

# Bas van Wesemael

## List of Publications by Year in descending order

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Version: 2024-02-01

134  
papers

11,325  
citations

28190

55  
h-index

30010

103  
g-index

147  
all docs

147  
docs citations

147  
times ranked

9903  
citing authors

#	ARTICLE	IF	CITATIONS
1	Soil carbon 4 per mille. <i>Geoderma</i> , 2017, 292, 59-86.	2.3	1,279
2	Soil organic carbon storage as a key function of soils - A review of drivers and indicators at various scales. <i>Geoderma</i> , 2019, 333, 149-162.	2.3	944
3	Temporal dynamics of soil organic carbon after land-use change in the temperate zone - carbon response functions as a model approach. <i>Global Change Biology</i> , 2011, 17, 2415-2427.	4.2	645
4	Prediction of Soil Organic Carbon at the European Scale by Visible and Near InfraRed Reflectance Spectroscopy. <i>PLoS ONE</i> , 2013, 8, e66409.	1.1	295
5	Soil Spectroscopy: An Alternative to Wet Chemistry for Soil Monitoring. <i>Advances in Agronomy</i> , 2015, , 139-159.	2.4	288
6	Prediction of soil organic carbon for different levels of soil moisture using Vis-NIR spectroscopy. <i>Geoderma</i> , 2013, 199, 37-42.	2.3	280
7	Isolating organic carbon fractions with varying turnover rates in temperate agricultural soils – A comprehensive method comparison. <i>Soil Biology and Biochemistry</i> , 2018, 125, 10-26.	4.2	269
8	Geomorphic threshold conditions for ephemeral gully incision. <i>Geomorphology</i> , 1996, 16, 161-173.	1.1	264
9	Measuring soil organic carbon in croplands at regional scale using airborne imaging spectroscopy. <i>Geoderma</i> , 2010, 158, 32-45.	2.3	236
10	Laboratory, field and airborne spectroscopy for monitoring organic carbon content in agricultural soils. <i>Geoderma</i> , 2008, 144, 395-404.	2.3	227
11	Prediction of soil organic carbon content by diffuse reflectance spectroscopy using a local partial least square regression approach. <i>Soil Biology and Biochemistry</i> , 2014, 68, 337-347.	4.2	218
12	Historical land use change has lowered terrestrial silica mobilization. <i>Nature Communications</i> , 2010, 1, 129.	5.8	189
13	Carbon cycling in eroding landscapes: geomorphic controls on soil organic C pool composition and C stabilization. <i>Global Change Biology</i> , 2012, 18, 2218-2232.	4.2	187
14	Magnitude and sources of uncertainties in soil organic carbon (SOC) stock assessments at various scales. <i>European Journal of Soil Science</i> , 2009, 60, 723-739.	1.8	186
15	Current status, uncertainty and future needs in soil organic carbon monitoring. <i>Science of the Total Environment</i> , 2014, 468-469, 376-383.	3.9	171
16	Patterns of rock fragment cover generated by tillage erosion. <i>Geomorphology</i> , 1997, 18, 183-197.	1.1	166
17	Evaluating the capability of the Sentinel 2 data for soil organic carbon prediction in croplands. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2019, 147, 267-282.	4.9	164
18	A map of the topsoil organic carbon content of Europe generated by a generalized additive model. <i>European Journal of Soil Science</i> , 2015, 66, 121-134.	1.8	158

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19	Agricultural management explains historic changes in regional soil carbon stocks. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 14926-14930.	3.3	148
20	Effects of land use, slope gradient, and soil and water conservation structures on runoff and soil loss in semi-arid Northern Ethiopia. Physical Geography, 2013, 34, 236-259.	0.6	142
21	Regional assessment of soil organic carbon changes under agriculture in Southern Belgium (1955â€“2005). Geoderma, 2007, 141, 341-354.	2.3	141
22	Carbon sequestration potential in European croplands has been overestimated. Global Change Biology, 2005, 11, 2153-2163.	4.2	138
23	Development of spatial heterogeneity in vegetation and soil properties after land abandonment in a semi-arid ecosystem. Journal of Arid Environments, 2008, 72, 2082-2092.	1.2	121
24	Variation of rock fragment cover and size along semiarid hillslopes: a case-study from southeast Spain. Geomorphology, 1998, 23, 323-335.	1.1	117
25	Soil organic carbon changes in landscape units of Belgium between 1960 and 2000 with reference to 1990. Global Change Biology, 2005, 11, 2128-2140.	4.2	117
26	Changes in organic carbon distribution with depth in agricultural soils in northern Belgium, 1960â€“2006. Global Change Biology, 2009, 15, 2739-2750.	4.2	113
27	Spatial analysis of soil organic carbon evolution in Belgian croplands and grasslands, 1960-2006. Global Change Biology, 2011, 17, 466-479.	4.2	108
28	Soil Organic Carbon mapping of partially vegetated agricultural fields with imaging spectroscopy. International Journal of Applied Earth Observation and Geoinformation, 2011, 13, 81-88.	1.4	106
29	Detection of Carbon Stock Change in Agricultural Soils Using Spectroscopic Techniques. Soil Science Society of America Journal, 2006, 70, 844-850.	1.2	103
30	Controls of infiltrationâ€“runoff processes in Mediterranean karst rangelands in SE Spain. Catena, 2011, 86, 98-109.	2.2	100
31	Spatial and temporal variation of muddy floods in central Belgium, off-site impacts and potential control measures. Catena, 2007, 70, 443-454.	2.2	89
32	Sampling optimal calibration sets in soil infrared spectroscopy. Geoderma, 2014, 226-227, 140-150.	2.3	89
33	Modelling the three-dimensional spatial distribution of soil organic carbon (SOC) at the regional scale (Flanders, Belgium). Geoderma, 2009, 152, 43-52.	2.3	88
34	Low erosion rates measured for steep, sparsely vegetated catchments in southeast Spain. Catena, 2011, 84, 1-11.	2.2	87
35	Stocks and fluxes of soil organic carbon for landscape units in Belgium derived from heterogeneous data sets for 1990 and 2000. Geoderma, 2005, 127, 11-23.	2.3	85
36	Driving forces of soil organic carbon evolution at the landscape and regional scale using data from a stratified soil monitoring. Global Change Biology, 2009, 15, 2981-3000.	4.2	77

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37	Determining soil organic carbon for agricultural soils: a comparison between the Walkley & Black and the dry combustion methods (north Belgium). <i>Soil Use and Management</i> , 2009, 25, 346-353.	2.6	77
38	Soil carbon, multiple benefits. <i>Environmental Development</i> , 2015, 13, 33-38.	1.8	75
39	Estimating annual N <sub>2</sub> O emissions from agricultural soils in temperate climates. <i>Global Change Biology</i> , 2005, 11, 1701-1711.	4.2	72
40	Using stable isotope analysis ( $\delta^{18}O$ ) to characterise the regional hydrology of the Sierra de Gador, south east Spain. <i>Journal of Hydrology</i> , 2002, 265, 43-55.	2.3	71
41	Soil conservation in the 21st century: why we need smart agricultural intensification. <i>Soil</i> , 2017, 3, 45-59.	2.2	70
42	The effect of water vapour adsorption on soil moisture content under Mediterranean climatic conditions. <i>Agricultural Water Management</i> , 1998, 36, 157-168.	2.4	68
43	Variable carbon recovery of Walkley-Black analysis and implications for national soil organic carbon accounting. <i>European Journal of Soil Science</i> , 2007, 58, 1244-1253.	1.8	68
44	Soil organic and inorganic carbon contents of landscape units in Belgium derived using data from 1950 to 1970. <i>Soil Use and Management</i> , 2004, 20, 40-47.	2.6	68
45	Effects of rock fragments on physical degradation of cultivated soils by rainfall. <i>Soil and Tillage Research</i> , 1995, 33, 229-250.	2.6	67
46	Soil Organic Carbon Mapping Using LUCAS Topsoil Database and Sentinel-2 Data: An Approach to Reduce Soil Moisture and Crop Residue Effects. <i>Remote Sensing</i> , 2019, 11, 2121.	1.8	67
47	Evaporation losses from bare soils as influenced by cultivation techniques in semi-arid regions. <i>Agricultural Water Management</i> , 2000, 42, 355-369.	2.4	66
48	Evolution of the effectiveness of stone bunds and trenches in reducing runoff and soil loss in the semi-arid Ethiopian highlands. <i>Zeitschrift für Geomorphologie</i> , 2015, 59, 477-493.	0.3	65
49	UAS-based soil carbon mapping using VIS-NIR (480-1000 nm) multi-spectral imaging: Potential and limitations. <i>Geoderma</i> , 2016, 275, 55-66.	2.3	65
50	Soil Organic Carbon Estimation in Croplands by Hyperspectral Remote APEX Data Using the LUCAS Topsoil Database. <i>Remote Sensing</i> , 2018, 10, 153.	1.8	65
51	Modelling the impact of agricultural management on soil carbon stocks at the regional scale: the role of lateral fluxes. <i>Global Change Biology</i> , 2015, 21, 3181-3192.	4.2	63
52	How can soil monitoring networks be used to improve predictions of organic carbon pool dynamics and CO <sub>2</sub> fluxes in agricultural soils?. <i>Plant and Soil</i> , 2011, 338, 247-259.	1.8	61
53	Spatial patterns of soil water balance on intensively cultivated hillslopes in a semi-arid environment: the impact of rock fragments and soil thickness. <i>Hydrological Processes</i> , 2000, 14, 1811-1828.	1.1	59
54	Abandonment of soil and water conservation structures in Mediterranean ecosystems. <i>Catena</i> , 2009, 76, 114-121.	2.2	57

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55	Effectiveness of erosion mitigation measures to prevent muddy floods: A case study in the Belgian loam belt. <i>Agriculture, Ecosystems and Environment</i> , 2007, 118, 149-158.	2.5	56
56	Natural and anthropogenic controls on soil erosion in the Internal Betic Cordillera (southeast) Tj ETQq0 0 0 rgBT /Oyerlock 10 Tf 50 702	2.2	55
57	Belgium's CO <sub>2</sub> mitigation potential under improved cropland management. <i>Agriculture, Ecosystems and Environment</i> , 2004, 103, 101-116.	2.5	54
58	Discriminating soil crust type, development stage and degree of disturbance in semiarid environments from their spectral characteristics. <i>European Journal of Soil Science</i> , 2012, 63, 42-53.	1.8	54
59	Litter decomposition and nutrient distribution in humus profiles in some mediterranean forests in southern Tuscany. <i>Forest Ecology and Management</i> , 1993, 57, 99-114.	1.4	53
60	Fine-earth translocation by tillage in stony soils in the Guadalentin, south-east Spain: an investigation using caesium-134 Paper presented at International Symposium on Tillage Translocation and Tillage Erosion held in conjunction with the 52nd Annual Conference of the Soil and Water Conservation Society, Toronto, Canada. 24-25 July, 1997.1. <i>Soil and Tillage Research</i> , 1999, 51, 279-301.	2.6	51
61	Effect of land abandonment on soil organic carbon fractions along a Mediterranean precipitation gradient. <i>Geoderma</i> , 2015, 249-250, 69-78.	2.3	49
62	Collection and storage of runoff from hillslopes in a semi-arid environment: geomorphic and hydrologic aspects of the aljibe system in Almeria Province, Spain. <i>Journal of Arid Environments</i> , 1998, 40, 1-14.	1.2	46
63	Spatial patterns of land degradation and their impacts on the water balance of rainfed tree crops: A case study in South East Spain. <i>Geoderma</i> , 2006, 133, 43-56.	2.3	46
64	Soil Organic Carbon Predictions by Airborne Imaging Spectroscopy: Comparing Cross-Validation and Validation. <i>Soil Science Society of America Journal</i> , 2012, 76, 2174-2183.	1.2	46
65	Benefits of soil carbon: report on the outcomes of an international scientific committee on problems of the environment rapid assessment workshop. <i>Carbon Management</i> , 2014, 5, 185-192.	1.2	46
66	Growing stock-based assessment of the carbon stock in the Belgian forest biomass. <i>Annals of Forest Science</i> , 2005, 62, 853-864.	0.8	45
67	Spatially-explicit regional-scale prediction of soil organic carbon stocks in cropland using environmental variables and mixed model approaches. <i>Geoderma</i> , 2013, 204-205, 31-42.	2.3	44
68	Soil spectroscopy: an opportunity to be seized. <i>Global Change Biology</i> , 2015, 21, 10-11.	4.2	44
69	A grassed waterway and earthen dams to control muddy floods from a cultivated catchment of the Belgian loess belt. <i>Geomorphology</i> , 2008, 100, 419-428.	1.1	43
70	Soil organic carbon assessment by field and airborne spectrometry in bare croplands: accounting for soil surface roughness. <i>Geoderma</i> , 2014, 226-227, 94-102.	2.3	39
71	Soil organic carbon evolution after land abandonment along a precipitation gradient in southern Spain. <i>Agriculture, Ecosystems and Environment</i> , 2015, 199, 114-123.	2.5	38
72	Determining RUSLE P and C factors for stone bunds and trenches in rangeland and cropland, North Ethiopia. <i>Land Degradation and Development</i> , 2018, 29, 812-824.	1.8	38

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73	Vis-NIR spectroscopic assessment of soil aggregate stability and aggregate size distribution in the Belgian Loam Belt. <i>Geoderma</i> , 2020, 357, 113958.	2.3	38
74	Seasonal evolution of runoff generation on agricultural land in the Belgian loess belt and implications for muddy flood triggering. <i>Earth Surface Processes and Landforms</i> , 2008, 33, 1285-1301.	1.2	36
75	An indicator for organic matter dynamics in temperate agricultural soils. <i>Agriculture, Ecosystems and Environment</i> , 2019, 274, 62-75.	2.5	35
76	SURFACE ROUGHNESS EVOLUTION OF SOILS CONTAINING ROCK FRAGMENTS. <i>Earth Surface Processes and Landforms</i> , 1996, 21, 399-411.	1.2	34
77	High resolution characterization of the soil organic carbon depth profile in a soil landscape affected by erosion. <i>Soil and Tillage Research</i> , 2016, 156, 185-193.	2.6	34
78	Rejoinder to Comments on Minasny et al., 2017 Soil carbon 4 per mille <i>Geoderma</i> 292, 59-86. <i>Geoderma</i> , 2018, 309, 124-129.	2.3	34
79	Soil organic carbon dynamics at the regional scale as influenced by land use history: a case study in forest soils from southern Belgium. <i>Soil Use and Management</i> , 2008, 24, 69-79.	2.6	33
80	Changes in soil organic carbon pools along a chronosequence of land abandonment in southern Spain. <i>Geoderma</i> , 2016, 268, 14-21.	2.3	33
81	Assessing the Performance of UAS-Compatible Multispectral and Hyperspectral Sensors for Soil Organic Carbon Prediction. <i>Sustainability</i> , 2019, 11, 1889.	1.6	32
82	Reliability of an expert-based runoff and erosion model: Application of STREAM to different environments. <i>Catena</i> , 2009, 78, 129-141.	2.2	31
83	Water harvesting potential in function of hillslope characteristics: A case study from the Sierra de Gador (Almeria province, south-east Spain). <i>Journal of Arid Environments</i> , 2008, 72, 1213-1231.	1.2	29
84	Sentinel-2 Exposed Soil Composite for Soil Organic Carbon Prediction. <i>Remote Sensing</i> , 2021, 13, 1791.	1.8	29
85	Soil Organic Carbon Mapping from Remote Sensing: The Effect of Crop Residues. <i>Remote Sensing</i> , 2020, 12, 1913.	1.8	28
86	Earth Observation Data-Driven Cropland Soil Monitoring: A Review. <i>Remote Sensing</i> , 2021, 13, 4439.	1.8	28
87	The impact of soil properties and topography on drought vulnerability of rainfed cropping systems in southern Spain. <i>Agriculture, Ecosystems and Environment</i> , 2003, 94, 1-15.	2.5	26
88	Temporal stability and patterns of runoff and runoff with different cover crops in an olive orchard (SW Andalusia, Spain). <i>Catena</i> , 2016, 147, 125-137.	2.2	25
89	Sampling Strategies for Soil Property Mapping Using Multispectral Sentinel-2 and Hyperspectral EnMAP Satellite Data. <i>Remote Sensing</i> , 2019, 11, 309.	1.8	25
90	Satellite Imagery to Map Topsoil Organic Carbon Content over Cultivated Areas: An Overview. <i>Remote Sensing</i> , 2022, 14, 2917.	1.8	25

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91	Evaluating the performance of reservoirs in semi-arid catchments of Tigray: Tradeoff between water harvesting and soil and water conservation. <i>Catena</i> , 2013, 110, 146-154.	2.2	24
92	Carbon associated with clay and fine silt as an indicator for SOC decadal evolution under different residue management practices. <i>Agriculture, Ecosystems and Environment</i> , 2014, 196, 1-9.	2.5	24
93	Mapping Soil Organic Carbon stocks and estimating uncertainties at the regional scale following a legacy sampling strategy (Southern Belgium, Wallonia). <i>Geoderma Regional</i> , 2017, 9, 73-86.	0.9	24
94	Origin and type of rainfall for recharge of a karstic aquifer in the western Mediterranean: a case study from the Sierra de Gador "Campo de Dalías (southeast Spain). <i>Hydrological Processes</i> , 2007, 21, 359-368.	1.1	23
95	Soil organic carbon stock in the Belgian Ardennes as affected by afforestation and deforestation from 1868 to 2005. <i>Forest Ecology and Management</i> , 2008, 256, 1527-1539.	1.4	22
96	A trade-off between dissolved and amorphous silica transport during peak flow events (Scheldt river) catchments. <i>Biogeochemistry</i> , 2011, 106, 475-487.	1.7	22
97	Soil Organic Carbon Assessment at High Vertical Resolution using Closed- $\mu$ Tube Sampling and Vis-NIR Spectroscopy. <i>Soil Science Society of America Journal</i> , 2013, 77, 1430-1435.	1.2	22
98	Estimation of Soil Organic Carbon Contents in Croplands of Bavaria from SCMaP Soil Reflectance Composites. <i>Remote Sensing</i> , 2021, 13, 3141.	1.8	22
99	Gravel mulching in vineyards of Southern Switzerland. , 1998, 46, 51-51.		22
100	A comparison of management approaches to control muddy floods in central Belgium, northern France and southern England. <i>Land Degradation and Development</i> , 2010, 21, 322-335.	1.8	20
101	Large-Scale, High-Resolution Mapping of Soil Aggregate Stability in Croplands Using APEX Hyperspectral Imagery. <i>Remote Sensing</i> , 2020, 12, 666.	1.8	19
102	Modelling the evolution of regional carbon stocks in Belgian cropland soils. <i>Canadian Journal of Soil Science</i> , 2005, 85, 511-521.	0.5	18
103	Raman spectroscopy detection of biomolecules in biocrusts from differing environmental conditions. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 171, 40-51.	2.0	18
104	Amorphous silica analysis in terrestrial runoff samples. <i>Geoderma</i> , 2011, 167-168, 228-235.	2.3	17
105	Crusted microtopography on badland slopes in southeast Spain. <i>Catena</i> , 1987, 14, 131-144.	2.2	16
106	Assessing scale effects on modelled soil organic carbon contents as a result of land use change in Belgium. <i>Soil Use and Management</i> , 2008, 24, 8-18.	2.6	16
107	Soil organic carbon estimation using VNIR "SWIR spectroscopy: The effect of multiple sensors and scanning conditions. <i>Soil and Tillage Research</i> , 2021, 211, 105017.	2.6	16
108	Water availability in almond orchards on marl soils in southeast Spain: The role of evaporation and runoff. <i>Journal of Arid Environments</i> , 2008, 72, 2168-2178.	1.2	15

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109	Constraining a coupled erosion and soil organic carbon model using hillslope-scale patterns of carbon stocks and pool composition. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2015, 120, 452-465.	1.3	15
110	Detecting and quantifying field-related spatial variation of soil organic carbon using mixed-effect models and airborne imagery. <i>Geoderma</i> , 2015, 259-260, 93-103.	2.3	15
111	Predicting runoff from semi-arid hillslopes as source areas for water harvesting in the Sierra de Gador, southeast Spain. <i>Catena</i> , 2009, 79, 83-92.	2.2	14
112	Batjes, N. H. 1996. Total carbon and nitrogen in the soils of the world. <i>European Journal of Soil Science</i> , 47, 151-163. <i>Commentary on the impact of Batjes (1996): by P.J. Loveland, F. Conen &amp; B. van Wesemael</i> . <i>European Journal of Soil Science</i> , 2014, 65, 4-9.	1.8	14
113	A Simple Approach to Isolate Slow and Fast Cycling Organic Carbon Fractions in Central European Soils—Importance of Dispersion Method. <i>Frontiers in Soil Science</i> , 2021, 1, .	0.8	14
114	Organic acids in a moder type humus profile under a mediterranean oak forest. <i>Geoderma</i> , 1993, 59, 75-88.	2.3	12
115	Temporal dynamics of bio-available Si fluxes in a temperate forested catchment (Meerdaal forest, Belgium). <i>ETQq1 1 0.784314 rgBT /Overlock 11</i>	1.7	11
116	Regional-scale characterization of the geomorphic control of the spatial distribution of soil organic carbon in cropland. <i>European Journal of Soil Science</i> , 2014, 65, 539-552.	1.8	11
117	Mapping mean total annual precipitation in Belgium, by investigating the scale of topographic control at the regional scale. <i>Journal of Hydrology</i> , 2016, 540, 96-105.	2.3	11
118	Defining a reference system for biological indicators of agricultural soil quality in Wallonia, Belgium. <i>Ecological Indicators</i> , 2018, 95, 568-578.	2.6	11
119	High-resolution soil organic carbon mapping at the field scale in Southern Belgium (Wallonia). <i>Geoderma</i> , 2022, 422, 115929.	2.3	10
120	Projecting future N <sub>2</sub> O emissions from agricultural soils in Belgium. <i>Global Change Biology</i> , 2007, 13, 18-27.	4.2	9
121	Spatial filtering of a legacy dataset to characterize relationships between soil organic carbon and soil texture. <i>Geoderma</i> , 2015, 237-238, 224-236.	2.3	9
122	Organic carbon stocks and stock changes of forest biomass in Belgium derived from forest inventory data in a spatially explicit approach. <i>Annals of Forest Science</i> , 2008, 65, 604-604.	0.8	8
123	Pedogenesis by clay dissolution on acid, low-grade metamorphic rocks under mediterranean forests in southern Tuscany (Italy). <i>Catena</i> , 1995, 24, 105-125.	2.2	7
124	Short and long-term impact of urban gardening on soil organic carbon fractions in Lixisols (Burkina Faso). <i>ETQq0 0 0 rgBT /Overlock 10 Tf 5 2.3</i>	2.3	7
125	Evaluating the capability of a <i>UAV</i> airborne spectrometer for soil organic carbon mapping in bare croplands. <i>Land Degradation and Development</i> , 2021, 32, 4375-4389.	1.8	7
126	UAV Remote Sensing for Detecting within-Field Spatial Variation of Winter Wheat Growth and Links to Soil Properties and Historical Management Practices. A Case Study on Belgian Loamy Soil. <i>Remote Sensing</i> , 2022, 14, 2806.	1.8	7



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127	Mechanisms of Degradation and Identification of Connectivity and Erosion Hotspots. SpringerBriefs in Environmental Science, 2017, , 13-37.	0.3	5
128	Carbon Sinks and Conserving Biodiversity. Science, 2001, 294, 2094-2095.	6.0	2
129	Effectiveness of Plants and Vegetation in Erosion Control and Restoration. SpringerBriefs in Environmental Science, 2017, , 79-104.	0.3	2
130	High-Spectral Resolution Remote Sensing of Soil Organic Carbon Dynamics. Remote Sensing, 2021, 13, 1293.	1.8	2
131	Conditions for Growth of Plants. SpringerBriefs in Environmental Science, 2017, , 39-78.	0.3	1
132	<scp>CARBIOSOL</scp>: Biological indicators of soil quality and organic carbon in grasslands and croplands in Wallonia, Belgium. Ecology, 2019, 100, e02843.	1.5	1
133	Improving Soil Organic Carbon (SOC) prediction by field spectrometry in bare cropland by reducing the disturbing effect of soil roughness. , 2009, , .		0
134	Synthesis and Application of Spatial Strategies for Use of Vegetation to Minimise Connectivity. SpringerBriefs in Environmental Science, 2017, , 105-124.	0.3	0