

Marina Semchenko

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

3,195
citations

304368

22
h-index

395343

33
g-index

36
all docs

36
docs citations

36
times ranked

5167
citing authors

#	ARTICLE	IF	CITATIONS
1	TRY plant trait database – enhanced coverage and open access. <i>Global Change Biology</i> , 2020, 26, 119-188.	4.2	1,038
2	The fungal collaboration gradient dominates the root economics space in plants. <i>Science Advances</i> , 2020, 6, .	4.7	377
3	Plant root exudates mediate neighbour recognition and trigger complex behavioural changes. <i>New Phytologist</i> , 2014, 204, 631-637.	3.5	217
4	Fungal diversity regulates plant-soil feedbacks in temperate grassland. <i>Science Advances</i> , 2018, 4, eaau4578.	4.7	161
5	An integrated framework of plant form and function: the belowground perspective. <i>New Phytologist</i> , 2021, 232, 42-59.	3.5	153
6	Temperature and pH define the realised niche space of arbuscular mycorrhizal fungi. <i>New Phytologist</i> , 2021, 231, 763-776.	3.5	126
7	Effects of physical connection and genetic identity of neighbouring ramets on root placement patterns in two clonal species. <i>New Phytologist</i> , 2007, 176, 644-654.	3.5	117
8	Challenging the tragedy of the commons in root competition: confounding effects of neighbour presence and substrate volume. <i>Journal of Ecology</i> , 2007, 95, 252-260.	1.9	110
9	Global root traits (GRooT) database. <i>Global Ecology and Biogeography</i> , 2021, 30, 25-37.	2.7	90
10	Positive effect of shade on plant growth: amelioration of stress or active regulation of growth rate?. <i>Journal of Ecology</i> , 2012, 100, 459-466.	1.9	83
11	Plasticity in plant functional traits is shaped by variability in neighbourhood species composition. <i>New Phytologist</i> , 2016, 211, 455-463.	3.5	64
12	Deciphering the role of specialist and generalist plant–microbial interactions as drivers of plant–soil feedback. <i>New Phytologist</i> , 2022, 234, 1929-1944.	3.5	63
13	Kin recognition is density-dependent and uncommon among temperate grassland plants. <i>Functional Ecology</i> , 2012, 26, 1214-1220.	1.7	62
14	Root traits explain plant species distributions along climatic gradients yet challenge the nature of ecological trade-offs. <i>Nature Ecology and Evolution</i> , 2021, 5, 1123-1134.	3.4	62
15	Microbial island biogeography: isolation shapes the life history characteristics but not diversity of root-symbiotic fungal communities. <i>ISME Journal</i> , 2018, 12, 2211-2224.	4.4	55
16	Different sets of belowground traits predict the ability of plant species to suppress and tolerate their competitors. <i>Plant and Soil</i> , 2018, 424, 157-169.	1.8	50
17	Intraspecific genetic diversity modulates plant–soil feedback and nutrient cycling. <i>New Phytologist</i> , 2017, 216, 90-98.	3.5	46
18	Foraging for space and avoidance of physical obstructions by plant roots: a comparative study of grasses from contrasting habitats. <i>New Phytologist</i> , 2008, 179, 1162-1170.	3.5	39

#	ARTICLE	IF	CITATIONS
19	The effect of breeding on allometry and phenotypic plasticity in four varieties of oat (<i>Avena sativa</i> L.). <i>Field Crops Research</i> , 2005, 93, 151-168.	2.3	32
20	Limited phenotypic plasticity in range-edge populations: a comparison of co-occurring populations of two <i>Agrimonia</i> species with different geographical distributions. <i>Plant Biology</i> , 2011, 13, 177-184.	1.8	31
21	The Role of Leaf Lobation in Elongation Responses to Shade in the Rosette-forming Forb <i>Serratula tinctoria</i> (Asteraceae). <i>Annals of Botany</i> , 2007, 100, 83-90.	1.4	26
22	Plants are least suppressed by their frequent neighbours: the relationship between competitive ability and spatial aggregation patterns. <i>Journal of Ecology</i> , 2013, 101, 1313-1321.	1.9	26
23	To compete or not to compete: an experimental study of interactions between plant species with contrasting root behaviour. <i>Evolutionary Ecology</i> , 2010, 24, 1433-1445.	0.5	25
24	Drought soil legacy overrides maternal effects on plant growth. <i>Functional Ecology</i> , 2019, 33, 1400-1410.	1.7	25
25	Functional diversity and identity of plant genotypes regulate rhizodeposition and soil microbial activity. <i>New Phytologist</i> , 2021, 232, 776-787.	3.5	24
26	Legume presence reduces the decomposition rate of non-legume roots. <i>Soil Biology and Biochemistry</i> , 2016, 94, 88-93.	4.2	22
27	Spatial mapping of root systems reveals diverse strategies of soil exploration and resource contest in grassland plants. <i>Journal of Ecology</i> , 2021, 109, 652-663.	1.9	16
28	Dominance, diversity, and niche breadth in arbuscular mycorrhizal fungal communities. <i>Ecology</i> , 2022, 103, e3761.	1.5	11
29	Manipulation of vegetation with activated carbon reveals the role of root exudates in shaping native grassland communities. <i>Journal of Vegetation Science</i> , 2019, 30, 1056-1067.	1.1	9
30	Soil biota and chemical interactions promote coexistence in co-evolved grassland communities. <i>Journal of Ecology</i> , 2019, 107, 2611-2622.	1.9	8
31	Are researchers following best storage practices for measuring soil biochemical properties?. <i>Soil</i> , 2021, 7, 95-106.	2.2	7
32	Constraints on selfish behavior in plants. <i>Science</i> , 2020, 370, 1167-1168.	6.0	3
33	Spatial heterogeneity in root litter and soil legacies differentially affect legume root traits. <i>Plant and Soil</i> , 2018, 428, 253-264.	1.8	2
34	Grassland belowground feedbacks and climate change. , 2019, , 203-217.		0