

Craig C Sheaffer

List of Publications by Year in descending order

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135
papers

2,807
citations

172457

29
h-index

243625

44
g-index

136
all docs

136
docs citations

136
times ranked

2377
citing authors

#	ARTICLE	IF	CITATIONS
1	The Horse Gut Microbiome Responds in a Highly Individualized Manner to Forage Lignification. <i>Journal of Equine Veterinary Science</i> , 2021, 96, 103306.	0.9	8
2	Apparent digestibility, fecal particle size, and mean retention time of reduced lignin alfalfa hay fed to horses. <i>Journal of Animal Science</i> , 2021, 99, .	0.5	2
3	Forage Characteristics and Grazing Preference of Cover Crops in Equine Pasture Systems. <i>Journal of Equine Veterinary Science</i> , 2021, 103, 103663.	0.9	2
4	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. <i>Animals</i> , 2021, 11, 264.	2.3	4
5	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
6	Diversifying bioenergy crops increases yield and yield stability by reducing weed abundance. <i>Science Advances</i> , 2021, 7, eabg8531.	10.3	9
7	Forage quality and beef cow preference is affected by wrap type of conventional and reduced-lignin alfalfa round bales stored outdoors. <i>Translational Animal Science</i> , 2020, 4, txaa167.	1.1	1
8	Forage nutritive value of modern alfalfa cultivars. <i>Crop, Forage and Turfgrass Management</i> , 2020, 6, e20076.	0.6	11
9	Bacterial community composition in agricultural soils under long-term organic and conventional management. , 2020, 3, e20063.		3
10	Forage Yield and Nutritive Value of Cool-Season and Warm-Season Forages for Grazing Organic Dairy Cattle. <i>Agronomy</i> , 2020, 10, 1963.	3.0	8
11	Silflower seed and biomass responses to plant density and nitrogen fertilization. , 2020, 3, e20118.		9
12	Clearwater™, the first food-grade intermediate wheatgrass (Kernza perennial grain) cultivar. <i>Journal of Plant Registrations</i> , 2020, 14, 288-297.	0.5	58
13	Stem and leaf forage nutritive value and morphology of reduced lignin alfalfa. <i>Agronomy Journal</i> , 2020, 112, 406-417.	1.8	25
14	Biomass Production of Prairie Cordgrass (<i>Spartina pectinata</i> Link.) Using Urea and Kura Clover (<i>Trifolium ambiguum</i> Bieb.) as a Source of Nitrogen. <i>Bioenergy Research</i> , 2020, 13, 1095-1107.	3.9	1
15	Herbage mass, botanical composition, forage nutritive value, and preference of grass-legume pastures under horse grazing. <i>Crop, Forage and Turfgrass Management</i> , 2020, 6, e20032.	0.6	4
16	Effects of nitrogen fertilization and planting density on intermediate wheatgrass yield. <i>Agronomy Journal</i> , 2020, 112, 4159-4170.	1.8	19
17	Root and axillary shoot development of hairy vetch stem cuttings and cessation of flower development under a short photoperiod. <i>Crop Science</i> , 2020, 60, 2386-2393.	1.8	1
18	Alley cropping affects perennial bioenergy crop root distribution, carbon, and nutrient stocks. <i>Agronomy Journal</i> , 2020, 112, 3718-3732.	1.8	5

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19	Cultivation of native plants for seed and biomass yield. <i>Agronomy Journal</i> , 2020, 112, 1815-1827.	1.8	4
20	Nutritive value and yield of reduced lignin alfalfa cultivars in monoculture and in binary mixtures with perennial grass. <i>Agronomy Journal</i> , 2020, 112, 352-367.	1.8	9
21	Effects of defoliation and row spacing on intermediate wheatgrass I: Grain production. <i>Agronomy Journal</i> , 2020, 112, 1748-1763.	1.8	31
22	Effects of defoliation and row spacing on intermediate wheatgrass II: Forage yield and economics. <i>Agronomy Journal</i> , 2020, 112, 1862-1880.	1.8	29
23	Potassium Fertilization Affects Alfalfa Forage Yield, Nutritive Value, Root Traits, and Persistence. <i>Agronomy Journal</i> , 2019, 111, 2843-2852.	1.8	25
24	Lidar and RGB Image Analysis to Predict Hairy Vetch Biomass in Breeding Nurseries. <i>The Plant Phenome Journal</i> , 2019, 2, 1-8.	2.0	11
25	Plasma Amino Acid Concentrations of Horses Grazing Alfalfa, Cool-Season Perennial Grasses, and Teff. <i>Journal of Equine Veterinary Science</i> , 2019, 72, 72-78.	0.9	4
26	Yield, Forage Nutritive Value, and Preference of Legumes under Horse Grazing. <i>Agronomy Journal</i> , 2019, 111, 1312-1322.	1.8	8
27	Assessment of Winter Barley in Minnesota: Relationships among Cultivar, Fall Seeding Date, Winter Survival, and Grain Yield. <i>Crop, Forage and Turfgrass Management</i> , 2019, 5, 190055.	0.6	9
28	Glucose and Insulin Response of Aged Horses Grazing Alfalfa, Perennial Cool-Season Grass, and Teff During the Spring and Late Fall. <i>Journal of Equine Veterinary Science</i> , 2019, 72, 108-111.	0.9	6
29	Cultivar and phosphorus effects on switchgrass yield and rhizosphere microbial diversity. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 1973-1987.	3.6	16
30	Cutting management and alfalfa stand age effects on organically grown corn grain yield and soil N availability. <i>Renewable Agriculture and Food Systems</i> , 2019, 34, 144-154.	1.8	15
31	Biophysical interactions in perennial biomass alley cropping systems. <i>Agroforestry Systems</i> , 2019, 93, 901-914.	2.0	6
32	Rotating alfalfa with dry bean as an alternative to corn-soybean rotations in organic systems in the Upper Midwest. <i>Renewable Agriculture and Food Systems</i> , 2019, 34, 41-49.	1.8	0
33	Giant Ragweed (<i>Ambrosia trifida</i>) Emergence Model Performance Evaluated in Diverse Cropping Systems. <i>Weed Science</i> , 2018, 66, 36-46.	1.5	6
34	Giant Ragweed Emergence Pattern Influenced by Spring Tillage Timing in Minnesota. <i>Crop, Forage and Turfgrass Management</i> , 2018, 4, 1-3.	0.6	1
35	Establishment and Function of Cover Crops Interseeded into Corn. <i>Crop Science</i> , 2018, 58, 863-873.	1.8	80
36	Maintaining grain yields of the perennial cereal intermediate wheatgrass in monoculture <i>v.</i> bi-culture with alfalfa in the Upper Midwestern USA. <i>Journal of Agricultural Science</i> , 2018, 156, 758-773.	1.3	46

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37	Winter Hardiness and Freezing Tolerance in a Hairy Vetch Collection. <i>Crop Science</i> , 2018, 58, 1594-1604.	1.8	15
38	Economic Performance of Crop Rotations in the Presence of Herbicide-Resistant Giant Ragweed. <i>Agronomy Journal</i> , 2018, 110, 260-268.	1.8	16
39	Glucose and Insulin Response of Horses Grazing Alfalfa, Perennial Cool-Season Grass, and Teff Across Seasons. <i>Journal of Equine Veterinary Science</i> , 2018, 68, 33-38.	0.9	12
40	Nitrogen and Harvest Management Effects on Switchgrass and Mixed Perennial Biomass Production. <i>Agronomy Journal</i> , 2018, 110, 1260-1273.	1.8	4
41	Plant roots and GHG mitigation in native perennial bioenergy cropping systems. <i>GCB Bioenergy</i> , 2017, 9, 326-338.	5.6	11
42	Seedbank Depletion and Emergence Patterns of Giant Ragweed (<i>Ambrosia trifida</i>) in Minnesota Cropping Systems. <i>Weed Science</i> , 2017, 65, 52-60.	1.5	24
43	A Review of Equine Grazing Research Methodologies. <i>Journal of Equine Veterinary Science</i> , 2017, 51, 92-104.	0.9	7
44	Competition between introduced <i>Bradyrhizobium japonicum</i> strains and indigenous bradyrhizobia in Minnesota organic farming systems. <i>Symbiosis</i> , 2017, 73, 155-163.	2.3	14
45	Soil conditioning affects interactions between native and invasive exotic perennials of semi-natural grasslands. <i>Journal of Applied Ecology</i> , 2017, 54, 1526-1533.	4.0	10
46	Yield and Economic Potential of Spring-Planted, Pea-Barley Forage in Short-Season Corn Double-Crop Systems. <i>Agronomy Journal</i> , 2017, 109, 2486-2498.	1.8	3
47	Preference, Yield, and Forage Nutritive Value of Annual Grasses under Horse Grazing. <i>Agronomy Journal</i> , 2017, 109, 1561-1572.	1.8	20
48	Intermediate Wheatgrass Grain and Forage Yield Responses to Nitrogen Fertilization. <i>Agronomy Journal</i> , 2017, 109, 462-472.	1.8	73
49	Yield, Nutritive Value, and Preference of Annual Warm-Season Grasses Grazed by Horses. <i>Agronomy Journal</i> , 2017, 109, 2136-2148.	1.8	21
50	Accelerating <i>Silphium</i> Domestication: An Opportunity to Develop New Crop Ideotypes and Breeding Strategies Informed by Multiple Disciplines. <i>Crop Science</i> , 2017, 57, 1274-1284.	1.8	61
51	Yield, Nutritive Value, and Profitability of Direct-Seeded Annual Forages following Spring-Terminated Alfalfa. <i>Agronomy Journal</i> , 2017, 109, 2738-2748.	1.8	7
52	Hay Rake-Type Effect on Ash and Forage Nutritive Values of Alfalfa Hay. <i>Agronomy Journal</i> , 2017, 109, 2163-2171.	1.8	4
53	Forage Accumulation and Nutritive Value of Reduced Lignin and Reference Alfalfa Cultivars. <i>Agronomy Journal</i> , 2017, 109, 2749-2761.	1.8	48
54	Species Pairing and Edge Effects on Biomass Yield and Nutrient Uptake in Perennial Alley Cropping Systems. <i>Agronomy Journal</i> , 2016, 108, 1020-1029.	1.8	9

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55	Identifying Base Temperature for Alfalfa Germination: Implications for Frost Seeding. <i>Crop Science</i> , 2016, 56, 2833-2840.	1.8	3
56	Giant Ragweed (<i>Ambrosia trifida</i>) Seed Production and Retention in Soybean and Field Margins. <i>Weed Technology</i> , 2016, 30, 246-253.	0.9	26
57	Horse Preference, Forage Yield, and Species Persistence of 12 Perennial Cool-Season Grass Mixtures Under Horse Grazing. <i>Journal of Equine Veterinary Science</i> , 2016, 36, 19-25.	0.9	15
58	Structure of bacterial communities in soil following cover crop and organic fertilizer incorporation. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 9331-9341.	3.6	65
59	Associations between soil bacterial community structure and nutrient cycling functions in long-term organic farm soils following cover crop and organic fertilizer amendment. <i>Science of the Total Environment</i> , 2016, 566-567, 949-959.	8.0	112
60	Short-term harvesting of biomass from conservation grasslands maintains plant diversity. <i>GCB Bioenergy</i> , 2015, 7, 1050-1061.	5.6	13
61	Stand Age Affects Fertilizer Nitrogen Response in First-Year Corn following Alfalfa. <i>Agronomy Journal</i> , 2015, 107, 486-494.	1.8	11
62	Productivity of Field Pea and Lentil with Cereal and Brassica Intercrops. <i>Agronomy Journal</i> , 2015, 107, 249-256.	1.8	5
63	Long-term Biomass Yield and Species Composition in Native Perennial Bioenergy Cropping Systems. <i>Agronomy Journal</i> , 2015, 107, 1627-1640.	1.8	32
64	The Effect of Nitrogen, Phosphorus, and Potassium Fertilizers on Prairie Biomass Yield, Ethanol Yield, and Nutrient Harvest. <i>Bioenergy Research</i> , 2015, 8, 279-291.	3.9	28
65	Maize Stover and Cob Cell Wall Composition and Ethanol Potential as Affected by Nitrogen Fertilization. <i>Bioenergy Research</i> , 2015, 8, 1352-1361.	3.9	5
66	Establishing Native Perennial Bioenergy Crops with Cereal Grain Companion Crops. <i>Bioenergy Research</i> , 2015, 8, 109-118.	3.9	6
67	Harvest Date Effects on Biomass Yield, Moisture Content, Mineral Concentration, and Mineral Export in Switchgrass and Native Polycultures Managed for Bioenergy. <i>Bioenergy Research</i> , 2015, 8, 740-749.	3.9	26
68	Nitrogen and Tillage Management Affect Corn Cellulosic Yield, Composition, and Ethanol Potential. <i>Bioenergy Research</i> , 2015, 8, 1284-1291.	3.9	1
69	Site-specific distribution and competitive ability of indigenous bean-nodulating rhizobia isolated from organic fields in Minnesota. <i>Journal of Biotechnology</i> , 2015, 214, 158-168.	3.8	3
70	Soil Streptomyces communities in a prairie establishment reflect interactions between soil edaphic characteristics and plant host. <i>Plant and Soil</i> , 2015, 386, 89-98.	3.7	13
71	The Reflective Plant Breeding Paradigm: A Robust System of Germplasm Development to Support Strategic Diversification of Agroecosystems. <i>Crop Science</i> , 2014, 54, 1939-1948.	1.8	35
72	A Survey Investigating Alfalfa Winter Injury in Minnesota and Wisconsin from the Winter of 2012-2013. <i>Forage and Grazinglands</i> , 2014, 12, 1-7.	0.2	12

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73	Establishment and early productivity of perennial biomass alley cropping systems in Minnesota, USA. <i>Agroforestry Systems</i> , 2014, 88, 75-85.	2.0	23
74	Interaction of Grazing Muzzle Use and Grass Species on Forage Intake of Horses. <i>Journal of Equine Veterinary Science</i> , 2014, 34, 930-933.	0.9	16
75	Companion Crops for Organic Alfalfa Establishment. <i>Agronomy Journal</i> , 2014, 106, 309-314.	1.8	13
76	Biomass production potential of grasslands in the oak savanna region of Minnesota, USA. <i>Bioenergy Research</i> , 2013, 6, 131-141.	3.9	11
77	Yield of perennial herbaceous and woody biomass crops over time across three locations. <i>Biomass and Bioenergy</i> , 2013, 58, 267-274.	5.7	17
78	Forage Nutritive Value and Preference of Cool-Season Grasses under Horse Grazing. <i>Agronomy Journal</i> , 2013, 105, 679-684.	1.8	37
79	Productivity, Economics, and Soil Quality in the Minnesota Variable-Input Cropping Systems Trial. <i>Crop Management</i> , 2013, 12, 1-11.	0.3	9
80	Energy Potential of Biomass from Conservation Grasslands in Minnesota, USA. <i>PLoS ONE</i> , 2013, 8, e61209.	2.5	32
81	Yield and Persistence of Cool-Season Grasses under Horse Grazing. <i>Agronomy Journal</i> , 2012, 104, 1741-1746.	1.8	12
82	Alfalfa Nitrogen Credit to First-Year Corn: Potassium, Regrowth, and Tillage Timing Effects. <i>Agronomy Journal</i> , 2012, 104, 953-962.	1.8	36
83	Yield and Weed Abundance in Early- and Late-Sown Field Pea and Lentil. <i>Agronomy Journal</i> , 2012, 104, 1056-1064.	1.8	11
84	Potassium Management during the Rotation from Alfalfa to Corn. <i>Agronomy Journal</i> , 2011, 103, 1785-1793.	1.8	5
85	Native Perennial Grassland Species for Bioenergy: Establishment and Biomass Productivity. <i>Agronomy Journal</i> , 2011, 103, 509-519.	1.8	50
86	Growth Stage Influences Forage Yield and Quality of Winter Rye. <i>Forage and Grazinglands</i> , 2011, 9, 1-7.	0.2	11
87	Agronomic Performance of Cropping Systems with Contrasting Crop Rotations and External Inputs. <i>Agronomy Journal</i> , 2011, 103, 182-192.	1.8	51
88	Economic Performance of Long-Term Organic and Conventional Cropping Systems in Minnesota. <i>Agronomy Journal</i> , 2011, 103, 1372-1382.	1.8	28
89	Soybean Cultivar Response to Planting Date and Seeding Rate under Organic Management. <i>Agronomy Journal</i> , 2011, 103, 1223-1229.	1.8	18
90	Kura Clover Response to Potassium Fertilization. <i>Communications in Soil Science and Plant Analysis</i> , 2011, 42, 450-456.	1.4	0

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91	Breeding Potential of Semidwarf Corn for Grain and Forage in the Northern U.S. Corn Belt. <i>Crop Science</i> , 2011, 51, 1637-1645.	1.8	4
92	Alfalfa Management Guide. Assa, Cssa and Sssa, 2011, , .	0.6	64
93	Growth Stage at Harvest of a Winter Rye Cover Crop Influences Soil Moisture and Nitrogen. <i>Crop Management</i> , 2010, 9, 1-12.	0.3	7
94	The Effect of Landscape Position on Biomass Crop Yield. <i>Agronomy Journal</i> , 2010, 102, 513-522.	1.8	43
95	Selecting Hairy Vetch Ecotypes for Winter Hardiness in Minnesota. <i>Crop Management</i> , 2009, 8, 1-9.	0.3	4
96	Kura Clover Response to Drought. <i>Forage and Grazinglands</i> , 2009, 7, 1-7.	0.2	2
97	Variation due to Growth Environment in Alfalfa Yield, Cellulosic Ethanol Traits, and Paper Pulp Characteristics. <i>Bioenergy Research</i> , 2009, 2, 79-89.	3.9	16
98	Genetic Variation in Three Native Plant Species across the State of Minnesota. <i>Crop Science</i> , 2007, 47, 2379-2389.	1.8	17
99	Alfalfa Leaf Protein and Stem Cell Wall Polysaccharide Yields under Hay and Biomass Management Systems. <i>Crop Science</i> , 2007, 47, 1407-1415.	1.8	64
100	Comparing Roundup Ready and Conventional Systems of Alfalfa Establishment. <i>Forage and Grazinglands</i> , 2007, 5, 1-7.	0.2	6
101	Five Decades of Alfalfa Cultivar Improvement: Impact on Forage Yield, Persistence, and Nutritive Value. <i>Crop Science</i> , 2006, 46, 902-909.	1.8	105
102	Forage Yield and Species Composition in Years following Kura Clover Sod-Seeding into Grass Swards. <i>Agronomy Journal</i> , 2005, 97, 1352-1360.	1.8	12
103	Illinois Bundleflower Forage Potential in the Upper Midwestern USA: II. Forage Quality. <i>Agronomy Journal</i> , 2005, 97, 895-903.	1.8	11
104	Establishment of Kura Clover No-tilled into Grass Pastures with Herbicide Sod Suppression and Nitrogen Fertilization. <i>Agronomy Journal</i> , 2005, 97, 250-256.	1.8	5
105	Illinois Bundleflower Forage Potential in the Upper Midwestern USA: I. Yield, Regrowth, and Persistence. <i>Agronomy Journal</i> , 2005, 97, 886-894.	1.8	5
106	Intercropping Legumes in Hard Red Spring Wheat under Semi-Arid Conditions. <i>Crop Management</i> , 2005, 4, 1-5.	0.3	3
107	Nitrogen Fertilization Impacts on Stand and Forage Mass of Cool-Season Grass-Legume Pastures. <i>Forage and Grazinglands</i> , 2005, 3, 1-10.	0.2	3
108	Forage Yield and Nutritive Value of Selected Quackgrass. <i>Forage and Grazinglands</i> , 2004, 2, 1-5.	0.2	3

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109	Near-Infrared Reflectance Spectroscopy Prediction of Leaf and Mineral Concentrations in Alfalfa. <i>Agronomy Journal</i> , 2004, 96, 344.	1.8	20
110	Near-Infrared Reflectance Spectroscopy Prediction of Leaf and Mineral Concentrations in Alfalfa. <i>Agronomy Journal</i> , 2004, 96, 344-351.	1.8	32
111	Forage Legumes for Sustainable Cropping Systems. <i>The Journal of Crop Improvement: Innovations in Practice and Research</i> , 2003, 8, 187-216.	0.4	32
112	Population Density and Harvest Maturity Effects on Leaf and Stem Yield in Alfalfa. <i>Agronomy Journal</i> , 2003, 95, 635-641.	1.8	57
113	Population Density and Harvest Maturity Effects on Leaf and Stem Yield in Alfalfa. <i>Agronomy Journal</i> , 2003, 95, 635.	1.8	32
114	Weed Suppression by Annual Legume Cover Crops in No-Tillage Corn. <i>Agronomy Journal</i> , 2001, 93, 319-325.	1.8	112
115	Yield and Quality of Forage Soybean. <i>Agronomy Journal</i> , 2001, 93, 99-106.	1.8	60
116	Sampling Requirements for Forage Quality Characterization of Rectangular Hay Bales. <i>Agronomy Journal</i> , 2000, 92, 64-68.	1.8	7
117	Leaf and Stem Properties of Alfalfa Entries. <i>Agronomy Journal</i> , 2000, 92, 733-739.	1.8	106
118	Dinitrogen Fixation in Kura Clover and Birdsfoot Trefoil. <i>Agronomy Journal</i> , 2000, 92, 1216-1220.	1.8	19
119	Entry × Environment Interactions for Alfalfa Forage Quality. <i>Agronomy Journal</i> , 1998, 90, 774-780.	1.8	34
120	Seasonal fluctuations of carbohydrate levels in roots and crowns of purple loosestrife (<i>Lythrum</i>). <i>Journal of Agricultural Science</i> , 1997, 129, 1-5.	1.5	24
121	Medic Planting Date Effect on Dry Matter and Nitrogen Accumulation When Clear-Seeded or Intercropped with Corn. <i>Agronomy Journal</i> , 1998, 90, 616-622.	1.8	21
122	Inoculation and Nitrogen Affect Herbage and Symbiotic Properties of Annual Medicago Species. <i>Agronomy Journal</i> , 1998, 90, 781-786.	1.8	16
123	Annual Medics and Berseem Clover as Emergency Forages. <i>Agronomy Journal</i> , 1998, 90, 197-201.	1.8	39
124	Effect of Annual Medic Smother Plants on Weed Control and Yield in Corn. <i>Agronomy Journal</i> , 1997, 89, 813-821.	1.8	31
125	Growth Analysis of Spring and Summer Seeded Annual Medicago spp. <i>Crop Science</i> , 1997, 37, 1514-1519.	1.8	3
126	Intercropping Annual Medic with Conventional Height and Semidwarf Barley Grown for Grain. <i>Agronomy Journal</i> , 1996, 88, 823-828.	1.8	36

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127	The Future of Walnut Creek Farm: A Decision Case Study. <i>Journal of Natural Resources and Life Sciences Education</i> , 1996, 25, 53-58.	0.2	0
128	Prediction of Ruminant Protein Degradability of Forages Using near Infrared Reflectance Spectroscopy. <i>Agronomy Journal</i> , 1995, 87, 1227-1231.	1.8	12
129	Alfalfa Establishment with Barley and Oat Companion Crops Differing in Stature. <i>Agronomy Journal</i> , 1995, 87, 268-272.	1.8	32
130	The Beach Dairy Farm Case Study: Management of Rotational Stocking. <i>Journal of Natural Resources and Life Sciences Education</i> , 1995, 24, 53-58.	0.2	0
131	Responses of Kura Clover to Sheep Grazing and Clipping: I. Yield and Forage Quality. <i>Agronomy Journal</i> , 1994, 86, 655-660.	1.8	47
132	Leaf and Stem Traits and Herbage Quality of Multifoliolate Alfalfa. <i>Agronomy Journal</i> , 1993, 85, 1121-1127.	1.8	16
133	Temperature and Photoperiod Effects on Multifoliolate Expression and Morphology of Alfalfa. <i>Crop Science</i> , 1993, 33, 573-578.	1.8	10
134	Inconsistent effects of species diversity and N fertilization on soil microbes and carbon storage in perennial bioenergy cropping systems. <i>Renewable Agriculture and Food Systems</i> , 0, , 1-11.	1.8	2
135	Forage potential of winter-hardy perennial ryegrass populations in monoculture and binary alfalfa mixture. <i>Agronomy Journal</i> , 0, , .	1.8	1