment</i> , 2022, 802, 149845.	8.0	9
32	Modelling the impacts of future coal mining and coal seam gas extraction on river flows: A methodological framework. <i>Journal of Hydrology</i> , 2021, 596, 126144.	5.4	8
33	Identifying recharge under subtle ephemeral features in a flat-lying semi-arid region using a combined geophysical approach. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 4353-4368.	4.9	7
34	Sub3DNet1.0: a deep-learning model for regional-scale 3D subsurface structure mapping. <i>Geoscientific Model Development</i> , 2021, 14, 3421-3435.	3.6	6
35	Modelling the cumulative impacts of future coal mining and coal seam gas extraction on river flows: Applications of methodology. <i>Journal of Hydrology</i> , 2021, 598, 126440.	5.4	5
36	Visualization of Aqueous Geochemical Data Using Python and <sc>WQChartPy</sc>. <i>Ground Water</i> , 2022, 60, 555-564.	1.3	5

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37	Modelling seasonal variations in nitrate and sulphate concentrations in a vulnerable alluvial aquifer. <i>Environmental Geology</i> , 2004, 46, 951-961.	1.2	4
38	When to Account for Boundary Conditions in Estimating Hydraulic Properties from Head Observations?. <i>Ground Water</i> , 2019, 57, 351-355.	1.3	3
39	Understanding the gravity response variability of sedimentary basins using forward stratigraphic modelling. <i>Marine and Petroleum Geology</i> , 2020, 122, 104698.	3.3	3
40	Potential impacts of shale and tight gas developments on unconfined aquifers – a chemical screening framework. <i>APPEA Journal</i> , 2021, 61, 389.	0.2	3
41	Geological and Bioregional Assessments: assessing direct and indirect impacts using causal networks. <i>APPEA Journal</i> , 2021, 61, 485.	0.2	2
42	Risk management frameworks: supporting the next generation of Murray-Darling Basin water sharing plans. <i>Proceedings of the International Association of Hydrological Sciences</i> , 0, 364, 452-457.	1.0	2
43	Aquitard and Fault Simulation Approaches for Use in Regional-Scale Assessments of Coal Seam Gas Extraction Impacts. , 2016, , .		1
44	Review of Hydrogeology: Groundwater Science and Engineering by Alain Dassargues CRC Press, Boca Raton, FL; 2018; ISBN 9781498744003; 472 pp.; \$99.95.. <i>Journal of Hydrologic Engineering - ASCE</i> , 2020, 25, 07519007.	1.9	1
45	Improving the hydrogeologic conceptualization of a remote semiarid palaeovalley groundwater system using airborne electromagnetics, seismic refraction and reflection, and downhole nuclear magnetic resonance. <i>Geophysics</i> , 2021, 86, WB207-WB226.	2.6	1
46	THE IMPORTANCE OF BEING UNCERTAIN. <i>Water E-Journal</i> , 2018, 3, 1-10.	0.2	1
47	How Fluvial Deposits Distort Aquifer Recharge Estimated From Groundwater Age: Insights From a Landscape Evolution Model. <i>Water Resources Research</i> , 2022, 58, .	4.2	1
48	Editor’s Message: Stand on the shoulders of giants, don’t hide behind them. <i>Hydrogeology Journal</i> , 2015, 23, 421-422.	2.1	0
49	Understanding the variability of sedimentary basin’s gravity response through stratigraphic modelling. <i>ASEG Extended Abstracts</i> , 2019, 2019, 1-4.	0.1	0
50	Demonstrating hydraulic isolation of unconventional gas reservoirs by regional-scale aquitards through combination of borehole geophysics and core measurements. , 2018, , .		0