Craig C Sheaffer

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Weed Suppression by Annual Legume Cover Crops in Noâ€Tillage Corn. Agronomy Journal, 2001, 93, 319-325.	1.8	112
2	Associations between soil bacterial community structure and nutrient cycling functions in long-term organic farm soils following cover crop and organic fertilizer amendment. Science of the Total Environment, 2016, 566-567, 949-959.	8.0	112
3	Leaf and Stem Properties of Alfalfa Entries. Agronomy Journal, 2000, 92, 733-739.	1.8	106
4	Five Decades of Alfalfa Cultivar Improvement: Impact on Forage Yield, Persistence, and Nutritive Value. Crop Science, 2006, 46, 902-909.	1.8	105
5	Establishment and Function of Cover Crops Interseeded into Corn. Crop Science, 2018, 58, 863-873.	1.8	80
6	Intermediate Wheatgrass Grain and Forage Yield Responses to Nitrogen Fertilization. Agronomy Journal, 2017, 109, 462-472.	1.8	73
7	Structure of bacterial communities in soil following cover crop and organic fertilizer incorporation. Applied Microbiology and Biotechnology, 2016, 100, 9331-9341.	3.6	65
8	Alfalfa Leaf Protein and Stem Cell Wall Polysaccharide Yields under Hay and Biomass Management Systems. Crop Science, 2007, 47, 1407-1415.	1.8	64
9	Alfalfa Management Guide. Assa, Cssa and Sssa, 2011, , .	0.6	64
10	Accelerating <i>Silphium</i> Domestication: An Opportunity to Develop New Crop Ideotypes and Breeding Strategies Informed by Multiple Disciplines. Crop Science, 2017, 57, 1274-1284.	1.8	61
11	Yield and Quality of Forage Soybean. Agronomy Journal, 2001, 93, 99-106.	1.8	60
12	â€~MNâ€Clearwater', the first foodâ€grade intermediate wheatgrass (Kernza perennial grain) cultivar. Journal of Plant Registrations, 2020, 14, 288-297.	0.5	58
13	Population Density and Harvest Maturity Effects on Leaf and Stem Yield in Alfalfa. Agronomy Journal, 2003, 95, 635-641.	1.8	57
14	Agronomic Performance of Cropping Systems with Contrasting Crop Rotations and External Inputs. Agronomy Journal, 2011, 103, 182-192.	1.8	51
15	Native Perennial Grassland Species for Bioenergy: Establishment and Biomass Productivity. Agronomy Journal, 2011, 103, 509-519.	1.8	50
16	Forage Accumulation and Nutritive Value of Reduced Lignin and Reference Alfalfa Cultivars. Agronomy Journal, 2017, 109, 2749-2761.	1.8	48
17	Responses of Kura Clover to Sheep Grazing and Clipping: I. Yield and Forage Quality. Agronomy Journal, 1994, 86, 655-660.	1.8	47
18	Maintaining grain yields of the perennial cereal intermediate wheatgrass in monoculture <i>v.</i> bi-culture with alfalfa in the Upper Midwestern USA. Journal of Agricultural Science, 2018, 156, 758-773.	1.3	46

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19	The Effect of Landscape Position on Biomass Crop Yield. Agronomy Journal, 2010, 102, 513-522.	1.8	43
20	Annual Medics and Berseem Clover as Emergency Forages. Agronomy Journal, 1998, 90, 197-201.	1.8	39
21	Forage Nutritive Value and Preference of Coolâ€ S eason Grasses under Horse Grazing. Agronomy Journal, 2013, 105, 679-684.	1.8	37
22	Intercropping Annual Medic with Conventional Height and Semidwarf Barley Grown for Grain. Agronomy Journal, 1996, 88, 823-828.	1.8	36
23	Alfalfa Nitrogen Credit to First‥ear Corn: Potassium, Regrowth, and Tillage Timing Effects. Agronomy Journal, 2012, 104, 953-962.	1.8	36
24	The Reflective Plant Breeding Paradigm: A Robust System of Germplasm Development to Support Strategic Diversification of Agroecosystems. Crop Science, 2014, 54, 1939-1948.	1.8	35
25	Entry ✕ Environment Interactions for Alfalfa Forage Quality. Agronomy Journal, 1998, 90, 774-780.	1.8	34
26	Alfalfa Establishment with Barley and Oat Companion Crops Differing in Stature. Agronomy Journal, 1995, 87, 268-272.	1.8	32
27	Forage Legumes for Sustainable Cropping Systems. The Journal of Crop Improvement: Innovations in Practiceory and Research, 2003, 8, 187-216.	0.4	32
28	Longâ€Term Biomass Yield and Species Composition in Native Perennial Bioenergy Cropping Systems. Agronomy Journal, 2015, 107, 1627-1640.	1.8	32
29	Energy Potential of Biomass from Conservation Grasslands in Minnesota, USA. PLoS ONE, 2013, 8, e61209.	2.5	32
30	Population Density and Harvest Maturity Effects on Leaf and Stem Yield in Alfalfa. Agronomy Journal, 2003, 95, 635.	1.8	32
31	Nearâ€Infrared Reflectance Spectroscopy Prediction of Leaf and Mineral Concentrations in Alfalfa. Agronomy Journal, 2004, 96, 344-351.	1.8	32
32	Effect of Annual Medic Smother Plants on Weed Control and Yield in Corn. Agronomy Journal, 1997, 89, 813-821.	1.8	31
33	Effects of defoliation and row spacing on intermediate wheatgrass I: Grain production. Agronomy Journal, 2020, 112, 1748-1763.	1.8	31
34	Effects of defoliation and row spacing on intermediate wheatgrass II: Forage yield and economics. Agronomy Journal, 2020, 112, 1862-1880.	1.8	29
35	Economic Performance of Long-Term Organic and Conventional Cropping Systems in Minnesota. Agronomy Journal, 2011, 103, 1372-1382.	1.8	28
36	The Effect of Nitrogen, Phosphorus, and Potassium Fertilizers on Prairie Biomass Yield, Ethanol Yield, and Nutrient Harvest. Bioenergy Research, 2015, 8, 279-291.	3.9	28

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37	Harvest Date Effects on Biomass Yield, Moisture Content, Mineral Concentration, and Mineral Export in Switchgrass and Native Polycultures Managed for Bioenergy. Bioenergy Research, 2015, 8, 740-749.	3.9	26
38	Giant Ragweed (<i>Ambrosia trifida</i>) Seed Production and Retention in Soybean and Field Margins. Weed Technology, 2016, 30, 246-253.	0.9	26
39	Potassium Fertilization Affects Alfalfa Forage Yield, Nutritive Value, Root Traits, and Persistence. Agronomy Journal, 2019, 111, 2843-2852.	1.8	25
40	Stem and leaf forage nutritive value and morphology of reduced lignin alfalfa. Agronomy Journal, 2020, 112, 406-417.	1.8	25
41	Seasonal fluctuations of carbohydrate levels in roots and crowns of purple loosestrife (<i>Lythrum) Tj ETQq1</i>	1 0.784314 r 1.5	gBT_/Overloci
42	Seedbank Depletion and Emergence Patterns of Giant Ragweed (<i>Ambrosia trifida</i>) in Minnesota Cropping Systems. Weed Science, 2017, 65, 52-60.	1.5	24
43	Establishment and early productivity of perennial biomass alley cropping systems in Minnesota, USA. Agroforestry Systems, 2014, 88, 75-85.	2.0	23
44	Medic Planting Date Effect on Dry Matter and Nitrogen Accumulation When Clear‧eeded or Intercropped with Corn. Agronomy Journal, 1998, 90, 616-622.	1.8	21
45	Yield, Nutritive Value, and Preference of Annual Warmâ€ S eason Grasses Grazed by Horses. Agronomy Journal, 2017, 109, 2136-2148.	1.8	21
46	Near-Infrared Reflectance Spectroscopy Prediction of Leaf and Mineral Concentrations in Alfalfa. Agronomy Journal, 2004, 96, 344.	1.8	20
47	Preference, Yield, and Forage Nutritive Value of Annual Grasses under Horse Grazing. Agronomy Journal, 2017, 109, 1561-1572.	1.8	20
48	Dinitrogen Fixation in Kura Clover and Birdsfoot Trefoil. Agronomy Journal, 2000, 92, 1216-1220.	1.8	19
49	Effects of nitrogen fertilization and planting density on intermediate wheatgrass yield. Agronomy Journal, 2020, 112, 4159-4170.	1.8	19
50	Soybean Cultivar Response to Planting Date and Seeding Rate under Organic Management. Agronomy Journal, 2011, 103, 1223-1229.	1.8	18
51	Genetic Variation in Three Native Plant Species across the State of Minnesota. Crop Science, 2007, 47, 2379-2389.	1.8	17
52	Yield of perennial herbaceous and woody biomass crops over time across three locations. Biomass and Bioenergy, 2013, 58, 267-274.	5.7	17
53	Leaf and Stem Traits and Herbage Quality of Multifoliolate Alfalfa. Agronomy Journal, 1993, 85, 1121-1127.	1.8	16
54	Inoculation and Nitrogen Affect Herbage and Symbiotic Properties of Annual Medicago Species. Agronomy Journal, 1998, 90, 781-786.	1.8	16

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55	Variation due to Growth Environment in Alfalfa Yield, Cellulosic Ethanol Traits, and Paper Pulp Characteristics. Bioenergy Research, 2009, 2, 79-89.	3.9	16
56	Interaction of Grazing Muzzle Use and Grass Species on Forage Intake of Horses. Journal of Equine Veterinary Science, 2014, 34, 930-933.	0.9	16
57	Economic Performance of Crop Rotations in the Presence of Herbicideâ€Resistant Giant Ragweed. Agronomy Journal, 2018, 110, 260-268.	1.8	16
58	Cultivar and phosphorus effects on switchgrass yield and rhizosphere microbial diversity. Applied Microbiology and Biotechnology, 2019, 103, 1973-1987.	3.6	16
59	Horse Preference, Forage Yield, and Species Persistence of 12 Perennial Cool-Season Grass Mixtures Under Horse Grazing. Journal of Equine Veterinary Science, 2016, 36, 19-25.	0.9	15
60	Winter Hardiness and Freezing Tolerance in a Hairy Vetch Collection. Crop Science, 2018, 58, 1594-1604.	1.8	15
61	Cutting management and alfalfa stand age effects on organically grown corn grain yield and soil N availability. Renewable Agriculture and Food Systems, 2019, 34, 144-154.	1.8	15
62	Competition between introduced Bradyrhizobium japonicum strains and indigenous bradyrhizobia in Minnesota organic farming systems. Symbiosis, 2017, 73, 155-163.	2.3	14
63	Companion Crops for Organic Alfalfa Establishment. Agronomy Journal, 2014, 106, 309-314.	1.8	13
64	Shortâ€ŧerm harvesting of biomass from conservation grasslands maintains plant diversity. GCB Bioenergy, 2015, 7, 1050-1061.	5.6	13
65	Soil Streptomyces communities in a prairie establishment reflect interactions between soil edaphic characteristics and plant host. Plant and Soil, 2015, 386, 89-98.	3.7	13
66	Prediction of Ruminal Protein Degradability of Forages Using near Infrared Reflectance Spectroscopy. Agronomy Journal, 1995, 87, 1227-1231.	1.8	12
67	Forage Yield and Species Composition in Years following Kura Clover Sod-Seeding into Grass Swards. Agronomy Journal, 2005, 97, 1352-1360.	1.8	12
68	Yield and Persistence of Cool-Season Grasses under Horse Grazing. Agronomy Journal, 2012, 104, 1741-1746.	1.8	12
69	A Survey Investigating Alfalfa Winter Injury in Minnesota and Wisconsin from the Winter of 2012â€2013. Forage and Grazinglands, 2014, 12, 1-7.	0.2	12
70	Glucose and Insulin Response of Horses Grazing Alfalfa, Perennial Cool-Season Grass, and Teff Across Seasons. Journal of Equine Veterinary Science, 2018, 68, 33-38.	0.9	12
71	Illinois Bundleflower Forage Potential in the Upper Midwestern USA: II. Forage Quality. Agronomy Journal, 2005, 97, 895-903.	1.8	11
72	Growth Stage Influences Forage Yield and Quality of Winter Rye. Forage and Grazinglands, 2011, 9, 1-7.	0.2	11

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73	Yield and Weed Abundance in Early– and Late‧own Field Pea and Lentil. Agronomy Journal, 2012, 104, 1056-1064.	1.8	11
74	Biomass production potential of grasslands in the oak savanna region of Minnesota, USA. Bioenergy Research, 2013, 6, 131-141.	3.9	11
75	Stand Age Affects Fertilizer Nitrogen Response in First‥ear Corn following Alfalfa. Agronomy Journal, 2015, 107, 486-494.	1.8	11
76	Plant roots and <scp>GHG</scp> mitigation in native perennial bioenergy cropping systems. GCB Bioenergy, 2017, 9, 326-338.	5.6	11
77	Lidar and RGB Image Analysis to Predict Hairy Vetch Biomass in Breeding Nurseries. The Plant Phenome Journal, 2019, 2, 1-8.	2.0	11
78	Forage nutritive value of modern alfalfa cultivars. Crop, Forage and Turfgrass Management, 2020, 6, e20076.	0.6	11
79	Temperature and Photoperiod Effects on Multifoliolate Expression and Morphology of Alfalfa. Crop Science, 1993, 33, 573-578.	1.8	10
80	Soil conditioning affects interactions between native and invasive exotic perennials of semiâ€natural grasslands. Journal of Applied Ecology, 2017, 54, 1526-1533.	4.0	10
81	Species Pairing and Edge Effects on Biomass Yield and Nutrient Uptake in Perennial Alley Cropping Systems. Agronomy Journal, 2016, 108, 1020-1029.	1.8	9
82	Assessment of Winter Barley in Minnesota: Relationships among Cultivar, Fall Seeding Date, Winter Survival, and Grain Yield. Crop, Forage and Turfgrass Management, 2019, 5, 190055.	0.6	9
83	Silflower seed and biomass responses to plant density and nitrogenÂfertilization. , 2020, 3, e20118.		9
84	Nutritive value and yield of reducedâ€lignin alfalfa cultivars in monoculture and in binary mixtures with perennial grass. Agronomy Journal, 2020, 112, 352-367.	1.8	9
85	Productivity, Economics, and Soil Quality in the Minnesota Variableâ€Input Cropping Systems Trial. Crop Management, 2013, 12, 1-11.	0.3	9
86	Diversifying bioenergy crops increases yield and yield stability by reducing weed abundance. Science Advances, 2021, 7, eabg8531.	10.3	9
87	Yield, Forage Nutritive Value, and Preference of Legumes under Horse Grazing. Agronomy Journal, 2019, 111, 1312-1322.	1.8	8
88	Forage Yield and Nutritive Value of Cool-Season and Warm-Season Forages for Grazing Organic Dairy Cattle. Agronomy, 2020, 10, 1963.	3.0	8
89	The Horse Gut Microbiome Responds in a Highly Individualized Manner to Forage Lignification. Journal of Equine Veterinary Science, 2021, 96, 103306.	0.9	8
90	Sampling Requirements for Forage Quality Characterization of Rectangular Hay Bales. Agronomy Journal, 2000, 92, 64-68.	1.8	7

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91	Growth Stage at Harvest of a Winter Rye Cover Crop Influences Soil Moisture and Nitrogen. Crop Management, 2010, 9, 1-12.	0.3	7
92	A Review of Equine Grazing Research Methodologies. Journal of Equine Veterinary Science, 2017, 51, 92-104.	0.9	7
93	Yield, Nutritive Value, and Profitability of Direct-Seeded Annual Forages following Spring-Terminated Alfalfa. Agronomy Journal, 2017, 109, 2738-2748.	1.8	7
94	Establishing Native Perennial Bioenergy Crops with Cereal Grain Companion Crops. Bioenergy Research, 2015, 8, 109-118.	3.9	6
95	Giant Ragweed (<i>Ambrosia trifida</i>) Emergence Model Performance Evaluated in Diverse Cropping Systems. Weed Science, 2018, 66, 36-46.	1.5	6
96	Glucose and Insulin Response of Aged Horses Grazing Alfalfa, Perennial Cool-Season Grass, and Teff During the Spring and Late Fall. Journal of Equine Veterinary Science, 2019, 72, 108-111.	0.9	6
97	Biophysical interactions in perennial biomass alley cropping systems. Agroforestry Systems, 2019, 93, 901-914.	2.0	6
98	Comparing Roundup Ready and Conventional Systems of Alfalfa Establishment. Forage and Grazinglands, 2007, 5, 1-7.	0.2	6
99	Establishment of Kura Clover Noâ€Tilled into Grass Pastures with Herbicide Sod Suppression and Nitrogen Fertilization. Agronomy Journal, 2005, 97, 250-256.	1.8	5
100	Illinois Bundleflower Forage Potential in the Upper Midwestern USA: I. Yield, Regrowth, and Persistence. Agronomy Journal, 2005, 97, 886-894.	1.8	5
101	Potassium Management during the Rotation from Alfalfa to Corn. Agronomy Journal, 2011, 103, 1785-1793.	1.8	5
102	Productivity of Field Pea and Lentil with Cereal and Brassica Intercrops. Agronomy Journal, 2015, 107, 249-256.	1.8	5
103	Maize Stover and Cob Cell Wall Composition and Ethanol Potential as Affected by Nitrogen Fertilization. Bioenergy Research, 2015, 8, 1352-1361.	3.9	5
104	Alley cropping affects perennial bioenergy crop root distribution, carbon, and nutrient stocks. Agronomy Journal, 2020, 112, 3718-3732.	1.8	5
105	Selecting Hairy Vetch Ecotypes for Winter Hardiness in Minnesota. Crop Management, 2009, 8, 1-9.	0.3	4
106	Breeding Potential of Semidwarf Corn for Grain and Forage in the Northern U.S. Corn Belt. Crop Science, 2011, 51, 1637-1645.	1.8	4
107	Hay Rakeâ€Type Effect on Ash and Forage Nutritive Values of Alfalfa Hay. Agronomy Journal, 2017, 109, 2163-2171.	1.8	4
108	Nitrogen and Harvest Management Effects on Switchgrass and Mixed Perennial Biomass Production. Agronomy Journal, 2018, 110, 1260-1273.	1.8	4

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109	Plasma Amino Acid Concentrations of Horses Grazing Alfalfa, Cool-Season Perennial Grasses, and Teff. Journal of Equine Veterinary Science, 2019, 72, 72-78.	0.9	4
110	Herbage mass, botanical composition, forage nutritive value, and preference of grass–legume pastures under horse grazing. Crop, Forage and Turfgrass Management, 2020, 6, e20032.	0.6	4
111	Cultivation of native plants for seed and biomass yield. Agronomy Journal, 2020, 112, 1815-1827.	1.8	4
112	Milk Production, Body Weight, Body Condition Score, Activity, and Rumination of Organic Dairy Cattle Grazing Two Different Pasture Systems Incorporating Cool- and Warm-Season Forages. Animals, 2021, 11, 264.	2.3	4
113	Comparison of plant feedstocks and methods to recover leaf proteins from wet fractionation of alfalfa for potential use in aquaculture, poultry, and livestock feeds. , 2021, 4, e20184.		4
114	Growth Analysis of Spring and Summer Seeded Annual Medicago spp. Crop Science, 1997, 37, 1514-1519.	1.8	3
115	Forage Yield and Nutritive Value of Selected Quackgrass. Forage and Grazinglands, 2004, 2, 1-5.	0.2	3
116	Site-specific distribution and competitive ability of indigenous bean-nodulating rhizobia isolated from organic fields in Minnesota. Journal of Biotechnology, 2015, 214, 158-168.	3.8	3
117	Identifying Base Temperature for Alfalfa Germination: Implications for Frost Seeding. Crop Science, 2016, 56, 2833-2840.	1.8	3
118	Yield and Economic Potential of Springâ€Planted, Pea–Barley Forage in Shortâ€Season Corn Double rop Systems. Agronomy Journal, 2017, 109, 2486-2498.	1.8	3
119	Bacterial community composition in agricultural soils under longâ€ŧerm organic and conventionalÂmanagement. , 2020, 3, e20063.		3
120	Intercropping Legumes in Hard Red Spring Wheat under Semi-Arid Conditions. Crop Management, 2005, 4, 1-5.	0.3	3
121	Nitrogen Fertilization Impacts on Stand and Forage Mass of Cool-Season Grass-Legume Pastures. Forage and Grazinglands, 2005, 3, 1-10.	0.2	3
122	Kura Clover Response to Drought. Forage and Grazinglands, 2009, 7, 1-7.	0.2	2
123	Apparent digestibility, fecal particle size, and mean retention time of reduced lignin alfalfa hay fed to horses. Journal of Animal Science, 2021, 99, .	0.5	2
124	Inconsistent effects of species diversity and N fertilization on soil microbes and carbon storage in perennial bioenergy cropping systems. Renewable Agriculture and Food Systems, 0, , 1-11.	1.8	2
125	Forage Characteristics and Grazing Preference of Cover Crops in Equine Pasture Systems. Journal of Equine Veterinary Science, 2021, 103, 103663.	0.9	2
126	Nitrogen and Tillage Management Affect Corn Cellulosic Yield, Composition, and Ethanol Potential. Bioenergy Research, 2015, 8, 1284-1291.	3.9	1

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127	Giant Ragweed Emergence Pattern Influenced by Spring Tillage Timing in Minnesota. Crop, Forage and Turfgrass Management, 2018, 4, 1-3.	0.6	1
128	Forage quality and beef cow preference is affected by wrap type of conventional and reduced-lignin alfalfa round bales stored outdoors. Translational Animal Science, 2020, 4, txaa167.	1.1	1
129	Biomass Production of Prairie Cordgrass (Spartina pectinata Link.) Using Urea and Kura Clover (Trifolium ambiguum Bieb.) as a Source of Nitrogen. Bioenergy Research, 2020, 13, 1095-1107.	3.9	1
130	Root and axillary shoot development of hairy vetch stem cuttings and cessation of flower development under a short photoperiod. Crop Science, 2020, 60, 2386-2393.	1.8	1
131	Forage potential of winterâ€hardy perennial ryegrass populations in monoculture and binary alfalfa mixture. Agronomy Journal, 0, , .	1.8	1
132	Kura Clover Response to Potassium Fertilization. Communications in Soil Science and Plant Analysis, 2011, 42, 450-456.	1.4	0
133	Rotating alfalfa with dry bean as an alternative to corn-soybean rotations in organic systems in the Upper Midwest. Renewable Agriculture and Food Systems, 2019, 34, 41-49.	1.8	0
134	The Beach Dairy Farm Case Study: Management of Rotational Stocking. Journal of Natural Resources and Life Sciences Education, 1995, 24, 53-58.	0.2	0
135	The Future of Walnut Creek Farm: A Decision Case Study. Journal of Natural Resources and Life Sciences Education, 1996, 25, 53-58.	0.2	0