

# Michel-Pierre Faucon

## List of Publications by Year in descending order

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Version: 2024-02-01

60  
papers

2,168  
citations

201674

27  
h-index

233421

45  
g-index

66  
all docs

66  
docs citations

66  
times ranked

2521  
citing authors

#	ARTICLE	IF	CITATIONS
1	Plant Functional Traits: Soil and Ecosystem Services. Trends in Plant Science, 2017, 22, 385-394.	8.8	311
2	Copper and cobalt accumulation in plants: a critical assessment of the current state of knowledge. New Phytologist, 2017, 213, 537-551.	7.3	190
3	Revisiting copper and cobalt concentrations in supposed hyperaccumulators from SC Africa: influence of washing and metal concentrations in soil. Plant and Soil, 2007, 301, 29-36.	3.7	127
4	Assessment of soil metal distribution and environmental impact of mining in Katanga (Democratic Republic of Congo). Environmental Monitoring and Assessment, 2010, 134, 101-110.	3.0	98
5	Genetic architecture of zinc hyperaccumulation in <i>Arabidopsis halleri</i> : the essential role of QTL-environment interactions. New Phytologist, 2010, 187, 355-367.	7.3	81
6	Advances and Perspectives to Improve the Phosphorus Availability in Cropping Systems for Agroecological Phosphorus Management. Advances in Agronomy, 2015, 134, 51-79.	5.2	76
7	Potential use of mealworm frass as a fertilizer: Impact on crop growth and soil properties. Scientific Reports, 2020, 10, 4659.	3.3	73
8	Plants sustain the terrestrial silicon cycle during ecosystem retrogression. Science, 2020, 369, 1245-1248.	12.6	57
9	Plant functional trait effects on runoff to design herbaceous hedges for soil erosion control. Ecological Engineering, 2018, 118, 143-151.	3.6	51
10	Copper tolerance in the cuprophyte <i>Haumaniastrum katangense</i> (S. Moore) P.A. Duvign. & Plancke. Plant and Soil, 2010, 328, 235-244.	3.7	50
11	Copper endemism in the Congolese flora: a database of copper affinity and conservational value of cuprophytes. Plant Ecology and Evolution, 2010, 143, 5-18.	0.7	49
12	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. Ecological Engineering, 2015, 82, 214-221.	3.6	46
13	Phytostabilisation of Copper-Contaminated Soil in Katanga: An Experiment with Three Native Grasses and Two Amendments. International Journal of Phytoremediation, 2010, 12, 616-632.	3.1	45
14	Prediction of the edaphic factors influence upon the copper and cobalt accumulation in two metallophytes using copper and cobalt speciation in soils. Plant and Soil, 2014, 379, 275-287.	3.7	44
15	Soil influence on Cu and Co uptake and plant size in the cuprophytes <i>Crepidorhapon perennis</i> and <i>C. tenuis</i> (Scrophulariaceae) in SC Africa. Plant and Soil, 2009, 317, 201-212.	3.7	43
16	Copper and cobalt mobility in soil and accumulation in a metallophyte as influenced by experimental manipulation of soil chemical factors. Chemosphere, 2016, 146, 75-84.	8.2	43
17	May Rare Metallophytes Benefit from Disturbed Soils Following Mining Activity? The Case of the <i>Crepidorhapon tenuis</i> in Katanga (D. R. Congo). Restoration Ecology, 2011, 19, 333-343.	2.9	35
18	Effect of rare earth elements on rice plant growth. Chemical Geology, 2018, 489, 28-37.	3.3	35

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19	Phosphorus-acquisition strategies of canola, wheat and barley in soil amended with sewage sludges. <i>Scientific Reports</i> , 2019, 9, 14878.	3.3	35
20	Copper tolerance and accumulation in two cuprophytes of South Central Africa: <i>Crepidiorhodon perennis</i> and <i>C. tenuis</i> (Linderniaceae). <i>Environmental and Experimental Botany</i> , 2012, 84, 11-16.	4.2	34
21	Investigating the Vegetation-Soil Relationships on the Copper-Cobalt Rock Outcrops of Katanga (D. R.). <i>Trends in Plant Science</i> , 2019, 14, 1-10.	2.9	34
22	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> , 2015, 82, 81-90.	3.6	34
23	Response of phosphorus dynamics to sewage sludge application in an agroecosystem in northern France. <i>Applied Soil Ecology</i> , 2019, 137, 178-186.	4.3	34
24	Tradeoffs among phosphorus-acquisition root traits of crop species for agroecological intensification. <i>Plant and Soil</i> , 2021, 461, 137-150.	3.7	32
25	Ullmann reaction through ecocatalysis: insights from bioresource and synthetic potential. <i>RSC Advances</i> , 2016, 6, 59550-59564.	3.6	31
26	Potential of copper-tolerant grasses to implement phytostabilisation strategies on polluted soils in South D. R. Congo. <i>Environmental Science and Pollution Research</i> , 2016, 23, 13693-13705.	5.3	31
27	Chemical soil factors influencing plant assemblages along copper-cobalt gradients: implications for conservation and restoration. <i>Plant and Soil</i> , 2013, 373, 455-469.	3.7	30
28	Modeling of cobalt and copper speciation in metalliferous soils from Katanga (Democratic Republic of Congo). <i>Environmental Science and Pollution Research</i> , 2016, 23, 13681-13692.	3.2	28
29	A shift from phenol to silica-based leaf defences during long-term soil and ecosystem development. <i>Ecology Letters</i> , 2021, 24, 984-995.	6.4	27
30	Implication of plant-soil relationships for conservation and restoration of copper-cobalt ecosystems. <i>Plant and Soil</i> , 2016, 403, 153-165.	3.7	26
31	Tolerance and accumulation of cobalt in three species of <i>Haumaniastrum</i> and the influence of copper. <i>Environmental and Experimental Botany</i> , 2018, 149, 27-33.	4.2	24
32	Comparison of translocation methods to conserve metallophyte communities in the Southeastern D.R. Congo. <i>Environmental Science and Pollution Research</i> , 2016, 23, 13681-13692.	5.3	22
33	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> , 2018, 10, 1758.	3.2	22
34	Response of Organic Matter Decomposition to No-Tillage Adoption Evaluated by the Tea Bag Technique. <i>Soil Systems</i> , 2018, 2, 42.	2.6	19
35	Effects of plant traits and their divergence on runoff and sediment retention in herbaceous vegetation. <i>Plant and Soil</i> , 2019, 441, 511-524.	3.7	19
36	Trait-based sediment retention and runoff control by herbaceous vegetation in agricultural catchments: A review. <i>Land Degradation and Development</i> , 2021, 32, 1077-1089.	3.9	19

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37	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> , 2013, 146, 173-182.	0.7	18
38	Unravelling the Role of Rhizosphere Microbiome and Root Traits in Organic Phosphorus Mobilization for Sustainable Phosphorus Fertilization. A Review. <i>Agronomy</i> , 2021, 11, 2267.	3.0	17
39	Ecology and Hybridization Potential of Two Sympatric Metallophytes, the Narrow Endemic <i>Crepidodiplosis perennis</i> (Linderniaceae) and its More Widespread Congener <i>C. tenuis</i> . <i>Biotropica</i> , 2012, 44, 454-462.	1.6	15
40	Interactions between below-ground traits and rhizosphere fungal and bacterial communities for phosphorus acquisition. <i>Functional Ecology</i> , 2021, 35, 1603-1619.	3.6	15
41	Earthworms ( <i>Lumbricus terrestris</i> L.) Mediate the Fertilizing Effect of Frass. <i>Agronomy</i> , 2020, 10, 783.	3.0	14
42	Fertilizer Potential of Struvite as Affected by Nitrogen Form in the Rhizosphere. <i>Sustainability</i> , 2020, 12, 2212.	3.2	13
43	Relationships between Root Traits and Soil Physical Properties after Field Traffic from the Perspective of Soil Compaction Mitigation. <i>Agronomy</i> , 2020, 10, 1697.	3.0	11
44	Specialized edaphic niches of threatened copper endemic plant species in the D.R. Congo: implications for ex situ conservation. <i>Plant and Soil</i> , 2017, 413, 261-273.	3.7	10
45	Contrasting Response of Nutrient Acquisition Traits in Wheat Grown on Bisphenol A-Contaminated Soils. <i>Water, Air, and Soil Pollution</i> , 2020, 231, 1.	2.4	10
46	Functional traits of a facultative metallophyte from tropical Africa: population variation and plasticity in response to cobalt. <i>Environmental and Experimental Botany</i> , 2017, 136, 1-8.	4.2	9
47	Plant Functional Traits on Tropical Ultramafic Habitats Affected by Fire and Mining: Insights for Reclamation. <i>Diversity</i> , 2020, 12, 248.	1.7	9
48	Earthworm communities and microbial metabolic activity and diversity under conventional, feed and biogas cropping systems as affected by tillage practices. <i>Applied Soil Ecology</i> , 2022, 169, 104232.	4.3	9
49	New insights into sorption and desorption of organic phosphorus on goethite, gibbsite, kaolinite and montmorillonite. <i>Applied Geochemistry</i> , 2022, 143, 105378.	3.0	9
50	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> , 2018, 153, 1-9.	4.2	8
51	Element Case Studies: Cobalt and Copper. <i>Mineral Resource Reviews</i> , 2018, , 233-239.	1.5	6
52	Plant-Soil Interactions as Drivers of the Structure and Functions of Plant Communities. <i>Diversity</i> , 2020, 12, 452.	1.7	6
53	Impact of ecosystem water balance and soil parent material on silicon dynamics: insights from three long-term chronosequences. <i>Biogeochemistry</i> , 2021, 156, 335-350.	3.5	4
54	Root traits of crop species contributing to soil shear strength. <i>Geoderma</i> , 2022, 409, 115642.	5.1	4

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55	Ecological niche distribution along soil toxicity gradients: Bridging theoretical expectations and metallophyte conservation. <i>Ecological Modelling</i> , 2020, 415, 108861.	2.5	3
56	Functional Diversity Effects of Vegetation on Runoff to Design Herbaceous Hedges for Sediment Retention. <i>Diversity</i> , 2020, 12, 131.	1.7	3
57	Functional traits of a broad-niched metallophyte along a toxicity gradient: disentangling intra and inter-population variation. <i>Environmental and Experimental Botany</i> , 2018, 156, 240-247.	4.2	2
58	Recovery of ultramafic soil functions and plant communities along an age-gradient of the actinorhizal tree <i>Ceuthostoma terminale</i> (Casuarinaceae) in Sabah (Malaysia). <i>Plant and Soil</i> , 2019, 440, 201-218.	3.7	2
59	Low Caryopsis Production of the Toothbrush Grass ( <i>Microchloa altera</i> ) from Katanga (DR Congo) Could Limit the Revegetation of Trace Metal Contaminated Lands by Seeding. <i>Ecological Restoration</i> , 2013, 31, 240-244.	0.5	0
60	Element Case Studies: Cobalt. <i>Mineral Resource Reviews</i> , 2021, , 385-391.	1.5	0