

# Gilles Colinet

## List of Publications by Citations

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75 papers	1,492 citations	24 h-index	35 g-index
87 ext. papers	1,770 ext. citations	3.6 avg, IF	4.53 L-index

#	Paper	IF	Citations
75	Copper and cobalt accumulation in plants: a critical assessment of the current state of knowledge. <i>New Phytologist</i> , <b>2017</b> , 213, 537-551	9.8	135
74	Temporal Dynamics of Soil Microbial Communities below the Seedbed under Two Contrasting Tillage Regimes. <i>Frontiers in Microbiology</i> , <b>2017</b> , 8, 1127	5.7	72
73	Assessment of soil metal distribution and environmental impact of mining in Katanga (Democratic Republic of Congo). <i>Applied Geochemistry</i> , <b>2016</b> , 64, 43-55	3.5	71
72	Can DEM time series produced by UAV be used to quantify diffuse erosion in an agricultural watershed?. <i>Geomorphology</i> , <b>2017</b> , 280, 122-136	4.3	58
71	Near Infrared Reflectance Spectroscopy for Estimating Soil Characteristics Valuable in the Diagnosis of Soil Fertility. <i>Journal of Near Infrared Spectroscopy</i> , <b>2011</b> , 19, 117-138	1.5	57
70	Copper endemism in the Congolese flora: a database of copper affinity and conservational value of cuprophytes. <i>Plant Ecology and Evolution</i> , <b>2010</b> , 143, 5-18	1.6	46
69	Copper tolerance in the cuprophyte <i>Haumaniastrum katangense</i> (S. Moore) P.A. Duvign. & Plancke. <i>Plant and Soil</i> , <b>2010</b> , 328, 235-244	4.2	45
68	Soil influence on Cu and Co uptake and plant size in the cuprophytes <i>Crepidorrhodon perennis</i> and <i>C. tenuis</i> (Scrophulariaceae) in SC Africa. <i>Plant and Soil</i> , <b>2009</b> , 317, 201-212	4.2	43
67	Phytostabilisation of copper-contaminated soil in Katanga: an experiment with three native grasses and two amendments. <i>International Journal of Phytoremediation</i> , <b>2010</b> , 12, 616-32	3.9	41
66	Earthworms <i>Eisenia fetida</i> affect the uptake of heavy metals by plants <i>Vicia faba</i> and <i>Zea mays</i> in metal-contaminated soils. <i>Applied Soil Ecology</i> , <b>2016</b> , 104, 67-78	5	40
65	Rapid restoration of a species-rich ecosystem assessed from soil and vegetation indicators: The case of calcareous grasslands restored from forest stands. <i>Ecological Indicators</i> , <b>2011</b> , 11, 724-733	5.8	40
64	Plant functional traits as a promising tool for the ecological restoration of degraded tropical metal-rich habitats and revegetation of metal-rich bare soils: A case study in copper vegetation of Katanga, DRC. <i>Ecological Engineering</i> , <b>2015</b> , 82, 214-221	3.9	38
63	No favorable effect of reduced tillage on microbial community diversity in a silty loam soil (Belgium). <i>Agriculture, Ecosystems and Environment</i> , <b>2016</b> , 224, 12-21	5.7	38
62	Copper and cobalt mobility in soil and accumulation in a metallophyte as influenced by experimental manipulation of soil chemical factors. <i>Chemosphere</i> , <b>2016</b> , 146, 75-84	8.4	36
61	Prediction of the edaphic factors influence upon the copper and cobalt accumulation in two metallophytes using copper and cobalt speciation in soils. <i>Plant and Soil</i> , <b>2014</b> , 379, 275-287	4.2	36
60	Copper tolerance and accumulation in two cuprophytes of South Central Africa: <i>Crepidorrhodon perennis</i> and <i>C. tenuis</i> (Linderniaceae). <i>Environmental and Experimental Botany</i> , <b>2012</b> , 84, 11-16	5.9	32
59	Impact of crop residue management on crop production and soil chemistry after seven years of crop rotation in temperate climate, loamy soils. <i>PeerJ</i> , <b>2018</b> , 6, e4836	3.1	30

58	Investigating the Vegetation-Soil Relationships on the Copper-Cobalt Rock Outcrops of Katanga (D. R. Congo), an Essential Step in a Biodiversity Conservation Plan. <i>Restoration Ecology</i> , <b>2012</b> , 20, 405-415	3.1	29
57	Chemical soil factors influencing plant assemblages along copper-cobalt gradients: implications for conservation and restoration. <i>Plant and Soil</i> , <b>2013</b> , 373, 455-469	4.2	27
56	May Rare Metallophytes Benefit from Disturbed Soils Following Mining Activity? The Case of the <i>Crepidiorhodon tenuis</i> in Katanga (D. R. Congo). <i>Restoration Ecology</i> , <b>2011</b> , 19, 333-343	3.1	27
55	Soil contamination near a former Zn/Pb ore-treatment plant: Evaluation of deterministic factors and spatial structures at the landscape scale. <i>Journal of Geochemical Exploration</i> , <b>2014</b> , 147, 107-116	3.8	26
54	Three years of phytostabilisation experiment of bare acidic soil extremely contaminated by copper smelting using plant biodiversity of metal-rich soils in tropical Africa (Katanga, DR Congo). <i>Ecological Engineering</i> , <b>2015</b> , 82, 81-90	3.9	25
53	Potential of copper-tolerant grasses to implement phytostabilisation strategies on polluted soils in South D. R. Congo : Poaceae candidates for phytostabilisation. <i>Environmental Science and Pollution Research</i> , <b>2016</b> , 23, 13693-705	5.1	25
52	Ullmann reaction through ecocatalysis: insights from bioresource and synthetic potential. <i>RSC Advances</i> , <b>2016</b> , 6, 59550-59564	3.7	24
51	Modeling of cobalt and copper speciation in metalliferous soils from Katanga (Democratic Republic of Congo). <i>Journal of Geochemical Exploration</i> , <b>2015</b> , 149, 87-96	3.8	24
50	Determination of zinc, cadmium and lead bioavailability in contaminated soils at the single-cell level by a combination of whole-cell biosensors and flow cytometry. <i>Sensors</i> , <b>2015</b> , 15, 8981-99	3.8	23
49	Diversity of bacterial communities in a profile of a winter wheat field: known and unknown members. <i>Microbial Ecology</i> , <b>2014</b> , 68, 822-33	4.4	23
48	Tolerance and accumulation of cobalt in three species of <i>Haumaniastrum</i> and the influence of copper. <i>Environmental and Experimental Botany</i> , <b>2018</b> , 149, 27-33	5.9	22
47	Implication of plant-soil relationships for conservation and restoration of copper-cobalt ecosystems. <i>Plant and Soil</i> , <b>2016</b> , 403, 153-165	4.2	22
46	Could saponins be used to enhance bioremediation of polycyclic aromatic hydrocarbons in aged-contaminated soils?. <i>Chemosphere</i> , <b>2018</b> , 194, 414-421	8.4	18
45	Comparison of translocation methods to conserve metallophyte communities in the Southeastern D.R. Congo. <i>Environmental Science and Pollution Research</i> , <b>2016</b> , 23, 13681-92	5.1	17
44	A novel sub-phylum method discriminates better the impact of crop management on soil microbial community. <i>Agronomy for Sustainable Development</i> , <b>2015</b> , 35, 1157-1166	6.8	15
43	Effect of Cadmium, Copper and Lead on the Growth of Rice in the Coal Mining Region of Quang Ninh, Cam-Pha (Vietnam). <i>Sustainability</i> , <b>2018</b> , 10, 1758	3.6	15
42	Small-scale diversity of plant communities and distribution of species niches on a copper rock outcrop in Upper Katanga, D.R.Congo. <i>Plant Ecology and Evolution</i> , <b>2013</b> , 146, 173-182	1.6	14
41	Influence of edaphic conditions and nitrogen fertilizers on cadmium and zinc phytoextraction efficiency of <i>Nocca caerulea</i> . <i>Science of the Total Environment</i> , <b>2019</b> , 665, 649-659	10.2	13

40	Degree of phosphorus saturation in agricultural loamy soils with a near-neutral pH. <i>European Journal of Soil Science</i> , <b>2015</b> , 66, 33-41	3.4	13
39	Ecology and Hybridization Potential of Two Sympatric Metallophytes, the Narrow Endemic <i>Crepidiorhopalon perennis</i> (Linderniaceae) and its More Widespread Congener <i>C. tenuis</i> . <i>Biotropica</i> , <b>2012</b> , 44, 454-462	2.3	13
38	Crop residue management in arable cropping systems under a temperate climate. Part 2: Soil physical properties and crop production. A review. <i>Biotechnology, Agronomy and Society and Environment</i> , <b>2016</b> , 245-256	1.3	13
37	Speciation of Heavy Metals by Modified BCR Sequential Extraction in Soils Contaminated by Phosphogypsum in Sfax, Tunisia. <i>Environmental Research, Engineering and Management</i> , <b>2015</b> , 70,	2.8	12
36	Assessment of vertical contamination of Cd, Pb and Zn in soils around a former ore smelter in Wallonia, Belgium. <i>Environmental Earth Sciences</i> , <b>2016</b> , 75, 1	2.9	12
35	Species diversity of <i>Arabis alpina</i> L. communities in two Pb/Zn mining areas with different smelting history in Yunnan Province, China. <i>Chemosphere</i> , <b>2019</b> , 233, 603-614	8.4	11
34	Description of a new procedure to estimate the carbon stocks of all forest pools and impact assessment of methodological choices on the estimates. <i>European Journal of Forest Research</i> , <b>2013</b> , 132, 565-577	2.7	11
33	Trace Metals in Surface Soil Contaminated by Release of Phosphate Industry in the Surroundings of Sfax-Tunisia. <i>Environmental Research, Engineering and Management</i> , <b>2013</b> , 65,	2.8	10
32	Looking for a dialogue between farmers and scientific soil knowledge: Learnings from an ethno-geomorphopedological study in a Philippine upland village. <i>Agroecology and Sustainable Food Systems</i> , <b>2018</b> , 42, 2-27	2	9
31	Relationships between the P status of surface and deep horizons of agricultural soils under various cropping systems and for different soil types: a case study in Belgium. <i>Soil Use and Management</i> , <b>2013</b> , 29, 103-113	3.1	9
30	Effects of Permaculture Practices on Soil Physicochemical Properties and Organic Matter Distribution in Aggregates: A Case Study of the Bec-Hellouin Farm (France). <i>Frontiers in Environmental Science</i> , <b>2018</b> , 6,	4.8	9
29	Functional traits of a facultative metallophyte from tropical Africa: population variation and plasticity in response to cobalt. <i>Environmental and Experimental Botany</i> , <b>2017</b> , 136, 1-8	5.9	8
28	Specialized edaphic niches of threatened copper endemic plant species in the D.R. Congo: implications for ex situ conservation. <i>Plant and Soil</i> , <b>2017</b> , 413, 261-273	4.2	8
27	Indicators of phosphorus status in soils: significance and relevance for crop soils in southern Belgium. A review. <i>Biotechnology, Agronomy and Society and Environment</i> , <b>2016</b> , 257-272	1.3	8
26	Geochemical Baseline Values Determination and Evaluation of Heavy Metal Contamination in Soils of Lanping Mining Valley (Yunnan Province, China). <i>International Journal of Environmental Research and Public Health</i> , <b>2019</b> , 16,	4.6	8
25	Mobility of copper and cobalt in metalliferous ecosystems: Results of a lysimeter study in the Lubumbashi Region (Democratic Republic of Congo). <i>Journal of Geochemical Exploration</i> , <b>2019</b> , 196, 208-218	3.8	8
24	Variation in copper and cobalt tolerance and accumulation among six populations of the facultative metallophyte <i>Anisopappus chinensis</i> (Asteraceae). <i>Environmental and Experimental Botany</i> , <b>2018</b> , 153, 1-9	5.9	6
23	Mobility and distribution of lead, cadmium, copper and zinc in soil profiles in the peri-urban market garden of Kunming, Yunnan Province, China. <i>Archives of Agronomy and Soil Science</i> , <b>2014</b> , 60, 133-149	2	6

22	Factors affecting trace element content in periurban market garden subsoil in Yunnan Province, China. <i>Journal of Environmental Sciences</i> , <b>2011</b> , 23, 488-96	6.4	6
21	Crop residue management in arable cropping systems under temperate climate. Part 1: Soil biological and chemical (phosphorus and nitrogen) properties. A review. <i>Biotechnology, Agronomy and Society and Environment</i> , <b>2016</b> , 236-244	1.3	6
20	Long-term fertilization and intensive cropping enhance carbon and nitrogen accumulated in soil clay-sized particles of red soil in South China. <i>Journal of Soils and Sediments</i> , <b>2020</b> , 20, 1824-1833	3.4	6
19	Spatial variability of soil properties in red soil and its implications for site-specific fertilizer management. <i>Journal of Integrative Agriculture</i> , <b>2020</b> , 19, 2313-2325	3.2	6
18	Concentrations and sources of Cd, Cr, Cu, Fe, Ni, Pb and Zn in soil of the Mitidja plain, Algeria. <i>Toxicological and Environmental Chemistry</i> , <b>2019</b> , 101, 59-74	1.4	5
17	Changes of Soil Phosphorus Fractionation According to pH in Red Soils of China: An Incubation Experiment. <i>Communications in Soil Science and Plant Analysis</i> , <b>2018</b> , 49, 791-802	1.5	5
16	Diachronic soil surveys: A method for quantifying long-term diffuse erosion?. <i>Geoderma Regional</i> , <b>2017</b> , 10, 102-114	2.7	5
15	Temporal Evolution of PAHs Bioaccessibility in an Aged-Contaminated Soil during the Growth of Two. <i>International Journal of Environmental Research and Public Health</i> , <b>2020</b> , 17,	4.6	3
14	Effects of termite sheetings on soil properties under two contrasting soil management practices. <i>Pedobiologia</i> , <b>2019</b> , 76, 150573	1.7	3
13	Investigating the Effect of Medicago sativa L. and Trifolium pratense L. Root Exudates on PAHs Bioremediation in an Aged-Contaminated Soil. <i>Water, Air, and Soil Pollution</i> , <b>2019</b> , 230, 1	2.6	3
12	Short-Term Effects of Tillage Practices and Crop Residue Exportation on Soil Organic Matter and Earthworm Communities in Silt Loam Arable Soil <b>2018</b> , 53-71		2
11	Element Case Studies: Cobalt and Copper. <i>Mineral Resource Reviews</i> , <b>2018</b> , 233-239	0.5	2
10	Soil affects on the cadmium and zinc contents of Chinese cabbage in Yunnan Province, China. <i>Archives of Agronomy and Soil Science</i> , <b>2010</b> , 56, 107-117	2	2
9	Availability of Trace Elements for Chinese Cabbage Amended with Lime in a Periurban Market Garden in Yunnan Province, China. <i>Communications in Soil Science and Plant Analysis</i> , <b>2011</b> , 42, 1706-1718	1.5	2
8	Ecological niche distribution along soil toxicity gradients: Bridging theoretical expectations and metallophyte conservation. <i>Ecological Modelling</i> , <b>2020</b> , 415, 108861	3	2
7	Targeting the right parameters in PAH remediation studies. <i>Environmental Pollution</i> , <b>2021</b> , 278, 116857	9.3	2
6	Co-composted biochar to decrease fertilization rates in cotton/maize rotation in Burkina Faso. <i>Agronomy Journal</i> ,	2.2	2
5	Transfert en cadmium et zinc vers l'orge de printemps en sols contaminés et non contaminés de Belgique : Évaluation et prédiction. <i>Cahiers Agricultures</i> , <b>2018</b> , 27, 25002	0.9	1

4	Functional traits of a broad-niched metallophyte along a toxicity gradient: disentangling intra and inter-population variation. <i>Environmental and Experimental Botany</i> , <b>2018</b> , 156, 240-247	5.9	1
3	Agro-Environmental Sustainability of the Yuanyang Rice Terraces in Yunnan Province, China <b>2017</b> , 117-126		o
2	Services and Dysservices of Collective Gardens in Urban Areas: A Soil Perspective. <i>Advances in Science, Technology and Innovation</i> , <b>2018</b> , 25-26	0.3	
1	Element Case Studies: Cobalt. <i>Mineral Resource Reviews</i> , <b>2021</b> , 385-391	0.5	