Laurent Augusto

List of Publications by Citations

66 papers	2,841 citations	27 h-index	53 g-index
70 ext. papers	3,535 ext. citations	5.1 avg, IF	5.06 L-index

#	Paper	IF	Citations
66	Impact of several common tree species of European temperate forests on soil fertility. *Annals of Forest Science*, **2002**, 59, 233-253	3.1	558
65	Effects of tree species on understory vegetation and environmental conditions in temperate forests. *Annals of Forest Science*, **2003**, 60, 823-831	3.1	192
64	Influences of evergreen gymnosperm and deciduous angiosperm tree species on the functioning of temperate and boreal forests. *Biological Reviews*, **2015**, 90, 444-66	13.5	186
63	Soil parent material-A major driver of plant nutrient limitations in terrestrial ecosystems. *Global Change Biology*, **2017**, 23, 3808-3824	11.4	144
62	Tamm Review: Influence of forest management activities on soil organic carbon stocks: A knowledge synthesis. *Forest Ecology and Management*, **2020**, 466, 118127	3.9	140
61	The effect of forest type on throughfall deposition and seepage flux: a review. *Oecologia*, **2007**, 153, 663-74	2.9	137
60	Forest soil carbon is threatened by intensive biomass harvesting. *Scientific Reports*, **2015**, 5, 15991	4.9	109
59	Assessing turnover of microbial biomass phosphorus: Combination of an isotopic dilution method with a mass balance model. *Soil Biology and Biochemistry*, **2010**, 42, 2231-2240	7.5	93
58	Convergence of soil nitrogen isotopes across global climate gradients. *Scientific Reports*, **2015**, 5, 8280	4.9	90
57	Impact of forest tree species on feldspar weathering rates. *Geoderma*, **2000**, 96, 215-237	6.7	84
56	Evaluation of the phosphorus status of P-deficient podzols in temperate pine stands: combining isotopic dilution and extraction methods. *Biogeochemistry*, **2009**, 92, 183-200	3.8	66
55	Impact of tree species on forest soil acidification. *Forest Ecology and Management*, **1998**, 105, 67-78	3.9	62
54	Global assessment of limitation to symbiotic nitrogen fixation by phosphorus availability in terrestrial ecosystems using a meta-analysis approach. *Global Biogeochemical Cycles*, **2013**, 27, 804-815	5.9	58
53	Relationships between forest tree species, stand production and stand nutrient amount. *Annals of Forest Science*, **2000**, 57, 313-324	3.1	56
52	Potential contribution of the seed bank in coniferous plantations to the restoration of native deciduous forest vegetation. *Acta Oecologica*, **2001**, 22, 87-98	1.7	56
51	Soil properties controlling inorganic phosphorus availability: general results from a national forest network and a global compilation of the literature. *Biogeochemistry*, **2016**, 127, 255-272	3.8	55
50	Four decades of post-agricultural forest development have caused major redistributions of soil phosphorus fractions. *Oecologia*, **2012**, 169, 221-34	2.9	54

49	Microbial processes controlling P availability in forest spodosols as affected by soil depth and soil properties. *Soil Biology and Biochemistry*, **2012**, 44, 39-48	7.5	52
48	Future challenges in coupled C–N–P cycle models for terrestrial ecosystems under global change: a review. *Biogeochemistry*, **2016**, 131, 173-202	3.8	47
47	Contribution of understory species to total ecosystem aboveground and belowground biomass in temperate Pinus pinaster Ait. forests. *Forest Ecology and Management*, **2013**, 289, 38-47	3.9	45
46	Phosphorus in agricultural soils: drivers of its distribution at the global scale. *Global Change Biology*, **2017**, 23, 3418-3432	11.4	39
45	Forest floor contribution to phosphorus nutrition: experimental data. *Annals of Forest Science*, **2009**, 66, 510-510	3.1	37
44	Floristic and ecological differences between recent and ancient forests growing on non-acidic soils. *Forest Ecology and Management*, **2009**, 258, 600-608	3.9	34
43	Improving models of forest nutrient export with equations that predict the nutrient concentration of tree compartments. *Annals of Forest Science*, **2008**, 65, 808-808	3.1	34
42	Nutrient remobilization in tree foliage as affected by soil nutrients and leaf life span. *Ecological Monographs*, **2018**, 88, 408-428	9	33
41	Drying-induced changes in phosphorus status of soils with contrasting soil organic matter contents – Implications for laboratory approaches. *Geoderma*, **2012**, 187-188, 41-48	6.7	31
40	Biomass and nutrients in tree root systems–sustainable harvesting of an intensively managed Pinus pinaster (Ait.) planted forest. *GCB Bioenergy*, **2015**, 7, 231-243	5.6	27
39	Impact of tree species on soil solutions in acidic conditions. *Annals of Forest Science*, **2001**, 58, 47-58	3.1	26
38	Quantifying the Limitation to World Cereal Production Due To Soil Phosphorus Status. *Global Biogeochemical Cycles*, **2018**, 32, 143-157	5.9	23
37	Predicting available phosphate ions from physical–chemical soil properties in acidic sandy soils under pine forests. *Journal of Soils and Sediments*, **2011**, 11, 452-466	3.4	21
36	Quantifying gross mineralisation of P in dead soil organic matter: Testing an isotopic dilution method. *Geoderma*, **2010**, 158, 163-172	6.7	21
35	Contributions of microbial and physical–chemical processes to phosphorus availability in Podzols and Arenosols under a temperate forest. *Geoderma*, **2013**, 211-212, 18-27	6.7	18
34	Two-year dynamics of foliage labelling in 8-year-old Pinus pinaster trees with 15N, 26Mg and 42Ca–simulation of Ca transport in xylem using an upscaling approach. *Annals of Forest Science*, **2011**, 68, 169-178	3.1	18
33	Plasticity of reproductive allocation of a woody species (Ulex europaeus) in response to variation in resource availability. *Annals of Forest Science*, **2013**, 70, 219-228	3.1	16
32	Relative Importance of Climate, Soil and Plant Functional Traits During the Early Decomposition Stage of Standardized Litter. *Ecosystems*, **2020**, 23, 1004-1018	3.9	15

31	Modeling forest floor contribution to phosphorus supply to maritime pine seedlings in two-layered forest soils. *Ecological Modelling*, **2010**, 221, 927-935	3	12
30	Field effect of P fertilization on N2 fixation rate of Ulex europaeus. *Annals of Forest Science*, **2007**, 64, 875-881	3.1	11
29	Hydro-ecological controls on dissolved carbon dynamics in groundwater and export to streams in a temperate pine forest. *Biogeosciences*, **2018**, 15, 669-691	4.6	11
28	Intercropping N-fixing shrubs in pine plantation forestry as an ecologically sustainable management option. *Forest Ecology and Management*, **2019**, 437, 175-187	3.9	10
27	Effect of a tree mixture and water availability on soil nutrients and extracellular enzyme activities along the soil profile in an experimental forest. *Soil Biology and Biochemistry*, **2020**, 148, 107864	7.5	10
26	What is the P value of Siberian soils? Soil phosphorus status in south-western Siberia and comparison with a global data set. *Biogeosciences*, **2016**, 13, 2493-2509	4.6	10
25	Complex biotic interactions mediated by shrubs: Revisiting the stress-gradient hypothesis and consequences for tree seedling survival. *Journal of Applied Ecology*, **2020**, 57, 1341-1350	5.8	9
24	The potential of Eucalyptus plantations to restore degraded soils in semi-arid Morocco (NW Africa). *Annals of Forest Science*, **2017**, 74, 1	3.1	9
23	Importance of the vegetation-groundwater-stream continuum to understand transformation of biogenic carbon in aquatic systems - A case study based on a pine-maize comparison in a lowland sandy watershed (Landes de Gascogne, SW France). *Science of the Total Environment*, **2019**, 661, 613-629	10.2	8
22	Comparison of ingrowth cores and ingrowth meshes in root studies: 3 years of data on Pinus pinaster and its understory. *Trees - Structure and Function*, **2016**, 30, 555-570	2.6	8
21	Weak Evidence of Regeneration Habitat but Strong Evidence of Regeneration Niche for a Leguminous Shrub. *PLoS ONE*, **2015**, 10, e0130886	3.7	8
20	Effects of Management Practices and Topography on Ectomycorrhizal Fungi of Maritime Pine during Seedling Recruitment. *Forests*, **2018**, 9, 245	2.8	7
19	Competition along productivity gradients: news from heathlands. *Oecologia*, **2018**, 187, 219-231	2.9	5
18	Gorse seed bank variability in maritime pine stands. *Seed Science Research*, **2010**, 20, 31-38	1.3	5
17	Tree species richness and water availability interact to affect soil microbial processes. *Soil Biology and Biochemistry*, **2021**, 155, 108180	7.5	5
16	Home-field advantage of litter decomposition: from the phyllosphere to the soil. *New Phytologist*, **2021**, 231, 1353-1358	9.8	5
15	Diagnosis of forest soil sensitivity to harvesting residues removal A transfer study of soil science knowledge to forestry practitioners. *Ecological Indicators*, **2019**, 104, 512-523	5.8	4
14	Search for top-down and bottom-up drivers of latitudinal trends in insect herbivory in oak trees in Europe. *Global Ecology and Biogeography*, **2021**, 30, 651-665	6.1	4

List of Publications

13	Assessing the plant minimal exchangeable potassium of a soil. *Journal of Plant Nutrition and Soil Science*, **2016**, 179, 584-590	2.3	4
12	Modelling the nutrient cost of biomass harvesting under different silvicultural and climate scenarios in production forests. *Forest Ecology and Management*, **2018**, 429, 642-653	3.9	3
11	Global patterns and drivers of soil total phosphorus concentration. *Earth System Science Data*, **2021** , 13, 5831-5846	10.5	3
10	When plants eat rocks: Functional adaptation of roots on rock outcrops. *Functional Ecology*, **2019**, 33, 760-761	5.6	2
9	Les sols du massif forestier des Landes de Gascogne : formation, histoire, propri et variabilit spatiale. *Revue Forestiere Francaise*, **2007**,	1	2
8	Effect of tree mixtures and water availability on belowground complementarity of fine roots of birch and pine planted on sandy podzol. *Plant and Soil*, **2020**, 457, 437-455	4.2	2
7	Combining partial cutting and direct seeding to overcome regeneration failures in dune forests. *Forest Ecology and Management*, **2020**, 476, 118466	3.9	2
6	Global patterns and drivers of soil total phosphorus concentration		2
5	Effects of mixing tree species and water availability on soil organic carbon stocks are depth dependent in a temperate podzol. *European Journal of Soil Science*,	3.4	1
4	Using a dune forest as a filtering ecosystem for water produced by a treatment plant - One decade of environmental assessment. *Science of the Total Environment*, **2018**, 640-641, 849-861	10.2	0
3	Understorey-overstorey biotic and nutrient interactions are key factors for Pinus pinaster growth and development under oligotrophic conditions. *Scandinavian Journal of Forest Research*,1-12	1.7	0
2	Insights on Nitrogen and Phosphorus Co-Limitation in Global Croplands From Theoretical and Modeling Fertilization Experiments. *Global Biogeochemical Cycles*, **2021**, 35, e2020GB006915	5.9	0
1	Tree functional traits, forest biomass, and tree species diversity interact with site properties to drive forest soil carbon.. *Nature Communications*, **2022**, 13, 1097	17.4	0