

# Michel A Cavigelli

## List of Publications by Year in descending order

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Version: 2024-02-01

54  
papers

2,888  
citations

257450

24  
h-index

175258

52  
g-index

57  
all docs

57  
docs citations

57  
times ranked

3397  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of Digital Photography from Model Aircraft for Remote Sensing of Crop Biomass and Nitrogen Status. <i>Precision Agriculture</i> , 2005, 6, 359-378.	6.0	391
2	THE FUNCTIONAL SIGNIFICANCE OF DENITRIFIER COMMUNITY COMPOSITION IN A TERRESTRIAL ECOSYSTEM. <i>Ecology</i> , 2000, 81, 1402-1414.	3.2	329
3	Challenges and opportunities for mitigating nitrous oxide emissions from fertilized cropping systems. <i>Frontiers in Ecology and the Environment</i> , 2012, 10, 562-570.	4.0	220
4	Long-Term Evidence Shows that Crop-Rotation Diversification Increases Agricultural Resilience to Adverse Growing Conditions in North America. <i>One Earth</i> , 2020, 2, 284-293.	6.8	219
5	Long-Term Agronomic Performance of Organic and Conventional Field Crops in the Mid-Atlantic Region. <i>Agronomy Journal</i> , 2008, 100, 785-794.	1.8	135
6	Weed Seedbank Dynamics in Three Organic Farming Crop Rotations. <i>Agronomy Journal</i> , 2004, 96, 1429-1435.	1.8	128
7	Phosphorus Bioavailability following Incorporation of Green Manure Crops. <i>Soil Science Society of America Journal</i> , 2003, 67, 1186-1194.	2.2	100
8	Novel Slow-Release Nanocomposite Nitrogen Fertilizers: The Impact of Polymers on Nanocomposite Properties and Function. <i>Industrial &amp; Engineering Chemistry Research</i> , 2015, 54, 3717-3725.	3.7	92
9	Mineralizable soil nitrogen and labile soil organic matter in diverse long-term cropping systems. <i>Nutrient Cycling in Agroecosystems</i> , 2011, 90, 253-266.	2.2	90
10	SOIL PHYSICAL PROPERTIES AND AGGREGATE-ASSOCIATED C, N, AND P DISTRIBUTIONS IN ORGANIC AND CONVENTIONAL CROPPING SYSTEMS. <i>Soil Science</i> , 2005, 170, 822-831.	0.9	79
11	Community composition and population genetics of insect pathogenic fungi in the genus <i>Metarhizium</i> from soils of a long-term agricultural research system. <i>Environmental Microbiology</i> , 2015, 17, 2791-2804.	3.8	75
12	Manuresheds: Advancing nutrient recycling in US agriculture. <i>Agricultural Systems</i> , 2020, 182, 102813.	6.1	75
13	Legume Proportion, Poultry Litter, and Tillage Effects on Cover Crop Decomposition. <i>Agronomy Journal</i> , 2015, 107, 2083-2096.	1.8	74
14	Biomass and Nitrogen Content of Hairy Vetch-Cereal Rye Cover Crop Mixtures as Influenced by Species Proportions. <i>Agronomy Journal</i> , 2015, 107, 2069-2082.	1.8	71
15	US agricultural nitrous oxide emissions: context, status, and trends. <i>Frontiers in Ecology and the Environment</i> , 2012, 10, 537-546.	4.0	70
16	Reduced-Tillage Organic Corn Production in a Hairy Vetch Cover Crop. <i>Agronomy Journal</i> , 2012, 104, 621-628.	1.8	47
17	Winter cover crops increase readily decomposable soil carbon, but compost drives total soil carbon during eight years of intensive, organic vegetable production in California. <i>PLoS ONE</i> , 2020, 15, e0228677.	2.5	47
18	Long-term economic performance of organic and conventional field crops in the mid-Atlantic region. <i>Renewable Agriculture and Food Systems</i> , 2009, 24, 102-119.	1.8	45

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19	Denitrifier abundance and community composition linked to denitrification activity in an agricultural and wetland soil. <i>Applied Soil Ecology</i> , 2020, 151, 103521.	4.3	44
20	Suitability of Composts as Potting Media for Production of Organic Vegetable Transplants. <i>Compost Science and Utilization</i> , 2005, 13, 150-155.	1.2	41
21	Meteorological fluctuations define long-term crop yield patterns in conventional and organic production systems. <i>Scientific Reports</i> , 2017, 7, 688.	3.3	37
22	Energy use and greenhouse gas emissions in organic and conventional grain crop production: Accounting for nutrient inflows. <i>Agricultural Systems</i> , 2018, 162, 89-96.	6.1	37
23	Oil-based polyurethane-coated urea reduces nitrous oxide emissions in a corn field in a Maryland loamy sand soil. <i>Journal of Cleaner Production</i> , 2020, 249, 119329.	9.3	29
24	Weed Seed Persistence and Microbial Abundance in Long-Term Organic and Conventional Cropping Systems. <i>Weed Science</i> , 2011, 59, 202-209.	1.5	28
25	Green and animal manure use in organic field crop systems. <i>Agronomy Journal</i> , 2020, 112, 648-674.	1.8	28
26	Cropping system history and crop rotation phase drive the abundance of soil denitrification genes nirK, nirS and nosZ in conventional and organic grain agroecosystems. <i>Agriculture, Ecosystems and Environment</i> , 2019, 273, 95-106.	5.3	27
27	Ground Beetle (Coleoptera: Carabidae) Assemblages in Organic, No-Till, and Chisel-Till Cropping Systems in Maryland. <i>Environmental Entomology</i> , 2006, 35, 1304-1312.	1.4	25
28	PHOSPHORUS FRACTIONS AND DYNAMICS AMONG SOIL AGGREGATE SIZE CLASSES OF ORGANIC AND CONVENTIONAL CROPPING SYSTEMS. <i>Soil Science</i> , 2006, 171, 874-885.	0.9	24
29	Nitrogen Competition between Corn and Weeds in Soils under Organic and Conventional Management. <i>Weed Science</i> , 2015, 63, 461-476.	1.5	24
30	Climate stabilization wedges revisited: can agricultural production and greenhouse gas reduction goals be accomplished?. <i>Frontiers in Ecology and the Environment</i> , 2012, 10, 571-578.	4.0	19
31	Nutrient Cycling in Organic Field Crops in Canada and the United States. <i>Agronomy Journal</i> , 2019, 111, 2769-2785.	1.8	18
32	Nitrous oxide emissions increase exponentially with organic N rate from cover crops and applied poultry litter. <i>Agriculture, Ecosystems and Environment</i> , 2019, 272, 165-174.	5.3	18
33	Economic Performance of Long-term Organic and Conventional Crop Rotations in the Mid-Atlantic. <i>Agronomy Journal</i> , 2019, 111, 1358-1370.	1.8	17
34	Soil microbial community characteristics along an elevation gradient in the Laguna Mountains of Southern California. <i>Soil Biology and Biochemistry</i> , 2003, 35, 1027-1037.	8.8	16
35	Changes in Soil Organic Carbon and Nitrogen Fractions with Duration of No-tillage Management. <i>Soil Science Society of America Journal</i> , 2012, 76, 1624-1633.	2.2	15
36	Can conservation tillage reduce N <sub>2</sub> O emissions on cropland transitioning to organic vegetable production?. <i>Science of the Total Environment</i> , 2018, 618, 927-940.	8.0	15

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37	Poultry manures management: Opportunities and challenges for a vertically integrated industry. <i>Journal of Environmental Quality</i> , 2022, 51, 540-551.	2.0	15
38	Influence of Residue and Nitrogen Fertilizer Additions on Carbon Mineralization in Soils with Different Texture and Cropping Histories. <i>PLoS ONE</i> , 2014, 9, e103720.	2.5	14
39	Cover Crop and Poultry Litter Management Influence Spatiotemporal Availability of Topsoil Nitrogen. <i>Soil Science Society of America Journal</i> , 2015, 79, 1660-1673.	2.2	14
40	Meteorological and Management Factors Influencing Weed Abundance during 18 Years of Organic Crop Rotations. <i>Weed Science</i> , 2018, 66, 477-484.	1.5	11
41	Spatial patterns of microbial denitrification genes change in response to poultry litter placement and cover crop species in an agricultural soil. <i>Biology and Fertility of Soils</i> , 2018, 54, 769-781.	4.3	11
42	Increasing Crop Rotation Diversity Improves Agronomic, Economic, and Environmental Performance of Organic Grain Cropping Systems at the USDA-ARS Beltsville Farming Systems Project. <i>Crop Management</i> , 2013, 12, 1-4.	0.3	11
43	Biochar impacts on nutrient dynamics in a subtropical grassland soil: 2. Greenhouse gas emissions. <i>Journal of Environmental Quality</i> , 2020, 49, 1421-1434.	2.0	10
44	Biochar impacts on nutrient dynamics in a subtropical grassland soil: 1. Nitrogen and phosphorus leaching. <i>Journal of Environmental Quality</i> , 2020, 49, 1408-1420.	2.0	9
45	Legume Cover Crops Reduce Poultry Litter Application Requirements in Organic Systems. <i>Agronomy Journal</i> , 2019, 111, 2361-2369.	1.8	8
46	Can Agricultural Management Induced Changes in Soil Organic Carbon Be Detected Using Mid-Infrared Spectroscopy?. <i>Remote Sensing</i> , 2021, 13, 2265.	4.0	8
47	Legumes and nutrient management improve phosphorus and potassium balances in long-term crop rotations. <i>Agronomy Journal</i> , 2021, 113, 2681-2697.	1.8	6
48	Weed species and traits associated with organic grain crop rotations in the mid-Atlantic region. <i>Weed Science</i> , 2019, 67, 595-604.	1.5	5
49	A Novel Approach to Estimating Nitrous Oxide Emissions during Wetting Events from Single-timepoint Flux Measurements. <i>Journal of Environmental Quality</i> , 2017, 46, 247-254.	2.0	4
50	Soil microbiomes in three farming systems more affected by depth than farming system. <i>Applied Soil Ecology</i> , 2022, 173, 104396.	4.3	4
51	Winter cover crops increased nitrogen availability and efficient use during eight years of intensive organic vegetable production. <i>PLoS ONE</i> , 2022, 17, e0267757.	2.5	4
52	Microbial activity responses to water stress in agricultural soils from simple and complex crop rotations. <i>Soil</i> , 2021, 7, 547-561.	4.9	3
53	Soil carbon and nitrogen data during eight years of cover crop and compost treatments in organic vegetable production. <i>Data in Brief</i> , 2020, 33, 106481.	1.0	2
54	Care Needed in Comparisons. <i>BioScience</i> , 2006, 56, 461.	4.9	0