

# A Stuart Grandy

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3934648/publications.pdf>

Version: 2024-02-01

41  
papers

5,015  
citations

159585

30  
h-index

276875

41  
g-index

43  
all docs

43  
docs citations

43  
times ranked

5559  
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct evidence for microbial-derived soil organic matter formation and its ecophysiological controls. <i>Nature Communications</i> , 2016, 7, 13630.	12.8	954
2	Molecular C dynamics downstream: The biochemical decomposition sequence and its impact on soil organic matter structure and function. <i>Science of the Total Environment</i> , 2008, 404, 297-307.	8.0	467
3	Land-Use Intensity Effects on Soil Organic Carbon Accumulation Rates and Mechanisms. <i>Ecosystems</i> , 2007, 10, 59-74.	3.4	325
4	The origin of litter chemical complexity during decomposition. <i>Ecology Letters</i> , 2012, 15, 1180-1188.	6.4	316
5	Roots and fungi accelerate carbon and nitrogen cycling in forests exposed to elevated CO <sub>2</sub> . <i>Ecology Letters</i> , 2012, 15, 1042-1049.	6.4	251
6	Microbial carbon use efficiency: accounting for population, community, and ecosystem-scale controls over the fate of metabolized organic matter. <i>Biogeochemistry</i> , 2016, 127, 173-188.	3.5	249
7	Controls over soil microbial biomass responses to carbon amendments in agricultural systems: A meta-analysis. <i>Agriculture, Ecosystems and Environment</i> , 2011, 144, 241-252.	5.3	225
8	Minerals in the rhizosphere: overlooked mediators of soil nitrogen availability to plants and microbes. <i>Biogeochemistry</i> , 2018, 139, 103-122.	3.5	203
9	Addressing agricultural nitrogen losses in a changing climate. <i>Nature Sustainability</i> , 2018, 1, 399-408.	23.7	175
10	The influence of microbial communities, management, and soil texture on soil organic matter chemistry. <i>Geoderma</i> , 2009, 150, 278-286.	5.1	163
11	Organic Amendment and Rotation Crop Effects on the Recovery of Soil Organic Matter and Aggregation in Potato Cropping Systems. <i>Soil Science Society of America Journal</i> , 2002, 66, 1311-1319.	2.2	133
12	Nitrogen deposition effects on soil organic matter chemistry are linked to variation in enzymes, ecosystems and size fractions. <i>Biogeochemistry</i> , 2008, 91, 37-49.	3.5	116
13	Beyond microbes: Are fauna the next frontier in soil biogeochemical models?. <i>Soil Biology and Biochemistry</i> , 2016, 102, 40-44.	8.8	107
14	Carbon structure and enzyme activities in alpine and forest ecosystems. <i>Soil Biology and Biochemistry</i> , 2007, 39, 2701-2711.	8.8	106
15	Initial cultivation of a temperate-region soil immediately accelerates aggregate turnover and CO <sub>2</sub> and N <sub>2</sub> O fluxes. <i>Global Change Biology</i> , 2006, 12, 1507-1520.	9.5	92
16	Fast-decaying plant litter enhances soil carbon in temperate forests but not through microbial physiological traits. <i>Nature Communications</i> , 2022, 13, 1229.	12.8	92
17	Managing Agroecosystems for Soil Microbial Carbon Use Efficiency: Ecological Unknowns, Potential Outcomes, and a Path Forward. <i>Frontiers in Microbiology</i> , 2019, 10, 1146.	3.5	89
18	Changes in substrate availability drive carbon cycle response to chronic warming. <i>Soil Biology and Biochemistry</i> , 2017, 110, 68-78.	8.8	73

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19	Priming mechanisms providing plants and microbes access to mineral-associated organic matter. <i>Soil Biology and Biochemistry</i> , 2021, 158, 108265.	8.8	71
20	The oribatid mite <i>Scheloribates moestus</i> (Acari: Oribatida) alters litter chemistry and nutrient cycling during decomposition. <i>Soil Biology and Biochemistry</i> , 2011, 43, 351-358.	8.8	70
21	Rapid and distinct responses of particulate and mineral-associated organic nitrogen to conservation tillage and cover crops. <i>Geoderma</i> , 2020, 359, 114001.	5.1	66
22	A holistic framework integrating plant-microbe-mineral regulation of soil bioavailable nitrogen. <i>Biogeochemistry</i> , 2021, 154, 211-229.	3.5	63
23	Soil carbon cycling proxies: Understanding their critical role in predicting climate change feedbacks. <i>Global Change Biology</i> , 2018, 24, 895-905.	9.5	61
24	Manganese limitation as a mechanism for reduced decomposition in soils under atmospheric nitrogen deposition. <i>Soil Biology and Biochemistry</i> , 2018, 127, 252-263.	8.8	60
25	Interactions between leaf litter quality, particle size, and microbial community during the earliest stage of decay. <i>Biogeochemistry</i> , 2014, 117, 153-168.	3.5	59
26	Management intensity alters decomposition via biological pathways. <i>Biogeochemistry</i> , 2011, 104, 365-379.	3.5	58
27	Anthropogenic N deposition alters soil organic matter biochemistry and microbial communities on decaying fine roots. <i>Global Change Biology</i> , 2019, 25, 4369-4382.	9.5	40
28	Warming alters fungal communities and litter chemistry with implications for soil carbon stocks. <i>Soil Biology and Biochemistry</i> , 2019, 132, 120-130.	8.8	36
29	Stoichiometrically coupled carbon and nitrogen cycling in the Microbial-Mineral Carbon Stabilization model version 1.0 (MIMICS-CN v1.0). <i>Geoscientific Model Development</i> , 2020, 13, 4413-4434.	3.6	35
30	Assessing microbial residues in soil as a potential carbon sink and moderator of carbon use efficiency. <i>Biogeochemistry</i> , 2020, 151, 237-249.	3.5	33
31	Nitrogen alters microbial enzyme dynamics but not lignin chemistry during maize decomposition. <i>Biogeochemistry</i> , 2016, 128, 171-186.	3.5	31
32	Management intensity interacts with litter chemistry and climate to drive temporal patterns in arthropod communities during decomposition. <i>Pedobiologia</i> , 2013, 56, 105-112.	1.2	30
33	Going with the flow: Landscape position drives differences in microbial biomass and activity in conventional, low input, and organic agricultural systems in the Midwestern U.S.. <i>Agriculture, Ecosystems and Environment</i> , 2016, 218, 1-10.	5.3	29
34	Increasing the spatial and temporal impact of ecological research: A roadmap for integrating a novel terrestrial process into an Earth system model. <i>Global Change Biology</i> , 2022, 28, 665-684.	9.5	27
35	Reconciling opposing soil processes in row-crop agroecosystems via soil functional zone management. <i>Agriculture, Ecosystems and Environment</i> , 2017, 236, 99-107.	5.3	23
36	Soil organic carbon is not just for soil scientists: measurement recommendations for diverse practitioners. <i>Ecological Applications</i> , 2021, 31, e02290.	3.8	18

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37	SoDaH: the SOils DAta Harmonization database, an open-source synthesis of soil data from research networks, version 1.0. <i>Earth System Science Data</i> , 2021, 13, 1843-1854.	9.9	17
38	Fungal community response to long-term soil warming with potential implications for soil carbon dynamics. <i>Ecosphere</i> , 2021, 12, e03460.	2.2	17
39	Crop rotational complexity affects plant-soil nitrogen cycling during water deficit. <i>Soil Biology and Biochemistry</i> , 2022, 166, 108552.	8.8	15
40	Microbial feedbacks on soil organic matter dynamics underlying the legacy effect of diversified cropping systems. <i>Soil Biology and Biochemistry</i> , 2022, 167, 108584.	8.8	14
41	Saving our soils. <i>Frontiers in Ecology and the Environment</i> , 2010, 8, 171-171.	4.0	3