Mark A Liebig

List of Publications by Year in Descending Order

149 papers	4,452 citations	36 h-index	62 g-index
157 ext. papers	5,091 ext. citations	3.4 avg, IF	5.33 L-index

#	Paper	IF	Citations
149	Perennial forages influence mineral and protein concentrations in annual wheat cropping systems. *Crop Science*, **2021**, 61, 2080-2089	2.4	2
148	Integrating beef cattle on cropland affects net global warming potential. *Nutrient Cycling in Agroecosystems*, **2021**, 120, 289	3.3	0
147	Can Agricultural Management Induced Changes in Soil Organic Carbon Be Detected Using Mid-Infrared Spectroscopy?. *Remote Sensing*, **2021**, 13, 2265	5	0
146	Biomass bales infield aggregation logistics energy for tractors and automatic bale pickers □A simulation study. *Biomass and Bioenergy*, **2021**, 144, 105915	5.3	2
145	Annual forage impacts on dryland wheat farming in the Great Plains. *Agronomy Journal*, **2021**, 113, 1-25	2.2	4
144	Soil and Plant Factors Affecting Changes in Forage Production Patterns on Mined Land 28 Yr After Reclamation. *Rangeland Ecology and Management*, **2021**, 74, 81-91	2.2	
143	Sampling Considerations and Field Evaluations for Soil Health Assessment. *Assa, Cssa and Sssa*, **2021**, 17-37	0.3	0
142	Dryland crop production and economic returns for crop residue harvest or grazing. *Agronomy Journal*, **2020**, 112, 1881-1894	2.2	0
141	Changes in soil organic carbon under perennial crops. *Global Change Biology*, **2020**, 26, 4158-4168	11.4	42
140	Comparative analysis of water budgets across the U.S. long-term agroecosystem research network. *Journal of Hydrology*, **2020**, 588, 125021	6	9
139	Forages and the Environment **2020**, 249-259		
138	Water quality of an integrated crop□ivestock system in the northern Great□Plains **2020**, 3, e20129		0
137	Evaluating the Potential of Legumes to Mitigate N2O Emissions From Permanent Grassland Using Process-Based Models. *Global Biogeochemical Cycles*, **2020**, 34, e2020GB006561	5.9	8
136	Grazing Effects on Nitrous Oxide Flux in an Integrated Crop-Livestock System. *Agriculture, Ecosystems and Environment*, **2020**, 304, 107146	5.7	4
135	Integrated crop-livestock effects on soil carbon and nitrogen in a semiarid□egion **2020**, 3, e20098		3
134	Crop diversity effects on productivity and economics: a Northern Great Plains case study. *Renewable Agriculture and Food Systems*, **2020**, 35, 69-76	1.8	6
133	Impacts of Intensified Cropping Systems on Soil Water Use by Spring Wheat. *Soil Science Society of America Journal*, **2019**, 83, 1188-1199	2.5	4

132	Hold Your Ground: Threats to Soil Function in Northern Great Plains Grazing Lands. *Rangelands*, **2019**, 41, 17-22	1.1	1
131	A global, empirical, harmonised dataset of soil organic carbon changes under perennial crops. *Scientific Data*, **2019**, 6, 57	8.2	5
130	Net Global Warming Potential of Spring Wheat Cropping Systems in a Semiarid Region. *Land*, **2019**, 8, 32	3.5	2
129	Facilitating Crop□ivestock Reintegration in the Northern Great Plains. *Agronomy Journal*, **2019**, 111, 2141-2156	2.2	15
128	Carbon use efficiency of hayed alfalfa and grass pastures in a semiarid environment. *Ecosphere*, **2018**, 9, e02147	3.1	10
127	Assessing uncertainties in crop and pasture ensemble model simulations of productivity and N O emissions. *Global Change Biology*, **2018**, 24, e603-e616	11.4	74
126	Simulated Soil Organic Carbon Responses to Crop Rotation, Tillage, and Climate Change in North Dakota. *Journal of Environmental Quality*, **2018**, 47, 654-662	3.4	5
125	Assessment of Benefits of Conservation Agriculture on Soil Functions in Arable Production Systems in Europe. *Sustainability*, **2018**, 10, 794	3.6	21
124	Evaluating strategies for sustainable intensification of US agriculture through the Long-Term Agroecosystem Research network. *Environmental Research Letters*, **2018**, 13, 034031	6.2	39
123	Effects of feeding Lespedeza cuneata pellets with Medicago sativa hay to sheep: Nutritional impact, characterization and degradation of condensed tannin during digestion. *Animal Feed Science and Technology*, **2018**, 245, 41-47	3	8
122	Integrated Crop-Livestock Systems and Water Quality in the Northern Great Plains: Review of Current Practices and Future Research Needs. *Journal of Environmental Quality*, **2018**, 47, 1-15	3.4	10
121	The use of biogeochemical models to evaluate mitigation of greenhouse gas emissions from managed grasslands. *Science of the Total Environment*, **2018**, 642, 292-306	10.2	28
120	Development and analysis of the Soil Water Infiltration Global database. *Earth System Science Data*, **2018**, 10, 1237-1263	10.5	54
119	Advancing the Sustainability of US Agriculture through Long-Term Research. *Journal of Environmental Quality*, **2018**, 47, 1412-1425	3.4	31
118	Spring Wheat Yields Following Perennial Forages in a Semiarid No-Till Cropping System. *Agronomy Journal*, **2018**, 110, 2408-2416	2.2	7
117	Near-Surface Soil Property Responses to Forage Production in a Semiarid Region. *Soil Science Society of America Journal*, **2018**, 82, 223-230	2.5	9
116	Soil Quality and Water Redistribution Influences on Plant Production over Low Hillslopes on Reclaimed Mined Land. *International Journal of Agronomy*, **2018**, 2018, 1-12	1.9	1
115	Effects of storage time and temperature on greenhouse gas samples in Exetainer vials with chlorobutyl septa caps. *MethodsX*, **2018**, 5, 857-864	1.9	8

114	Soil response to perennial herbaceous biofeedstocks under rainfed conditions in the northern Great Plains, USA. *Geoderma*, **2017**, 290, 10-18	6.7	2
113	Kentucky Bluegrass Invasion Alters Soil Carbon and Vegetation Structure on Northern Mixed-Grass Prairie of the United States. *Invasive Plant Science and Management*, **2017**, 10, 9-16	1	12
112	Integrated crop-livestock system effects on soil N, P, and pH in a semiarid region. *Geoderma*, **2017**, 289, 178-184	6.7	21
111	Aligning Land Use with Land Potential: The Role of Integrated Agriculture. *Agricultural and Environmental Letters*, **2017**, 2, 170007	1.5	19
110	Perennial Plant Establishment and Productivity Can Be Influenced by Previous Annual Crops. *Agronomy Journal*, **2017**, 109, 1423-1432	2.2	2
109	Integrated Crop-Livestock Management Effects on Soil Quality Dynamics in a Semiarid Region: A Typology of Soil Change Over Time. *Applied and Environmental Soil Science*, **2017**, 2017, 1-10	3.8	7
108	Integration of Annual and Perennial Cover Crops for Improving Soil Health **2017**, 127-150		6
107	Impacts of Crop Sequence and Tillage Management on Soil Carbon Stocks in South-Central North Dakota. *Soil Science Society of America Journal*, **2016**, 80, 1003-1010	2.5	8
106	Biomass bale stack and field outlet locations assessment for efficient infield logistics. *Biomass and Bioenergy*, **2016**, 91, 217-226	5.3	17
105	Use of Ecological Sites in Managing Wildlife and Livestock: An Example with Prairie Dogs. *Rangelands*, **2016**, 38, 23-28	1.1	2
104	MAGGnet: An international network to foster mitigation of agricultural greenhouse gases. *Carbon Management*, **2016**, 7, 243-248	3.3	4
103	A century of grazing: The value of long-term research. *Journal of Soils and Water Conservation*, **2016**, 71, 5A-8A	2.2	10
102	Reduction of soluble nitrogen and mobilization of plant nutrients in soils from U.S northern Great Plains agroecosystems by phenolic compounds. *Soil Biology and Biochemistry*, **2016**, 94, 211-221	7.5	14
101	Depth Matters: Soil pH and Dilution Effects in the Northern Great Plains. *Soil Science Society of America Journal*, **2016**, 80, 1424-1427	2.5	14
100	Soil pH and Exchangeable Cation Responses to Tillage and Fertilizer in Dryland Cropping Systems. *Communications in Soil Science and Plant Analysis*, **2016**, 47, 2396-2404	1.5	11
99	C and N models Intercomparison benchmark and ensemble model estimates for grassland production. *Advances in Animal Biosciences*, **2016**, 7, 245-247	0.3	9
98	Long-term agroecosystem research on northern Great Plains mixed-grass prairie near Mandan, North Dakota. *Canadian Journal of Plant Science*, **2015**, 95, 1101-1116	1	10
97	On-Farm Assessment of Soil Quality and Health. *SSSA Special Publication Series*, **2015**, 83-105	0	6

96	Crop Species Diversity Changes in the United States: 1978-2012. *PLoS ONE*, **2015**, 10, e0136580	3.7	98
95	Short-Term Soil Responses to Late-Seeded Cover Crops in a Semi-Arid Environment. *Agronomy Journal*, **2015**, 107, 2011-2019	2.2	30
94	Management of Dryland Cropping Systems in the U.S. Great Plains: Effects on Soil Organic Carbon. *SSSA Special Publication Series*, **2015**, 97-113	0	1
93	Dynamic crop sequencing in Western Australian cropping systems. *Crop and Pasture Science*, **2015**, 66, 594	2.2	14
92	Crop Residue Harvest Economics: An Iowa and North Dakota Case Study. *Bioenergy Research*, **2014**, 7, 568-575	3.1	6
91	Grazing Management, Season, and Drought Contributions to Near-Surface Soil Property Dynamics in Semiarid Rangeland. *Rangeland Ecology and Management*, **2014**, 67, 266-274	2.2	6
90	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
89	Crop Diversity Effects on Near-Surface Soil Condition under Dryland Agriculture. *Applied and Environmental Soil Science*, **2014**, 2014, 1-7	3.8	10
88	Soil Change Induced by Prairie Dogs across Three Ecological Sites. *Soil Science Society of America Journal*, **2014**, 78, 2054-2060	2.5	12
87	Establishment and Yield of Perennial Grass Monocultures and Binary Mixtures for Bioenergy in North Dakota. *Agronomy Journal*, **2014**, 106, 1605-1613	2.2	16
86	Tillage and Grazing Impact on Annual Crop Yields Following Conversion from Perennial Grass to Annual Crops. *Crop Management*, **2014**, 13, CM-2013-0081-RS		3
85	The Area IV Soil Conservation Districts Cooperative Research Farm: Thirty years of collaborative research to improve cropping system sustainability in the Northern Plains. *Journal of Soils and Water Conservation*, **2014**, 69, 99A-103A	2.2	2
84	Comparison of soil quality and productivity at two sites differing in profile structure and topsoil properties. *Agriculture, Ecosystems and Environment*, **2013**, 179, 53-61	5.7	22
83	Carbon dioxide efflux from long-term grazing management systems in a semiarid region. *Agriculture, Ecosystems and Environment*, **2013**, 164, 137-144	5.7	36
82	Diversification and ecosystem services for conservation agriculture: Outcomes from pastures and integrated crop□ivestock systems. *Renewable Agriculture and Food Systems*, **2013**, 28, 129-144	1.8	78
81	Diversification and ecosystem services for conservation agriculture: Outcomes from pastures and integrated crop-livestock systems □Corrigendum. *Renewable Agriculture and Food Systems*, **2013**, 28, 194-194	1.8	5
80	Introducing the GRACEnet/REAP Data Contribution, Discovery, and Retrieval System. *Journal of Environmental Quality*, **2013**, 42, 1274-80	3.4	31
79	Impacts of Organic Zero Tillage Systems on Crops, Weeds, and Soil Quality. *Sustainability*, **2013**, 5, 3172-3201	1.8	66

78	Biogenic emissions of CO2 and N2O at multiple depths increase exponentially during a simulated soil thaw for a northern prairie Mollisol. *Soil Biology and Biochemistry*, **2012**, 45, 14-22	7.5	14
77	Linkages between soil micro-site properties and CO2 and N2O emissions during a simulated thaw for a northern prairie Mollisol. *Soil Biology and Biochemistry*, **2012**, 50, 118-125	7.5	11
76	Growing season greenhouse gas flux from switchgrass in the northern great plains. *Biomass and Bioenergy*, **2012**, 45, 315-319	5.3	29
75	Agriculture and Climate Change: Mitigation Opportunities and Adaptation Imperatives **2012**, 3-11		8
74	Sequence effects among crops on alluvial-derived soil compared with those on glacial till-derived soil in the northern Great Plains, USA. *Agricultural Systems*, **2012**, 107, 1-12	6.1	7
73	Soil greenhouse gas emissions affected by irrigation, tillage, crop rotation, and nitrogen fertilization. *Journal of Environmental Quality*, **2012**, 41, 1774-86	3.4	64
72	Integrated crops and livestock in central North Dakota, USA: Agroecosystem management to buffer soil change. *Renewable Agriculture and Food Systems*, **2012**, 27, 115-124	1.8	33
71	Agricultural Greenhouse Gas Trading Markets in North America **2012**, 423-437		
70	Management to Reduce Greenhouse Gas Emissions in Western U.S. Croplands **2012**, 167-182		5
69	Greenhouse Gas Flux from Managed Grasslands in the U.S. **2012**, 183-202		2
68	Challenges and opportunities for mitigating nitrous oxide emissions from fertilized cropping systems. *Frontiers in Ecology and the Environment*, **2012**, 10, 562-570	5.5	177
67	US agricultural nitrous oxide emissions: context, status, and trends. *Frontiers in Ecology and the Environment*, **2012**, 10, 537-546	5.5	49
66	Management opportunities for enhancing terrestrial carbon dioxide sinks. *Frontiers in Ecology and the Environment*, **2012**, 10, 554-561	5.5	33
65	Field-scale soil property changes under switchgrass managed for bioenergy. *GCB Bioenergy*, **2011**, 3, 439-448	5.6	57
64	Soil Hydrological Attributes of an Integrated Crop-Livestock Agroecosystem: Increased Adaptation through Resistance to Soil Change. *Applied and Environmental Soil Science*, **2011**, 2011, 1-6	3.8	13
63	Biomass composition of perennial grasses for biofuel production in North Dakota, USA. *Biofuels*, **2011**, 2, 515-528	2	12
62	Effect of soil depth and topographic position on plant productivity and community development on 28-year-old reclaimed mine lands. *Journal of Soils and Water Conservation*, **2011**, 66, 201-211	2.2	7
61	Condensed Tannin in Drinking Water Reduces Greenhouse Gas Precursor Urea in Sheep and Cattle Urine. *Rangeland Ecology and Management*, **2011**, 64, 543-547	2.2	5

60	Fallow Effects on Soil Carbon and Greenhouse Gas Flux in Central North Dakota. *Soil Science Society of America Journal*, **2010**, 74, 358-365	2.5	57
59	Crop Sequence Influences on Sustainable Spring Wheat Production in the Northern Great Plains. *Sustainability*, **2010**, 2, 3695-3709	3.6	8
58	Response of soil carbon and nitrogen to transplanted alfalfa in North Dakota rangeland. *Canadian Journal of Soil Science*, **2010**, 90, 527-542	1.4	7
57	Evaluation of β-Glucosidase Activity as a Soil Quality Indicator for the Soil Management Assessment Framework. *Soil Science Society of America Journal*, **2010**, 74, 107-119	2.5	167
56	Grazing management contributions to net global warming potential: a long-term evaluation in the Northern Great Plains. *Journal of Environmental Quality*, **2010**, 39, 799-809	3.4	101
55	Soil carbon and nitrogen across a chronosequence of woody plant expansion in North Dakota. *Plant and Soil*, **2010**, 328, 369-379	4.2	24
54	Effects of normal and altered cattle urine on short-term greenhouse gas flux from mixed-grass prairie in the Northern Great Plains. *Agriculture, Ecosystems and Environment*, **2008**, 125, 57-64	5.7	23
53	Environment and integrated agricultural systems. *Renewable Agriculture and Food Systems*, **2008**, 23, 304-313	1.8	29
52	Soil resistance under grazed intermediate wheatgrass. *Canadian Journal of Soil Science*, **2008**, 88, 833-836	1.4	9
51	Responses of Medicago sativa and M. falcata type alfalfas to different defoliation times and grass competition. *Canadian Journal of Plant Science*, **2008**, 88, 61-69	1	7
50	Opportunities to Utilize the USDA-ARS Northern Great Plains Research Laboratory Soil Sample Archive. *Soil Science Society of America Journal*, **2008**, 72, 975-977	2.5	3
49	Soil Carbon Storage by Switchgrass Grown for Bioenergy. *Bioenergy Research*, **2008**, 1, 215-222	3.1	148
48	Crop Sequence Effects on Leaf Spot Diseases of No-Till Spring Wheat. *Agronomy Journal*, **2007**, 99, 912-920	2.2	13
47	Crop Residue Coverage of Soil Influenced by Crop Sequence in a No-Till System. *Agronomy Journal*, **2007**, 99, 921-930	2.2	13
46	Dynamic Cropping Systems: Contributions to Improve Agroecosystem Sustainability. *Agronomy Journal*, **2007**, 99, 899-903	2.2	15
45	Dynamic Cropping Systems for Sustainable Crop Production in the Northern Great Plains. *Agronomy Journal*, **2007**, 99, 904-911	2.2	39
44	Soil Water Depletion and Recharge under Ten Crop Species and Applications to the Principles of Dynamic Cropping Systems. *Agronomy Journal*, **2007**, 99, 931-938	2.2	37
43	Dynamic Cropping Systems: Increasing Adaptability Amid an Uncertain Future. *Agronomy Journal*, **2007**, 99, 939-943	2.2	45

42	Dynamic Cropping Systems: Contributions to Improve Agroecosystem Sustainability. *Agronomy Journal*, **2007**, 99, 899-903	2.2	21
41	Crop Residue Coverage of Soil Influenced by Crop Sequence in a No-Till System. *Agronomy Journal*, **2007**, 99, 921-930	2.2	2
40	Crop Sequence Effects on Leaf Spot Diseases of No-Till Spring Wheat. *Agronomy Journal*, **2007**, 99, 912-920	2.2	7
39	Dynamic Cropping Systems for Sustainable Crop Production in the Northern Great Plains. *Agronomy Journal*, **2007**, 99, 904-911	2.2	2
38	Dynamic Cropping Systems: Increasing Adaptability Amid an Uncertain Future. *Agronomy Journal*, **2007**, 99, 939-943	2.2	12
37	Soil Water Depletion and Recharge under Ten Crop Species and Applications to the Principles of Dynamic Cropping Systems. *Agronomy Journal*, **2007**, 99, 931-938	2.2	6
36	Cropping system effects on soil quality in the Great Plains: Synthesis from a regional project. *Renewable Agriculture and Food Systems*, **2006**, 21, 49-59	1.8	75
35	Cropping system effects on soil biological characteristics in the Great Plains. *Renewable Agriculture and Food Systems*, **2006**, 21, 36-48	1.8	72
34	Landscape estimation of canopy C:N ratios under variable drought stress in Northern Great Plains rangelands. *Journal of Geophysical Research*, **2006**, 111, n/a-n/a		13
33	Crop sequence effects of 10 crops in the northern Great Plains. *Agricultural Systems*, **2006**, 88, 227-254	6.1	67
32	Cropping system influences on soil chemical properties and soil quality in the Great Plains. *Renewable Agriculture and Food Systems*, **2006**, 21, 26-35	1.8	62
31	Management effects on soil CO2 efflux in northern semiarid grassland and cropland. *Soil and Tillage Research*, **2006**, 89, 78-85	6.5	79
30	Soil response to long-term grazing in the northern Great Plains of North America. *Agriculture, Ecosystems and Environment*, **2006**, 115, 270-276	5.7	70
29	An integrated approach to crop/livestock systems: Forage and grain production for swath grazing. *Renewable Agriculture and Food Systems*, **2005**, 20, 223-231	1.8	31
28	An integrated approach to crop/livestock systems: Wintering beef cows on swathed crops. *Renewable Agriculture and Food Systems*, **2005**, 20, 232-242	1.8	22
27	Soil carbon under switchgrass stands and cultivated cropland. *Biomass and Bioenergy*, **2005**, 28, 347-354	5.3	157
26	Alternate satellite models for estimation of sugar beet residue nitrogen credit. *Agriculture, Ecosystems and Environment*, **2005**, 107, 21-35	5.7	15
25	Greenhouse gas contributions and mitigation potential of agricultural practices in northwestern USA and western Canada. *Soil and Tillage Research*, **2005**, 83, 25-52	6.5	151

24	Tiller Persistence of Eight Intermediate Wheatgrass Entries Grazed at Three Morphological Stages. *Agronomy Journal*, **2005**, 97, 1390-1395	2.2	19
23	Appropriateness of Management Zones for Characterizing Spatial Variability of Soil Properties and Irrigated Corn Yields across Years. *Agronomy Journal*, **2004**, 96, 195	2.2	155
22	Biomass and Carbon Partitioning in Switchgrass. *Crop Science*, **2004**, 44, 1391-1396	2.4	176
21	Runoff, Soil Erosion, and Erodibility of Conservation Reserve Program Land under Crop and Hay Production. *Soil Science Society of America Journal*, **2004**, 68, 1332-1341	2.5	34
20	Tillage and cropping effects on soil quality indicators in the northern Great Plains. *Soil and Tillage Research*, **2004**, 78, 131-141	6.5	156
19	AEPAT. *Agronomy Journal*, **2004**, 96, 109	2.2	14
18	AEPAT. *Agronomy Journal*, **2004**, 96, 109-115	2.2	2
17	Appropriateness of Management Zones for Characterizing Spatial Variability of Soil Properties and Irrigated Corn Yields across Years. *Agronomy Journal*, **2004**, 96, 195-203	2.2	31
16	Effects of Western Corn Belt Cropping Systems on Agroecosystem Functions. *Agronomy Journal*, **2003**, 95, 316-322	2.2	3
15	Effects of Western Corn Belt Cropping Systems on Agroecosystem Functions. *Agronomy Journal*, **2003**, 95, 316	2.2	10
14	Crop Sequence and Nitrogen Fertilization Effects on Soil Properties in the Western Corn Belt. *Soil Science Society of America Journal*, **2002**, 66, 596-601	2.5	86
13	Soil organic matter assessments in a long-term cropping system study. *Communications in Soil Science and Plant Analysis*, **2002**, 33, 2119-2130	1.5	8
12	Soil carbon dioxide fluxes in northern semiarid grasslands. *Soil Biology and Biochemistry*, **2002**, 34, 1235-1241	2.4	150
11	Crop Sequence and Nitrogen Fertilization Effects on Soil Properties in the Western Corn Belt. *Soil Science Society of America Journal*, **2002**, 66, 596	2.5	29
10	A Simple Performance-Based Index for Assessing Multiple Agroecosystem Functions. *Agronomy Journal*, **2001**, 93, 313-318	2.2	120
9	Impact of Organic Production Practices on Soil Quality Indicators. *Journal of Environmental Quality*, **1999**, 28, 1601-1609	3.4	126
8	Midseason Stalk Breakage in Corn As Affected by Crop Rotation, Hybrid, and Nitrogen Fertilizer Rate. *Agronomy Journal*, **1999**, 91, 160-165	2.2	5
7	Work-a-Day Compensation in Farmer Participatory Research. *Journal of Natural Resources and Life Sciences Education*, **1999**, 28, 37-40		

6	Evaluation of farmers' perceptions of soil quality indicators. *Renewable Agriculture and Food Systems*, **1999**, 14, 11-21		22
5	Evaluation of a Field Test Kit for Measuring selected Soil Quality Indicators. *Agronomy Journal*, **1996**, 88, 683-686	2.2	44
4	Potential Soil Respiration and Relationship to Soil Properties in Ridge Tillage. *Soil Science Society of America Journal*, **1995**, 59, 1430-1435	2.5	21
3	Controlled Wheel Traffic Effects on Soil Properties in Ridge Tillage. *Soil Science Society of America Journal*, **1993**, 57, 1061-1066	2.5	32
2	Time in a bottle: Use of soil archives for understanding long-term soil change. *Soil Science Society of America Journal*,	2.5	1
1	Late-seeded cover crops in a semiarid environment: overyielding, dominance and subsequent crop yield. *Renewable Agriculture and Food Systems*,1-12	1.8	1