

Nicolo Colombani

List of Publications by Year in descending order

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Version: 2024-02-01

116
papers

2,312
citations

201385

27
h-index

288905

40
g-index

118
all docs

118
docs citations

118
times ranked

2198
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	3.7	91
2	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.	1.2	86
3	A modified SINTACS method for groundwater vulnerability and pollution risk assessment in highly anthropized regions based on NO ₃ ⁻ and SO ₄ ²⁻ concentrations. <i>Science of the Total Environment</i> , 2017, 609, 1512-1523.	3.9	82
4	A novel hybrid method of specific vulnerability to anthropogenic pollution using multivariate statistical and regression analyses. <i>Water Research</i> , 2020, 171, 115386.	5.3	80
5	Impact of Climate Change on Salinization of Coastal Water Resources. <i>Water Resources Management</i> , 2016, 30, 2483-2496.	1.9	78
6	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.	2.3	74
7	Ammonium occurrence in a salinized lowland coastal aquifer (Ferrara, Italy). <i>Hydrological Processes</i> , 2013, 27, 3495-3501.	1.1	58
8	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.	3.8	52
9	The Issue of Groundwater Salinization in Coastal Areas of the Mediterranean Region: A Review. <i>Water (Switzerland)</i> , 2021, 13, 90.	1.2	52
10	The Po river water from the Alps to the Adriatic Sea (Italy): new insights from geochemical and isotopic (¹⁸ O- ² D) data. <i>Environmental Science and Pollution Research</i> , 2015, 22, 5184-5203.	2.7	50
11	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.	3.8	47
12	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.	1.1	45
13	Batch and column experiments on nutrient leaching in soils amended with Italian natural zeolitites. <i>Catena</i> , 2015, 127, 64-71.	2.2	42
14	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.	1.2	42
15	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.	1.3	40
16	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.	1.6	40
17	Predicting Salinization Trends in a Lowland Coastal Aquifer: Comacchio (Italy). <i>Water Resources Management</i> , 2015, 29, 603-618.	1.9	39
18	Numerical assessment of effective evapotranspiration from maize plots to estimate groundwater recharge in lowlands. <i>Agricultural Water Management</i> , 2010, 97, 1389-1398.	2.4	38

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19	Linking dissolved organic carbon, acetate and denitrification in agricultural soils. <i>Environmental Earth Sciences</i> , 2013, 68, 939-945.	1.3	37
20	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.	3.7	36
21	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.	2.1	33
22	Evaluation of saline tracer performance during electrical conductivity groundwater monitoring. <i>Journal of Contaminant Hydrology</i> , 2011, 123, 157-166.	1.6	32
23	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.	2.2	31
24	Nitrogen and sulphur cycling in the saline coastal aquifer of Ferrara, Italy. A multi-isotope approach. <i>Applied Geochemistry</i> , 2017, 76, 88-98.	1.4	30
25	Large tank experiment on nitrate fate and transport: the role of permeability distribution. <i>Environmental Earth Sciences</i> , 2011, 63, 903-914.	1.3	29
26	Coastal aquifer response to extreme storm events in Emilia–Romagna, Italy. <i>Hydrological Processes</i> , 2017, 31, 1613-1621.	1.1	29
27	Reactive nitrogen losses via denitrification assessed in saturated agricultural soils. <i>Geoderma</i> , 2019, 337, 91-98.	2.3	29
28	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.	3.9	29
29	Monitoring and Modeling Nitrate Persistence in a Shallow Aquifer. <i>Water, Air, and Soil Pollution</i> , 2011, 217, 83-93.	1.1	27
30	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.	1.1	27
31	The Importance of Data Acquisition Techniques in Saltwater Intrusion Monitoring. <i>Water Resources Management</i> , 2012, 26, 2851-2866.	1.9	26
32	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.	1.3	26
33	Reactive Modeling of Denitrification in Soils with Natural and Depleted Organic Matter. <i>Water, Air, and Soil Pollution</i> , 2011, 222, 205-215.	1.1	25
34	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.	2.4	25
35	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.	1.1	25
36	Short-Term Response of Soil Microbial Biomass to Different Chabazite Zeolite Amendments. <i>Pedosphere</i> , 2018, 28, 277-287.	2.1	24

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37	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, 823, 153748.	3.9	24
38	Improved gravitational grain size separation method. <i>Applied Clay Science</i> , 2010, 48, 612-614.	2.6	22
39	Deciphering Interannual Temperature Variations in Springs of the Campania Region (Italy). <i>Water (Switzerland)</i> , 2019, 11, 288.	1.2	22
40	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.	1.1	21
41	Chlorate origin and fate in shallow groundwater below agricultural landscapes. <i>Environmental Pollution</i> , 2017, 231, 1453-1462.	3.7	21
42	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.	3.9	20
43	Fate of arsenic, phosphate and ammonium plumes in a coastal aquifer affected by saltwater intrusion. <i>Journal of Contaminant Hydrology</i> , 2015, 179, 116-131.	1.6	19
44	Geochemical evolution and salinization of a coastal aquifer via seepage through peaty lenses. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	1.3	19
45	Soil type and microclimatic conditions as drivers of urea transformation kinetics in maize plots. <i>Catena</i> , 2018, 166, 200-208.	2.2	19
46	Assessing Aquifer Salinization with Multiple Techniques along the Southern Caspian Sea Shore (Iran). <i>Water (Switzerland)</i> , 2018, 10, 348.	1.2	19
47	Modelling the fate of styrene in a mixed petroleum hydrocarbon plume. <i>Journal of Contaminant Hydrology</i> , 2009, 105, 38-55.	1.6	18
48	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.	1.5	18
49	Assessment of the anthropogenic fluoride export in Addis Ababa urban environment (Ethiopia). <i>Journal of Geochemical Exploration</i> , 2018, 190, 390-399.	1.5	18
50	Fertilizers mobilization in alluvial aquifer: laboratory experiments. <i>Environmental Geology</i> , 2009, 56, 1371-1381.	1.2	17
51	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.	1.3	17
52	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.	1.1	17
53	Inferring the interconnections between surface water bodies, tile-drains and an unconfined aquifer—aquitar system: A case study. <i>Journal of Hydrology</i> , 2016, 537, 86-95.	2.3	16
54	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, 649-672.	0.5	16

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55	Intense rainfalls trigger nitrite leaching in agricultural soils depleted in organic matter. <i>Science of the Total Environment</i> , 2019, 665, 80-90.	3.9	16
56	Predictive modeling of selected trace elements in groundwater using hybrid algorithms of iterative classifier optimizer. <i>Journal of Contaminant Hydrology</i> , 2021, 242, 103849.	1.6	16
57	Assessing the Effect of Saltwater Intrusion on Petroleum Hydrocarbons Plumes Via Numerical Modelling. <i>Water, Air, and Soil Pollution</i> , 2012, 223, 4417-4427.	1.1	15
58	Estimating groundwater residence time and recharge patterns in a saline coastal aquifer. <i>Hydrological Processes</i> , 2016, 30, 4202-4213.	1.1	15
59	Contrasting biogeochemical processes revealed by stable isotopes of H ₂ O, N, C and S in shallow aquifers underlying agricultural lowlands. <i>Science of the Total Environment</i> , 2019, 691, 1282-1296.	3.9	15
60	Performance of different assessment methods to evaluate contaminant sources and fate in a coastal aquifer. <i>Environmental Science and Pollution Research</i> , 2015, 22, 15536-15548.	2.7	14
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.	1.5	14
62	Estimated Water Savings in an Agricultural Field Amended With Natural Zeolites. <i>Environmental Processes</i> , 2016, 3, 617-628.	1.7	14
63	Geolithological and anthropogenic controls on the hydrochemistry of the Volturno river (Southern Italy). <i>Journal of Hydrology</i> , 2015, 525, 650-657.	1.1	14
64	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.	2.3	13
65	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.	3.9	13
66	The Importance of Incorporating Denitrification in the Assessment of Groundwater Vulnerability. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2328.	1.3	13
67	Modeling Soil Nitrate Accumulation and Leaching in Conventional and Conservation Agriculture Cropping Systems. <i>Water (Switzerland)</i> , 2020, 12, 1571.	1.2	13
68	Actual and Forecasted Vulnerability Assessment to Seawater Intrusion via GALDIT-SUSI in the Volturno River Mouth (Italy). <i>Remote Sensing</i> , 2021, 13, 3632.	1.8	13
69	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.	1.2	12
70	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.	1.1	11
71	Detecting Small-Scale Variability of Trace Elements in a Shallow Aquifer. <i>Water, Air, and Soil Pollution</i> , 2015, 226, 1.	1.1	11
72	Misleading reconstruction of seawater intrusion via integral depth sampling. <i>Journal of Hydrology</i> , 2016, 536, 320-326.	2.3	11

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73	Nutrients and carbon fate in two lowland contrasting soils amended with compost. <i>Catena</i> , 2021, 206, 105493.	2.2	10
74	Abnormal trace element concentrations in a shallow aquifer belonging to saline reclaimed environments, Codigoro (Italy). <i>Rendiconti Lincei</i> , 2016, 27, 95-104.	1.0	9
75	Reactive and Mixing Processes Governing Ammonium and Nitrate Coexistence in a Polluted Coastal Aquifer. <i>Geosciences (Switzerland)</i> , 2018, 8, 210.	1.0	9
76	The origin of Uranium in groundwater of the eastern Halkidiki region, northern Greece. <i>Science of the Total Environment</i> , 2022, 812, 152445.	3.9	9
77	Efficiency verification of a horizontal flow barrier via flowmeter tests and multilevel sampling. <i>Hydrological Processes</i> , 2013, 27, 2414-2421.	1.1	8
78	Testing graphene versus classical soil improvers in a sandy calcisol. <i>Catena</i> , 2022, 208, 105754.	2.2	8
79	Modelling groundwater residence time in a sub-irrigated buffer zone. <i>Ecohydrology</i> , 2014, 7, 1054-1063.	1.1	7
80	Managed aquifer recharge via infiltration ditches in short rotation afforested areas. <i>Ecohydrology</i> , 2016, 9, 167-178.	1.1	7
81	In situ arsenic immobilisation for coastal aquifers using stimulated iron cycling: Lab-based viability assessment. <i>Applied Geochemistry</i> , 2022, 136, 105155.	1.4	7
82	Freshwater-seawater mixing experiments in sand columns. <i>Journal of Hydrology</i> , 2012, 448-449, 112-118.	2.3	6
83	Groundwater Temperature Trend as a Proxy for Climate Variability. <i>Proceedings (mdpi)</i> , 2018, 2, .	0.2	6
84	A green and fast chromatographic method for determining organic compound mobility in soils. <i>Journal of Chromatography A</i> , 2009, 1216, 6802-6809.	1.8	5
85	Reactive modelling of 1,2-DCA and DOC near the shoreline. <i>Journal of Contaminant Hydrology</i> , 2014, 169, 100-111.	1.6	5
86	Water-Rock Interaction and Lake Hydrochemistry in the Main Ethiopian Rift. <i>World Geomorphological Landscapes</i> , 2015, , 307-321.	0.1	5
87	Impact of climate variability on the salinization of the coastal wetland-aquifer system of the Po Delta, Italy. <i>Journal of Water Supply: Research and Technology - AQUA</i> , 0, , jws2017115.	0.6	5
88	Monitoring and Modelling Interactions between the Montagna dei Fiori Aquifer and the Castellano Stream (Central Apennines, Italy). <i>Water (Switzerland)</i> , 2020, 12, 973.	1.2	5
89	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.	1.2	4
90	Trend of Heavy Metal Release According to Forecasted Climate Change in the Po Delta. <i>Environmental Processes</i> , 2016, 3, 553-567.	1.7	4

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91	Scenario Modelling of Climate Change's Impact on Salinization of Coastal Water Resources in Reclaimed Lands. <i>Procedia Engineering</i> , 2016, 162, 25-31.	1.2	4
92	A combined methodology to assess the intrinsic vulnerability of aquifers to pollution from agrochemicals. <i>Arabian Journal of Geosciences</i> , 2016, 9, 1.	0.6	4
93	Effect of ebullition and groundwater temperature on estimated dinitrogen excess in contrasting agricultural environments. <i>Science of the Total Environment</i> , 2019, 693, 133638.	3.9	4
94	Quantifying the Impact of Evapotranspiration at the Aquifer Scale via Groundwater Modelling and MODIS Data. <i>Water (Switzerland)</i> , 2021, 13, 950.	1.2	4
95	Comparison of Different "S-index" Expressions to Evaluate the State of Physical Soil Properties. <i>Geotechnical and Geological Engineering</i> , 2015, 33, 1055-1066.	0.8	3
96	Monitoring nutrients fate after digestate spreading in a short rotation buffer area. <i>Environmental Science and Pollution Research</i> , 2017, 24, 22816-22826.	2.7	3
97	Modelling the salinization of a coastal lagoon-aquifer system. <i>IOP Conference Series: Earth and Environmental Science</i> , 2017, 82, 012003.	0.2	3
98	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.	0.2	3
99	A Stepwise Approach to Assess the Fate of Nitrogen Species in Agricultural Lowlands. , 2013, , 431-460.		3
100	Nitrate and Dissolved Organic Carbon Release in Sandy Soils at Different Liquid/Solid Ratios Amended with Graphene and Classical Soil Improvers. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 6220.	1.3	3
101	Groundwater-surface water interaction revealed by meteorological trends and groundwater fluctuations on stream water level. <i>Acque Sotterranee - Italian Journal of Groundwater</i> , 2022, 11, 19-28.	0.2	3
102	Complex Interactions Between Fertilizers and Subsoils Triggering Reactive Nitrogen Speciation in Lowlands. <i>Advances in Science, Technology and Innovation</i> , 2019, , 133-135.	0.2	2
103	Nitrogen Budget of Short Rotation Forests Amended with Digestate in Highly Permeable Soils. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4326.	1.3	2
104	Special Issue "Salinization of Water Resources: Ongoing and Future Trends". <i>Water (Switzerland)</i> , 2022, 14, 1806.	1.2	2
105	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.	0.6	1
106	Recognition of the anthropogenic contribution to the input of fluoride in urban recharge. <i>Environmental Earth Sciences</i> , 2018, 77, 1.	1.3	1
107	A Special Issue of Geosciences: Groundwater Pollution. <i>Geosciences (Switzerland)</i> , 2018, 8, 262.	1.0	1
108	Evaluating SWAT Performance to Quantify the Streamflow Sediment Yield in a Highly Urbanized Basin. <i>Environmental Sciences Proceedings</i> , 2020, 2, 5.	0.3	1

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109	Modelling Shallow Groundwater Evaporation Rates from a Large Tank Experiment. <i>Water Resources Management</i> , 2021, 35, 3339-3354.	1.9	1
110	Preliminary assessment on flood mitigation potential via managed aquifer recharge in the Brenta megafan (Italy). <i>Rendiconti Online Societa Geologica Italiana</i> , 0, 35, 200-203.	0.3	1
111	The influence of disaggregation procedures on soil gravitational separation. <i>Applied Clay Science</i> , 2014, 97-98, 241-245.	2.6	0
112	Lithological Influence and Human Impact On the Hydrochemistry of an Apennine Watershed (Southern Tj ETQq0 0,0,rgBT /Oylock 10	0.2	0
113	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.	0.2	0
114	Soil Denitrification, the Missing Piece in the Puzzle of Nitrogen Budget in Lowland Agricultural Basins. <i>Ecosystems</i> , 0, , 1.	1.6	0
115	Continuous monitoring of surface-groundwater interactions in a lowland coastal aquifer. <i>Rendiconti Online Societa Geologica Italiana</i> , 2013, , 137-140.	0.3	0
116	Seismic induced variation of hydraulic conductivity distribution in a large tank. <i>Rendiconti Online Societa Geologica Italiana</i> , 0, 35, 78-80.	0.3	0