# Violette Geissen

List of Publications by Year
in descending order



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|---|---|---|---|
| 101 papers | 13,478 citations | 53794 45 h-index | 32842 100 g-index |
| 102 all docs | 102 docs citations | 102 times ranked | 10530 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Soil quality â€“ A critical review. Soil Biology and Biochemistry, 2018, 120, 105-125. | 8.8 | 1,441 |
| 2 | An overview of microplastic and nanoplastic pollution in agroecosystems. Science of the Total Environment, 2018, 627, 1377-1388. | 8.0 | 846 |
| 3 | Microplastics in the Terrestrial Ecosystem: Implications for Lumbricus terrestris (Oligochaeta,) Tj ETQq1 1 0.784314 rgBT /Over | 10.0 | 844 |
| 4 | Evidence of microplastic accumulation in agricultural soils from sewage sludge disposal. Science of the Total Environment, 2019, 671, 411-420. | 8.0 | 781 |
| 5 | Emerging pollutants in the environment: A challenge for water resource management. International Soil and Water Conservation Research, 2015, 3, 57-65. | 6.5 | 714 |
| 6 | Macro- and micro- plastics in soil-plant system: Effects of plastic mulch film residues on wheat (Triticum aestivum) growth. Science of the Total Environment, 2018, 645, 1048-1056. | 8.0 | 711 |
| 7 | Pesticide residues in European agricultural soils â€“ A hidden reality unfolded. Science of the Total Environment, 2019, 653, 1532-1545. | 8.0 | 627 |
| 8 | Field evidence for transfer of plastic debris along a terrestrial food chain. Scientific Reports, 2017, 7, 14071. | 3.3 | 523 |
| 9 | Response of soil dissolved organic matter to microplastic addition in Chinese loess soil. Chemosphere, 2017, 185, 907-917. | 8.2 | 515 |
| 10 | Incorporation of microplastics from litter into burrows of Lumbricus terrestris. Environmental Pollution, 2017, 220, 523-531. | 7.5 | 479 |
| 11 | Sewage sludge application as a vehicle for microplastics in eastern Spanish agricultural soils. Environmental Pollution, 2020, 261, 114198. | 7.5 | 353 |
| 12 | Effects of plastic mulch film residues on wheat rhizosphere and soil properties. Journal of Hazardous Materials, 2020, 387, 121711. | 12.4 | 347 |
| 13 | A simple method for the extraction and identification of light density microplastics from soil. Science of the Total Environment, 2018, 616-617, 1056-1065. | 8.0 | 325 |
| 14 | Decay of low-density polyethylene by bacteria extracted from earthworm's guts: A potential for soil restoration. Science of the Total Environment, 2018, 624, 753-757. | 8.0 | 297 |
| 15 | Distribution of glyphosate and aminomethylphosphonic acid (AMPA) in agricultural topsoils of the European Union. Science of the Total Environment, 2018, 621, 1352-1359. | 8.0 | 246 |
| 16 | Wind erosion as a driver for transport of light density microplastics. Science of the Total Environment, 2019, 669, 273-281. | 8.0 | 236 |
| 17 | Response of common bean (Phaseolus vulgaris L.) growth to soil contaminated with microplastics. Science of the Total Environment, 2021, 755, 142516. | 8.0 | 170 |
| 18 | Impact of plastic mulch film debris on soil physicochemical and hydrological properties. Environmental Pollution, 2020, 266, 115097. | 7.5 | 162 |

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|---|---|---|---|
| 19 | Persistence of glyphosate and aminomethylphosphonic acid in loess soil under different combinations of temperature, soil moisture and light/darkness. Science of the Total Environment, 2016, 572, 301-311. | 8.0 | 158 |
| 20 | Microplastics occurrence and frequency in soils under different land uses on a regional scale. Science of the Total Environment, 2021, 752, 141917. | 8.0 | 158 |
| 21 | Factors affecting farmers' behaviour in pesticide use: Insights from a field study in northern China. Science of the Total Environment, 2015, 537, 360-368. | 8.0 | 153 |
| 22 | Low density-microplastics detected in sheep faeces and soil: A case study from the intensive vegetable farming in Southeast Spain. Science of the Total Environment, 2021, 755, 142653. | 8.0 | 148 |
| 23 | Effects of wildfire on soil nutrients in Mediterranean ecosystems. Earth-Science Reviews, 2014, 139, 47-58. | 9.1 | 147 |
| 24 | Extension of a GIS procedure for calculating the RUSLE equation LS factor. Computers and Geosciences, 2013, 52, 177-188. | 4.2 | 144 |
| 25 | Influence of microplastic addition on glyphosate decay and soil microbial activities in Chinese loess soil. Environmental Pollution, 2018, 242, 338-347. | 7.5 | 141 |
| 26 | Pesticide residues in Nepalese vegetables and potential health risks. Environmental Research, 2019, 172, 511-521. | 7.5 | 140 |
| 27 | Predicting soil microplastic concentration using vis-NIR spectroscopy. Science of the Total Environment, 2019, 650, 922-932. | 8.0 | 140 |
| 28 | Leaching of microplastics by preferential flow in earthworm (Lumbricus terrestris) burrows. Environmental Chemistry, 2019, 16, 31. | 1.5 | 116 |
| 29 | Concentration and distribution of pesticide residues in soil: Non-dietary human health risk assessment. Chemosphere, 2020, 253, 126594. | 8.2 | 112 |
| 30 | Farmer and retailer knowledge and awareness of the risks from pesticide use: A case study in the Wei River catchment, China. Science of the Total Environment, 2014, 497-498, 172-179. | 8.0 | 104 |
| 31 | Microplastic pollution alters forest soil microbiome. Journal of Hazardous Materials, 2021, 409, 124606. | 12.4 | 100 |
| 32 | Cocktails of pesticide residues in conventional and organic farming systems in Europe â€“ Legacy of the past and turning point for the future. Environmental Pollution, 2021, 278, 116827. | 7.5 | 90 |
| 33 | Distribution and bioconcentration of heavy metals in a tropical aquatic food web: A case study of a tropical estuarine lagoon in SE Mexico. Environmental Pollution, 2016, 210, 155-165. | 7.5 | 89 |
| 34 | Effect of different polymers of microplastics on soil organic carbon and nitrogen â€“ A mesocosm experiment. Environmental Research, 2022, 204, 111938. | 7.5 | 83 |
| 35 | Short-term transport of glyphosate with erosion in Chinese loess soil â€” A flume experiment. Science of the Total Environment, 2015, 512-513, 406-414. | 8.0 | 81 |
| 36 | Factors affecting pesticide safety behaviour: The perceptions of Nepalese farmers and retailers. Science of the Total Environment, 2018, 631-632, 1560-1571. | 8.0 | 79 |

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|---|---|---|---|
| 37 | An improved method for calculating slope length (Î») and the LS parameters of the Revised Universal Soil Loss Equation for large watersheds. Geoderma, 2017, 308, 36-45. | 5.1 | 78 |
| 38 | Vegetable farmersâ€™ behaviour and knowledge related to pesticide use and related health problems: A case study from Bangladesh. Journal of Cleaner Production, 2018, 200, 122-133. | 9.3 | 78 |
| 39 | Review of microplastic sources, transport pathways and correlations with other soil stressors: a journey from agricultural sites into the environment. Chemical and Biological Technologies in Agriculture, 2022, 9, . | 4.6 | 69 |
| 40 | Glyphosate and AMPA distribution in wind-eroded sediment derived from loess soil. Environmental Pollution, 2017, 220, 1079-1089. | 7.5 | 67 |
| 41 | Sources of Light Density Microplastic Related to Two Agricultural Practices: The Use of Compost and Plastic Mulch. Environments - MDPI, 2021, 8, 36. | 3.3 | 57 |
| 42 | Soil and Water Pollution in a Banana Production Region in Tropical Mexico. Bulletin of Environmental Contamination and Toxicology, 2010, 85, 407-413. | 2.7 | 52 |
| 43 | Factors Affecting Domestic Water Consumption in Rural Households upon Access to Improved Water Supply: Insights from the Wei River Basin, China. PLoS ONE, 2013, 8, e71977. | 2.5 | 52 |
| 44 | Biogenic transport of glyphosate in the presence of LDPE microplastics: A mesocosm experiment. Environmental Pollution, 2019, 245, 829-835. | 7.5 | 51 |
| 45 | Mulching as a strategy to improve soil properties and reduce soil erodibility in coffee farming systems of Rwanda. Catena, 2017, 149, 43-51. | 5.0 | 47 |
| 46 | Decay characteristics and erosion-related transport of glyphosate in Chinese loess soil under field conditions. Science of the Total Environment, 2015, 530-531, 87-95. | 8.0 | 46 |
| 47 | Effect of fire frequency on runoff, soil erosion, and loss of organic matter at the micro-plot scale in north-central Portugal. Geoderma, 2016, 269, 126-137. | 5.1 | 45 |
| 48 | Domestic Water Consumption under Intermittent and Continuous Modes of Water Supply. Water Resources Management, 2014, 28, 853-865. | 3.9 | 44 |
| 49 | Dynamics of glyphosate and AMPA in the soil surface layer of glyphosate-resistant crop cultivations in the loess Pampas of Argentina. Environmental Pollution, 2019, 244, 323-331. | 7.5 | 44 |
| 50 | Assessing the effect of water harvesting techniques on event-based hydrological responses and sediment yield at a catchment scale in northern Ethiopia using the Limburg Soil Erosion Model (LISEM). Catena, 2017, 159, 20-34. | 5.0 | 43 |
| 51 | Water use patterns and conservation in households of Wei River Basin, China. Resources, Conservation and Recycling, 2013, 74, 45-53. | 10.8 | 41 |
| 52 | Ecological risk assessment of pesticide residues in soils from vegetable production areas: A case study in S-Nepal. Science of the Total Environment, 2021, 788, 147921. | 8.0 | 41 |
| 53 | Assessment of promising agricultural management practices. Science of the Total Environment, 2019, 649, 610-619. | 8.0 | 38 |
| 54 | Effect of In Situ Water Harvesting Techniques on Soil and Nutrient Losses in Semiâ€Arid Northern Ethiopia. Land Degradation and Development, 2017, 28, 1016-1027. | 3.9 | 36 |

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|---|---|---|---|
| 55 | Effects of plastic mulching on the accumulation and distribution of macro and micro plastics in soils of two farming systems in Northwest China. PeerJ, 2020, 8, e10375. | 2.0 | 36 |
| 56 | Effects of elevated CO 2 and drought on the microbial biomass and enzymatic activities in the rhizospheres of two grass species in Chinese loess soil. Geoderma, 2017, 286, 25-34. | 5.1 | 34 |
| 57 | Is the Polylactic Acid Fiber in Green Compost a Risk for Lumbricus terrestris and Triticum aestivum?. Polymers, 2021, 13, 703. | 4.5 | 34 |
| 58 | A decision support approach for the selection and implementation of water harvesting techniques in arid and semi-arid regions. Agricultural Water Management, 2016, 173, 35-47. | 5.6 | 33 |
| 59 | An integrated algorithm to evaluate flow direction and flow accumulation in flat regions of hydrologically corrected DEMs. Catena, 2017, 151, 174-181. | 5.0 | 33 |
| 60 | GIS-Based Multi-Criteria Analysis for Arabica Coffee Expansion in Rwanda. PLoS ONE, 2014, 9, e107449. | 2.5 | 32 |
| 61 | Silver nanoparticles in soil: Aqueous extraction combined with single-particle ICP-MS for detection and characterization. Environmental Nanotechnology, Monitoring and Management, 2017, 7, 24-33. | 2.9 | 31 |
| 62 | Pollutants in drainage channels following longâ€term application of Mancozeb to banana plantations in southeastern Mexico. Journal of Plant Nutrition and Soil Science, 2008, 171, 597-604. | 1.9 | 29 |
| 63 | Environmental and human health at risk â€“ Scenarios to achieve the Farm to Fork 50% pesticide reduction goals. Environment International, 2022, 165, 107296. | 10.0 | 29 |
| 64 | Effects of fire occurrence and recurrence on nitrogen and phosphorus losses by overland flow in maritime pine plantations in north-central Portugal. Geoderma, 2017, 289, 97-106. | 5.1 | 26 |
| 65 | Tracking the Transport of Silver Nanoparticles in Soil: a Saturated Column Experiment. Water, Air, and Soil Pollution, 2018, 229, 334. | 2.4 | 25 |
| 66 | Effect of Integrated Water-Nutrient Management Strategies on Soil Erosion Mediated Nutrient Loss and Crop Productivity in Cabo Verde Drylands. PLoS ONE, 2015, 10, e0134244. | 2.5 | 22 |
| 67 | Spatial glyphosate and AMPA redistribution on the soil surface driven by sediment transport processes â€“ A flume experiment. Environmental Pollution, 2018, 234, 1011-1020. | 7.5 | 20 |
| 68 | Investigation of the 2018 Shiraz dust event: Potential sources of metals, rare earth elements, and radionuclides; health assessment. Chemosphere, 2021, 279, 130533. | 8.2 | 20 |
| 69 | Visual assessment of the impact of agricultural management practices on soil quality. Agronomy Journal, 2020, 112, 2608-2623. | 1.8 | 19 |
| 70 | Plastic mulch film residues in agriculture: impact on soil suppressiveness, plant growth, and microbial communities. FEMS Microbiology Ecology, 2022, 98, . | 2.7 | 18 |
| 71 | Effect of Vermicompost on the Growth and Production Of Amashito Pepper, Interactions with Earthworms and Rhizobacteria. Compost Science and Utilization, 2010, 18, 282-288. | 1.2 | 17 |
| 72 | Limits to the bioindication potential of Collembola in environmental impact analysis: a case study of forest soil-liming and fertilization. Biology and Fertility of Soils, 2004, 39, 383-390. | 4.3 | 16 |

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| 73 | Effects of different land use on soil chemical properties, decomposition rate and earthworm communities in tropical Mexico. Pedobiologia, 2009, 53, 75-86. | 1.2 | 16 |
| 74 | Assessing the impact of human interventions on floods and low flows in the Wei River Basin in China using the LISFLOOD model. Science of the Total Environment, 2019, 653, 1077-1094. | 8.0 | 16 |
| 75 | A laboratory comparison of the interactions between three plastic mulch types and 38 active substances found in pesticides. PeerJ, 2020, 8, e9876. | 2.0 | 15 |
| 76 | Pesticide screening and health risk assessment of residential dust in a rural region of the North China Plain. Chemosphere, 2022, 303, 135115. | 8.2 | 15 |
| 77 | Temporal predictability of soil microarthropod communities in temperate forests. Pedobiologia, 2005, 49, 41-50. | 1.2 | 14 |
| 78 | Integration of transport concepts for risk assessment of pesticide erosion. Science of the Total Environment, 2016, 551-552, 563-570. | 8.0 | 14 |
| 79 | Effects of microplastics and earthworm burrows on soil macropore water flow within a laboratory soil column setup. Vadose Zone Journal, 2020, 19, e20059. | 2.2 | 14 |
| 80 | Improving on-site water availability by combining in-situ water harvesting techniques in semi-arid Northern Ethiopia. Agricultural Water Management, 2017, 193, 153-162. | 5.6 | 13 |
| 81 | Towards an ecological index for tropical soil quality based on soil macrofauna. Pesquisa Agropecuaria Brasileira, 2009, 44, 1056-1062. | 0.9 | 12 |
| 82 | Developing generalized parameters for post-fire erosion risk assessment using the revised Morgan-Morgan-Finney model: A test for north-central Portuguese pine stands. Catena, 2018, 165, 358-368. | 5.0 | 12 |
| 83 | Pesticide usage practices and the exposure risk to pollinators: A case study in the North China Plain. Ecotoxicology and Environmental Safety, 2022, 241, 113713. | 6.0 | 11 |
| 84 | Indicators of environmentally sound land use in the humid tropics: The potential roles of expert opinion, knowledge engineering and knowledge discovery. Ecological Indicators, 2010, 10, 320-329. | 6.3 | 10 |
| 85 | Water quality under intensive banana production and extensive pastureland in tropical Mexico. Journal of Plant Nutrition and Soil Science, 2012, 175, 553-559. | 1.9 | 10 |
| 86 | Mulching effects on soil nutrient levels and yield in coffee farming systems in Rwanda. Soil Use and Management, 2020, 36, 58-70. | 4.9 | 10 |
| 87 | Formation and decay of ethylenethiourea (ETU) in soil and water under tropical conditions. Journal of Plant Nutrition and Soil Science, 2013, 176, 40-46. | 1.9 | 9 |
| 88 | Transport of silver nanoparticles by runoff and erosion â€“ A flume experiment. Science of the Total Environment, 2017, 601-602, 1418-1426. | 8.0 | 9 |
| 89 | Microplastics in Soil Ecosystem: Insight on Its Fate and Impacts on Soil Quality. Handbook of Environmental Chemistry, 2020, , 245-258. | 0.4 | 9 |
| 90 | Collection of human and environmental data on pesticide use in Europe and Argentina: Field study protocol for the SPRINT project. PLoS ONE, 2021, 16, e0259748. | 2.5 | 9 |

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|---|---|---|---|
| 91 | The short-term effectiveness of surfactant seed coating and mulching treatment in reducing post-fire runoff and erosion. Geoderma, 2017, 307, 231-237. | 5.1 | 8 |
| 92 | An integrated method for calculating DEM-based RUSLE LS. Earth Science Informatics, 2018, 11, 579-590. | 3.2 | 7 |
| 93 | A Multi-Criteria Index for Ecological Evaluation of Tropical Agriculture in Southeastern Mexico. PLoS ONE, 2014, 9, e112493. | 2.5 | 7 |
| 94 | Parks and Recreational Areas as Sinks of Plastic Debris in Urban Sites: The Case of Light-Density Microplastics in the City of Amsterdam, The Netherlands. Environments - MDPI, 2022, 9, 5. | 3.3 | 7 |
| 95 | Morphospecies Abundance of Above-Ground Invertebrates in Agricultural Systems under Glyphosate and Microplastics in South-Eastern Mexico. Environments - MDPI, 2021, 8, 130. | 3.3 | 6 |
| 96 | Pesticides are Substantially Transported in Particulate Phase, Driven by Land use, Rainfall Event and Pesticide Characteristicsâ€"A Runoff and Erosion Study in a Small Agricultural Catchment. Frontiers in Environmental Science, 2022, 10, . | 3.3 | 5 |
| 97 | An optimized method for extracting slope length in RUSLE from raster digital elevation. Catena, 2022, 209, 105818. | 5.0 | 4 |
| 98 | Effects of chloropicrin fumigation and azoxystrobin application on ginger growth and phosphorus uptake. Ecotoxicology and Environmental Safety, 2022, 232, 113246. | 6.0 | 4 |
| 99 | Assessing the Biophysical Impact and Financial Viability of Soil Management Technologies Under Variable Climate in Cabo Verde Drylands: The PESERAâ€DESMICE Approach. Land Degradation and Development, 2016, 27, 1679-1690. | 3.9 | 3 |
| 100 | Variations of soil phosphatase activity and phosphorus fractions in ginger fields exposed to different years of chloropicrin fumigation. Journal of Soils and Sediments, 0, , 1. | 3.0 | 3 |
| 101 | Promising Agricultural Management Practices and Soil Threats in Europe and China. Innovations in Landscape Research, 2021, , 195-213. | 0.4 | 0 |