

Sergey Blagodatsky

List of Publications by Year in descending order

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64
papers

4,541
citations

159585

30
h-index

123424

61
g-index

69
all docs

69
docs citations

69
times ranked

4864
citing authors

#	ARTICLE	IF	CITATIONS
1	Microbial carbon use efficiency during plant residue decomposition: Integrating multi-enzyme stoichiometry and C balance approach. <i>Applied Soil Ecology</i> , 2021, 159, 103820.	4.3	11
2	Modeling temperature sensitivity of soil organic matter decomposition: Splitting the pools. <i>Soil Biology and Biochemistry</i> , 2021, 153, 108108.	8.8	10
3	Response of bacterial and fungal communities to high petroleum pollution in different soils. <i>Scientific Reports</i> , 2021, 11, 164.	3.3	47
4	Soil microbial activity along an altitudinal gradient: Vegetation as a main driver beyond topographic and edaphic factors. <i>Applied Soil Ecology</i> , 2021, 168, 104197.	4.3	19
5	Microbial respiration and functional diversity of soil microbial community under treeline shifts in the Northwestern Caucasus. <i>RUDN Journal of Agronomy and Animal Industries</i> , 2021, 16, 226-237.	0.1	0
6	Impact of forest cover and conservation agriculture on sediment export: A case study in a montane reserve, south-western China. <i>Science of the Total Environment</i> , 2020, 702, 134802.	8.0	8
7	Symposium report: emerging threats for human health – impact of socioeconomic and climate change on zoonotic diseases in the Republic of Sakha (Yakutia), Russia. <i>International Journal of Circumpolar Health</i> , 2020, 79, 1715698.	1.2	17
8	DRIFTS band areas as measured pool size proxy to reduce parameter uncertainty in soil organic matter models. <i>Biogeosciences</i> , 2020, 17, 1393-1413.	3.3	13
9	Mechanism of methane uptake in profiles of tropical soils converted from forest to rubber plantations. <i>Soil Biology and Biochemistry</i> , 2020, 145, 107796.	8.8	17
10	Soil sample drying temperature affects specific organic mid-DRIFTS peaks and quality indices. <i>Geoderma</i> , 2019, 355, 113897.	5.1	4
11	Deep soil carbon storage in tree-dominated land use systems in tropical lowlands of Kalimantan. <i>Geoderma</i> , 2019, 354, 113864.	5.1	27
12	Converting forests into rubber plantations weakened the soil CH ₄ sink in tropical uplands. <i>Land Degradation and Development</i> , 2019, 30, 2311-2322.	3.9	12
13	A global, empirical, harmonised dataset of soil organic carbon changes under perennial crops. <i>Scientific Data</i> , 2019, 6, 57.	5.3	13
14	Climbing the mountain fast but smart: Modelling rubber tree growth and latex yield under climate change. <i>Forest Ecology and Management</i> , 2019, 439, 55-69.	3.2	14
15	Modelling weed management strategies to control erosion in rubber plantations. <i>Catena</i> , 2019, 172, 345-355.	5.0	16
16	Soil Organic Carbon Stocks Mapping In Mountainous Subtropics Using A 3D Mixed Model With Upscaling Capabilities. , 2019, , .		0
17	Impact of rubber plantation age on erosive potential studied with USLE model. <i>Journal of Applied Water Engineering and Research</i> , 2018, 6, 252-261.	1.8	3
18	Nitrogen availability regulates topsoil carbon dynamics after permafrost thaw by altering microbial metabolic efficiency. <i>Nature Communications</i> , 2018, 9, 3951.	12.8	135

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19	A mixed model for landscape soil organic carbon prediction across continuous profile depth in the mountainous subtropics. <i>Geoderma</i> , 2018, 330, 177-192.	5.1	10
20	Seasonal differences in soil respiration and methane uptake in rubber plantation and rainforest. <i>Agriculture, Ecosystems and Environment</i> , 2017, 240, 314-328.	5.3	29
21	Rubber tree allometry, biomass partitioning and carbon stocks in mountainous landscapes of sub-tropical China. <i>Forest Ecology and Management</i> , 2017, 404, 84-99.	3.2	23
22	Assessing Ecosystem Services in Rubber Dominated Landscapes in South-East Asia—A Challenge for Biophysical Modeling and Transdisciplinary Valuation. <i>Forests</i> , 2017, 8, 505.	2.1	13
23	Land-use change impact on time-averaged carbon balances: Rubber expansion and reforestation in a biosphere reserve, South-West China. <i>Forest Ecology and Management</i> , 2016, 372, 149-163.	3.2	42
24	Temperature sensitivity and enzymatic mechanisms of soil organic matter decomposition along an altitudinal gradient on Mount Kilimanjaro. <i>Scientific Reports</i> , 2016, 6, 22240.	3.3	106
25	Impact of herbicide application on soil erosion and induced carbon loss in a rubber plantation of Southwest China. <i>Catena</i> , 2016, 145, 180-192.	5.0	51
26	Carbon balance of rubber (<i>Hevea brasiliensis</i>) plantations: A review of uncertainties at plot, landscape and production level. <i>Agriculture, Ecosystems and Environment</i> , 2016, 221, 8-19.	5.3	67
27	Microbial Growth and Carbon Use Efficiency in the Rhizosphere and Root-Free Soil. <i>PLoS ONE</i> , 2014, 9, e93282.	2.5	169
28	Oxygen and substrate availability interactively control the temperature sensitivity of CO ₂ and N ₂ O emission from soil. <i>Biology and Fertility of Soils</i> , 2014, 50, 775-783.	4.3	53
29	Microbial interactions affect sources of priming induced by cellulose. <i>Soil Biology and Biochemistry</i> , 2014, 74, 39-49.	8.8	147
30	Soil C and N availability determine the priming effect: microbial N mining and stoichiometric decomposition theories. <i>Global Change Biology</i> , 2014, 20, 2356-2367.	9.5	758
31	Temperature dependence of the activity of polyphenol peroxidases and polyphenol oxidases in modern and buried soils. <i>Eurasian Soil Science</i> , 2014, 47, 459-465.	1.6	12
32	Systems approaches in global change and biogeochemistry research. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2012, 367, 311-321.	4.0	15
33	Decomposition of biogas residues in soil and their effects on microbial growth kinetics and enzyme activities. <i>Biomass and Bioenergy</i> , 2012, 45, 221-229.	5.7	90
34	Soil microbial biomass and its activity estimated by kinetic respiration analysis — Statistical guidelines. <i>Soil Biology and Biochemistry</i> , 2012, 45, 102-112.	8.8	36
35	Soil physics meets soil biology: Towards better mechanistic prediction of greenhouse gas emissions from soil. <i>Soil Biology and Biochemistry</i> , 2012, 47, 78-92.	8.8	173
36	Turnover of soil organic matter and of microbial biomass under C ₃ —C ₄ vegetation change: Consideration of ¹³ C fractionation and preferential substrate utilization. <i>Soil Biology and Biochemistry</i> , 2011, 43, 159-166.	8.8	176

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37	Three-source-partitioning of microbial biomass and of CO ₂ efflux from soil to evaluate mechanisms of priming effects. <i>Soil Biology and Biochemistry</i> , 2011, 43, 778-786.	8.8	129
38	Modelling of microbial carbon and nitrogen turnover in soil with special emphasis on N-trace gases emission. <i>Plant and Soil</i> , 2011, 346, 297-330.	3.7	35
39	Model of apparent and real priming effects: Linking microbial activity with soil organic matter decomposition. <i>Soil Biology and Biochemistry</i> , 2010, 42, 1275-1283.	8.8	172
40	Elevated atmospheric CO ₂ increases microbial growth rates in soil: results of three CO ₂ enrichment experiments. <i>Global Change Biology</i> , 2010, 16, 836-848.	9.5	153
41	Comments on the paper by Kemmitt et al. (2008) "Mineralization of native soil organic matter is not regulated by the size, activity or composition of the soil microbial biomass" A new perspective™ [<i>Soil Biology & Biochemistry</i> 40, 61-73]: The biology of the Regulatory Gate. <i>Soil Biology and Biochemistry</i> , 2009, 41, 435-439.	8.8	87
42	Contrasting effects of glucose, living roots and maize straw on microbial growth kinetics and substrate availability in soil. <i>European Journal of Soil Science</i> , 2009, 60, 186-197.	3.9	202
43	Stimulation of microbial extracellular enzyme activities by elevated CO ₂ depends on soil aggregate size. <i>Global Change Biology</i> , 2009, 15, 1603-1614.	9.5	185
44	The effect of earthworms on the physiological state of the microbial community at vermicomposting. <i>Microbiology</i> , 2009, 78, 510-519.	1.2	7
45	Stimulation of r- vs. K-selected microorganisms by elevated atmospheric CO ₂ depends on soil aggregate size. <i>FEMS Microbiology Ecology</i> , 2009, 69, 43-52.	2.7	73
46	Model evaluation of different mechanisms driving freeze-thaw N ₂ O emissions. <i>Agriculture, Ecosystems and Environment</i> , 2009, 133, 196-207.	5.3	91
47	Nitrous oxide production in soils and the ratio of the fungal to bacterial biomass. <i>Eurasian Soil Science</i> , 2008, 41, 1448-1455.	1.6	8
48	Microbial biomass and growth kinetics of microorganisms in chernozem soils under different land use modes. <i>Microbiology</i> , 2008, 77, 99-106.	1.2	19
49	Priming effects in Chernozem induced by glucose and N in relation to microbial growth strategies. <i>Applied Soil Ecology</i> , 2007, 37, 95-105.	4.3	355
50	Production of NO and N ₂ O by the Heterotrophic Nitrifier <i>Alcaligenes faecalis parafaecalis</i> under Varying Conditions of Oxygen Saturation. <i>Geomicrobiology Journal</i> , 2006, 23, 165-176.	2.0	22
51	Effect of pH, temperature and substrate on N ₂ O, NO and CO ₂ production by <i>Alcaligenes faecalis</i> p.. <i>Journal of Applied Microbiology</i> , 2006, 101, 655-667.	3.1	96
52	Kinetics of the respiratory response of the soil and rhizosphere microbial communities in a field experiment with an elevated concentration of atmospheric CO ₂ . <i>Eurasian Soil Science</i> , 2006, 39, 290-297.	1.6	16
53	Fertilizing effect of the increasing CO ₂ concentration in the atmosphere. <i>Eurasian Soil Science</i> , 2006, 39, S6-S14.	1.6	9
54	Quantitative Isolation of Microbial DNA from Different Types of Soils of Natural and Agricultural Ecosystems. <i>Microbiology</i> , 2003, 72, 744-749.	1.2	31

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55	Extractable Microbial DNA Pool and Microbial Activity in Paleosols of Southern Urals. <i>Microbiology</i> , 2003, 72, 750-755.	1.2	13
56	Land-use change and management effects on carbon sequestration in soils of Russia's South Taiga zone. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2003, 55, 331-337.	1.6	23
57	Estimating the active and total soil microbial biomass by kinetic respiration analysis. <i>Biology and Fertility of Soils</i> , 2000, 32, 73-81.	4.3	142
58	Soil respiration and carbon balance of gray forest soils as affected by land use. <i>Biology and Fertility of Soils</i> , 1998, 27, 251-257.	4.3	45
59	Extractability of microbial N as influenced by C:N ratio in the flush after drying or fumigation. <i>Biology and Fertility of Soils</i> , 1998, 28, 5-11.	4.3	20
60	Microbial growth in soil and nitrogen turnover: a theoretical model considering the activity state of microorganisms. <i>Soil Biology and Biochemistry</i> , 1998, 30, 1743-1755.	8.8	144
61	Microbial growth in soil and nitrogen turnover: Model calibration with laboratory data. <i>Soil Biology and Biochemistry</i> , 1998, 30, 1757-1764.	8.8	54
62	Nitrogen immobilization and remineralization by microorganisms and nitrogen uptake by plants: Interactions and rate calculations. <i>Geomicrobiology Journal</i> , 1993, 11, 185-193.	2.0	12
63	Determination of microbial mineralization activity in soil by modified Wright and Hobbie method. <i>Biology and Fertility of Soils</i> , 1992, 14, 280-287.	4.3	34
64	Environmental and socio-economic impacts of rubber cultivation in the Mekong region: challenges for sustainable land use.. <i>CAB Reviews: Perspectives in Agriculture, Veterinary Science, Nutrition and Natural Resources</i> , 0, , 1-11.	1.0	27