Fred Stoddard

List of Publications by Year
in descending order

153 papers	5,505 citations	71102 41 h-index	98798 67 g-index
164 all docs	164 docs citations	164 times ranked	5114 citing authors

#	Article	IF	Citations
1	Agro-economic prospects for expanding soybean production beyond its current northerly limit in Europe. European Journal of Agronomy, 2022, 133, 126415.	4.1	44
2	Genomic regions associated with chocolate spot (Botrytis fabae Sard.) resistance in faba bean (Vicia) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.1	6
3	Recent advances in faba bean genetic and genomic tools for crop improvement. , 2021, 3, e75.		38
4	VC1 catalyses a key step in the biosynthesis of vicine in faba bean. Nature Plants, 2021, 7, 923-931.	9.3	34
5	Botrytis four species are associated with chocolate spot disease of faba bean in Latvia. Zemdirbyste, 2021, 108, 297-302.	0.8	2
6	Re-designing organic grain legume cropping systems using systems agronomy. European Journal of Agronomy, 2020, 112, 125951.	4.1	32
7	Genomic-based root plasticity to enhance abiotic stress adaptation and edible yield in grain crops. Plant Science, 2020, 295, 110365.	3.6	10
8	Physiological and Biochemical Basis of Faba Bean Breeding for Drought Adaptationâ€"A Review. Agronomy, 2020, 10, 1345.	3.0	28
9	Evaluation of yield, yield stability, and yieldâ€"protein relationship in 17 commercial faba bean cultivars. , 2020, 2, e39.		22
10	Response of Soil Bacterial Community Diversity and Composition to Time, Fertilization, and Plant Species in a Sub-Boreal Climate. Frontiers in Microbiology, 2020, 11, 1780.	3.5	7
11	Preparation and Characterization of Emulsion Gels from Whole Faba Bean Flour. Foods, 2020, 9, 755.	4.3	28
12	The transgenerational effects of solar short-UV radiation differed in two accessions of Vicia faba L. from contrasting UV environments. Journal of Plant Physiology, 2020, 248, 153145.	3.5	6
13	Association of Shoot and Root Responses to Water Deficit in Young Faba Bean (Vicia faba L.) Plants. Frontiers in Plant Science, 2019, 10, 1063.	3.6	15
14	Eliminating vicine and convicine, the main anti-nutritional factors restricting faba bean usage. Trends in Food Science and Technology, 2019, 91, 549-556.	15.1	84
15	Responses of flavonoid profile and associated gene expression to solar blue and UV radiation in two accessions of Vicia faba L. from contrasting UV environments. Photochemical and Photobiological Sciences, 2019, 18, 434-447.	2.9	26
16	Genetic analysis of photosynthesisâ€related traits in faba bean (Vicia faba) for crop improvement. Plant Breeding, 2019, 138, 761-769.	1.9	8
17	Plant species and growing season weather influence the efficiency of selenium biofortification. Nutrient Cycling in Agroecosystems, 2019, 114, 111-124.	2.2	12
18	Palindromic sequence-targeted (PST) PCR: a rapid and efficient method for high-throughput gene characterization and genome walking. Scientific Reports, 2019, 9, 17707.	3.3	21

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19	Genotypic variation in leaf epicuticular wax quantity in a large faba bean (Vicia faba L.) germplasm collection. Plant Genetic Resources: Characterisation and Utilisation, 2019, 17, 298-300.	0.8	3
20	Rust resistance in faba bean (Vicia faba L.): status and strategies for improvement. Australasian Plant Pathology, 2018, 47, 71-81.	1.0	10
21	Grain legume yields are as stable as other spring crops in long-term experiments across northern Europe. Agronomy for Sustainable Development, 2018, 38, 63.	5.3	55
22	David Bond and Jean Picard: Two pivotal breeders of faba bean in the 20th century. Plant Genetic Resources: Characterisation and Utilisation, 2018, 16, 483-487.	0.8	2
23	A multi-parent faba bean (Vicia faba L.) population for future genomic studies. Plant Genetic Resources: Characterisation and Utilisation, 2018, 16, 419-423.	0.8	16
24	ILB 938, a valuable faba bean (Vicia faba L.) accession. Plant Genetic Resources: Characterisation and Utilisation, 2018, 16, 478-482.	0.8	22
25	Efficient and sustainable production of faba bean. Burleigh Dodds Series in Agricultural Science, 2018, , 269-296.	0.2	6
26	Fertilizer and intercropped legumes as nitrogen source for Jerusalem artichoke (Helianthus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462 Tc	0.9	7
27	Cultivating forage maize for biomass and bioenergy in a sub-boreal climate. Agricultural and Food Science, 2018, 27, .	0.9	2
28	Ion beam irradiation mutagenesis in rye (Secale cereale L.), linseed (Linum usitatissimum L.) and faba bean (Vicia faba L.). Agricultural and Food Science, 2018, 27, .	0.9	8
29	Diversity in root growth responses to moisture deficit in young faba bean (Vicia faba L.) plants. PeerJ, 2018, 6, e4401.	2.0	33
30	Proposal for C-Hordein as Reference Material in Gluten Quantification. Journal of Agricultural and Food Chemistry, 2017, 65, 2155-2161.	5.2	12
31	Progress towards flowering of faba bean (<scp>V</scp>icia fabaÂ<scp>L</scp>.) is more than photothermal. Journal of Agronomy and Crop Science, 2017, 203, 385-396.	3.5	13
32	Oxidation of proline decreases immunoreactivity and alters structure of barley prolamin. Food Chemistry, 2017, 214, 597-605.	8.2	12
33	Development and validation of a robust, breeder-friendly molecular marker for the vc - locus in faba bean. Molecular Breeding, 2017, 37, 1.	2.1	35
34	Grain legumes: an overview.. , 2017, , 70-87.		5
35	Screening of faba bean (Vicia fabaL.) accessions to acidity and aluminium stresses. PeerJ, 2017, 5, e2963.	2.0	26
36	Trade-Offs between Economic and Environmental Impacts of Introducing Legumes into Cropping Systems. Frontiers in Plant Science, 2016, 7, 669.	3.6	111

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37	A <scp>SNP</scp>â€based consensus genetic map for synteny-based trait targeting in faba bean (<i>Vicia) Tj ETQq1 1 0.784314 rgB	8.3	101
38	A cropping system assessment frameworkâ€"Evaluating effects of introducing legumes into crop rotations. European Journal of Agronomy, 2016, 76, 186-197.	4.1	123
39	Grain legume decline and potential recovery in European agriculture: a review. Agronomy for Sustainable Development, 2016, 36, 1.	5.3	146
40	In silico evaluation of plant genetic resources to search for traits for adaptation to climate change. Climatic Change, 2016, 134, 667-680.	3.6	3
41	Faba bean flavour and technological property improvement by thermal pre-treatments. LWT - Food Science and Technology, 2016, 68, 295-305.	5.2	94
42	Pre-crop effects on the nutrient composition and utilization efficiency of faba bean (Vicia faba L.) and narrow-leafed lupin (Lupinus angustifolius L.). Nutrient Cycling in Agroecosystems, 2015, 103, 311-327.	2.2	10
43	Nutritive quality and protein production from grain legumes in a boreal climate. Journal of the Science of Food and Agriculture, 2015, 95, 2053-2064.	3.5	74
44	The future of lupin as a protein crop in Europe. Frontiers in Plant Science, 2015, 6, 705.	3.6	203
45	Earthworm communities under boreal grass and legume bioenergy crops in pure stands and mixtures. Pedobiologia, 2015, 58, 49-54.	1.2	6
46	Determination of vicine and convicine from faba bean with an optimized high-performance liquid chromatographic method. Food Research International, 2015, 76, 168-177.	6.2	36
47	Retrieval of leaf chlorophyll content in field crops using narrow-band indices: effects of leaf area index and leaf mean tilt angle. International Journal of Remote Sensing, 2015, 36, 6031-6055.	2.9	23
48	Nitrous oxide emissions from perennial grassâ€"legume intercrop for bioenergy use. Nutrient Cycling in Agroecosystems, 2015, 101, 211-222.	2.2	15
49	Fusarium-suppressive effects of green manure of turnip rape. European Journal of Soil Biology, 2015, 69, 41-51.	3.2	2
50	Flanking SNP markers for vicineâ€"convicine concentration in faba bean (Vicia faba L.). Molecular Breeding, 2015, 35, 1.	2.1	36
51	Perennial crop growth in oil-contaminated soil in a boreal climate. Science of the Total Environment, 2015, 532, 752-761.	8.0	12
52	Faba Bean. Handbook of Plant Breeding, 2015, , 141-178.	0.1	38
53	Winter turnip rape as a soil N scavenging catch crop in a cool humid climate. Agronomy for Sustainable Development, 2015, 35, 359-366.	5.3	18
54	Effects of Break Crops on Yield and Grain Protein Concentration of Barley in a Boreal Climate. PLoS ONE, 2015, 10, e0130765.	2.5	5

#	Article	IF	Citations
55	Biochar application to a fertile sandy clay loam in boreal conditions: effects on soil properties and yield formation of wheat, turnip rape and faba bean. Plant and Soil, 2014, 374, 89-107.	3.7	115
56	The effects of a permanently elevated water table in an acid sulphate soil on reed canary grass for combustion. Plant and Soil, 2014, 375, 149-158.	3.7	4
57	Short-term effects of biochar on soil properties and wheat yield formation with meat bone meal and inorganic fertiliser on a boreal loamy sand. Agriculture, Ecosystems and Environment, 2014, 191, 108-116.	5.3	122
58	Use of synteny to identify candidate genes underlying QTL controlling stomatal traits in faba bean (Vicia faba L.). Theoretical and Applied Genetics, 2014, 127, 2371-2385.	3.6	61
59	Genetic analysis reveals a novel locus in Vicia faba decoupling pigmentation in the flower from that in the extra-floral nectaries. Molecular Breeding, 2014, 34, 1507-1513.	2.1	13
60	Photographic measurement of leaf angles in field crops. Agricultural and Forest Meteorology, 2014, 184, 137-146.	4.8	68
61	The EUâ€™s dependency on soya bean import for the animal feed industry and potential for EU produced alternatives. OCL - Oilseeds and Fats, Crops and Lipids, 2014, 21, D407.	1.4	116
62	Adaptation of spring faba bean types across European climates. Field Crops Research, 2013, 145, 1-9.	5.1	52
63	Content of zinc, iron and their absorption inhibitors in Nicaraguan common beans (Phaseolus) Tj ETQq1 1 0.784314 rgBT /Overlock 1	8.2	24
64	Do faba bean (Vicia faba L.) accessions from environments with contrasting seasonal moisture availabilities differ in stomatal characteristics and related traits?. Genetic Resources and Crop Evolution, 2013, 60, 2343-2357.	1.6	28
65	Biomass yield and quality of bioenergy crops grown with synthetic and organic fertilizers. Biomass and Bioenergy, 2013, 59, 477-485.	5.7	57
66	Improved sustainability of feedstock production with sludge and interacting mycorrhiza. Chemosphere, 2013, 91, 1236-1242.	8.2	40
67	A baseline study of vicineâ€“convicine levels in faba bean (Vicia faba L.) germplasm. Plant Genetic Resources: Characterisation and Utilisation, 2013, 11, 250-257.	0.8	35
68	Words for traditional Eurasian grain legumes in Uralic languages. Dialectologia Et Geolinguistica, 2013, 21, 123-131.	0.1	0
69	The FIGS (Focused Identification of Germplasm Strategy) Approach Identifies Traits Related to Drought Adaptation in Vicia faba Genetic Resources. PLoS ONE, 2013, 8, e63107.	2.5	138
70	Feedstock quality and growth of bioenergy crops fertilized with sewage sludge. Chemosphere, 2012, 89, 1211-1217.	8.2	56
71	Conversion of Carbohydrates in Herbaceous Crops during Anaerobic Digestion. Journal of Agricultural and Food Chemistry, 2012, 60, 7934-7940.	5.2	8
72	Faba bean adaptation to autumn sowing under European climates. Agronomy for Sustainable Development, 2012, 32, 727-734.	5.3	49

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73	New sources of earliness for Finnish faba bean breeding. Suomen Maataloustieteellisen Seuran Tiedote, 2012, , 1-4.	0.0	1
74	High moisture acid sulphate soil effects on reed canary grass. Suomen Maataloustieteellisen Seuran Tiedote, 2012, , 1-6.	0.0	0
75	Increasing the range of legume crops for Finnish crop rotations. Suomen Maataloustieteellisen Seuran Tiedote, 2012, , 1-4.	0.0	1
76	Pilaantuneiden maa-alueiden puhdistus bioenergiakasvien avulla. Suomen Maataloustieteellisen Seuran Tiedote, 2012, , 1-4.	0.0	0
77	Evaluation of preservation methods for improving biogas production and enzymatic conversion yields of annual crops. Biotechnology for Biofuels, 2011, 4, 20.	6.2	69
78	Achievements in breeding autumn-sown annual legumes for temperate regions with emphasis on the continental Balkans. Euphytica, 2011, 180, 57.	1.2	36
79	Evaluation of annual bioenergy crops in the boreal zone for biogas and ethanol production. Biomass and Bioenergy, 2011, 35, 3071-3078.	5.7	57
80	Revitalizing the winter turnip rape crop in the northern latitudes. Acta Agriculturae Scandinavica - Section B Soil and Plant Science, 2011, 61, 195-201.	0.6	7
81	Mutual Legume Intercropping for Forage Production in Temperate Regions. Sustainable Agriculture Reviews, 2011, , 347-365.	1.1	14
82	The legume manifesto: (Net)workers on Fabaceae, unite!. Ratarstvo I Povrtarstvo, 2011, 48, 253-258.	0.5	5
83	Winter hardiness in faba bean: Physiology and breeding. Field Crops Research, 2010, 115, 287-296.	5.1	104
84	Physiology of flowering and grain filling in faba bean. Field Crops Research, 2010, 115, 234-242.	5.1	83
85	Integrated pest management in faba bean. Field Crops Research, 2010, 115, 308-318.	5.1	174
86	Faba bean breeding for drought-affected environments: A physiological and agronomic perspective. Field Crops Research, 2010, 115, 279-286.	5.1	160
87	Genetic variability in the physiological responses of Andean lupin to drought stress. Suomen Maataloustieteellisen Seuran Tiedote, 2010, , 1-5.	0.0	4
88	New annual legume crops for Finnish conditions. Suomen Maataloustieteellisen Seuran Tiedote, 2010, , 1-4.	0.0	1
89	SEWAGE SLUDGE AS NUTRIENT SOURCE FOR BIOENERGY CROPS. Suomen Maataloustieteellisen Seuran Tiedote, 2010, , 1-5.	0.0	1
90	Kasvibiomassan laadullinen soveltuvuus bioenergian raaka-aineeksi. Suomen Maataloustieteellisen Seuran Tiedote, 2010, , 1-6.	0.0	0

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91	Kasvien fytoremediaatiopotentiaali CCA:lla saastuneen maan puhdistuksessa. Suomen Maataloustieteellisen Seuran Tiedote, 2010, , .	0.0	0
92	Starch characterisation and variability in GBSS loci of synthetic hexaploid wheats and their durum and Aegilops tauschii parents. Euphytica, 2009, 167, 203-216.	1.2	5
93	Legumes in Finnish agriculture: history, present status and future prospects. Agricultural and Food Science, 2009, 18, 191.	0.9	49
94	Interaction of heat-moisture conditions and physical properties in oat processing: I. Mechanical properties of steamed oat groats. Journal of Cereal Science, 2008, 47, 239-244.	3.7	12
95	Interaction of heatâ€“moisture conditions and physical properties in oat processing: II. Flake quality. Journal of Cereal Science, 2008, 48, 288-293.	3.7	19
96	Comparison of Methods for Colorimetric Amylose Determination in Cereal Grains. Starch/Staerke, 2007, 59, 357-365.	2.1	47
97	Evaluation of physiological traits for improving drought tolerance in faba bean (Vicia faba L.). Plant and Soil, 2007, 292, 205-217.	3.7	112
98	Developmental Regulation of Mannan, Arabinogalactanâ€Protein, and Pectic Epitopes in Pistils of Vicia faba (Faba Bean). International Journal of Plant Sciences, 2006, 167, 919-932.	1.3	14
99	Screening techniques and sources of resistance to abiotic stresses in cool-season food legumes. Euphytica, 2006, 147, 167-186.	1.2	181
100	WHEAT STARCH GRANULE SIZE. , 2005, , 461-465.		1
101	Genetic analysis of quantitative traits in rice (Oryza sativa L.) exposed to salinity. Australian Journal of Agricultural Research, 2004, 55, 1173.	1.5	11
102	Genetics of starch granule size distribution in tetraploid and hexaploid wheats. Australian Journal of Agricultural Research, 2003, 54, 637.	1.5	18
103	Lupin Flours as Additives: Dough Mixing, Breadmaking, Emulsifying, and Foaming. Cereal Chemistry, 2002, 79, 662-669.	2.2	60
104	Synergistic and Additive Effects of Three High Molecular Weight Glutenin Subunit Loci. I. Effects on Wheat Dough Rheology. Cereal Chemistry, 2002, 79, 294-300.	2.2	42
105	Synergistic and Additive Effects of Three High Molecular Weight Glutenin Subunit Loci. II. Effects on Wheat Dough Functionality and End-Use Quality. Cereal Chemistry, 2002, 79, 301-307.	2.2	49
106	Genetic analysis of partial rust resistance in faba beans. Australian Journal of Agricultural Research, 2001, 52, 73.	1.5	11
107	Screening of Chickpeas for Adaptation to Autumn Sowing. Journal of Agronomy and Crop Science, 2001, 186, 193-207.	3.5	17
108	Evaluation of the 40 mg Swelling Test for Measuring Starch Functionality. Starch/Staerke, 2001, 53, 14-20.	2.1	89

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109	Evaluating faba beans for rust resistance using detached leaves. Euphytica, 2001, 117, 47-57.	1.2	21
110	Response of canola to different heat stresses. Australian Journal of Agricultural Research, 2001, 52, 817.	1.5	51
111	Effects of Gliadin Fractions on Functional Properties of Wheat Dough Depending on Molecular Size and Hydrophobicity. Cereal Chemistry, 2001, 78, 138-141.	2.2	69
112	Optimized Methods for Incorporating Glutenin Subunits into Wheat Dough for Extension and Baking Studies. Cereal Chemistry, 2000, 77, 731-736.	2.2	16
113	Characterization of Starch in Aegilops Species. Cereal Chemistry, 2000, 77, 445-447.	2.2	39
114	Genetics of wheat starch B-granule content. Euphytica, 2000, 112, 23-31.	1.2	12
115	Genetics of resistance to ascochyta blight in two populations of faba bean. Euphytica, 2000, 112, 101-107.	1.2	22
116	Effects of Incorporated Glutenins on Functional Properties of Wheat Dough. Cereal Chemistry, 2000, 77, 737-743.	2.2	64
117	Effects of Nitrogen and Sulfur Fertilization on Commercial-Scale Wheat Quality and Mixing Requirements. Cereal Chemistry, 2000, 77, 791-797.	2.2	15
118	Basic Rheology of Bread Dough with Modified Protein Content and Glutenin-to-Gliadin Ratios. Cereal Chemistry, 2000, 77, 744-749.	2.2	104
119	Effects of Nitrogen and Sulfur Fertilizer on Protein Composition, Mixing Requirements, and Dough Strength of Four Wheat Cultivars. Cereal Chemistry, 2000, 77, 798-807.	2.2	36
120	Evaluating faba beans for resistance to ascochyta blight using detached organs. Australian Journal of Experimental Agriculture, 2000, 40, 707.	1.0	14
121	Link Between Mixing Requirements and Dough Strength. Cereal Chemistry, 1999, 76, 800-806.	2.2	33
122	Starch Extraction and Amylose Analysis from Half Seeds. Starch/Staerke, 1999, 51, 62-66.	2.1	29
123	Amylose Content in Segregating Populations of Einkorn, Emmer, and Rye. Starch/Staerke, 1999, 51, 66-73.	2.1	9
124	Variation in Faba Bean Amylose Content. Starch/Staerke, 1999, 51, 259-262.	2.1	11
125	Effect of Varying Protein Content and Glutenin-to-Gliadin Ratio on the Functional Properties of Wheat Dough. Cereal Chemistry, 1999, 76, 389-394.	2.2	170
126	Variation in Grain Mass, Grain Nitrogen, and Starch B-Granule Content Within Wheat Heads. Cereal Chemistry, 1999, 76, 139-144.	2.2	40

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127	Survey of Starch Particle-Size Distribution in Wheat and Related Species. Cereal Chemistry, 1999, 76, 145-149.	2.2	126
128	Variability of Ascochyta fabae in South Australia. Australian Journal of Agricultural Research, 1999, 50, 1475.	1.5	26
129	Starch Extraction and Amylose Analysis from Half Seeds. Starch/Staerke, 1999, 51, 62-66.	2.1	0
130	Survey of amylose content in Secale cereale, triticum monococcum, T. turgidum and T. tauschii. Journal of Cereal Science, 1998, 28, 273-280.	3.7	36
131	A rapid antibody-based test for Sec-2, a marker for the short arm of chromosome 2 of rye (2RS). Genome, 1996, 39, 1006-1012.	2.0	8
132	Genetic distance and its association with heterosis in peas. Euphytica, 1994, 73, 255-264.	1.2	7
133	Derivation of superior F5 lines from heterotic hybrids in pea. Euphytica, 1994, 73, 265-272.	1.2	11
134	Heterosis for yield and related characters in pea. Euphytica, 1994, 80, 39-48.	1.2	32
135	Limits to Retention of Fertilized Flowers in Faba Beans (Vicia faba L.). Journal of Agronomy and Crop Science, 1993, 171, 251-259.	3.5	13
136	Termination of flowering in â€˜indeterminateâ€™ faba beans (Vicia faba). Journal of Agricultural Science, 1993, 120, 79-87.	1.3	3
137	Variability in grain protein concentration of peas and lentils grown in Australia. Australian Journal of Agricultural Research, 1993, 44, 1415.	1.5	19
138	Pollen vectors and pollination of faba beans in southern Australia. Australian Journal of Agricultural Research, 1991, 42, 1173.	1.5	13
139	Variability in grain protein in Australian hexaploid wheats. Australian Journal of Agricultural Research, 1990, 41, 277.	1.5	46
140	The Pollination Requirements of the Faba Bean. Bee World, 1987, 68, 144-152.	0.8	59
141	Floral Viability and Pollen Tube Growth in Vicia faba L.. Journal of Plant Physiology, 1986, 123, 249-262.	3.5	21
142	Pollination and fertilization in commercial crops of field beans (Vicia faba L.). Journal of Agricultural Science, 1986, 106, 89-97.	1.3	28
143	Effects of irrigation, plant density and genotype on pollination, fertilization and seed development in spring field beans (Vicia faba L.). Journal of Agricultural Science, 1986, 107, 347-355.	1.3	7
144	Pollination, fertilization and seed development in winter stocks of faba beans (Vicia faba L.). Euphytica, 1986, 35, 925-934.	1.2	11

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145	Pollination, Fertilization and Seed Development in Inbred Lines and F1 Hybrids of Spring Faba Beans (Vicia faba L.). Plant Breeding, 1986, 97, 210-221.	1.9	6
146	The distribution of immature thrips among flowers of faba beans in commercial crops and experimental plots. Annals of Applied Biology, 1986, 109, 61-69.	2.5	1
147	The Incidence of Ovule Fertilization in Faba Bean Flowers from Commercial Crops and from Experimental Plots of Contrasting Genotypes. , 1984, , 247-254.		1
148	Evaluation of colour transparency films for photomicrography of fluorescent structures. Histochemistry, 1981, 73, 121-129.	1.9	0
149	Effects of Excision of Stock and Scion Organs on the Formation of the Graft Union in Coleus: A Histological Study. Botanical Gazette, 1980, 141, 401-412.	0.6	31
150	Histology of the development of the graft union in pea roots. Canadian Journal of Botany, 1979, 57, 1486-1501.	1.1	37
151	Extractability and size distribution studies on wheat proteins using flow-field flow fractionation. Special Publication - Royal Society of Chemistry, 0, , 149-153.	0.0	0
152	Quantity of quality? addressing the protein paradox of flour functionality. Special Publication - Royal Society of Chemistry, 0, , 396-399.	0.0	0
153	Methods for incorporating added glutenin subunits into the gluten matrix for extension and baking tests. Special Publication - Royal Society of Chemistry, 0, , 417-420.	0.0	0