Luk Jm Peeters

List of Publications by Year
in descending order

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50	1,197	516710 16	395702 33
papers	citations	h-index	g-index

62	62	62	1549
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A spatial causal network approach for multi-stressor risk analysis and mapping for environmental impact assessments. Science of the Total Environment, 2022, 802, 149845.	8.0	9
2	Visualization of Aqueous Geochemical Data Using Python and <scp>WQChartPy</scp>. Ground Water, 2022, 60, 555-564.	1.3	5
3	How Fluvial Deposits Distort Aquifer Recharge Estimated From Groundwater Age: Insights From a Landscape Evolution Model. Water Resources Research, 2022, 58, .	4.2	1
4	Geological and Bioregional Assessments: assessing direct and indirect impacts using causal networks. APPEA Journal, 2021, 61, 485.	0.2	2
5	Potential impacts of shale and tight gas developments on unconfined aquifers â€“ a chemical screening framework. APPEA Journal, 2021, 61, 389.	0.2	3
6	Modelling the impacts of future coal mining and coal seam gas extraction on river flows: A methodological framework. Journal of Hydrology, 2021, 596, 126144.	5.4	8
7	Sub3DNet1.0: a deep-learning model for regional-scale 3D subsurface structure mapping. Geoscientific Model Development, 2021, 14, 3421-3435.	3.6	6
8	Modelling the cumulative impacts of future coal mining and coal seam gas extraction on river flows: Applications of methodology. Journal of Hydrology, 2021, 598, 126440.	5.4	5
9	Improving the hydrogeologic conceptualization of a remote semiarid palaeovalley groundwater system using airborne electromagnetics, seismic refraction and reflection, and downhole nuclear magnetic resonance. Geophysics, 2021, 86, WB207-WB226.	2.6	1
10	Groundwater Impacts and Management under a Drying Climate in Southern Australia. Water (Switzerland), 2021, 13, 3588.	2.7	11
11	Review of Hydrogeology: Groundwater Science and Engineering by Alain DassarguesCRC Press, Boca Raton, FL; 2018; ISBN 9781498744003; 472 pp.; $99.95.. Journal of Hydrologic Engineering - ASCE, 2020, 25, 07519007.	1.9	1
12	Regional-scale modelling and predictive uncertainty analysis of cumulative groundwater impacts from coal seam gas and coal mining developments. Hydrogeology Journal, 2020, 28, 193-218.	2.1	10
13	Understanding the gravity response variability of sedimentary basins using forward stratigraphic modelling. Marine and Petroleum Geology, 2020, 122, 104698.	3.3	3
14	Impacts of coal mining and coal seam gas extraction on groundwater and surface water. Journal of Hydrology, 2020, 591, 125281.	5.4	11
15	A Systematic Approach to Hydrogeological Conceptual Model Testing, Combining Remote Sensing and Geophysical Data. Water Resources Research, 2020, 56, e2020WR027578.	4.2	14
16	Towards Geostatistical Learning for the Geosciences: A Case Study in Improving the Spatial Awareness of Spectral Clustering. Mathematical Geosciences, 2020, 52, 1035-1048.	2.4	11
17	Identifying recharge under subtle ephemeral features in a flat-lying semi-arid region using a combined geophysical approach. Hydrology and Earth System Sciences, 2020, 24, 4353-4368.	4.9	7
18	Towards monitoring groundwaterâ€dependent ecosystems using synthetic aperture radar imagery. Hydrological Processes, 2019, 33, 3239-3250.	2.6	10

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19	High-resolution paleovalley classification from airborne electromagnetic imaging and deep neural network training using digital elevation model data. Hydrology and Earth System Sciences, 2019, 23, 2561-2580.	4.9	30
20	Hydrogeological Bayesian Hypothesis Testing through Trans-Dimensional Sampling of a Stochastic Water Balance Model. Water (Switzerland), 2019, 11, 1463.	2.7	9
21	When to Account for Boundary Conditions in Estimating Hydraulic Properties from Head Observations?. Ground Water, 2019, 57, 351-355.	1.3	3
22	Understanding the variability of sedimentary basinâ€™s gravity response through stratigraphic modelling. ASEG Extended Abstracts, 2019, 2019, 1-4.	0.1	0
23	Hydrogeological conceptual model building and testing: A review. Journal of Hydrology, 2019, 569, 310-329.	5.4	97
24	Estimating groundwater recharge and its associated uncertainty: Use of regression kriging and the chloride mass balance method. Journal of Hydrology, 2018, 561, 1063-1080.	5.4	47
25	Emulation Engines: Choice and Quantification of Uncertainty for Complex Hydrological Models. Journal of Agricultural, Biological, and Environmental Statistics, 2018, 23, 39-62.	1.4	9
26	Determining the initial spatial extent of an environmental impact assessment with a probabilistic screening methodology. Environmental Modelling and Software, 2018, 109, 353-367.	4.5	13
27	Emulator-enabled approximate Bayesian computation (ABC) and uncertainty analysis for computationally expensive groundwater models. Journal of Hydrology, 2018, 564, 191-207.	5.4	27
28	THE IMPORTANCE OF BEING UNCERTAIN. Water E-Journal, 2018, 3, 1-10.	0.2	1
29	Demonstrating hydraulic isolation of unconventional gas reservoirs by regional-scale aquitards through combination of borehole geophysics and core measurements. , 2018, , .		0
30	Effect of aquifer storage and recovery (ASR) on recovered stormwater quality variability. Water Research, 2017, 117, 1-8.	11.3	21
31	Assumption Hunting in Groundwater Modeling: Find Assumptions Before They Find You. Ground Water, 2017, 55, 665-669.	1.3	24
32	Aquitard and Fault Simulation Approaches for Use in Regional-Scale Assessments of Coal Seam Gas Extraction Impacts. , 2016, , .		1
33	A review of surrogate models and their application to groundwater modeling. Water Resources Research, 2015, 51, 5957-5973.	4.2	366
34	Editorâ€™s Message: Stand on the shoulders of giants, donâ€™t hide behind them. Hydrogeology Journal, 2015, 23, 421-422.	2.1	0
35	Robust global sensitivity analysis of a river management model to assess nonlinear and interaction effects. Hydrology and Earth System Sciences, 2014, 18, 3777-3785.	4.9	15
36	Modelling overbank flood recharge at a continental scale. Hydrology and Earth System Sciences, 2014, 18, 1273-1288.	4.9	12

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37	Estimating seepage flux from ephemeral stream channels using surface water and groundwater level data. Water Resources Research, 2014, 50, 1474-1489.	4.2	24
38	A Background Color Scheme for Piper Plots to Spatially Visualize Hydrochemical Patterns. Ground Water, 2014, 52, 2-6.	1.3	15
39	Understanding the sources of uncertainty to reduce the risks of undesirable outcomes in large-scale freshwater ecosystem restoration projects: An example from the Murrayâ€“Darling Basin, Australia. Environmental Science and Policy, 2013, 33, 97-108.	4.9	20
40	Conceptual evaluation of continental land-surface model behaviour. Environmental Modelling and Software, 2013, 43, 49-59.	4.5	13
41	Accounting for surfaceâ€“groundwater interactions and their uncertainty in river and groundwater models: A case study in the Namoi River, Australia. Environmental Modelling and Software, 2013, 50, 108-119.	4.5	42
42	Groundwater recharge from overbank floods. Water Resources Research, 2012, 48, .	4.2	38
43	Gauge based precipitation estimation and associated model and product uncertainties. Journal of Hydrology, 2012, 444-445, 100-112.	5.4	12
44	Application of a multimodel approach to account for conceptual model and scenario uncertainties in groundwater modelling. Journal of Hydrology, 2010, 394, 416-435.	5.4	82
45	Bayesian data fusion for water table interpolation: Incorporating a hydrogeological conceptual model in kriging. Water Resources Research, 2010, 46, .	4.2	28
46	Relating small-scale sedimentary structures and permeability in a cross-bedded aquifer. Journal of Hydrology, 2008, 361, 41-51.	5.4	50
47	Bayesian data fusion applied to water table spatial mapping. Water Resources Research, 2008, 44, .	4.2	31
48	Exploratory data analysis and clustering of multivariate spatial hydrogeological data by means of GEO3DSOM, a variant of Kohonen's Self-Organizing Map. Hydrology and Earth System Sciences, 2007, 11, 1309-1321.	4.9	40
49	Modelling seasonal variations in nitrate and sulphate concentrations in a vulnerable alluvial aquifer. Environmental Geology, 2004, 46, 951-961.	1.2	4
50	Risk management frameworks: supporting the next generation of Murray-Darling Basin water sharing plans. Proceedings of the International Association of Hydrological Sciences, 0, 364, 452-457.	1.0	2