

Florimond De Smedt

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4347319/publications.pdf>

Version: 2024-02-01

108
papers

4,601
citations

100601

38
h-index

129628

63
g-index

112
all docs

112
docs citations

112
times ranked

4708
citing authors

#	ARTICLE	IF	CITATIONS
1	Analytical Solution for Fractional Well Flow in a Double-Porosity Aquifer with Fractional Transient Exchange between Matrix and Fractures. <i>Water (Switzerland)</i> , 2022, 14, 456.	1.2	2
2	Groundwater Vulnerability and Nitrate Contamination Assessment and Mapping Using DRASTIC and Geostatistical Analysis. <i>Water (Switzerland)</i> , 2020, 12, 2022.	1.2	13
3	Constant-Rate Pumping Test in a Leaky Aquifer with Water Release from Storage in the Aquitard. <i>Ground Water</i> , 2020, 58, 487-491.	0.7	2
4	Estimation and Mapping of the Transmissivity of the Nubian Sandstone Aquifer in the Kharga Oasis, Egypt. <i>Water (Switzerland)</i> , 2020, 12, 604.	1.2	14
5	Evaluation of the Groundwater Quality Using the Water Quality Index and Geostatistical Analysis in the Dier al-Balah Governorate, Gaza Strip, Palestine. <i>Water (Switzerland)</i> , 2020, 12, 262.	1.2	67
6	Analysis and Mapping of Rainfall-Induced Landslide Susceptibility in A Luoi District, Thua Thien Hue Province, Vietnam. <i>Water (Switzerland)</i> , 2019, 11, 51.	1.2	18
7	Case Study Kleine Nete: Observation Error and Uncertainty. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2018, , 75-86.	0.2	0
8	Experimental and statistical study of saturated hydraulic conductivity and relations with other soil properties of a desert soil. <i>European Journal of Soil Science</i> , 2018, 69, 256-264.	1.8	29
9	Zone-Integrated Double-Constraint Methodology for Calibration of Hydraulic Conductivities in Grid Cell Clusters of Groundwater Flow Models. <i>Transport in Porous Media</i> , 2018, 122, 633-645.	1.2	3
10	Double Constraint Method for Pumping Test Analysis. <i>Journal of Hydrologic Engineering - ASCE</i> , 2018, 23, 06018003.	0.8	5
11	The Zone-Integrated Double Constraint Method. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2018, , 87-98.	0.2	0
12	Regional groundwater flow modeling of the Geba basin, northern Ethiopia. <i>Hydrogeology Journal</i> , 2017, 25, 639-655.	0.9	21
13	A Combined Hydrological and Hydraulic Model for Flood Prediction in Vietnam Applied to the Huong River Basin as a Test Case Study. <i>Water (Switzerland)</i> , 2017, 9, 879.	1.2	28
14	Hydrodynamics of porous formations: Simple indices for calibration and identification of spatio-temporal scales. <i>Marine and Petroleum Geology</i> , 2016, 78, 690-700.	1.5	11
15	Landfill site selection using multi-criteria evaluation in the GIS interface: a case study from the Gaza Strip, Palestine. <i>Arabian Journal of Geosciences</i> , 2015, 8, 7499-7513.	0.6	52
16	Improving the Confidence in Hydrologic Model Calibration and Prediction by Transformation of Model Residuals. <i>Journal of Hydrologic Engineering - ASCE</i> , 2015, 20, 04015001.	0.8	3
17	Analytical solution for the catchment zone of a well located near a groundwater divide in a recharged semi-confined aquifer. <i>Journal of Hydrology</i> , 2014, 519, 1271-1277.	2.3	3
18	Improving WetSpa model to predict streamflows for gaged and ungaged catchments. <i>Journal of Hydroinformatics</i> , 2014, 16, 758-771.	1.1	3

#	ARTICLE	IF	CITATIONS
19	Intercomparison of five lumped and distributed models for catchment runoff and extreme flow simulation. <i>Journal of Hydrology</i> , 2014, 511, 335-349.	2.3	78
20	Impact of climate change and urban development on extreme flows in the Grote Nete watershed, Belgium. <i>Natural Hazards</i> , 2014, 71, 2127-2142.	1.6	22
21	Slope stability analysis using a physically based model: a case study from A Luoi district in Thua Thien-Hue Province, Vietnam. <i>Landslides</i> , 2014, 11, 897-907.	2.7	18
22	Intercomparison of hydrological model structures and calibration approaches in climate scenario impact projections. <i>Journal of Hydrology</i> , 2014, 519, 743-755.	2.3	61
23	Analytical solution for capture and catchment zones of a well located on a groundwater divide. <i>Water Resources Research</i> , 2014, 50, 736-740.	1.7	9
24	Evaluation and comparison of GIS based landslide susceptibility mapping procedures in Kulekhani watershed, Nepal. <i>Journal of the Geological Society of India</i> , 2013, 81, 219-231.	0.5	43
25	Validation of soil moisture simulation with a distributed hydrologic model (WetSpa). <i>Environmental Earth Sciences</i> , 2013, 69, 739-747.	1.3	22
26	Evaluation of the consistency of landslide susceptibility mapping: a case study from the Kankai watershed in east Nepal. <i>Landslides</i> , 2013, 10, 785-799.	2.7	40
27	Application of the analytical hierarchy process (AHP) for landslide susceptibility mapping: A case study from the Tinau watershed, west Nepal. <i>Computers and Geosciences</i> , 2013, 52, 398-408.	2.0	391
28	Application of a spatially distributed water balance model for assessing surface water and groundwater resources in the Geba basin, Tigray, Ethiopia. <i>Journal of Hydrology</i> , 2013, 499, 110-123.	2.3	87
29	GIS based landslide susceptibility mapping using a fuzzy logic approach: A case study from Churmi-Dhad Khola area, Eastern Nepal. <i>Journal of the Geological Society of India</i> , 2013, 82, 249-261.	0.5	39
30	Climate change impact on river flows and catchment hydrology: a comparison of two spatially distributed models. <i>Hydrological Processes</i> , 2013, 27, 3649-3662.	1.1	53
31	Landslide susceptibility mapping using the weight of evidence method in the Tinau watershed, Nepal. <i>Natural Hazards</i> , 2012, 63, 479-498.	1.6	123
32	Impact of Climate Change on Streamflow and Soil Moisture in the Vermilion Basin, Illinois. <i>Journal of Hydrologic Engineering - ASCE</i> , 2012, 17, 1059-1070.	0.8	22
33	Simulation of hydrological processes in the Simiyu River, tributary of Lake Victoria, Tanzania. <i>Water S A</i> , 2012, 38, .	0.2	2
34	Application of an analytical hierarchical process approach for landslide susceptibility mapping in A Luoi district, Thua Thien Hue Province, Vietnam. <i>Environmental Earth Sciences</i> , 2012, 66, 1739-1752.	1.3	83
35	WetSpa model application in the Distributed Model Intercomparison Project (DMIP2). <i>Journal of Hydrology</i> , 2012, 418-419, 78-89.	2.3	42
36	Results of the DMIP 2 Oklahoma experiments. <i>Journal of Hydrology</i> , 2012, 418-419, 17-48.	2.3	97

#	ARTICLE	IF	CITATIONS
37	Analytical Solution for Constant-Rate Pumping Test in Fissured Porous Media with Double-Porosity Behaviour. <i>Transport in Porous Media</i> , 2011, 88, 479-489.	1.2	19
38	Evaluation of groundwater resources in the Geba basin, Ethiopia. <i>Bulletin of Engineering Geology and the Environment</i> , 2011, 70, 461-466.	1.6	17
39	Containment of groundwater pollution (methyl tertiary butyl ether and benzene) to protect a drinking-water production site in Belgium. <i>Hydrogeology Journal</i> , 2010, 18, 1917-1925.	0.9	11
40	Prediction of snowmelt floods with a distributed hydrological model using a physical snow mass and energy balance approach. <i>Natural Hazards</i> , 2010, 54, 451-468.	1.6	31
41	Predictive Analysis and Simulation Uncertainty of a Distributed Hydrological Model. <i>Water Resources Management</i> , 2010, 24, 2869-2880.	1.9	37
42	Multi-objective calibration of a distributed hydrological model (WetSpa) using a genetic algorithm. <i>Hydrology and Earth System Sciences</i> , 2009, 13, 2137-2149.	1.9	75
43	Multi-Criteria Decision Making under Uncertainty in Rainfall-Runoff Calibration: A Fuzzy Compromise Programming Approach Based on Alpha Level Sets. , 2009, , .		2
44	Groundwater recharge and flow in a small mountain catchment in northern Ethiopia. <i>Hydrological Sciences Journal</i> , 2009, 54, 739-753.	1.2	43
45	Comparison of Two Mathematical Models for 3D Groundwater Flow: Block-Centered Heads and Edge-Based Stream Functions. <i>Transport in Porous Media</i> , 2009, 79, 469-485.	1.2	4
46	Hydrological Modeling of Snow Accumulation and Melting on River Basin Scale. <i>Water Resources Management</i> , 2009, 23, 2271-2287.	1.9	49
47	Slope stability analysis on a regional scale using GIS: a case study from Dhading, Nepal. <i>Environmental Geology</i> , 2009, 57, 1603-1611.	1.2	38
48	Distributed Hydrological Modeling and Sensitivity Analysis in Torysa Watershed, Slovakia. <i>Water Resources Management</i> , 2008, 22, 393-408.	1.9	87
49	GIS-based recharge estimation by coupling surface and subsurface water balances. <i>Journal of Hydrology</i> , 2007, 337, 337-355.	2.3	209
50	Analytical solution and analysis of solute transport in rivers affected by diffusive transfer in the hyporheic zone. <i>Journal of Hydrology</i> , 2007, 339, 29-38.	2.3	25
51	Reply to comment: "Analytical solution for solute transport resulting from instantaneous injection in streams with transient storage" by F. De Smedt, W. Brevis, and P. Debels, 2005. <i>Journal of Hydrology</i> 315, 25-39. <i>Journal of Hydrology</i> , 2007, 338, 149-151.	2.3	1
52	WetSpa Model Application for Assessing Reforestation Impacts on Floods in Margecany Hornad Watershed, Slovakia. <i>Water Resources Management</i> , 2007, 21, 1373-1391.	1.9	76
53	Effects of climate change on the groundwater system in the Grote-Nete catchment, Belgium. <i>Hydrogeology Journal</i> , 2007, 15, 891-901.	0.9	146
54	A comparative study of hydraulic conductivity estimations using geostatistics. <i>Hydrogeology Journal</i> , 2007, 15, 459-470.	0.9	18

#	ARTICLE	IF	CITATIONS
55	Reply to comment: "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, 761-762.	2.3	2
56	Analytical solutions for transport of decaying solutes in rivers with transient storage. Journal of Hydrology, 2006, 330, 672-680.	2.3	37
57	Application of WetSpa model for assessing land use impacts on floods in the Margecany "Hornad watershed, Slovakia. Water Science and Technology, 2006, 53, 37-45.	1.2	46
58	Simulation of runoff and phosphorus transport in a Carpathian catchment, Slovakia. River Research and Applications, 2006, 22, 1009-1022.	0.7	10
59	Modelling groundwater flow of the Trifa aquifer, Morocco. Hydrogeology Journal, 2006, 14, 1265-1276.	0.9	27
60	Assessing landslide hazard in GIS: a case study from Rasuwa, Nepal. Bulletin of Engineering Geology and the Environment, 2006, 65, 99-107.	1.6	58
61	Large-scale GIS-based hydrogeological modeling of Flanders: a tool for groundwater management. Environmental Geology, 2006, 50, 1201-1209.	1.2	21
62	Predicting storm runoff from different land-use classes using a geographical information system-based distributed model. Hydrological Processes, 2006, 20, 533-548.	1.1	47
63	Two- and Three-Dimensional Flow of Groundwater. , 2006, , 4-1-4-36.		1
64	Test of a distributed modelling approach to predict flood flows in the karst Suoimuoi catchment in Vietnam. Environmental Geology, 2005, 48, 931-940.	1.2	28
65	Study of cavernous underground conduits in Nam La (Northwest Vietnam) by an integrative approach. Hydrogeology Journal, 2005, 13, 675-689.	0.9	5
66	Flood Modeling for Complex Terrain Using GIS and Remote Sensed Information. Water Resources Management, 2005, 19, 605-624.	1.9	79
67	Assessing land use impacts on flood processes in complex terrain by using GIS and modeling approach. Environmental Modeling and Assessment, 2005, 9, 227-235.	1.2	43
68	Assessing the hydrological effects of Landuse changes using distributed hydrological modelling and GIS. International Journal of River Basin Management, 2005, 3, 261-271.	1.5	6
69	Analytical solution for solute transport resulting from instantaneous injection in streams with transient storage. Journal of Hydrology, 2005, 315, 25-39.	2.3	80
70	Lineament extraction and analysis, comparison of LANDSAT ETM and ASTER imagery. Case study: Suoimuoi tropical karst catchment, Vietnam. , 2005, 5983, 182.		104
71	Simulation of flood reduction by natural river rehabilitation using a distributed hydrological model. Hydrology and Earth System Sciences, 2004, 8, 1129-1140.	1.9	20
72	Analysing the effect of climate changes on streamflow using statistically downscaled GCM scenarios. International Journal of River Basin Management, 2004, 2, 271-280.	1.5	40

#	ARTICLE	IF	CITATIONS
73	Application of a Bayesian Approach to Stochastic Delineation of Capture Zones. Ground Water, 2004, 42, 542-551.	0.7	13
74	SEEPAGE, a New MODFLOW DRAIN Package. Ground Water, 2004, 42, 576-588.	0.7	32
75	Study on the relationship between lineaments and borehole specific capacity in a fractured and karstified limestone area in Vietnam. Hydrogeology Journal, 2004, 12, 662-673.	0.9	54
76	A geostatistical methodology to estimate the base of the Trifa aquifer (Morocco) with limited drilling and geo-electrical sounding data. Bulletin of Engineering Geology and the Environment, 2004, 63, 345-351.	1.6	3
77	Doode Bemde CASI-SWIR 2002: Hyperspectral sensing of moisture gradients--set-up and first results of a combined field and airborne campaign. , 2004, , .		1
78	A Bayesian approach to stochastic capture zone delineation incorporating tracer arrival times, conductivity measurements, and hydraulic head observations. Water Resources Research, 2003, 39, .	1.7	41
79	Bayesian methodology for stochastic capture zone delineation incorporating transmissivity measurements and hydraulic head observations. Journal of Hydrology, 2003, 271, 156-170.	2.3	36
80	Regional groundwater discharge: phreatophyte mapping, groundwater modelling and impact analysis of land-use change. Journal of Hydrology, 2003, 275, 86-108.	2.3	145
81	Stochastic delineation of capture zones: classical versus Bayesian approach. Journal of Hydrology, 2003, 281, 313-324.	2.3	17
82	A diffusive transport approach for flow routing in GIS-based flood modeling. Journal of Hydrology, 2003, 283, 91-106.	2.3	153
83	Bayesian methodology to stochastic capture zone determination: Conditioning on transmissivity measurements. Water Resources Research, 2002, 38, 3-1-3-11.	1.7	27
84	Stochastic capture zone delineation within the generalized likelihood uncertainty estimation methodology: Conditioning on head observations. Water Resources Research, 2001, 37, 625-638.	1.7	83
85	Simulation of calcium leaching and desorption in an acid forest soil. European Journal of Soil Science, 2000, 51, 245-255.	1.8	1
86	Heavy metal distribution model under estuarine mixing. Hydrological Processes, 1999, 13, 789-804.	1.1	18
87	A time-dependent flow model for heavy metals in the Scheldt estuary. , 1998, , 143-155.		7
88	Numerical solution of 3-D groundwater flow involving free boundaries by a fixed finite element method. Journal of Hydrology, 1997, 201, 161-182.	2.3	24
89	A Time-dependent flow model for heavy metals in the scheldt estuary. Hydrobiologia, 1997, 366, 143-155.	1.0	21
90	Principal component transformation method to separate active discharge and recharge areas. Journal of the Indian Society of Remote Sensing, 1997, 25, 93-103.	1.2	0

#	ARTICLE	IF	CITATIONS
91	Dissolved humic substances for remediation of sites contaminated by organic pollutants. Binding-desorption model predictions. <i>Water Research</i> , 1996, 30, 2027-2038.	5.3	76
92	Transport of polychlorinated biphenyls (PCB) in the Scheldt Estuary simulated with the water quality model WASP. <i>Journal of Hydrology</i> , 1996, 174, 1-18.	2.3	40
93	The family of inositol and phosphatidylinositol polyphosphate 5-phosphatases. <i>Biochemical Society Transactions</i> , 1996, 24, 1001-1005.	1.6	25
94	A distributed model for water and energy transfer between soil, plants and atmosphere (WetSpa). <i>Physics and Chemistry of the Earth</i> , 1996, 21, 189-193.	0.3	153
95	Production of Recombinant Human Brain type I Inositol-1,4,5-trisphosphate 5-phosphatase in <i>Escherichia coli</i> . Lack of Phosphorylation by Protein Kinase C. <i>FEBS Journal</i> , 1995, 234, 598-602.	0.2	12
96	Solving three-dimensional hexahedral finite element groundwater models by preconditioned conjugate gradient methods. <i>Water Resources Research</i> , 1994, 30, 509-521.	1.7	19
97	Three-Dimensional Finite Element Model for Saltwater Intrusion into Aquifers. <i>Water Science and Technology Library</i> , 1994, , 1019-1026.	0.2	2
98	Modelling of Groundwater Transport of Microorganic Pollutants: State-of-the-Art. , 1988, , 387-400.		1
99	Study of tracer movement through unsaturated sand. <i>Geoderma</i> , 1986, 38, 223-236.	2.3	20
100	Study of tracer movement through unsaturated sand. <i>Journal of Hydrology</i> , 1986, 85, 169-181.	2.3	69
101	Solute Transfer Through Columns of Glass Beads. <i>Water Resources Research</i> , 1984, 20, 225-232.	1.7	187
102	Application to Rivers and Underground Waters. <i>Water Science and Technology</i> , 1982, 14, 1073-1094.	1.2	0
103	Solute Transfer Through Unsaturated Porous Media. <i>Studies in Environmental Science</i> , 1981, 17, 1011-1016.	0.0	1
104	Mass transfer in porous media with immobile water. <i>Journal of Hydrology</i> , 1979, 41, 59-67.	2.3	80
105	A generalized solution for solute flow in soils with mobile and immobile water. <i>Water Resources Research</i> , 1979, 15, 1137-1141.	1.7	91
106	Solute Transport Through Soil With Nonuniform Water Content. <i>Soil Science Society of America Journal</i> , 1978, 42, 7-10.	1.2	30
107	Approximate Analytical Solution for Solute Flow During Infiltration and Redistribution. <i>Soil Science Society of America Journal</i> , 1978, 42, 407-412.	1.2	50
108	Investigation of the hydrological balance in a peat swamp. <i>Journal of Hydrology</i> , 1977, 34, 151-160.	2.3	1