Upendra M Sainju

List of Publications by Citations

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

#	Paper	IF	Citations
121	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
120	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
119	Biculture LegumeCereal Cover Crops for Enhanced Biomass Yield and Carbon and Nitrogen. *Agronomy Journal*, **2005**, 97, 1403-1412	2.2	106
118	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
117	Cover Crop Root Distribution and Its Effects on Soil Nitrogen Cycling. *Agronomy Journal*, **1998**, 90, 511-518	2.2	80
116	Tillage, Cover Crop, and Kill-Planting Date Effects on Corn Yield and Soil Nitrogen. *Agronomy Journal*, **2001**, 93, 878-886	2.2	71
115	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
114	Soil greenhouse gas emissions affected by irrigation, tillage, crop rotation, and nitrogen fertilization. *Journal of Environmental Quality*, **2012**, 41, 1774-86	3.4	64
113	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
112	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
111	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
110	Cover crop effect on soil carbon fractions under conservation tillage cotton. *Soil and Tillage Research*, **2007**, 96, 205-218	6.5	57
109	CARBON AND NITROGEN POOLS IN SOIL AGGREGATES SEPARATED BY DRY AND WET SIEVING METHODS. *Soil Science*, **2006**, 171, 937-949	0.9	56
108	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
107	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
106	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
105	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

104	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
103	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
102	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
101	Nitrogen Storage with Cover Crops and Nitrogen Fertilization in Tilled and Nontilled Soils. *Agronomy Journal*, **2008**, 100, AGJ2AGRONJ20070236	2.2	38
100	Soil Organic Matter and Tomato Yield following Tillage, Cover Cropping, and Nitrogen Fertilization. *Agronomy Journal*, **2002**, 94, 594-602	2.2	38
99	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
98	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
97	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
96	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
95	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
94	Determination of nitrogen balance in agroecosystems. *MethodsX*, **2017**, 4, 199-208	1.9	31
93	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
92	Dryland Malt Barley Yield and Quality Affected by Tillage, Cropping Sequence, and Nitrogen Fertilization. *Agronomy Journal*, **2013**, 105, 329-340	2.2	29
91	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
90	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
89	Cover cropping enhances soil microbial biomass and affects microbial community structure: A meta-analysis. *Geoderma*, **2021**, 381, 114696	6.7	29
88	Dryland Soil Carbon and Nitrogen after Thirty Years of Tillage and Cropping Sequence Combination. *Agronomy Journal*, **2015**, 107, 1822-1830	2.2	27
87	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

86	Agricultural management practices to sustain crop yields and improve soil and environmental qualities. *Scientific World Journal, The*, **2003**, 3, 768-89	2.2	25
85	Soil Health Response of Cover Crops in Winter Wheat–Fallow System. *Agronomy Journal*, **2019**, 111, 2108-2115	2.1	24
84	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
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 microbial community and carbon and nitrogen fractions responses to mulching under winter wheat. *Applied Soil Ecology*, **2019**, 139, 64-68	5	22
81	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
80	Dryland soil nitrogen cycling influenced by tillage, crop rotation, and cultural practice. *Nutrient Cycling in Agroecosystems*, **2012**, 93, 309-322	3.3	22
79	Dryland soil carbon dynamics under alfalfa and durum-forage cropping sequences. *Soil and Tillage Research*, **2011**, 113, 30-37	6.5	22
78	Soil Nitrate-Nitrogen under Tomato following Tillage, Cover Cropping, and Nitrogen Fertilization. *Journal of Environmental Quality*, **1999**, 28, 1837-1844	3.4	22
77	Dryland soil chemical properties and crop yields affected by long-term tillage and cropping sequence. *SpringerPlus*, **2015**, 4, 320		20
76	Nitrogen balance in response to dryland crop rotations and cultural practices. *Agriculture, Ecosystems and Environment*, **2016**, 233, 25-32	5.7	18
75	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
74	Tillage, Cropping Sequence, and Nitrogen Fertilization Influence Dryland Soil Nitrogen. *Agronomy Journal*, **2013**, 105, 1253-1263	2.2	17
73	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
72	Soil Nitrogen Dynamics under Dryland Alfalfa and Durum–Forage Cropping Sequences. *Soil Science Society of America Journal*, **2011**, 75, 669-677	2.5	17
71	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
70	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
69	Integrating Sheep Grazing into Cereal-Based Crop Rotations: Spring Wheat Yields and Weed Communities. *Agronomy Journal*, **2015**, 107, 104-112	2.2	15

68	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
67	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
66	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
65	Integrating sheep grazing into wheatfallow systems: Crop yield and soil properties. *Field Crops Research*, **2013**, 146, 75-85	5.5	15
64	Soil carbon and nitrogen fractions and crop yields affected by residue placement and crop types. *PLoS ONE*, **2014**, 9, e105039	3.7	15
63	Soil Carbon and Nitrogen in Response to Perennial Bioenergy Grass, Cover Crop and Nitrogen Fertilization. *Pedosphere*, **2017**, 27, 223-235	5	14
62	Irrigation System and Tillage Effects on Soil Carbon and Nitrogen Fractions. *Soil Science Society of America Journal*, **2013**, 77, 1225-1234	2.5	14
61	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
60	Cropping Sequence and Nitrogen Fertilization Impact on Surface Residue, Soil Carbon Sequestration, and Crop Yields. *Agronomy Journal*, **2014**, 106, 1231-1242	2.2	13
59	Nitrogen Fertilization Effect on Soil Water and Wheat Yield in the Chinese Loess Plateau. *Agronomy Journal*, **2013**, 105, 143-149	2.2	13
58	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
57	Soil carbon dioxide emissions in response to precipitation frequency in the Loess Plateau, China. *Applied Soil Ecology*, **2015**, 96, 288-295	5	11
56	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
55	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
54	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
53	Soil residual nitrogen under various crop rotations and cultural practices. *Journal of Plant Nutrition and Soil Science*, **2017**, 180, 187-198	2.3	10
52	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
51	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

50	Tillage, Crop Rotation, and Cultural Practice Effects on Dryland Soil Carbon Fractions. *Open Journal of Soil Science*, **2012**, 02, 242-255	0.8	10
49	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
48	Poultry Litter Application Increases Nitrogen Cycling Compared with Inorganic Nitrogen Fertilization. *Agronomy Journal*, **2010**, 102, 917-925	2.2	9
47	Response of Soil Carbon Fractions and Dryland Maize Yield to Mulching. *Soil Science Society of America Journal*, **2018**, 82, 371-381	2.5	8
46	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
45	Dryland Soil Carbon and Nitrogen Influenced by Sheep Grazing in the Wheat□allow System. *Agronomy Journal*, **2010**, 102, 1553-1561	2.2	8
44	Dryland Pea Production and Water Use Responses to Tillage, Crop Rotation, and Weed Management Practice. *Agronomy Journal*, **2018**, 110, 1843-1853	2.2	8
43	Nitrogen Fertilization I: Impact on Crop, Soil, and Environment **2020**,		7
42	Cover Crop and Nitrogen Fertilization Influence Soil Carbon and Nitrogen Under Bioenergy Sweet Sorghum. *Agronomy Journal*, **2018**, 110, 463-471	2.2	7
41	Soil Total Carbon and Crop Yield Affected by Crop Rotation and Cultural Practice. *Agronomy Journal* , **2017**, 109, 388-396	2.2	7
40	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
39	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
38	Malt Barley Yield and Quality Affected by Irrigation, Tillage, Crop Rotation, and Nitrogen Fertilization. *Agronomy Journal*, **2015**, 107, 2107-2119	2.2	7
37	Strip Tillage and High-Efficiency Irrigation Applied to a Sugarbeet□Barley Rotation. *Agronomy Journal*, **2015**, 107, 1250-1258	2.2	6
36	Nitrogen Dynamics Affected by Management Practices in Croplands Transitioning from Conservation Reserve Program. *Agronomy Journal*, **2014**, 106, 1677-1689	2.2	6
35	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
34	Dryland Corn Production and Water Use Affected by Tillage and Crop Management Intensity. *Agronomy Journal*, **2018**, 110, 2439-2446	2.2	6
33	Cover crop effects on soil carbon dioxide emissions in a semiarid cropping system **2020**, 3, e20012		5

32	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
31	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
30	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
29	Net global warming potential and greenhouse gas intensity. *Soil Science Society of America Journal*, **2020**, 84, 1393-1404	2.5	3
28	Pea Growth, Yield, and Quality in Different Crop Rotations and Cultural Practices **2019**, 2, 1-9		3
27	Agricultural Management and Soil Carbon Dynamics **2012**, 59-77		3
26	Can Novel Management Practice Improve Soil and Environmental Quality and Sustain Crop Yield Simultaneously?. *PLoS ONE*, **2016**, 11, e0149005	3.7	3
25	Changes in soil chemical properties and crop yields with long-term cropping system and nitrogen fertilization **2020**, 3, e20019		3
24	An evaluation of carbon indicators of soil health in long-term agricultural experiments. *Soil Biology and Biochemistry*, **2022**, 108708	7.5	3
23	Soil water and crop water use with crop rotations and cultural practices. *Agronomy Journal*, **2020**, 112, 3306-3321	2.2	2
22	Stacked crop rotations and cultural practices for canola and flax yield and quality. *Agronomy Journal*, **2020**, 112, 2020-2032	2.2	2
21	Cover Crops for Enriching Soil Carbon and Nitrogen Under Bioenergy Sorghum. *Progress in Soil Science*, **2017**, 181-192		2
20	Aggregate-Associated Carbon and Nitrogen Affected by Residue Placement, Crop Species, and Nitrogen Fertilization. *Soil Science*, **2014**, 179, 153-165	0.9	2
19	Soil profile carbon, nitrogen, and crop yields affected by cover crops in semiarid regions. *Nutrient Cycling in Agroecosystems*, **2022**, 122, 191	3.3	2
18	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
17	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
16	Soil Carbon and Nitrogen under Bioenergy Forage Sorghum Influenced by Cover Crop and Nitrogen Fertilization **2018**, 1, 1-10		2
15	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

14	No-Till Farming Systems in North America **2020**, 587-599		1
13	Soil inorganic carbon under no-till dryland crop rotations **2020**, 3, e20073		1
12	Agricultural Management Impact on Greenhouse Gas Emissions **2018**,		1
11	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
10	Soil health indicators and crop yield in response to long-term cropping sequence and nitrogen fertilization. *Applied Soil Ecology*, **2021**, 168, 104182	5	1
9	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
8	Diversified crop rotation and management system influence durum yield and quality. *Agronomy Journal*, **2020**, 112, 4407-4419	2.2	0
7	Nitrogen use in spring wheat affected by crop diversification, management, and tillage. *Agronomy Journal*, **2021**, 113, 2437-2449	2.2	0
6	Nitrogen fertilization rate and method influences water and nitrogen productivity of forage winter wheat. *Agronomy Journal*, **2021**, 113, 577-589	2.2	0
5	Sheep grazing to control weeds enhances soil carbon, not nitrogen. *Soil Research*, **2021**, 59, 586	1.8	0
4	Soil health indicators and crop yield in a long-term cropping system experiment. *Agronomy Journal*, **2021**, 113, 3675-3687	2.2	
3	Sheep Grazing Enhances Coarse Relative to Microbial Organic Carbon in Dryland Cropping Systems. *Sustainable Agriculture Research*, **2016**, 5, 1	1	
2	Net global warming potential and greenhouse gas intensity. *Methods of Soil Analysis*, **2016**, 1, 1393	0.7	
1	Soil Indicators and Management Strategies for Environmental Sustainability **2021**, 127-140		