

# Nicolas P A Saby

## List of Publications by Year in descending order

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Version: 2024-02-01

56  
papers

2,593  
citations

186209

28  
h-index

197736

49  
g-index

63  
all docs

63  
docs citations

63  
times ranked

3624  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mapping field-scale spatial patterns of size and activity of the denitrifier community. <i>Environmental Microbiology</i> , 2009, 11, 1518-1526.	1.8	259
2	Biogeography of soil bacteria and archaea across France. <i>Science Advances</i> , 2018, 4, eaat1808.	4.7	185
3	Will European soil-monitoring networks be able to detect changes in topsoil organic carbon content?. <i>Global Change Biology</i> , 2008, 14, 2432-2442.	4.2	135
4	Spatial patterns of bacterial taxa in nature reflect ecological traits of deep branches of the 16S rRNA bacterial tree. <i>Environmental Microbiology</i> , 2009, 11, 3096-3104.	1.8	127
5	Impact of alley cropping agroforestry on stocks, forms and spatial distribution of soil organic carbon – A case study in a Mediterranean context. <i>Geoderma</i> , 2015, 259-260, 288-299.	2.3	121
6	Fine resolution map of top- and subsoil carbon sequestration potential in France. <i>Science of the Total Environment</i> , 2018, 630, 389-400.	3.9	109
7	Soil legacy data rescue via GlobalSoilMap and other international and national initiatives. <i>GeoResJ</i> , 2017, 14, 1-19.	1.4	102
8	National calibration of soil organic carbon concentration using diffuse infrared reflectance spectroscopy. <i>Geoderma</i> , 2016, 276, 41-52.	2.3	91
9	Mapping and predictive variations of soil bacterial richness across France. <i>PLoS ONE</i> , 2017, 12, e0186766.	1.1	79
10	Mapping and determinism of soil microbial community distribution across an agricultural landscape. <i>MicrobiologyOpen</i> , 2015, 4, 505-517.	1.2	74
11	Soil fertility after 10 years of conservation tillage in organic farming. <i>Soil and Tillage Research</i> , 2018, 175, 194-204.	2.6	71
12	Biogeographical patterns of soil bacterial communities. <i>Environmental Microbiology Reports</i> , 2009, 1, 251-255.	1.0	70
13	Biogeography of soil microbial communities: a review and a description of the ongoing french national initiative. <i>Agronomy for Sustainable Development</i> , 2010, 30, 359-365.	2.2	65
14	National estimation of soil organic carbon storage potential for arable soils: A data-driven approach coupled with carbon-landscape zones. <i>Science of the Total Environment</i> , 2019, 666, 355-367.	3.9	61
15	Building a pedotransfer function for soil bulk density on regional dataset and testing its validity over a larger area. <i>Geoderma</i> , 2018, 312, 52-63.	2.3	48
16	Uncertainty assessment of GlobalSoilMap soil available water capacity products: A French case study. <i>Geoderma</i> , 2019, 344, 14-30.	2.3	48
17	Refining a reconnaissance soil map by calibrating regression models with data from the same map (Normandy, France). <i>Geoderma Regional</i> , 2014, 1, 21-30.	0.9	46
18	Merging country, continental and global predictions of soil texture: Lessons from ensemble modelling in France. <i>Geoderma</i> , 2019, 337, 99-110.	2.3	43

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19	High cadmium concentrations in Jurassic limestone as the cause for elevated cadmium levels in deriving soils: a case study in Lower Burgundy, France. <i>Environmental Earth Sciences</i> , 2010, 61, 1573-1585.	1.3	42
20	Which persistent organic pollutants can we map in soil using a large spacing systematic soil monitoring design? A case study in Northern France. <i>Science of the Total Environment</i> , 2011, 409, 3719-3731.	3.9	40
21	Contrasting spatial patterns and ecological attributes of soil bacterial and archaeal taxa across a landscape. <i>MicrobiologyOpen</i> , 2015, 4, 518-531.	1.2	40
22	Mapping soil Pb stocks and availability in mainland France combining regression trees with robust geostatistics. <i>Geoderma</i> , 2012, 170, 359-368.	2.3	39
23	Prediction of topsoil texture for Region Centre (France) applying model ensemble methods. <i>Geoderma</i> , 2017, 298, 67-77.	2.3	38
24	Sheet and Rill Erosion. , 2006, , 501-513.		37
25	Probability mapping of soil thickness by random survival forest at a national scale. <i>Geoderma</i> , 2019, 344, 184-194.	2.3	36
26	Similar Processes but Different Environmental Filters for Soil Bacterial and Fungal Community Composition Turnover on a Broad Spatial Scale. <i>PLoS ONE</i> , 2014, 9, e111667.	1.1	35
27	High resolution characterization of the soil organic carbon depth profile in a soil landscape affected by erosion. <i>Soil and Tillage Research</i> , 2016, 156, 185-193.	2.6	34
28	The impacts of CENTURY model initialization scenarios on soil organic carbon dynamics simulation in French long-term experiments. <i>Geoderma</i> , 2018, 311, 25-36.	2.3	34
29	Spatial analysis of trace elements in a moss bio-monitoring data over France by accounting for source, protocol and environmental parameters. <i>Science of the Total Environment</i> , 2017, 590-591, 602-610.	3.9	30
30	Large trends in French topsoil characteristics are revealed by spatially constrained multivariate analysis. <i>Geoderma</i> , 2011, 161, 107-114.	2.3	29
31	First evidence of large-scale PAH trends in French soils. <i>Environmental Chemistry Letters</i> , 2013, 11, 99-104.	8.3	29
32	Occurrence of <i>Stenotrophomonas maltophilia</i> in agricultural soils and antibiotic resistance properties. <i>Research in Microbiology</i> , 2016, 167, 313-324.	1.0	29
33	Multivariate spatial analyses of the distribution and origin of trace and major elements in soils surrounding a secondary lead smelter. <i>Environmental Science and Pollution Research</i> , 2016, 23, 15164-15174.	2.7	27
34	Predictive model of soil molecular microbial biomass. <i>Ecological Indicators</i> , 2016, 64, 203-211.	2.6	26
35	Occurrence of natural organic chlorine in soils for different land uses. <i>Biogeochemistry</i> , 2013, 114, 413-419.	1.7	25
36	Low occurrence of <i>Pseudomonas aeruginosa</i> in agricultural soils with and without organic amendment. <i>Frontiers in Cellular and Infection Microbiology</i> , 2014, 4, 53.	1.8	24

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37	Can soil properties and land use explain glomalin-related soil protein (GRSP) accumulation? A nationwide survey in France. <i>Catena</i> , 2020, 193, 104620.	2.2	23
38	Validation of digital maps derived from spatial disaggregation of legacy soil maps. <i>Geoderma</i> , 2019, 356, 113907.	2.3	22
39	Biogeography of soil microbial habitats across France. <i>Global Ecology and Biogeography</i> , 2020, 29, 1399-1411.	2.7	22
40	Improvement in spectral library-based quantification of soil properties using representative spiking and local calibration – The case of soil inorganic carbon prediction by mid-infrared spectroscopy. <i>Geoderma</i> , 2020, 369, 114272.	2.3	21
41	A method for assessing available phosphorus content in arable topsoils over large spatial scales. <i>Agronomy for Sustainable Development</i> , 2009, 29, 371-379.	2.2	17
42	Spatial distribution of lindane in topsoil of Northern France. <i>Chemosphere</i> , 2009, 77, 1249-1255.	4.2	17
43	Prediction of soil texture using descriptive statistics and area-to-point kriging in Region Centre (France). <i>Geoderma Regional</i> , 2016, 7, 279-292.	0.9	17
44	Probability mapping of iron pan presence in sandy podzols in South-West France, using digital soil mapping. <i>Geoderma Regional</i> , 2017, 9, 39-46.	0.9	15
45	Regional Regolith Parameter Prediction Using the Proxy of Airborne Gamma Ray Spectrometry. <i>Vadose Zone Journal</i> , 2013, 12, 1-14.	1.3	14
46	Impact of city historical management on soil organic carbon stocks in Paris (France). <i>Journal of Soils and Sediments</i> , 2021, 21, 1038-1052.	1.5	13
47	Are there any effects of the agricultural use of chemical fertiliser on elements detected by airborne gamma-spectrometric surveys?. <i>Geoderma</i> , 2012, 173-174, 34-41.	2.3	12
48	Developing pedotransfer functions to harmonize extractable soil phosphorus content measured with different methods: A case study across the mainland of France. <i>Geoderma</i> , 2021, 381, 114645.	2.3	11
49	Spatial variability of soil microbial functioning in a tropical rainforest of French Guiana using nested sampling. <i>Geoderma</i> , 2013, 197-198, 98-107.	2.3	10
50	Impacts of national scale digital soil mapping programs in France. <i>Geoderma Regional</i> , 2020, 23, e00337.	0.9	10
51	Spatial variations, origins, and risk assessments of polycyclic aromatic hydrocarbons in French soils. <i>Soil</i> , 2021, 7, 161-178.	2.2	10
52	Simulation of the Use of a Soil-Monitoring Network to Verify Carbon Sequestration in Soils: Will Changes in Organic Carbon Stocks be Detectable?. <i>Communications in Soil Science and Plant Analysis</i> , 2005, 35, 2379-2396.	0.6	7
53	Large-scale simultaneous hypothesis testing in monitoring carbon content from French soil database – A semi-parametric mixture approach. <i>Geoderma</i> , 2014, 219-220, 117-124.	2.3	7
54	Consequences of aggregation for the trace element distribution in the subsoil of a Planosol naturally rich in trace metal. <i>Geoderma</i> , 2006, 136, 160-173.	2.3	5

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55	Analyzing the Spatial Distribution of PCB Concentrations in Soils Using Below-Quantification Limit Data. <i>Journal of Environmental Quality</i> , 2012, 41, 1893-1905.	1.0	4
56	Characterization of Environmental Health Inequalities Due to Polycyclic Aromatic Hydrocarbon Exposure in France. <i>International Journal of Environmental Research and Public Health</i> , 2018, 15, 2680.	1.2	4