Upendra M Sainju

List of Publications by Year in Descending Order

121 papers	2,612 citations	29 h-index	45 g-index
129 ext. papers	3,077 ext. citations	3.2 avg, IF	5.53 L-index

#	Paper	IF	Citations
121	Soil profile carbon, nitrogen, and crop yields affected by cover crops in semiarid regions. *Nutrient Cycling in Agroecosystems*, **2022**, 122, 191	3.3	2
120	Linking soil microbial community structure to potential carbon mineralization: A continental scale assessment of reduced tillage. *Soil Biology and Biochemistry*, **2022**, 168, 108618	7.5	1
119	An evaluation of carbon indicators of soil health in long-term agricultural experiments. *Soil Biology and Biochemistry*, **2022**, 108708	7.5	3
118	Greenhouse gas emissions under winter wheat-based organic and conventional crop productions. *Soil Science Society of America Journal*, **2021**, 85, 1349-1361	2.5	2
117	Soil health indicators and crop yield in a long-term cropping system experiment. *Agronomy Journal*, **2021**, 113, 3675-3687	2.2	
116	Nitrogen use in spring wheat affected by crop diversification, management, and tillage. *Agronomy Journal*, **2021**, 113, 2437-2449	2.2	0
115	Soil carbon dioxide and methane emissions and carbon balance with crop rotation and nitrogen fertilization. *Science of the Total Environment*, **2021**, 775, 145902	10.2	4
114	Carbon dioxide flush as a soil health indicator related to soil properties and crop yields. *Soil Science Society of America Journal*, **2021**, 85, 1679-1697	2.5	2
113	Nitrogen fertilization rate and method influences water and nitrogen productivity of forage winter wheat. *Agronomy Journal*, **2021**, 113, 577-589	2.2	0
112	Cover cropping enhances soil microbial biomass and affects microbial community structure: A meta-analysis. *Geoderma*, **2021**, 381, 114696	6.7	29
111	Soil Indicators and Management Strategies for Environmental Sustainability **2021**, 127-140		
110	Crop water and nitrogen productivity in response to long-term diversified crop rotations and management systems. *Agricultural Water Management*, **2021**, 257, 107149	5.9	1
109	Soil health indicators and crop yield in response to long-term cropping sequence and nitrogen fertilization. *Applied Soil Ecology*, **2021**, 168, 104182	5	1
108	Sheep grazing to control weeds enhances soil carbon, not nitrogen. *Soil Research*, **2021**, 59, 586	1.8	0
107	Net global warming potential and greenhouse gas intensity. *Soil Science Society of America Journal*, **2020**, 84, 1393-1404	2.5	3
106	Diversified crop rotation and management system influence durum yield and quality. *Agronomy Journal*, **2020**, 112, 4407-4419	2.2	0
105	Soil water and crop water use with crop rotations and cultural practices. *Agronomy Journal*, **2020**, 112, 3306-3321	2.2	2

104	Stacked crop rotations and cultural practices for canola and flax yield and quality. *Agronomy Journal*, **2020**, 112, 2020-2032	2.2	2
103	Nitrogen Fertilization I: Impact on Crop, Soil, and Environment **2020**,		7
102	Cover crop effects on soil carbon dioxide emissions in a semiarid cropping system **2020**, 3, e20012		5
101	Reducing nitrous oxide emissions and optimizing nitrogen-use efficiency in dryland crop rotations with different nitrogen rates. *Nutrient Cycling in Agroecosystems*, **2020**, 116, 381-395	3.3	11
100	No-Till Farming Systems in North America **2020**, 587-599		1
99	Soil inorganic carbon under no-till dryland crop rotations **2020**, 3, e20073		1
98	Changes in soil chemical properties and crop yields with long-term cropping system and nitrogen fertilization **2020**, 3, e20019		3
97	Improving dryland cropping system nitrogen balance with no-tillage and nitrogen fertilization. *Journal of Plant Nutrition and Soil Science*, **2019**, 182, 374-384	2.3	4
96	Soil microbial community and carbon and nitrogen fractions responses to mulching under winter wheat. *Applied Soil Ecology*, **2019**, 139, 64-68	5	22
95	Soil Health Response of Cover Crops in Winter Wheat–Fallow System. *Agronomy Journal*, **2019**, 111, 2108-2115	2.1	24
94	Aggregate size distribution and associated carbon and nitrogen in mulched winter wheat and spring corn. *Canadian Journal of Soil Science*, **2019**, 99, 367-379	1.4	1
93	Pea Growth, Yield, and Quality in Different Crop Rotations and Cultural Practices **2019**, 2, 1-9		3
92	Soil nitrogen fractions under long-term crop rotations in the Loess Plateau of China. *Soil and Tillage Research*, **2019**, 186, 42-51	6.5	10
91	Soil carbon fractions in response to straw mulching in the Loess Plateau of China. *Biology and Fertility of Soils*, **2018**, 54, 423-436	6.1	16
90	Nitrogen balance in dryland agroecosystem in response to tillage, crop rotation, and cultural practice. *Nutrient Cycling in Agroecosystems*, **2018**, 110, 467-483	3.3	10
89	Cover Crop and Nitrogen Fertilization Influence Soil Carbon and Nitrogen Under Bioenergy Sweet Sorghum. *Agronomy Journal*, **2018**, 110, 463-471	2.2	7
88	Response of Soil Carbon Fractions and Dryland Maize Yield to Mulching. *Soil Science Society of America Journal*, **2018**, 82, 371-381	2.5	8
87	Dryland Pea Production and Water Use Responses to Tillage, Crop Rotation, and Weed Management Practice. *Agronomy Journal*, **2018**, 110, 1843-1853	2.2	8

86	Soil Carbon and Nitrogen under Bioenergy Forage Sorghum Influenced by Cover Crop and Nitrogen Fertilization **2018**, 1, 1-10		2
85	Agricultural Management Impact on Greenhouse Gas Emissions **2018**,		1
84	Dryland Corn Production and Water Use Affected by Tillage and Crop Management Intensity. *Agronomy Journal*, **2018**, 110, 2439-2446	2.2	6
83	Straw mulching increases precipitation storage rather than water use efficiency and dryland winter wheat yield. *Agricultural Water Management*, **2018**, 206, 95-101	5.9	23
82	Soil residual nitrogen under various crop rotations and cultural practices. *Journal of Plant Nutrition and Soil Science*, **2017**, 180, 187-198	2.3	10
81	Soil Carbon and Nitrogen in Response to Perennial Bioenergy Grass, Cover Crop and Nitrogen Fertilization. *Pedosphere*, **2017**, 27, 223-235	5	14
80	Root biomass, root/shoot ratio, and soil water content under perennial grasses with different nitrogen rates. *Field Crops Research*, **2017**, 210, 183-191	5.5	37
79	Soil Total Carbon and Crop Yield Affected by Crop Rotation and Cultural Practice. *Agronomy Journal* , **2017**, 109, 388-396	2.2	7
78	Soil Carbon Fractions in Response to Long-Term Crop Rotations in the Loess Plateau of China. *Soil Science Society of America Journal*, **2017**, 81, 503-513	2.5	15
77	Root and soil total carbon and nitrogen under bioenergy perennial grasses with various nitrogen rates. *Biomass and Bioenergy*, **2017**, 107, 326-334	5.3	7
76	Determination of nitrogen balance in agroecosystems. *MethodsX*, **2017**, 4, 199-208	1.9	31
75	Cover Crops for Enriching Soil Carbon and Nitrogen Under Bioenergy Sorghum. *Progress in Soil Science*, **2017**, 181-192		2
74	Soil total carbon and nitrogen and crop yields after eight years of tillage, crop rotation, and cultural practice. *Heliyon*, **2017**, 3, e00481	3.6	7
73	Nitrogen balance in response to dryland crop rotations and cultural practices. *Agriculture, Ecosystems and Environment*, **2016**, 233, 25-32	5.7	18
72	A Global Meta-Analysis on the Impact of Management Practices on Net Global Warming Potential and Greenhouse Gas Intensity from Cropland Soils. *PLoS ONE*, **2016**, 11, e0148527	3.7	52
71	Can Novel Management Practice Improve Soil and Environmental Quality and Sustain Crop Yield Simultaneously?. *PLoS ONE*, **2016**, 11, e0149005	3.7	3
70	Sheep Grazing Enhances Coarse Relative to Microbial Organic Carbon in Dryland Cropping Systems. *Sustainable Agriculture Research*, **2016**, 5, 1	1	
69	Net global warming potential and greenhouse gas intensity. *Methods of Soil Analysis*, **2016**, 1, 1393	0.7	

68	Integrating Sheep Grazing into Cereal-Based Crop Rotations: Spring Wheat Yields and Weed Communities. *Agronomy Journal*, **2015**, 107, 104-112	2.2	15
67	Soil carbon dioxide emissions in response to precipitation frequency in the Loess Plateau, China. *Applied Soil Ecology*, **2015**, 96, 288-295	5	11
66	Dryland soil chemical properties and crop yields affected by long-term tillage and cropping sequence. *SpringerPlus*, **2015**, 4, 320		20
65	Dryland Soil Carbon and Nitrogen after Thirty Years of Tillage and Cropping Sequence Combination. *Agronomy Journal*, **2015**, 107, 1822-1830	2.2	27
64	Strip Tillage and High-Efficiency Irrigation Applied to a SugarbeetBarley Rotation. *Agronomy Journal*, **2015**, 107, 1250-1258	2.2	6
63	Malt Barley Yield and Quality Affected by Irrigation, Tillage, Crop Rotation, and Nitrogen Fertilization. *Agronomy Journal*, **2015**, 107, 2107-2119	2.2	7
62	Particulate and active soil nitrogen fractions are reduced by sheep grazing in dryland cropping systems. *Nutrient Cycling in Agroecosystems*, **2014**, 99, 79-93	3.3	5
61	Net global warming potential and greenhouse gas intensity influenced by irrigation, tillage, crop rotation, and nitrogen fertilization. *Journal of Environmental Quality*, **2014**, 43, 777-88	3.4	41
60	Net Global Warming Potential and Greenhouse Gas Intensity Affected by Cropping Sequence and Nitrogen Fertilization. *Soil Science Society of America Journal*, **2014**, 78, 248-261	2.5	22
59	Soil Carbon and Crop Yields Affected by Irrigation, Tillage, Cropping System, and Nitrogen Fertilization. *Soil Science Society of America Journal*, **2014**, 78, 936-948	2.5	11
58	Cropping Sequence and Nitrogen Fertilization Impact on Surface Residue, Soil Carbon Sequestration, and Crop Yields. *Agronomy Journal*, **2014**, 106, 1231-1242	2.2	13
57	Nitrogen Dynamics Affected by Management Practices in Croplands Transitioning from Conservation Reserve Program. *Agronomy Journal*, **2014**, 106, 1677-1689	2.2	6
56	Soil-Aggregating Bacterial Community as Affected by Irrigation, Tillage, and Cropping System in the Northern Great Plains. *Soil Science*, **2014**, 179, 11-20	0.9	18
55	Aggregate-Associated Carbon and Nitrogen Affected by Residue Placement, Crop Species, and Nitrogen Fertilization. *Soil Science*, **2014**, 179, 153-165	0.9	2
54	Soil carbon and nitrogen fractions and crop yields affected by residue placement and crop types. *PLoS ONE*, **2014**, 9, e105039	3.7	15
53	Effects of Agaricus lilaceps fairy rings on soil aggregation and microbial community structure in relation to growth stimulation of western wheatgrass (Pascopyrum smithii) in Eastern Montana rangeland. *Microbial Ecology*, **2013**, 66, 120-31	4.4	23
52	Crop yields and soil organic matter responses to sheep grazing in US northern Great Plains. *Soil and Tillage Research*, **2013**, 134, 133-141	6.5	8
51	Net Greenhouse Gas Emissions Affected by Sheep Grazing in Dryland Cropping Systems. *Soil Science Society of America Journal*, **2013**, 77, 1012-1025	2.5	15

50	Irrigation System and Tillage Effects on Soil Carbon and Nitrogen Fractions. *Soil Science Society of America Journal*, **2013**, 77, 1225-1234	2.5	14
49	Integrating sheep grazing into wheatfallow systems: Crop yield and soil properties. *Field Crops Research*, **2013**, 146, 75-85	5.5	15
48	Nitrogen Fertilization Effect on Soil Water and Wheat Yield in the Chinese Loess Plateau. *Agronomy Journal*, **2013**, 105, 143-149	2.2	13
47	Dryland Malt Barley Yield and Quality Affected by Tillage, Cropping Sequence, and Nitrogen Fertilization. *Agronomy Journal*, **2013**, 105, 329-340	2.2	29
46	Tillage, Cropping Sequence, and Nitrogen Fertilization Influence Dryland Soil Nitrogen. *Agronomy Journal*, **2013**, 105, 1253-1263	2.2	17
45	Comparison of soil carbon dioxide flux measurements by static and portable chambers in various management practices. *Soil and Tillage Research*, **2012**, 118, 123-131	6.5	15
44	Dryland soil nitrogen cycling influenced by tillage, crop rotation, and cultural practice. *Nutrient Cycling in Agroecosystems*, **2012**, 93, 309-322	3.3	22
43	Agricultural Management and Soil Carbon Dynamics **2012**, 59-77		3
42	Soil greenhouse gas emissions affected by irrigation, tillage, crop rotation, and nitrogen fertilization. *Journal of Environmental Quality*, **2012**, 41, 1774-86	3.4	64
41	Dryland Soil Greenhouse Gas Emissions Affected by Cropping Sequence and Nitrogen Fertilization. *Soil Science Society of America Journal*, **2012**, 76, 1741-1757	2.5	33
40	Estimation of CO2 diffusion coefficient at 0–10 cm depth in undisturbed and tilled soils. *Archives of Agronomy and Soil Science*, **2012**, 58, 1-9	2	16
39	Tillage, Crop Rotation, and Cultural Practice Effects on Dryland Soil Carbon Fractions. *Open Journal of Soil Science*, **2012**, 02, 242-255	0.8	10
38	Dryland residue and soil organic matter as influenced by tillage, crop rotation, and cultural practice. *Plant and Soil*, **2011**, 338, 27-41	4.2	32
37	Long-term tillage and cropping effects on microbiological properties associated with aggregation in a semi-arid soil. *Biology and Fertility of Soils*, **2011**, 47, 157-165	6.1	17
36	Dryland soil carbon dynamics under alfalfa and durum-forage cropping sequences. *Soil and Tillage Research*, **2011**, 113, 30-37	6.5	22
35	Sheep Grazing in a Wheatfallow System Affects Dryland Soil Properties and Grain Yield. *Soil Science Society of America Journal*, **2011**, 75, 1789-1798	2.5	14
34	Soil Nitrogen Dynamics under Dryland Alfalfa and Durumforage Cropping Sequences. *Soil Science Society of America Journal*, **2011**, 75, 669-677	2.5	17
33	Poultry Litter Application Increases Nitrogen Cycling Compared with Inorganic Nitrogen Fertilization. *Agronomy Journal*, **2010**, 102, 917-925	2.2	9

32	Dryland Soil Carbon and Nitrogen Influenced by Sheep Grazing in the Wheat–Fallow System. *Agronomy Journal*, **2010**, 102, 1553-1561	2.2	8
31	Effects of tillage on microbial populations associated to soil aggregation in dryland spring wheat system. *European Journal of Soil Biology*, **2010**, 46, 119-127	2.9	25
30	Tillage, cropping sequence, and nitrogen fertilization effects on dryland soil carbon dioxide emission and carbon content. *Journal of Environmental Quality*, **2010**, 39, 935-45	3.4	33
29	Land Use and Management Practices Impact on Plant Biomass Carbon and Soil Carbon Dioxide Emission. *Soil Science Society of America Journal*, **2010**, 74, 1613-1622	2.5	31
28	Tillage and cropping sequence impacts on nitrogen cycling in dryland farming in eastern Montana, USA. *Soil and Tillage Research*, **2009**, 103, 332-341	6.5	40
27	Long-term tillage influences on soil physical properties under dryland conditions in northeastern Montana. *Archives of Agronomy and Soil Science*, **2009**, 55, 633-640	2	10
26	Carbon and Nitrogen Fractions in Dryland Soil Aggregates Affected by Long-term Tillage and Cropping Sequence. *Soil Science Society of America Journal*, **2009**, 73, 1488-1495	2.5	49
25	Dryland Crop Yields and Soil Organic Matter as Influenced by Long-Term Tillage and Cropping Sequence. *Agronomy Journal*, **2009**, 101, 243-251	2.2	61
24	Soil carbon dioxide emission and carbon content as affected by irrigation, tillage, cropping system, and nitrogen fertilization. *Journal of Environmental Quality*, **2008**, 37, 98-106	3.4	144
23	Nitrogen Storage with Cover Crops and Nitrogen Fertilization in Tilled and Nontilled Soils. *Agronomy Journal*, **2008**, 100, AGJ2AGRONJ20070236	2.2	38
22	Tillage, cropping systems, and nitrogen fertilizer source effects on soil carbon sequestration and fractions. *Journal of Environmental Quality*, **2008**, 37, 880-8	3.4	46
21	Soil carbon and nitrogen sequestration as affected by long-term tillage, cropping systems, and nitrogen fertilizer sources. *Agriculture, Ecosystems and Environment*, **2008**, 127, 234-240	5.7	113
20	Accumulation and Crop Uptake of Soil Mineral Nitrogen as Influenced by Tillage, Cover Crops, and Nitrogen Fertilization. *Agronomy Journal*, **2007**, 99, 682-691	2.2	34
19	Long-Term Tillage and Cropping Sequence Effects on Dryland Residue and Soil Carbon Fractions. *Soil Science Society of America Journal*, **2007**, 71, 1730-1739	2.5	49
18	Dryland plant biomass and soil carbon and nitrogen fractions on transient land as influenced by tillage and crop rotation. *Soil and Tillage Research*, **2007**, 93, 452-461	6.5	29
17	Cover crop effect on soil carbon fractions under conservation tillage cotton. *Soil and Tillage Research*, **2007**, 96, 205-218	6.5	57
16	Tillage, cover crops, and nitrogen fertilization effects on soil nitrogen and cotton and sorghum yields. *European Journal of Agronomy*, **2006**, 25, 372-382	5	63
15	Carbon sequestration in dryland soils and plant residue as influenced by tillage and crop rotation. *Journal of Environmental Quality*, **2006**, 35, 1341-7	3.4	29

14	Tillage and Crop Rotation Effects on Dryland Soil and Residue Carbon and Nitrogen. *Soil Science Society of America Journal*, **2006**, 70, 668-678	2.5	53
13	CARBON AND NITROGEN POOLS IN SOIL AGGREGATES SEPARATED BY DRY AND WET SIEVING METHODS. *Soil Science*, **2006**, 171, 937-949	0.9	56
12	Carbon supply and storage in tilled and nontilled soils as influenced by cover crops and nitrogen fertilization. *Journal of Environmental Quality*, **2006**, 35, 1507-17	3.4	66
11	Biculture LegumeCereal Cover Crops for Enhanced Biomass Yield and Carbon and Nitrogen. *Agronomy Journal*, **2005**, 97, 1403-1412	2.2	106
10	Tillage, Cover Crops, and Nitrogen Fertilization Effects on Cotton and Sorghum Root Biomass, Carbon, and Nitrogen. *Agronomy Journal*, **2005**, 97, 1279-1290	2.2	62
9	Agricultural management practices to sustain crop yields and improve soil and environmental qualities. *Scientific World Journal, The*, **2003**, 3, 768-89	2.2	25
8	Soil Organic Matter and Tomato Yield following Tillage, Cover Cropping, and Nitrogen Fertilization. *Agronomy Journal*, **2002**, 94, 594-602	2.2	38
7	Tillage, Cover Crop, and Kill-Planting Date Effects on Corn Yield and Soil Nitrogen. *Agronomy Journal*, **2001**, 93, 878-886	2.2	71
6	Evaluating Hairy Vetch Residue as Nitrogen Fertilizer for Tomato in Soilless Medium. *Hortscience: A Publication of the American Society for Hortcultural Science*, **2001**, 36, 90-93	2.4	6
5	Tillage, Cover Cropping, and Nitrogen Fertilization Influence Tomato Yield and Nitrogen Uptake. *Hortscience: A Publication of the American Society for Hortcultural Science*, **2000**, 35, 217-221	2.4	11
4	Fresh Market Tomato Yield and Soil Nitrogen as Affected by Tillage, Cover Cropping, and Nitrogen Fertilization. *Hortscience: A Publication of the American Society for Hortcultural Science*, **2000**, 35, 1258-1262	2.4	12
3	Soil Nitrate-Nitrogen under Tomato following Tillage, Cover Cropping, and Nitrogen Fertilization. *Journal of Environmental Quality*, **1999**, 28, 1837-1844	3.4	22
2	Cover Crop Root Distribution and Its Effects on Soil Nitrogen Cycling. *Agronomy Journal*, **1998**, 90, 511-518	2.2	80
1	Winter Cover Crops for Sustainable Agricultural Systems: Influence on Soil Properties, Water Quality, and Crop Yields. *Hortscience: A Publication of the American Society for Hortcultural Science*, **1997**, 32, 21-28	2.4	86