

# Eric Bertoft

## List of Publications by Year in descending order

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39  
papers

3,661  
citations

245449

24  
h-index

326418

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g-index

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docs citations

40  
times ranked

3219  
citing authors

#	ARTICLE	IF	CITATIONS
1	The molecular structures of starch components and their contribution to the architecture of starch granules: A comprehensive review. <i>Starch/Staerke</i> , 2010, 62, 389-420.	2.2	1,142
2	Understanding Starch Structure: Recent Progress. <i>Agronomy</i> , 2017, 7, 56.	3.1	515
3	Structure–function relationships of starch components. <i>Starch/Staerke</i> , 2015, 67, 55-68.	2.2	339
4	Internal unit chain composition in amylopectins. <i>Carbohydrate Polymers</i> , 2008, 74, 527-543.	10.5	197
5	Small differences in amylopectin fine structure may explain large functional differences of starch. <i>Carbohydrate Polymers</i> , 2016, 140, 113-121.	10.5	146
6	Observations on the impact of amylopectin and amylose structure on the swelling of starch granules. <i>Food Hydrocolloids</i> , 2020, 103, 105663.	10.9	138
7	Impact of different structural types of amylopectin on retrogradation. <i>Food Hydrocolloids</i> , 2018, 80, 88-96.	10.9	134
8	On the importance of organization of glucan chains on thermal properties of starch. <i>Carbohydrate Polymers</i> , 2013, 92, 1653-1659.	10.5	127
9	Building block organisation of clusters in amylopectin from different structural types. <i>International Journal of Biological Macromolecules</i> , 2012, 50, 1212-1223.	7.7	92
10	Physical and Molecular Characterization of Millet Starches. <i>Cereal Chemistry</i> , 2014, 91, 286-292.	2.2	76
11	Fine structure characterization of amylopectins from grain amaranth starch. <i>Carbohydrate Research</i> , 2009, 344, 1701-1708.	2.4	67
12	The fine structure of cassava starch amylopectin. <i>International Journal of Biological Macromolecules</i> , 2010, 47, 317-324.	7.7	57
13	Structural and thermodynamic properties of rice starches with different genetic background. <i>International Journal of Biological Macromolecules</i> , 2007, 41, 391-403.	7.7	55
14	Rheological properties of starches from grain amaranth and their relationship to starch structure. <i>Starch/Staerke</i> , 2010, 62, 302-308.	2.2	55
15	The cluster structure of barley amylopectins of different genetic backgrounds. <i>International Journal of Biological Macromolecules</i> , 2011, 49, 441-453.	7.7	44
16	The fine structure of cassava starch amylopectin. Part 2: Building block structure of clusters. <i>International Journal of Biological Macromolecules</i> , 2010, 47, 325-335.	7.7	43
17	Structure of building blocks in amylopectins. <i>Carbohydrate Research</i> , 2012, 361, 105-113.	2.4	42
18	Relationship between molecular structure and lamellar and crystalline structure of rice starch. <i>Carbohydrate Polymers</i> , 2021, 258, 117616.	10.5	39

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19	Amylopectin starch granule lamellar structure as deduced from unit chain length data. <i>Food Hydrocolloids</i> , 2020, 108, 106053.	10.9	31
20	Unit and internal chain profile of African rice ( <i>Oryza glaberrima</i> ) amylopectin. <i>Carbohydrate Polymers</i> , 2016, 137, 466-472.	10.5	30
21	The building block structure of barley amylopectin. <i>International Journal of Biological Macromolecules</i> , 2011, 49, 900-909.	7.7	27
22	A Study of the Internal Structure in Cassava and Rice Amylopectin. <i>Starch/Staerke</i> , 2009, 61, 557-569.	2.2	26
23	Unit and Internal Chain Profile of Millet Amylopectin. <i>Cereal Chemistry</i> , 2014, 91, 29-34.	2.2	25
24	Morphological, Thermal, and Rheological Properties of Starches from Maize Mutants Deficient in Starch Synthase III. <i>Journal of Agricultural and Food Chemistry</i> , 2016, 64, 6539-6545.	5.3	25
25	Influence of diurnal photosynthetic activity on the morphology, structure, and thermal properties of normal and waxy barley starch. <i>International Journal of Biological Macromolecules</i> , 2017, 98, 188-200.	7.7	25
26	Evolution of amylopectin structure in developing wheat endosperm starch. <i>Carbohydrate Polymers</i> , 2014, 112, 316-324.	10.5	23
27	On the molecular structure of the amylopectin fraction isolated from "high-amylose" maize starches. <i>International Journal of Biological Macromolecules</i> , 2016, 91, 768-777.	7.7	23
28	Impact of full range of amylose contents on the architecture of starch granules*. <i>International Journal of Biological Macromolecules</i> , 2016, 89, 305-318.	7.7	21
29	Molecular Structure and Organization of Starch Granules from Developing Wheat Endosperm. <i>Cereal Chemistry</i> , 2014, 91, 578-586.	2.2	17
30	Structure of clusters and building blocks in amylopectin from developing wheat endosperm. <i>Carbohydrate Polymers</i> , 2014, 112, 325-333.	10.5	16
31	Distinct Properties and Structures Among Crystalline Starch Granules. <i>Starch/Staerke</i> , 2018, 70, 1700240.	2.2	14
32	Molecular and thermal characterization of starches isolated from African rice ( <i>Oryza</i> ) Tj ETQq0 0 0 rgBT /Overlock,10 Tf 50,222 Td (g	2.2	12
33	Structure of Arabidopsis leaf starch is markedly altered following nocturnal degradation. <i>Carbohydrate Polymers</i> , 2015, 117, 1002-1013.	10.5	11
34	Branching patterns in leaf starches from Arabidopsis mutants deficient in diverse starch synthases. <i>Carbohydrate Research</i> , 2015, 401, 96-108.	2.4	10
35	Effect of diurnal photosynthetic activity on the fine structure of amylopectin from normal and waxy barley starch. <i>International Journal of Biological Macromolecules</i> , 2017, 102, 924-932.	7.7	8
36	Structure of clusters and building blocks in amylopectin from African rice accessions. <i>Carbohydrate Polymers</i> , 2016, 148, 125-133.	10.5	5

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37	Internal structure of amylopectin from the pericarp tissue of developing wheat kernels. <i>Starch/Staerke</i> , 2015, 67, 1070-1076.	2.2	4
38	On the architecture of starch granules revealed by iodine vapor binding and lintnerization. Part 1: Microscopic examinations. <i>Biopolymers</i> , 0, , .	2.6	0
39	Perspectives on Starch Structure, Function, and Synthesis in Relation to the Backbone Model of Amylopectin. <i>Biomacromolecules</i> , 0, , .	5.6	0