

Nicolo Colombani

List of Publications by Citations

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109
papers

1,612
citations

22
h-index

33
g-index

118
ext. papers

1,950
ext. citations

4.2
avg, IF

5.24
L-index

#	Paper	IF	Citations
109	Hydrogeochemical study in the Main Ethiopian Rift: new insights to the source and enrichment mechanism of fluoride. <i>Environmental Geology</i> , 2009 , 58, 109-118		74
108	A modified SINTACS method for groundwater vulnerability and pollution risk assessment in highly anthropized regions based on NO and SO concentrations. <i>Science of the Total Environment</i> , 2017 , 609, 1512-1523	10.2	65
107	Multivariate statistical analysis to characterize/discriminate between anthropogenic and geogenic trace elements occurrence in the Campania Plain, Southern Italy. <i>Environmental Pollution</i> , 2018 , 234, 260-269	9.3	62
106	Characterization of the lowland coastal aquifer of Comacchio (Ferrara, Italy): Hydrology, hydrochemistry and evolution of the system. <i>Journal of Hydrology</i> , 2013 , 501, 35-44	6	61
105	Impact of Climate Change on Salinization of Coastal Water Resources. <i>Water Resources Management</i> , 2016 , 30, 2483-2496	3.7	58
104	A novel hybrid method of specific vulnerability to anthropogenic pollution using multivariate statistical and regression analyses. <i>Water Research</i> , 2020 , 171, 115386	12.5	53
103	Ammonium occurrence in a salinized lowland coastal aquifer (Ferrara, Italy). <i>Hydrological Processes</i> , 2013 , 27, 3495-3501	3.3	47
102	The Po river water from the Alps to the Adriatic Sea (Italy): new insights from geochemical and isotopic ($\delta^{18}\text{O}$ -D) data. <i>Environmental Science and Pollution Research</i> , 2015 , 22, 5184-203	5.1	44
101	Assessment of the Intrinsic Vulnerability of Agricultural Land to Water and Nitrogen Losses via Deterministic Approach and Regression Analysis. <i>Water, Air, and Soil Pollution</i> , 2012 , 223, 1605-1614	2.6	37
100	Linking dissolved organic carbon, acetate and denitrification in agricultural soils. <i>Environmental Earth Sciences</i> , 2013 , 68, 939-945	2.9	35
99	GALDIT-SUSI a modified method to account for surface water bodies in the assessment of aquifer vulnerability to seawater intrusion. <i>Journal of Environmental Management</i> , 2019 , 235, 257-265	7.9	34
98	Surface electrical resistivity tomography and hydrogeological characterization to constrain groundwater flow modeling in an agricultural field site near Ferrara (Italy). <i>Environmental Earth Sciences</i> , 2010 , 61, 311-322	2.9	34
97	Batch and column experiments on nutrient leaching in soils amended with Italian natural zeolites. <i>Catena</i> , 2015 , 127, 64-71	5.8	31
96	Numerical assessment of effective evapotranspiration from maize plots to estimate groundwater recharge in lowlands. <i>Agricultural Water Management</i> , 2010 , 97, 1389-1398	5.9	31
95	Predicting Salinization Trends in a Lowland Coastal Aquifer: Comacchio (Italy). <i>Water Resources Management</i> , 2015 , 29, 603-618	3.7	30
94	Large tank experiment on nitrate fate and transport: the role of permeability distribution. <i>Environmental Earth Sciences</i> , 2011 , 63, 903-914	2.9	27
93	Evaluation of saline tracer performance during electrical conductivity groundwater monitoring. <i>Journal of Contaminant Hydrology</i> , 2011 , 123, 157-66	3.9	25

92	Variation of the hydraulic properties and solute transport mechanisms in a silty-clay soil amended with natural zeolites. <i>Catena</i> , 2014 , 123, 195-204	5.8	24
91	Modelling Actual and Future Seawater Intrusion in the Variconi Coastal Wetland (Italy) Due to Climate and Landscape Changes. <i>Water (Switzerland)</i> , 2019 , 11, 1502	3	23
90	Nitrogen and sulphur cycling in the saline coastal aquifer of Ferrara, Italy. A multi-isotope approach. <i>Applied Geochemistry</i> , 2017 , 76, 88-98	3.5	23
89	Reactive Modeling of Denitrification in Soils with Natural and Depleted Organic Matter. <i>Water, Air, and Soil Pollution</i> , 2011 , 222, 205-215	2.6	23
88	High-resolution global grids of revised Priestley-Taylor and Hargreaves-Samani coefficients for assessing ASCE-standardized reference crop evapotranspiration and solar radiation. <i>Earth System Science Data</i> , 2017 , 9, 615-638	10.5	23
87	The Importance of Data Acquisition Techniques in Saltwater Intrusion Monitoring. <i>Water Resources Management</i> , 2012 , 26, 2851-2866	3.7	22
86	Monitoring and Modeling Nitrate Persistence in a Shallow Aquifer. <i>Water, Air, and Soil Pollution</i> , 2011 , 217, 83-93	2.6	22
85	Reclamation influence and background geochemistry of neutral saline soils in the Po River Delta Plain (Northern Italy). <i>Environmental Earth Sciences</i> , 2014 , 72, 2457-2473	2.9	21
84	High resolution short-term investigation of soil CO ₂ , N ₂ O, NO _x and NH ₃ emissions after different chabazite zeolite amendments. <i>Applied Soil Ecology</i> , 2017 , 119, 138-144	5	21
83	Improved gravitational grain size separation method. <i>Applied Clay Science</i> , 2010 , 48, 612-614	5.2	21
82	Contribution of the subsurface drainage system in changing the nitrogen speciation of an agricultural soil located in a complex marsh environment (Ferrara, Italy). <i>Agricultural Water Management</i> , 2013 , 119, 144-153	5.9	19
81	Column Elution Experiments on Volcanic Ash: Geochemical Implications for the Main Ethiopian Rift Waters. <i>Water, Air, and Soil Pollution</i> , 2010 , 208, 221-233	2.6	19
80	Use of shallow groundwater temperature profiles to infer climate and land use change: interpretation and measurement challenges. <i>Hydrological Processes</i> , 2016 , 30, 2512-2524	3.3	18
79	Reactive nitrogen losses via denitrification assessed in saturated agricultural soils. <i>Geoderma</i> , 2019 , 337, 91-98	6.7	18
78	Short-Term Response of Soil Microbial Biomass to Different Chabazite Zeolite Amendments. <i>Pedosphere</i> , 2018 , 28, 277-287	5	18
77	Evaluating SWAT model performance, considering different soils data input, to quantify actual and future runoff susceptibility in a highly urbanized basin. <i>Journal of Environmental Management</i> , 2020 , 266, 110625	7.9	17
76	Chlorate origin and fate in shallow groundwater below agricultural landscapes. <i>Environmental Pollution</i> , 2017 , 231, 1453-1462	9.3	17
75	Geochemical evolution and salinization of a coastal aquifer via seepage through peaty lenses. <i>Environmental Earth Sciences</i> , 2016 , 75, 1	2.9	17

74	Limitation of using heat as a groundwater tracer to define aquifer properties: experiment in a large tank model. <i>Environmental Earth Sciences</i> , 2013 , 70, 719-728	2.9	16
73	Formulation of Indices to Describe Intrinsic Nitrogen Transformation Rates for the Implementation of Best Management Practices in Agricultural Lands. <i>Water, Air, and Soil Pollution</i> , 2013 , 224, 1	2.6	16
72	Modelling the fate of styrene in a mixed petroleum hydrocarbon plume. <i>Journal of Contaminant Hydrology</i> , 2009 , 105, 38-55	3.9	16
71	Fertilizers mobilization in alluvial aquifer: laboratory experiments. <i>Environmental Geology</i> , 2009 , 56, 1371-1381	16	
70	A Hybrid GIS and AHP Approach for Modelling Actual and Future Forest Fire Risk Under Climate Change Accounting Water Resources Attenuation Role. <i>Sustainability</i> , 2019 , 11, 7166	3.6	16
69	The Issue of Groundwater Salinization in Coastal Areas of the Mediterranean Region: A Review. <i>Water (Switzerland)</i> , 2021 , 13, 90	3	16
68	Coastal aquifer response to extreme storm events in Emilia-Romagna, Italy. <i>Hydrological Processes</i> , 2017 , 31, 1613-1621	3.3	15
67	Fate of arsenic, phosphate and ammonium plumes in a coastal aquifer affected by saltwater intrusion. <i>Journal of Contaminant Hydrology</i> , 2015 , 179, 116-31	3.9	15
66	Natural and NH ₄ ⁺ -enriched zeolite amendment effects on nitrate leaching from a reclaimed agricultural soil (Ferrara Province, Italy). <i>Nutrient Cycling in Agroecosystems</i> , 2018 , 110, 327-341	3.3	15
65	Assessing Aquifer Salinization with Multiple Techniques along the Southern Caspian Sea Shore (Iran). <i>Water (Switzerland)</i> , 2018 , 10, 348	3	15
64	Assessing the Effect of Saltwater Intrusion on Petroleum Hydrocarbons Plumes Via Numerical Modelling. <i>Water, Air, and Soil Pollution</i> , 2012 , 223, 4417-4427	2.6	14
63	Deciphering Interannual Temperature Variations in Springs of the Campania Region (Italy). <i>Water (Switzerland)</i> , 2019 , 11, 288	3	14
62	Origin and pattern of salinization in the Holocene aquifer of the southern Po Delta (NE Italy). <i>Journal of Geochemical Exploration</i> , 2017 , 175, 130-137	3.8	13
61	Trace elements mobility in a saline coastal aquifer of the Po river lowland (Italy). <i>Journal of Geochemical Exploration</i> , 2015 , 159, 317-328	3.8	13
60	Estimating groundwater residence time and recharge patterns in a saline coastal aquifer. <i>Hydrological Processes</i> , 2016 , 30, 4202-4213	3.3	13
59	Assessment of the anthropogenic fluoride export in Addis Ababa urban environment (Ethiopia). <i>Journal of Geochemical Exploration</i> , 2018 , 190, 390-399	3.8	13
58	Inferring the interconnections between surface water bodies, tile-drains and an unconfined aquifer-aquitard system: A case study. <i>Journal of Hydrology</i> , 2016 , 537, 86-95	6	12
57	Natural and anthropogenic variations in the Po river waters (northern Italy): insights from a multi-isotope approach. <i>Isotopes in Environmental and Health Studies</i> , 2016 , 52, 649-72	1.5	12

56	Performance of different assessment methods to evaluate contaminant sources and fate in a coastal aquifer. <i>Environmental Science and Pollution Research</i> , 2015 , 22, 15536-48	5.1	12
55	Combined use of heat and saline tracer to estimate aquifer properties in a forced gradient test. <i>Journal of Hydrology</i> , 2015 , 525, 650-657	6	11
54	Soil type and microclimatic conditions as drivers of urea transformation kinetics in maize plots. <i>Catena</i> , 2018 , 166, 200-208	5.8	11
53	Detecting Small-Scale Variability of Trace Elements in a Shallow Aquifer. <i>Water, Air, and Soil Pollution</i> , 2015 , 226, 1	2.6	11
52	Modelling the Density Contrast Effect on a Chlorinated Hydrocarbon Plume Reaching the Shore Line. <i>Water, Air, and Soil Pollution</i> , 2011 , 220, 387-398	2.6	11
51	Contrasting biogeochemical processes revealed by stable isotopes of HO, N, C and S in shallow aquifers underlying agricultural lowlands. <i>Science of the Total Environment</i> , 2019 , 691, 1282-1296	10.2	10
50	Geolithological and anthropogenic controls on the hydrochemistry of the Volturno river (Southern Italy). <i>Hydrological Processes</i> , 2017 , 31, 627-638	3.3	10
49	Misleading reconstruction of seawater intrusion via integral depth sampling. <i>Journal of Hydrology</i> , 2016 , 536, 320-326	6	10
48	Intense rainfalls trigger nitrite leaching in agricultural soils depleted in organic matter. <i>Science of the Total Environment</i> , 2019 , 665, 80-90	10.2	9
47	Estimated Water Savings in an Agricultural Field Amended With Natural Zeolites. <i>Environmental Processes</i> , 2016 , 3, 617-628	2.8	9
46	Direct measurement of dissolved dinitrogen to refine reactive modelling of denitrification in agricultural soils. <i>Science of the Total Environment</i> , 2019 , 647, 134-140	10.2	9
45	Soil conditioners effects on hydraulic properties, leaching processes and denitrification on a silty-clay soil. <i>Science of the Total Environment</i> , 2020 , 733, 139342	10.2	8
44	Abnormal trace element concentrations in a shallow aquifer belonging to saline reclaimed environments, Codigoro (Italy). <i>Rendiconti Lincei</i> , 2016 , 27, 95-104	1.7	7
43	Reactive and Mixing Processes Governing Ammonium and Nitrate Coexistence in a Polluted Coastal Aquifer. <i>Geosciences (Switzerland)</i> , 2018 , 8, 210	2.7	7
42	Efficiency verification of a horizontal flow barrier via flowmeter tests and multilevel sampling. <i>Hydrological Processes</i> , 2013 , 27, 2414-2421	3.3	7
41	The Importance of Incorporating Denitrification in the Assessment of Groundwater Vulnerability. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 2328	2.6	6
40	Natural and anthropogenic factors driving groundwater resources salinization for agriculture use in the Campania plains (Southern Italy). <i>Science of the Total Environment</i> , 2021 , 758, 144033	10.2	6
39	Modelling groundwater residence time in a sub-irrigated buffer zone. <i>Ecohydrology</i> , 2014 , 7, 1054-1063	2.5	5

38	Managed aquifer recharge via infiltration ditches in short rotation afforested areas. <i>Ecohydrology</i> , 2016 , 9, 167-178	2.5	5
37	Nutrients and carbon fate in two lowland contrasting soils amended with compost. <i>Catena</i> , 2021 , 206, 105493	5.8	5
36	Redox Dependent Arsenic Occurrence and Partitioning in an Industrial Coastal Aquifer: Evidence from High Spatial Resolution Characterization of Groundwater and Sediments. <i>Water (Switzerland)</i> , 2020 , 12, 2932	3	4
35	Modeling Soil Nitrate Accumulation and Leaching in Conventional and Conservation Agriculture Cropping Systems. <i>Water (Switzerland)</i> , 2020 , 12, 1571	3	4
34	A green and fast chromatographic method for determining organic compound mobility in soils. <i>Journal of Chromatography A</i> , 2009 , 1216, 6802-9	4.5	4
33	Impact of climate variability on the salinization of the coastal wetland-aquifer system of the Po Delta, Italy 2017 , jws2017115		3
32	Monitoring nutrients fate after digestate spreading in a short rotation buffer area. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 22816-22826	5.1	3
31	Modelling the salinization of a coastal lagoon-aquifer system. <i>IOP Conference Series: Earth and Environmental Science</i> , 2017 , 82, 012003	0.3	3
30	WaterRock Interaction and Lake Hydrochemistry in the Main Ethiopian Rift. <i>World Geomorphological Landscapes</i> , 2015 , 307-321	0.4	3
29	Monitoring and Modelling Interactions between the Montagna dei Fiori Aquifer and the Castellano Stream (Central Apennines, Italy). <i>Water (Switzerland)</i> , 2020 , 12, 973	3	3
28	A combined methodology to assess the intrinsic vulnerability of aquifers to pollution from agrochemicals. <i>Arabian Journal of Geosciences</i> , 2016 , 9, 1	1.8	3
27	Effect of ebullition and groundwater temperature on estimated dinitrogen excess in contrasting agricultural environments. <i>Science of the Total Environment</i> , 2019 , 693, 133638	10.2	3
26	Reactive modelling of 1,2-DCA and DOC near the shoreline. <i>Journal of Contaminant Hydrology</i> , 2014 , 169, 100-111	3.9	3
25	Modelling present and future Po river interactions with alluvial aquifers (Low Po River Plain, Italy). <i>Journal of Water and Climate Change</i> , 2014 , 5, 457-471	2.3	3
24	Predictive modeling of selected trace elements in groundwater using hybrid algorithms of iterative classifier optimizer. <i>Journal of Contaminant Hydrology</i> , 2021 , 242, 103849	3.9	3
23	Complex Interactions Between Fertilizers and Subsoils Triggering Reactive Nitrogen Speciation in Lowlands. <i>Advances in Science, Technology and Innovation</i> , 2019 , 133-135	0.3	2
22	FreshwaterSeawater mixing experiments in sand columns. <i>Journal of Hydrology</i> , 2012 , 448-449, 112-118	6	2
21	Comparison of Different B-index Expressions to Evaluate the State of Physical Soil Properties. <i>Geotechnical and Geological Engineering</i> , 2015 , 33, 1055-1066	1.5	2

20	A Stepwise Approach to Assess the Fate of Nitrogen Species in Agricultural Lowlands 2013 , 431-460		2
19	Trend of Heavy Metal Release According to Forecasted Climate Change in the Po Delta. <i>Environmental Processes</i> , 2016 , 3, 553-567	2.8	2
18	Groundwater Temperature Trend as a Proxy for Climate Variability. <i>Proceedings (mdpi)</i> , 2018 , 2, 630	0.3	2
17	Limitations of GALDIT to map seawater intrusion vulnerability in a highly touristic coastal area. <i>IOP Conference Series: Earth and Environmental Science</i> , 2018 , 191, 012050	0.3	2
16	Actual and Forecasted Vulnerability Assessment to Seawater Intrusion via GALDIT-SUSI in the Volturno River Mouth (Italy). <i>Remote Sensing</i> , 2021 , 13, 3632	5	2
15	Testing graphene versus classical soil improvers in a sandy calcisol. <i>Catena</i> , 2022 , 208, 105754	5.8	2
14	Scenario Modelling of Climate Change's Impact on Salinization of Coastal Water Resources in Reclaimed Lands. <i>Procedia Engineering</i> , 2016 , 162, 25-31		1
13	Formation and dissolution of salt crusts as a rapid way of nitrate mobilization in a tile-drained agricultural field under a temperate climate. <i>Arabian Journal of Geosciences</i> , 2016 , 9, 1	1.8	1
12	Recognition of the anthropogenic contribution to the input of fluoride in urban recharge. <i>Environmental Earth Sciences</i> , 2018 , 77, 1	2.9	1
11	Seasonal Salinity Variations in a Coastal Wetland Induced by Complex Interactions Between Sea, River and Evapoconcentration Processes. <i>Springer Water</i> , 2020 , 77-88	0.3	1
10	Evaluating SWAT Performance to Quantify the Streamflow Sediment Yield in a Highly Urbanized Basin. <i>Environmental Sciences Proceedings</i> , 2020 , 2, 5	1	1
9	Quantifying the Impact of Evapotranspiration at the Aquifer Scale via Groundwater Modelling and MODIS Data. <i>Water (Switzerland)</i> , 2021 , 13, 950	3	1
8	Nitrogen Budget of Short Rotation Forests Amended with Digestate in Highly Permeable Soils. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 4326	2.6	1
7	Assessment of intrinsic aquifer vulnerability at continental scale through a critical application of the drastic framework: The case of South America.. <i>Science of the Total Environment</i> , 2022 , 153748	10.2	0
6	The origin of Uranium in groundwater of the eastern Halkidiki region, northern Greece.. <i>Science of the Total Environment</i> , 2021 , 812, 152445	10.2	0
5	Monitoring and Modeling Digestate Fate and Transport in Infiltrating Afforested Areas Versus Maize/Ray-Grass Rotation Plots. <i>Advances in Science, Technology and Innovation</i> , 2018 , 797-799	0.3	
4	The influence of disaggregation procedures on soil gravitational separation. <i>Applied Clay Science</i> , 2014 , 97-98, 241-245	5.2	
3	Modelling Shallow Groundwater Evaporation Rates from a Large Tank Experiment. <i>Water Resources Management</i> , 2021 , 35, 3339-3354	3.7	

- 2 Soil Denitrification, the Missing Piece in the Puzzle of Nitrogen Budget in Lowland Agricultural Basins. *Ecosystems*,1 3.9
- 1 Lithological Influence and Human Impact On the Hydrochemistry of an Apennine Watershed (Southern Italy). *IOP Conference Series: Earth and Environmental Science*, **2016**, 44, 022020 0.3