

Mauro Giudici

List of Publications by Year in descending order

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56
papers

946
citations

516215

16
h-index

500791

28
g-index

60
all docs

60
docs citations

60
times ranked

996
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparaison de trois méthodes statistiques pour des simulations hydrofaciées: un test sur des sédiments alluvionnaires. <i>Hydrogeology Journal</i> , 2012, 20, 299-311.	0.9	90
2	Modeling heterogeneity of gravel-sand, braided stream, alluvial aquifers at the facies scale. <i>Journal of Hydrology</i> , 2006, 325, 134-153.	2.3	76
3	Combining sedimentological and geophysical data for high-resolution 3-D mapping of fluvial architectural elements in the Quaternary Po plain (Italy). <i>Sedimentary Geology</i> , 2007, 202, 230-248.	1.0	74
4	Seawater intrusion in karstic, coastal aquifers: Current challenges and future scenarios in the Taranto area (southern Italy). <i>Science of the Total Environment</i> , 2016, 573, 1340-1351.	3.9	47
5	Modelling hydrostratigraphy and groundwater flow of a fractured and karst aquifer in a Mediterranean basin (Salento peninsula, southeastern Italy). <i>Environmental Earth Sciences</i> , 2012, 67, 1891-1907.	1.3	44
6	Effects of sedimentary heterogeneity on groundwater flow in a Quaternary pro-glacial delta environment: joining facies analysis and numerical modelling. <i>Sedimentary Geology</i> , 1999, 129, 327-344.	1.0	33
7	On the use of meteorological data to assess the evaporation from a bare soil. <i>Journal of Hydrology</i> , 2009, 372, 30-40.	2.3	33
8	Identification of thermal conductivities by temperature gradient profiles: One-dimensional steady flow. <i>Geophysics</i> , 1989, 54, 643-653.	1.4	29
9	Mapping the spatial variation of soil moisture at the large scale using GPR for pavement applications. <i>Near Surface Geophysics</i> , 2015, 13, 269-278.	0.6	29
10	Assessment of the role of facies heterogeneity at the fine scale by numerical transport experiments and connectivity indicators. <i>Hydrogeology Journal</i> , 2010, 18, 651-668.	0.9	26
11	Modeling water resources of a highly irrigated alluvial plain (Italy): calibrating soil and groundwater models. <i>Hydrogeology Journal</i> , 2012, 20, 449-467.	0.9	26
12	A New Method for the Identification of Distributed Transmissivities. <i>Water Resources Research</i> , 1995, 31, 1969-1988.	1.7	24
13	Soil moisture mapping using GPR for pavement applications. , 2013, , .		24
14	A numerical comparison between two upscaling techniques: non-local inverse based scaling and simplified renormalization. <i>Advances in Water Resources</i> , 2001, 24, 913-929.	1.7	23
15	Hydrogeophysical imaging of alluvial aquifers: electrostratigraphic units in the quaternary Po alluvial plain (Italy). <i>International Journal of Earth Sciences</i> , 2012, 101, 2005-2025.	0.9	23
16	Geostatistical Simulation and Numerical Upscaling, to Model Ground-Water Flow in a Sandy-Gravel, Braided River, Aquifer Analogue. <i>Journal of Sedimentary Research</i> , 2006, 76, 1215-1229.	0.8	21
17	The Terramare and the surrounding hydraulic structures: a geophysical survey of the Santa Rosa site at Poviglio (Bronze Age, northern Italy). <i>Journal of Archaeological Science</i> , 2013, 40, 4648-4662.	1.2	18
18	Mapping the geometry of an aquifer system with a high-resolution reflection seismic profile. <i>Geophysical Prospecting</i> , 2005, 53, 817-828.	1.0	16

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19	Experimental and Modeling Study of the Soil-Atmosphere Interaction and Unsaturated Water Flow to Estimate the Recharge of a Phreatic Aquifer. <i>Journal of Hydrologic Engineering - ASCE</i> , 2007, 12, 573-584.	0.8	16
20	Impact of two geostatistical hydro-facies simulation strategies on head statistics under non-uniform groundwater flow. <i>Journal of Hydrology</i> , 2014, 508, 343-355.	2.3	16
21	The Differential System Method for the Identification of Transmissivity and Storativity. <i>Transport in Porous Media</i> , 1997, 26, 339-371.	1.2	14
22	Connectivity and single/dual domain transport models: tests on a point-bar/channel aquifer analogue. <i>Hydrogeology Journal</i> , 2014, 22, 761-778.	0.9	13
23	Relating electrical conduction of alluvial sediments to textural properties and pore fluid conductivity. <i>Geophysical Prospecting</i> , 2014, 62, 631-645.	1.0	13
24	The geothermal potential of the underground of the Salento peninsula (southern Italy). <i>Environmental Earth Sciences</i> , 2015, 73, 6733-6746.	1.3	13
25	Mapping Soil Water Capacity Through EMI Survey to Delineate Site-Specific Management Units Within an Irrigated Field. <i>Soil Science</i> , 2016, 181, 252-263.	0.9	12
26	Effects of different boundary conditions on the simulation of groundwater flow in a multi-layered coastal aquifer system (Taranto Gulf, southern Italy). <i>Hydrogeology Journal</i> , 2017, 25, 2123-2138.	0.9	12
27	The importance of observations on fluxes to constrain ground water model calibration. <i>Physics and Chemistry of the Earth</i> , 2008, 33, 1105-1110.	1.2	11
28	Improving Bowen-ratio estimates of evaporation using a rejection criterion and multiple-point statistics. <i>Journal of Hydrology</i> , 2018, 563, 43-50.	2.3	11
29	Spectral Analysis of the Balance Equation of Ground Water Hydrology. <i>Transport in Porous Media</i> , 2008, 72, 171-178.	1.2	10
30	Single and Dual-Domain Models to Evaluate the Effects of Preferential Flow Paths in Alluvial Sediments. <i>Transport in Porous Media</i> , 2011, 87, 465-484.	1.2	10
31	Resistivity imaging of Pleistocene alluvial aquifers in a contractional tectonic setting: A case history from the Po plain (Northern Italy). <i>Journal of Applied Geophysics</i> , 2013, 93, 114-126.	0.9	10
32	Hierarchical simulation of aquifer heterogeneity: implications of different simulation settings on solute-transport modeling. <i>Hydrogeology Journal</i> , 2016, 24, 319-334.	0.9	10
33	Is the Forward Problem of Ground Water Hydrology Always Well Posed?. <i>Ground Water</i> , 2002, 40, 500-508.	0.7	9
34	Numerical modeling of the groundwater flow in the fractured and karst aquifer of the Salento peninsula (Southern Italy). <i>Acque Sotteranee - Italian Journal of Groundwater</i> , 2013, , .	0.2	9
35	Conceptualization and characterization of a coastal multi-layered aquifer system in the Taranto Gulf (southern Italy). <i>Environmental Earth Sciences</i> , 2016, 75, 1.	1.3	9
36	Discrete stability of the Differential System Method evaluated with geostatistical techniques. <i>Stochastic Hydrology & Hydraulics</i> , 1998, 12, 191-204.	0.5	8

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37	Hybrid Inversion Method to Estimate Hydraulic Transmissivity by Combining Multiple-Point Statistics and a Direct Inversion Method. <i>Mathematical Geosciences</i> , 2018, 50, 147-167.	1.4	8
38	Modeling Groundwater Flow in Heterogeneous Porous Media with YAGMod. <i>Computation</i> , 2016, 4, 2.	1.0	7
39	Urban geoheritage as a resource for Earth Sciences education: examples from Milan metropolitan area. <i>Rendiconti Online Societa Geologica Italiana</i> , 0, 45, 83-88.	0.3	7
40	Application of revised ray tracing migration to imagine lateral variations of seismic fabric corresponding to different tectonic styles in the northern Apennines. <i>Tectonophysics</i> , 1998, 300, 181-197.	0.9	6
41	About the Symmetry of the Upscaled Equivalent Transmissivity Tensor. <i>Mathematical Geosciences</i> , 2007, 39, 399-408.	0.9	6
42	Resolving electrolayers from VES: A contribution from modeling the electrical response of a tightly constrained alluvial stratigraphy. <i>Journal of Applied Geophysics</i> , 2015, 119, 25-35.	0.9	6
43	A sensitivity analysis for an evolution model of the Antarctic ice sheet. <i>Reliability Engineering and System Safety</i> , 2012, 107, 64-70.	5.1	5
44	Single- and Dual-domain Models of Solute Transport in Alluvial Sediments: the Effects of Heterogeneity Structure and Spatial Scale. <i>Transport in Porous Media</i> , 2014, 105, 315-348.	1.2	5
45	Estimation of sediment texture from spectral induced polarisation data using cluster and principal component analysis. <i>Near Surface Geophysics</i> , 2016, 14, 433-447.	0.6	5
46	dsm.f90: A computer code for the solution of an inverse problem of ground water hydrology by the differential system method. <i>Computers and Geosciences</i> , 2006, 32, 1709-1719.	2.0	4
47	Comments on "Steady- and transient-state inversion in hydrogeology by successive flux estimation" by P. Pasquier and D. Marcotte. <i>Advances in Water Resources</i> , 2007, 30, 2051-2053.	1.7	4
48	An electrostratigraphic cross-section across the central Po plain: bearings on subsurface geology and hydrostratigraphy. <i>International Journal of Earth Sciences</i> , 2018, 107, 2787-2802.	0.9	3
49	Tomographic Approach to Identify Transmissivity with Differential System Method. <i>Journal of Hydrologic Engineering - ASCE</i> , 2007, 12, 617-625.	0.8	2
50	A comparison between single- and multi-objective optimization to fit spectral induced polarization data from laboratory measurements on alluvial sediments. <i>Journal of Applied Geophysics</i> , 2015, 122, 149-158.	0.9	2
51	About the Dependence of Breakthrough Curves on Flow Direction in Column Experiments of Transport across a Sharp Interface Separating Different Porous Materials. <i>Geofluids</i> , 2019, 2019, 1-8.	0.3	2
52	Improving the robustness of the Comparison Model Method for the identification of hydraulic transmissivities. <i>Computers and Geosciences</i> , 2021, 149, 104705.	2.0	2
53	Modelling groundwater recharge in an alluvial aquifer of Somaliland with the groundwater flow model YAGmod. <i>Acque Sotterranee - Italian Journal of Groundwater</i> , 0, , .	0.2	1
54	Modeling the evolution of the Antarctic ice sheet in the last 200ky. <i>Procedia, Social and Behavioral Sciences</i> , 2010, 2, 7603-7604.	0.5	0

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55	Solute transport in geological porous media: estimation of dispersion coefficients. <i>Procedia, Social and Behavioral Sciences</i> , 2010, 2, 7605-7606.	0.5	0
56	Exposing high-school students to Geosciences through seminars, laboratory and field demonstrations. <i>Rendiconti Online Societa Geologica Italiana</i> , 0, 40, 18-21.	0.3	0