

Kevin M Murphy

List of Publications by Year in descending order

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85
papers

3,515
citations

159585

30
h-index

155660

55
g-index

95
all docs

95
docs citations

95
times ranked

3428
citing authors

#	ARTICLE	IF	CITATIONS
1	The genome of <i>Chenopodium quinoa</i> . <i>Nature</i> , 2017, 542, 307-312.	27.8	569
2	Evidence of varietal adaptation to organic farming systems. <i>Field Crops Research</i> , 2007, 102, 172-177.	5.1	274
3	Relationship between yield and mineral nutrient concentrations in historical and modern spring wheat cultivars. <i>Euphytica</i> , 2008, 163, 381-390.	1.2	193
4	Quinoa Abiotic Stress Responses: A Review. <i>Plants</i> , 2018, 7, 106.	3.5	166
5	Proso Millet (<i>Panicum miliaceum</i> L.) and Its Potential for Cultivation in the Pacific Northwest, U.S.: A Review. <i>Frontiers in Plant Science</i> , 2016, 7, 1961.	3.6	130
6	Breeding for organic and low-input farming systems: An evolutionary “participatory breeding method for inbred cereal grains. <i>Renewable Agriculture and Food Systems</i> , 2005, 20, 48-55.	1.8	123
7	Decentralized selection and participatory approaches in plant breeding for low-input systems. <i>Euphytica</i> , 2008, 160, 143-154.	1.2	106
8	Relationship among phenotypic growth traits, yield and weed suppression in spring wheat landraces and modern cultivars. <i>Field Crops Research</i> , 2008, 105, 107-115.	5.1	96
9	Evolutionary Plant Breeding in Cereals “Into a New Era. <i>Sustainability</i> , 2011, 3, 1944-1971.	3.2	93
10	Trade-offs between seed output and life span – a quantitative comparison of traits between annual and perennial congeneric species. <i>New Phytologist</i> , 2016, 209, 104-114.	7.3	87
11	Effect of high temperature on pollen morphology, plant growth and seed yield in quinoa (<i>Chenopodium quinoa</i> Willd.). <i>Journal of Agronomy and Crop Science</i> , 2019, 205, 33-45.	3.5	78
12	Development of a Worldwide Consortium on Evolutionary Participatory Breeding in Quinoa. <i>Frontiers in Plant Science</i> , 2016, 7, 608.	3.6	75
13	Extrusion processing characteristics of quinoa (<i>Chenopodium quinoa</i> Willd.) var. Cherry Vanilla. <i>Journal of Cereal Science</i> , 2016, 70, 91-98.	3.7	74
14	Quinoa intake reduces plasma and liver cholesterol, lessens obesity-associated inflammation, and helps to prevent hepatic steatosis in obese db/db mouse. <i>Food Chemistry</i> , 2019, 287, 107-114.	8.2	68
15	Perennial cereal crops: An initial evaluation of wheat derivatives. <i>Field Crops Research</i> , 2012, 133, 68-89.	5.1	65
16	Tolerance of Lowland Quinoa Cultivars to Sodium Chloride and Sodium Sulfate Salinity. <i>Crop Science</i> , 2015, 55, 331-338.	1.8	51
17	Lexicon Development, Consumer Acceptance, and Drivers of Liking of Quinoa Varieties. <i>Journal of Food Science</i> , 2017, 82, 993-1005.	3.1	48
18	Agronomic Assessment of Perennial Wheat and Perennial Rye as Cereal Crops. <i>Agronomy Journal</i> , 2012, 104, 1716-1726.	1.8	47

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19	Evaluation of Texture Differences among Varieties of Cooked Quinoa. <i>Journal of Food Science</i> , 2014, 79, S2337-45.	3.1	46
20	Quinoa Starch Characteristics and Their Correlations with the Texture Profile Analysis (TPA) of Cooked Quinoa. <i>Journal of Food Science</i> , 2017, 82, 2387-2395.	3.1	45
21	Control of Common Bunt in Organic Wheat. <i>Plant Disease</i> , 2011, 95, 92-103.	1.4	44
22	Physicochemical Characterization of Different Varieties of Quinoa. <i>Cereal Chemistry</i> , 2017, 94, 847-856.	2.2	44
23	Preliminary Studies of the Performance of Quinoa (<i>Chenopodium quinoa</i> Willd.) Genotypes under Irrigated and Rainfed Conditions of Central Malawi. <i>Frontiers in Plant Science</i> , 2017, 08, 227.	3.6	43
24	Nutritional and quality characteristics expressed in 31 perennial wheat breeding lines. <i>Renewable Agriculture and Food Systems</i> , 2009, 24, 285-292.	1.8	38
25	Effect of irrigation, intercrop, and cultivar on agronomic and nutritional characteristics of quinoa. <i>Agroecology and Sustainable Food Systems</i> , 2016, 40, 783-803.	1.9	37
26	A Crossing Method for Quinoa. <i>Sustainability</i> , 2015, 7, 3230-3243.	3.2	36
27	Impacts of Scarification and Degermination on the Expansion Characteristics of Select Quinoa Varieties during Extrusion Processing. <i>Journal of Food Science</i> , 2016, 81, E2939-E2949.	3.1	35
28	Genotypic Variation in Nutritional Composition of Buckwheat Groats and Husks. <i>Cereal Chemistry</i> , 2013, 90, 132-137.	2.2	34
29	Spectral Reflectance Indices and Physiological Parameters in Quinoa under Contrasting Irrigation Regimes. <i>Crop Science</i> , 2019, 59, 1927-1944.	1.8	33
30	Impact of heat and drought stress on peroxisome proliferation in quinoa. <i>Plant Journal</i> , 2019, 99, 1144-1158.	5.7	33
31	Seed Composition and Amino Acid Profiles for Quinoa Grown in Washington State. <i>Frontiers in Nutrition</i> , 2020, 7, 126.	3.7	33
32	Challenges and Opportunities for Organic Hop Production in the United States. <i>Agronomy Journal</i> , 2011, 103, 1645-1654.	1.8	30
33	Quinoa Seed Quality Response to Sodium Chloride and Sodium Sulfate Salinity. <i>Frontiers in Plant Science</i> , 2016, 7, 790.	3.6	29
34	Registration of 'Xerpha'™ Wheat. <i>Journal of Plant Registrations</i> , 2010, 4, 137-140.	0.5	29
35	Effect of barley supplementation on the fecal microbiota, caecal biochemistry, and key biomarkers of obesity and inflammation in obese db/db mice. <i>European Journal of Nutrition</i> , 2018, 57, 2513-2528.	3.9	28
36	Cardiopulmonary Exercise Testing Demonstrates Maintenance of Exercise Capacity in Patients With Hypoxemia and Pulmonary Arteriovenous Malformations. <i>Chest</i> , 2014, 146, 709-718.	0.8	24

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37	Quinoa Phenotyping Methodologies: An International Consensus. <i>Plants</i> , 2021, 10, 1759.	3.5	24
38	Response to selection, combining ability and heritability of coleoptile length in winter wheat. <i>Euphytica</i> , 2008, 164, 709-718.	1.2	22
39	Plant breeding for local food systems: A contextual review of end-use selection for small grains and dry beans in Western Washington. <i>Renewable Agriculture and Food Systems</i> , 2016, 31, 172-184.	1.8	20
40	Leaf Gas Exchange Performance of Ten Quinoa Genotypes under a Simulated Heat Wave. <i>Plants</i> , 2020, 9, 81.	3.5	17
41	High-throughput Field Phenotyping to Assess Irrigation Treatment Effects in Quinoa. , 2019, 2, 1-7.		16
42	Effects of imidacloprid seed treatments on crop yields and economic returns of cereal crops. <i>Crop Protection</i> , 2019, 119, 166-171.	2.1	16
43	Agronomic and economic performance of organic forage, quinoa, and grain crop rotations in the Palouse region of the Pacific Northwest, USA. <i>Agricultural Systems</i> , 2020, 177, 102709.	6.1	16
44	Seed Dormancy and Preharvest Sprouting in Quinoa (<i>Chenopodium quinoa</i> Willd). <i>Plants</i> , 2021, 10, 458.	3.5	16
45	Utilization of Evolutionary Plant Breeding Increases Stability and Adaptation of Winter Wheat Across Diverse Precipitation Zones. <i>Sustainability</i> , 2020, 12, 9728.	3.2	15
46	Quinoa in Ecuador: Recent Advances under Global Expansion. <i>Plants</i> , 2021, 10, 298.	3.5	15
47	Phenotypic Responses of Twenty Diverse Proso Millet (<i>Panicum miliaceum</i> L.) Accessions to Irrigation. <i>Sustainability</i> , 2017, 9, 389.	3.2	14
48	Productivity and soil quality of organic forage, quinoa, and grain cropping systems in the dryland Pacific Northwest, USA. <i>Agriculture, Ecosystems and Environment</i> , 2020, 293, 106838.	5.3	14
49	Genotype × environment interaction and stability of Î²-D-glucan content in barley in the Palouse region of eastern Washington. <i>Crop Science</i> , 2020, 60, 2500-2510.	1.8	14
50	Evaluating Barley for the Emerging Craft Malting Industry in Western Washington. <i>Agronomy Journal</i> , 2016, 108, 939-949.	1.8	13
51	Developing Winter Food Barley for the Pacific Northwest of the US. <i>Crop Science</i> , 2015, 55, 1563-1573.	1.8	12
52	Strategic malting barley improvement for craft brewers through consumer sensory evaluation of malt and beer. <i>Journal of Food Science</i> , 2021, 86, 3628-3644.	3.1	12
53	Karyotype and Ideogram Analyses of Four Wheatgrass Cultivars for Use in Perennial Wheat Breeding. <i>Agroecology and Sustainable Food Systems</i> , 2007, 31, 137-149.	0.9	11
54	Post-sexual cycle regrowth and grain yield in <i>Thinopyrum elongatum</i> × <i>Triticum aestivum</i> amphiploids. <i>Plant Breeding</i> , 2009, 129, 480.	1.9	11

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55	Evaluation of winter wheat breeding lines for traits related to nitrogen use under organic management. <i>Organic Agriculture</i> , 2011, 1, 65-80.	2.4	11
56	Genotype × Environment Interactions for Mineral Concentration in Grain of Organically Grown Spring Wheat. <i>Agronomy Journal</i> , 2011, 103, 1734-1741.	1.8	10
57	A Plant-Fungus Bioassay Supports the Classification of Quinoa (<i>Chenopodium quinoa</i> Willd.) as Inconsistently Mycorrhizal. <i>Microbial Ecology</i> , 2021, 82, 135-144.	2.8	10
58	The diversity of quinoa morphological traits and seed metabolic composition. <i>Scientific Data</i> , 2022, 9, .	5.3	10
59	Hulled varieties of Barley showed better expansion characteristics compared to hullless varieties during twin-screw extrusion. <i>Cereal Chemistry</i> , 2019, 96, 391-404.	2.2	9
60	Evolutionary Breeding and Climate Change. , 2013, , 377-389.		9
61	Toward a taxonomic definition of perennial wheat: a new species <i>Tritipyrum aaseae</i> described. <i>Genetic Resources and Crop Evolution</i> , 2017, 64, 1651-1659.	1.6	7
62	A quiet harvest: linkage between ritual, seed selection and the historical use of the finger-bladed knife as a traditional plant breeding tool in Ifugao, Philippines. <i>Journal of Ethnobiology and Ethnomedicine</i> , 2017, 13, 3.	2.6	6
63	Three hullless oat varieties show economic potential as organic layer feed grain. <i>Renewable Agriculture and Food Systems</i> , 2018, 33, 418-431.	1.8	6
64	Assessing the Potential Adoption of Quinoa for Human Consumption in Central Malawi. <i>Frontiers in Sustainable Food Systems</i> , 2019, 3, .	3.9	5
65	Quinoa's Potential to Enhance Dietary Management of Obesity and Type-2 Diabetes: A Review of the Current Evidence. <i>International Journal of Diabetology</i> , 2021, 2, 77-94.	2.0	5
66	Effect of Nitrogen and Seeding Rate on β -Glucan, Protein, and Grain Yield of Naked Food Barley in No-Till Cropping Systems in the Palouse Region of the Pacific Northwest. <i>Frontiers in Sustainable Food Systems</i> , 2021, 5, .	3.9	5
67	Assessment of Genetic Diversity among Barley Cultivars and Breeding Lines Adapted to the US Pacific Northwest, and Its Implications in Breeding Barley for Imidazolinone-Resistance. <i>PLoS ONE</i> , 2014, 9, e100998.	2.5	5
68	Access to Agricultural Inputs, Technology and Information, Communicating with Farmers, and the Role of Women in Agriculture: Perceptions of Iraqi Extension Agents. <i>Journal of International Agricultural and Extension Education</i> , 2013, 20, .	0.2	5
69	From Ground to Glass: Evaluation of Unique Barley Varieties for Craft Malting, Craft Brewing, and Consumer Sensory. <i>Beverages</i> , 2022, 8, 30.	2.8	5
70	Registration of #STRKR Barley Germplasm. <i>Journal of Plant Registrations</i> , 2015, 9, 388-392.	0.5	4
71	Registration of "Lyon"™, a Two-Row, Spring Feed Barley. <i>Journal of Plant Registrations</i> , 2015, 9, 6-9.	0.5	4
72	Registration of "Muir"™ Spring Feed Barley. <i>Journal of Plant Registrations</i> , 2015, 9, 283-287.	0.5	4

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73	Perennial wheat lines have highly admixed population structure and elevated rates of outcrossing. <i>Euphytica</i> , 2017, 213, 1.	1.2	4
74	Replacing Corn and Wheat in Layer Diets with Hulless Oats Shows Effects on Sensory Properties and Yolk Quality of Eggs. <i>Frontiers in Nutrition</i> , 2017, 4, 37.	3.7	4
75	Evolutionary participatory quinoa breeding for organic agro-ecosystems in the US Pacific Northwest. , 2019, , 135-158.		4
76	Agronomic Performance of Perennial Grain Genotypes in the Palouse Region of the Pacific Northwest, USA. <i>Frontiers in Sustainable Food Systems</i> , 2019, 3, .	3.9	3
77	Quinoa as source of bioactive compounds with potential for intestinal health (647.18). <i>FASEB Journal</i> , 2014, 28, 647.18.	0.5	3
78	Registration of "MDM" Wheat. <i>Journal of Plant Registrations</i> , 2007, 1, 104-106.	0.5	2
79	Participatory Varietal Selection of Wheat for Micro-Niches of Kathmandu Valley. <i>Agroecology and Sustainable Food Systems</i> , 2009, 33, 745-756.	0.9	2
80	Evaluation of Î²-glucan content, viscosity, soluble dietary fiber and processing effect in grains of Ecuadorian barley genotypes. <i>Agronomia Colombiana</i> , 2019, 37, 323-330.	0.5	2
81	Effects of Agronomic Practices on <i>Lygus</i> spp. (Hemiptera: Miridae) Population Dynamics in Quinoa. <i>Environmental Entomology</i> , 2021, 50, 852-859.	1.4	2
82	The history of oats in western Washington and the evolution of regionality in agriculture. <i>Journal of Rural Studies</i> , 2016, 47, 231-241.	4.7	1
83	Assessing the Adaptability of Quinoa and Millet in Two Agroecological Zones of Rwanda. <i>Frontiers in Sustainable Food Systems</i> , 2022, 6, .	3.9	1
84	Registration of "Resilience CL+" soft white winter wheat. <i>Journal of Plant Registrations</i> , 2021, 15, 196-205.	0.5	0
85	Growing Quinoa in Washington State. <i>Crops & Soils</i> , 0, , .	0.2	0