

# Kurt Gebruers

## List of Publications by Citations

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91  
papers

4,121  
citations

35  
h-index

62  
g-index

94  
ext. papers

4,435  
ext. citations

4.6  
avg, IF

4.63  
L-index

#	Paper	IF	Citations
91	Wheat flour constituents: how they impact bread quality, and how to impact their functionality. <i>Trends in Food Science and Technology</i> , <b>2005</b> , 16, 12-30	15.3	603
90	The HEALTHGRAIN Cereal Diversity Screen: concept, results, and prospects. <i>Journal of Agricultural and Food Chemistry</i> , <b>2008</b> , 56, 9699-709	5.7	191
89	Variation in the content of dietary fiber and components thereof in wheats in the HEALTHGRAIN Diversity Screen. <i>Journal of Agricultural and Food Chemistry</i> , <b>2008</b> , 56, 9740-9	5.7	183
88	Phytochemical and dietary fiber components in barley varieties in the HEALTHGRAIN Diversity Screen. <i>Journal of Agricultural and Food Chemistry</i> , <b>2008</b> , 56, 9767-76	5.7	144
87	Phytochemicals and dietary fiber components in rye varieties in the HEALTHGRAIN Diversity Screen. <i>Journal of Agricultural and Food Chemistry</i> , <b>2008</b> , 56, 9758-66	5.7	134
86	Phytochemical and fiber components in oat varieties in the HEALTHGRAIN Diversity Screen. <i>Journal of Agricultural and Food Chemistry</i> , <b>2008</b> , 56, 9777-84	5.7	126
85	TLXI, a novel type of xylanase inhibitor from wheat ( <i>Triticum aestivum</i> ) belonging to the thaumatin family. <i>Biochemical Journal</i> , <b>2007</b> , 403, 583-91	3.8	112
84	<i>Triticum aestivum</i> L. endoxylanase inhibitor (TAXI) consists of two inhibitors, TAXI I and TAXI II, with different specificities. <i>Biochemical Journal</i> , <b>2001</b> , 353, 239-244	3.8	106
83	Natural variation in grain composition of wheat and related cereals. <i>Journal of Agricultural and Food Chemistry</i> , <b>2013</b> , 61, 8295-303	5.7	105
82	Structural basis for inhibition of <i>Aspergillus niger</i> xylanase by <i>triticum aestivum</i> xylanase inhibitor-I. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 36022-8	5.4	102
81	Properties of TAXI-type endoxylanase inhibitors. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , <b>2004</b> , 1696, 213-21	4	96
80	Contents of dietary fibre components and their relation to associated bioactive components in whole grain wheat samples from the HEALTHGRAIN diversity screen. <i>Food Chemistry</i> , <b>2013</b> , 136, 1243-8	8.5	80
79	Occurrence of proteinaceous endoxylanase inhibitors in cereals. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , <b>2004</b> , 1696, 193-202	4	68
78	Effects of genotype, harvest year and genotype-by-harvest year interactions on arabinoxylan, endoxylanase activity and endoxylanase inhibitor levels in wheat kernels. <i>Journal of Cereal Science</i> , <b>2008</b> , 47, 180-189	3.8	67
77	<i>Triticum aestivum</i> L. endoxylanase inhibitor (TAXI) consists of two inhibitors, TAXI I and TAXI II, with different specificities. <i>Biochemical Journal</i> , <b>2001</b> , 353, 239-44	3.8	66
76	Grain-associated xylanases: occurrence, variability, and implications for cereal processing. <i>Trends in Food Science and Technology</i> , <b>2009</b> , 20, 495-510	15.3	63
75	Environment and genotype effects on the content of dietary fiber and its components in wheat in the HEALTHGRAIN diversity screen. <i>Journal of Agricultural and Food Chemistry</i> , <b>2010</b> , 58, 9353-61	5.7	62

74	Potential physiological role of plant glycosidase inhibitors. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , <b>2004</b> , 1696, 265-74	4	61
73	Impact of parboiling conditions on Maillard precursors and indicators in long-grain rice cultivars. <i>Food Chemistry</i> , <b>2008</b> , 110, 916-22	8.5	59
72	Combined meta-genomics analyses unravel candidate genes for the grain dietary fiber content in bread wheat ( <i>Triticum aestivum</i> L.). <i>Functional and Integrative Genomics</i> , <b>2011</b> , 11, 71-83	3.8	57
71	Effects of genotype and environment on the content and composition of phytochemicals and dietary fiber components in rye in the HEALTHGRAIN diversity screen. <i>Journal of Agricultural and Food Chemistry</i> , <b>2010</b> , 58, 9372-83	5.7	56
70	Insight into the distribution of arabinoxylans, endoxylanases, and endoxylanase inhibitors in industrial wheat roller mill streams. <i>Journal of Agricultural and Food Chemistry</i> , <b>2006</b> , 54, 8521-9	5.7	50
69	Affinity Chromatography with Immobilised Endoxylanases Separates TAXI- and XIP-type Endoxylanase Inhibitors from Wheat ( <i>Triticum aestivum</i> L.). <i>Journal of Cereal Science</i> , <b>2002</b> , 36, 367-375	3.8	47
68	Recent Advances in Fungal Hydrophobin Towards Using in Industry. <i>Protein Journal</i> , <b>2015</b> , 34, 243-55	3.9	43
67	Hydrophobins, beer foaming and gushing. <i>Cerevisia</i> , <b>2011</b> , 35, 85-101		41
66	Wheat-kernel-associated endoxylanases consist of a majority of microbial and a minority of wheat endogenous endoxylanases. <i>Journal of Agricultural and Food Chemistry</i> , <b>2006</b> , 54, 4028-34	5.7	41
65	Debranning of wheat prior to milling reduces xylanase but not xylanase inhibitor activities in wholemeal and flour. <i>Journal of Cereal Science</i> , <b>2004</b> , 39, 363-369	3.8	41
64	Molecular identification of wheat endoxylanase inhibitor TAXI-I1, member of a new class of plant proteins. <i>FEBS Letters</i> , <b>2003</b> , 540, 259-63	3.8	40
63	Purification and Partial Characterization of an Endoxylanase Inhibitor from Barley. <i>Cereal Chemistry</i> , <b>2001</b> , 78, 453-457	2.4	38
62	A family 11 xylanase from <i>Penicillium funiculosum</i> is strongly inhibited by three wheat xylanase inhibitors. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , <b>2002</b> , 1598, 24-9	4	37
61	Variability in xylanase and xylanase inhibition activities in different cereals in the HEALTHGRAIN diversity screen and contribution of environment and genotype to this variability in common wheat. <i>Journal of Agricultural and Food Chemistry</i> , <b>2010</b> , 58, 9362-71	5.7	36
60	Accumulated Evidence Substantiates a Role for Three Classes of Wheat Xylanase Inhibitors in Plant Defense. <i>Critical Reviews in Plant Sciences</i> , <b>2010</b> , 29, 244-264	5.6	36
59	XIP-type endoxylanase inhibitors in different cereals. <i>Journal of Cereal Science</i> , <b>2003</b> , 38, 317-324	3.8	36
58	Evidence for the involvement of arabinoxylan and xylanases in refrigerated dough syruing. <i>Journal of Agricultural and Food Chemistry</i> , <b>2005</b> , 53, 7623-9	5.7	35
57	A novel method for hydrophobin extraction using CO2 foam fractionation system. <i>Industrial Crops and Products</i> , <b>2013</b> , 43, 372-377	5.9	33

56	Biochemical and structural characterization of TLXI, the <i>Triticum aestivum</i> L. thaumatin-like xylanase inhibitor. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , <b>2009</b> , 24, 646-54	5.6	33
55	Variation in the levels of the different xylanase inhibitors in grain and flour of 20 French wheat cultivars. <i>Journal of Cereal Science</i> , <b>2005</b> , 41, 375-379	3.8	33
54	TAXI type endoxylanase inhibitors in different cereals. <i>Journal of Agricultural and Food Chemistry</i> , <b>2003</b> , 51, 3770-5	5.7	32
53	Purification and characterization of a XIP-type endoxylanase inhibitor from rice ( <i>Oryza sativa</i> ). <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , <b>2005</b> , 20, 95-101	5.6	32
52	Endoxylanase Inhibition Activity in Different European Wheat Cultivars and Milling Fractions. <i>Cereal Chemistry</i> , <b>2002</b> , 79, 613-616	2.4	31
51	Fungal biofilm reactor improves the productivity of hydrophobin HFBII. <i>Biochemical Engineering Journal</i> , <b>2014</b> , 88, 171-178	4.2	29
50	Impact of wheat flour-associated endoxylanases on arabinoxylan in dough after mixing and resting. <i>Journal of Agricultural and Food Chemistry</i> , <b>2007</b> , 55, 7149-55	5.7	28
49	Insight into variability of apparent endoxylanase and endoxylanase inhibitor levels in wheat kernels. <i>Journal of the Science of Food and Agriculture</i> , <b>2006</b> , 86, 1610-1617	4.3	28
48	His374 of wheat endoxylanase inhibitor TAXI-I stabilizes complex formation with glycoside hydrolase family 11 endoxylanases. <i>FEBS Journal</i> , <b>2005</b> , 272, 5872-82	5.7	28
47	Post-translational processing of beta-d-xylanases and changes in extractability of arabinoxylans during wheat germination. <i>Plant Physiology and Biochemistry</i> , <b>2010</b> , 48, 90-7	5.4	27
46	2-D DIGE reveals changes in wheat xylanase inhibitor protein families due to <i>Fusarium graminearum</i> DeltaTri5 infection and grain development. <i>Proteomics</i> , <b>2010</b> , 10, 2303-19	4.8	27
45	Unprocessed barley aleurone endo-beta-1,4-xylanase X-I is an active enzyme. <i>Biochemical and Biophysical Research Communications</i> , <b>2007</b> , 356, 799-804	3.4	27
44	Purification of TAXI-like endoxylanase inhibitors from wheat ( <i>Triticum aestivum</i> L.) whole meal reveals a family of iso-forms. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , <b>2002</b> , 17, 61-8	5.6	26
43	Identification of structural determinants for inhibition strength and specificity of wheat xylanase inhibitors TAXI-IA and TAXI-IIA. <i>FEBS Journal</i> , <b>2009</b> , 276, 3916-27	5.7	25
42	Contribution of wheat endogenous and wheat kernel associated microbial endoxylanases to changes in the arabinoxylan population during breadmaking. <i>Journal of Agricultural and Food Chemistry</i> , <b>2008</b> , 56, 2246-53	5.7	25
41	Xylanase inhibitors bind to nonstarch polysaccharides. <i>Journal of Agricultural and Food Chemistry</i> , <b>2008</b> , 56, 564-70	5.7	24
40	High-level expression, purification, and characterization of recombinant wheat xylanase inhibitor TAXI-I secreted by the yeast <i>Pichia pastoris</i> . <i>Protein Expression and Purification</i> , <b>2004</b> , 37, 39-46	2	24
39	Dynamic Light Scattering (DLS) as a Tool to Detect CO <sub>2</sub> -Hydrophobin Structures and Study the Primary Gushing Potential of Beer. <i>Journal of the American Society of Brewing Chemists</i> , <b>2011</b> , 69, 144-149 <sup>19</sup>		22

38	Relationship between the contents of bioactive components in grain and the release dates of wheat lines in the HEALTHGRAIN diversity screen. <i>Journal of Agricultural and Food Chemistry</i> , <b>2011</b> , 59, 928-33	5.7	22
37	Combined Modeling and Biophysical Characterisation of CO <sub>2</sub> Interaction with Class II Hydrophobins: New Insight into the Mechanism Underpinning Primary Gushing. <i>Journal of the American Society of Brewing Chemists</i> , <b>2012</b> , 70, 249-256	1.9	22
36	A Family of TAXI-like Endoxylanase Inhibitors in Rye. <i>Journal of Cereal Science</i> , <b>2002</b> , 36, 177-185	3.8	22
35	Molecular identification of wheat endoxylanase inhibitor TAXI-II and the determinants of its inhibition specificity. <i>Biochemical and Biophysical Research Communications</i> , <b>2005</b> , 335, 512-22	3.4	21
34	Variability of polymorphic families of three types of xylanase inhibitors in the wheat grain proteome. <i>Proteomics</i> , <b>2008</b> , 8, 1692-705	4.8	20
33	The bread-making functionalities of two <i>Aspergillus niger</i> endoxylanases are strongly dictated by their inhibitor sensitivities. <i>Enzyme and Microbial Technology</i> , <b>2005</b> , 36, 417-425	3.8	20
32	Antibodies against wheat xylanase inhibitors as tools for the selective identification of their homologues in other cereals. <i>Journal of Cereal Science</i> , <b>2006</b> , 44, 59-67	3.8	19
31	Functional importance of Asp37 from a family 11 xylanase in the binding to two proteinaceous xylanase inhibitors from wheat. <i>FEMS Microbiology Letters</i> , <b>2004</b> , 239, 9-15	2.9	19
30	Xylanase XYL1p from <i>Scytalidium acidophilum</i> : site-directed mutagenesis and acidophilic adaptation. <i>Bioresource Technology</i> , <b>2009</b> , 100, 6465-71	11	18
29	Influence of germination time and temperature on the properties of rye malt and rye malt based worts. <i>Journal of Cereal Science</i> , <b>2010</b> , 52, 72-79	3.8	17
28	Effects of fungicide treatment, N-fertilisation and harvest date on arabinoxylan, endoxylanase activity and endoxylanase inhibitor levels in wheat kernels. <i>Journal of Cereal Science</i> , <b>2008</b> , 47, 190-200	3.8	17
27	Immunoblot quantification of three classes of proteinaceous xylanase inhibitors in different wheat ( <i>Triticum aestivum</i> ) cultivars and milling fractions. <i>Journal of Agricultural and Food Chemistry</i> , <b>2009</b> , 57, 1029-35	5.7	16
26	The three classes of wheat xylanase-inhibiting proteins accumulate in an analogous way during wheat ear development and germination. <i>Journal of Plant Physiology</i> , <b>2009</b> , 166, 1253-1262	3.6	16
25	A quantitative portrait of three xylanase inhibiting protein families in different wheat cultivars using 2D-DIGE and multivariate statistical tools. <i>Journal of Proteomics</i> , <b>2009</b> , 72, 484-500	3.9	14
24	Improvement of the retention of ocimene in water phase using Class II hydrophobin HFBII. <i>Flavour and Fragrance Journal</i> , <b>2015</b> , 30, 451-458	2.5	12
23	Biophysical characterisation of hydrophobin enriched foamate. <i>Cerevisia</i> , <b>2014</b> , 38, 129-134		10
22	Characterization of Kafirins in Algerian Sorghum Cultivars. <i>Cereal Chemistry</i> , <b>2009</b> , 86, 487-491	2.4	10
21	Crystal structure of the noncompetitive xylanase inhibitor TLXI, member of the small thaumatin-like protein family. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2010</b> , 78, 2391-4	4.2	10

20	Crystallization and preliminary X-ray diffraction study of two complexes of a TAXI-type xylanase inhibitor with glycoside hydrolase family 11 xylanases from <i>Aspergillus niger</i> and <i>Bacillus subtilis</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2004</b> , 60, 555-7		10
19	Variability in Arabinoxylan, Xylanase Activity, and Xylanase Inhibitor Levels in Hard Spring Wheat. <i>Cereal Chemistry</i> , <b>2013</b> , 90, 240-248	2.4	9
18	Upgraded Model of Primary Gushing: From Nanobubble Formation until Liquid Expulsion. <i>Journal of the American Society of Brewing Chemists</i> , <b>2015</b> , 73, 343-346	1.9	7
17	Thermodynamic View of Primary Gushing. <i>Journal of the American Society of Brewing Chemists</i> , <b>2013</b> , 71, 149-152	1.9	7
16	His22 of TLXI plays a critical role in the inhibition of glycoside hydrolase family 11 xylanases. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , <b>2009</b> , 24, 38-46	5.6	7
15	Sorghum ( <i>Sorghum bicolor</i> L. Moench) contains a XIP-type xylanase inhibitor but none of the TAXI- and TLXI-types. <i>Journal of Cereal Science</i> , <b>2008</b> , 48, 203-212	3.8	7
14	Indirect enzyme-antibody sandwich enzyme-linked immunosorbent assay for quantification of TAXI and XIP type xylanase inhibitors in wheat and other cereals. <i>Journal of Agricultural and Food Chemistry</i> , <b>2007</b> , 55, 7682-8	5.7	7
13	QUANTIFICATION OF ARABINOXYLANS AND THEIR DEGREE OF BRANCHING USING GAS CHROMATOGRAPHY <b>2009</b> , 177-189		6
12	Effect of a magnetic field on dispersion of a hop extract and the influence on gushing of beer. <i>Journal of Food Engineering</i> , <b>2015</b> , 145, 10-18	6	5
11	Effect of the mashing process on the performance of a lipophilic hop extract to reduce the primary gushing of beer. <i>Cerevisia</i> , <b>2013</b> , 38, 71-76		5
10	Hydrophobin purification based on the theory of CO <sub>2</sub> -nanobubbles. <i>Journal of Liquid Chromatography and Related Technologies</i> , <b>2016</b> , 39, 111-118	1.3	4
9	A Curative Method for Primary Gushing of Beer and Carbonated Beverages: Characterization and Application of Antifoam Based on Hop Oils. <i>Journal of the American Society of Brewing Chemists</i> , <b>2014</b> ,	1.9	3
8	Algerian pearl millet ( <i>Pennisetum glaucum</i> L.) contains XIP but not TAXI and TLXI type xylanase inhibitors. <i>Journal of Agricultural and Food Chemistry</i> , <b>2009</b> , 57, 5542-8	5.7	3
7	Quantification of Wheat TAXI and XIP Type Xylanase Inhibitors: A Comparison of Analytical Techniques. <i>Cereal Chemistry</i> , <b>2008</b> , 85, 586-590	2.4	3
6	Crystallization and preliminary X-ray diffraction study of a wheat ( <i>Triticum aestivum</i> L.) TAXI-type endoxylanase inhibitor. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2003</b> , 59, 744-6		2
5	Optimising the Content and Composition of Dietary Fibre in Wheat Grain for End-use Quality <b>2014</b> , 455-466		2
4	Functional xylanase inhibition activity of two molecular forms of recombinant TAXI-IA. <i>Journal of Cereal Science</i> , <b>2010</b> , 52, 516-519	3.8	1
3	Introducing EIT Food: Connecting Businesses, Research Centers, Universities, and Consumers in Europe. <i>Cereal Foods World</i> , <b>2017</b> , 62, 290-291	2	1

2 Wheat Flour Associated Xylanases Affect the AX Population in Dough **2008**, 33-36

1 COMBINING BIOACTIVE COMPONENTS WITH CONVENTIONAL TARGETS IN PLANT BREEDING PROGRAMMES **2009**, 263-272