Lowâ€acrylamide French fries and potato chips

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Citation Report

#	Article	IF	CITATIONS
1	Biotech paper watch. Biotechnology Journal, 2008, 3, 1343-1347.	3.5	0
3	Relevance of genetically modified crops in light of future environmental and legislative challenges to the agriâ€environment. Annals of Applied Biology, 2009, 154, 323-340.	2.5	17
4	New Research Developments on Acrylamide: Analytical Chemistry, Formation Mechanism, and Mitigation Recipes. Chemical Reviews, 2009, 109, 4375-4397.	47.7	104
5	Variation in acrylamide producing potential in potato: Segregation of the trait in a breeding population. Food Chemistry, 2010, 123, 568-573.	8.2	51
6	Effect of Cooking Method (Baking Compared with Frying) on Acrylamide Level of Potato Chips. Journal of Food Science, 2010, 75, E25-9.	3.1	47
7	Suppression of the Vacuolar Invertase Gene Prevents Cold-Induced Sweetening in Potato Â. Plant Physiology, 2010, 154, 939-948.	4.8	165
8	Root and Tuber Crops. , 2010, , .		45
9	Selection and Screening Strategies. , 2010, , 85-143.		1
10	Silencing as a Tool for Transgenic Crop Improvement. , 2010, , 187-199.		0
11	Precise Breeding Through All-Native DNA Transformation. Biotechnology in Agriculture and Forestry, 2010, , 61-77.	0.2	2
12	Gene Silencing in Plants: Transgenes as Targets and Effectors. Biotechnology in Agriculture and Forestry, 2010, , 79-101.	0.2	4
13	Potatoes. , 2010, , 1-52.		17
14	Tuber-Specific Silencing of the Acid Invertase Gene Substantially Lowers the Acrylamide-Forming Potential of Potato. Journal of Agricultural and Food Chemistry, 2010, 58, 12162-12167.	5.2	41
15	The Effects of Storage on the Formation of Aroma and Acrylamide in Heated Potato. ACS Symposium Series, 2010, , 95-109.	0.5	9
17	A two-year investigation towards an effective quality control of incoming potatoes as an acrylamide mitigation strategy in french fries. Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment, 2011, 29, 1-9.	2.3	5
18	Developing Coldâ€Chipping Potato Varieties by Silencing the Vacuolar Invertase Gene. Crop Science, 2011, 51, 981-990.	1.8	38
19	The acrylamide problem: a plant and agronomic science issue. Journal of Experimental Botany, 2012, 63, 2841-2851.	4.8	101
20	Acrylamide formation in fried potato products – Present and future, a critical review on mitigation strategies. Food Chemistry, 2012, 133, 1138-1154.	8.2	206

TATION REPO

#	Article	IF	CITATIONS
21	Tuberâ€specific silencing of <i>asparagine synthetaseâ€1 </i> reduces the acrylamideâ€forming potential of potatoes grown in the field without affecting tuber shape and yield. Plant Biotechnology Journal, 2012, 10, 913-924.	8.3	90
22	Postâ€translational regulation of acid invertase activity by vacuolar invertase inhibitor affects resistance to coldâ€induced sweetening of potato tubers. Plant, Cell and Environment, 2013, 36, 176-185.	5.7	76
23	Acrylamide in Processed Potato Products. American Journal of Potato Research, 2013, 90, 403-424.	0.9	57
24	Reduction of acrylamide formation by vanadium salt in potato French fries and chips. Food Chemistry, 2013, 138, 644-649.	8.2	36
25	Role of polyphenols in acrylamide formation in the fried products of potato tubers with colored flesh. Food Research International, 2013, 54, 753-759.	6.2	34
26	StInvInh2 as an inhibitor of Stvac <scp>INV</scp> 1 regulates the coldâ€induced sweetening of potato tubers by specifically capping vacuolar invertase activity. Plant Biotechnology Journal, 2013, 11, 640-647.	8.3	52
27	Intragenesis and cisgenesis as alternatives to transgenic crop development. Plant Biotechnology Journal, 2013, 11, 395-407.	8.3	213
28	Cisgenesis and Intragenesis: New tools For Improving Crops. Biological Research, 2013, 46, 323-331.	3.4	59
29	Similarities and Differences in Physiological Responses to â€~ <i>Candidatus</i> Liberibacter solanacearum' Infection Among Different Potato Cultivars. Phytopathology, 2014, 104, 126-133.	2.2	31
30	Photosynthetic assimilation of 14C into amino acids in potato (Solanum tuberosum) and asparagine in the tubers. Planta, 2014, 239, 161-170.	3.2	24
31	Genetic variation and possible SNP markers for breeding wheat with low-grain asparagine, the major precursor for acrylamide formation in heat-processed products. Journal of the Science of Food and Agriculture, 2014, 94, 1422-1429.	3.5	24
32	Effect of combining conventional frying with radio-frequency post-drying on acrylamide level and quality attributes of potato chips. Journal of the Science of Food and Agriculture, 2014, 94, 2002-2008.	3.5	22
33	Reducing the potential for processing contaminant formation in cereal products. Journal of Cereal Science, 2014, 59, 382-392.	3.7	47
34	Safety assessment of genetically modified plants with deliberately altered composition. Plant Biotechnology Journal, 2014, 12, 651-654.	8.3	7
35	Evidence for the complex relationship between free amino acid and sugar concentrations and acrylamideâ€forming potential in potato. Annals of Applied Biology, 2014, 164, 286-300.	2.5	63
36	Current issues in dietary acrylamide: formation, mitigation and risk assessment. Journal of the Science of Food and Agriculture, 2014, 94, 9-20.	3.5	145
37	Acrylamide: Formation, Occurrence in Food Products, Detection Methods, and Legislation. Critical Reviews in Food Science and Nutrition, 2014, 54, 708-733.	10.3	64
39	Acrylamide – Still a matter of concern for fried potato food?*. European Journal of Lipid Science and Technology, 2014, 116, 675-687.	1.5	34

ARTICLE IF CITATIONS # Elimination of Acrylamide by Moderate Heat Treatment below 120°C with Lysine and Cysteine. Food 40 0.6 17 Science and Technology Research, 2014, 20, 979-985. New Approaches for Detection of Unique Qualities of Small Fruits. , 2014, , 202-223. 42 Alternative to Transgenesis: Cisgenesis and Intragenesis., 2015, , 345-367. 8 Effective treatment for suppression of acrylamide formation in fried potato chips using L-asparaginase from Bacillus subtilis. 3 Biotech, 2015, 5, 783-789. Acrylamide: inhibition of formation in processed food and mitigation of toxicity in cells, animals, and 44 4.6 107 humans. Food and Function, 2015, 6, 1752-1772. Effects of Water Availability on Free Amino Acids, Sugars, and Acrylamide-Forming Potential in Potato. Journal of Agricultural and Food Chemistry, 2015, 63, 2566-2575. 5.2 37 Acrylamideâ€Forming Potential and Agronomic Properties of Elite US Potato Germplasm from the 46 1.8 9 National Fry Processing Trial. Crop Science, 2016, 56, 30-39. Acrylamide in Potato Products., 2016, , 527-562. 4 48 Fried and Dehydrated Potato Products., 2016, , 459-474. 8 Effect of Organic Potato Farming on Human and Environmental Health and Benefits from New Plant 3.2 Breeding Techniques. Is It Only a Matter of Public Acceptance?. Sustainability, 2016, 8, 1054. RNA Silencing in Plants: Mechanisms, Technologies and Applications in Horticultural Crops. Current 50 142 1.6 Genomics, 2016, 17, 476-489. Genetically modified (GM) crops: milestones and new advances in crop improvement. Theoretical and 3.6 123 Applied Génetics, 2016, 129, 1639-1655. Analysis of protein amino acids, non-protein amino acids and metabolites, dietary protein, glucose, 52 fructose, sucrose, phenolic, and flavonoid content and antioxidative properties of potato tubers, 3.9 62 peels, and cortexes (pulps). Journal of Food Composition and Analysis, 2016, 50, 77-87. Intragenic modification of maize. Journal of Biotechnology, 2016, 238, 35-41. 3.8 Acrylamide in ready-to-eat foods., 2016, , 353-382. 2 54 Cisgenesis and genome editing: combining concepts and efforts for a smarter use of genetic resources in crop breeding. Plant Breeding, 2016, 135, 139-147. Crop biotechnology: a pivotal moment for global acceptance. Food and Energy Security, 2016, 5, 3-17. 56 4.3 16 Reducing the Acrylamide-Forming Potential of Wheat, Rye and Potato: A Review. ACS Symposium Series, 2016, , 35-53.

CITATION REPORT

#	Article	IF	CITATIONS
58	GM Foods or Not? The Controversy. , 2016, , 234-307.		0
59	Silencing of vacuolar invertase and asparagine synthetase genes and its impact on acrylamide formation of fried potato products. Plant Biotechnology Journal, 2016, 14, 709-718.	8.3	50
60	Inhibition of Acrylamide Formation by Vanadium Salt in French Fries and Potato Chips. , 2016, , 393-403.		0
61	Nutrient Assessment of GMOs. , 2017, , 15-62.		Ο
62	Safety Assessment of Genetically Modified Foods. , 2017, , .		5
63	Protective effect of Hesperidin and Tiger nut against Acrylamide toxicity in female rats. Experimental and Toxicologic Pathology, 2017, 69, 580-588.	2.1	32
64	Crop Improvement. , 2017, , .		3
65	Acrylamide levels in potato crisps in Europe from 2002 to 2016. Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment, 2017, 34, 2085-2100.	2.3	40
66	Cisgenesis and Intragenesis as New Strategies for Crop Improvement. , 2017, , 191-216.		2
67	Review and Analysis of Limitations in Ways to Improve Conventional Potato Breeding. Potato Research, 2017, 60, 171-193.	2.7	41
68	Advances in Asparagine Metabolism. Progress in Botany Fortschritte Der Botanik, 2017, , 49-74.	0.3	5
69	Acrylamide-forming potential of potatoes grown at different locations, and the ratio of free asparagine to reducing sugars at which free asparagine becomes a limiting factor for acrylamide formation. Food Chemistry, 2017, 220, 76-86.	8.2	75
70	Somatic Cell Genetics and Its Application in Potato Breeding. Compendium of Plant Genomes, 2017, , 217-268.	0.5	4
71	Impact of potato processing on nutrients, phytochemicals, and human health. Critical Reviews in Food Science and Nutrition, 2018, 58, 146-168.	10.3	79
72	Overview on mitigation of acrylamide in starchy fried and baked foods. Journal of the Science of Food and Agriculture, 2018, 98, 4385-4394.	3.5	58
73	Progress and Successes of the Specialty Crop Research Initiative on Acrylamide Reduction in Processed Potato Products. American Journal of Potato Research, 2018, 95, 328-337.	0.9	12
74	Influence of Potato Crisps Processing Parameters on Acrylamide Formation and Bioaccesibility. Molecules, 2019, 24, 3827.	3.8	15
75	Acrylamide in food: Progress in and prospects for genetic and agronomic solutions. Annals of Applied Biology, 2019, 175, 259-281.	2.5	73

CITATION REPORT

#	Article	IF	CITATIONS
77	Improving the Nutritional Value of Potatoes by Conventional Breeding and Genetic Modification. , 2019, , 41-84.		9
78	Genetic strategies for improving crop yields. Nature, 2019, 575, 109-118.	27.8	799
79	Applications of Asparaginase in Food Processing. Energy, Environment, and Sustainability, 2019, , 83-98.	1.0	3
81	Risk-Only Assessment of Genetically Engineered Crops Is Risky. Trends in Plant Science, 2019, 24, 58-68.	8.8	18
82	Transformation of the L-Asparaginase II Gene to Potato Hairy Roots for Production of Recombinant Protein. Journal of Crop Science and Biotechnology, 2020, 23, 81-88.	1.5	8
83	Potato tuber metabolomics-based prediction of chip color quality and application using gas chromatography/flame ionization detector. Bioscience, Biotechnology and Biochemistry, 2020, 84, 2193-2198.	1.3	0
84	Roasted Rye as a Coffee Substitute: Methods for Reducing Acrylamide. Foods, 2020, 9, 925.	4.3	7
85	Asparagine accumulation in chicory storage roots is controlled by translocation and feedback regulation of asparagine biosynthesis in leaves. New Phytologist, 2020, 228, 922-931.	7.3	2
86	Potato Tuber Chemical Properties in Storage as Affected by Cultivar and Nitrogen Rate: Implications for Acrylamide Formation. Foods, 2020, 9, 352.	4.3	10
87	Small RNA manipulation in plants: Techniques and recent developments. , 2020, , 379-413.		1
88	Mitigation of Acrylamide in Thermally Processed Foods. , 2021, , 32-43.		0
89	Bioeconomy: Biomass and biomass-based energy supply and demand. New Biotechnology, 2021, 60, 76-84.	4.4	176
90	Gene Editing and Genetic Transformation of Potatoes. , 2021, , 505-551.		0
91	Progress on reducing acrylamide levels in potato crisps in Europe, 2002 to 2019. Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment, 2021, 38, 782-806.	2.3	21
92	Characteristics of French Fries and Potato Chips in Aspect of Acrylamide Content—Methods of Reducing the Toxic Compound Content in Ready Potato Snacks. Applied Sciences (Switzerland), 2021, 11, 3943.	2.5	10
93	Genetically Modified Potato for Pest Resistance: Thrift or Threat?. , 0, , .		3
94	Crop biofortification and food security. , 2022, , 423-436.		5
95	Can gene editing reduce postharvest waste and loss of fruit, vegetables, and ornamentals?. Horticulture Research, 2021, 8, 1.	6.3	122

CITATION REPORT

#	Article	IF	CITATIONS
96	Genetically Modified Crops. , 2016, , 561-590.		1
97	Reducing the Acrylamide-Forming Potential of Crop Plants. Concepts and Strategies in Plant Sciences, 2019, , 377-399.	0.5	1
99	Recent advances in genetic manipulation of crops: A promising approach to address the global food and industrial applications. Plant Science Today, 2020, 7, 70-92.	0.7	8
100	Toxic Effect of Acrylamide on Body Weight, the Study of Antioxidants and Histoarchitecture of Heart in the Developing Chick Embryo. Indian Journal of Applied Research, 2011, 3, 27-30.	0.0	8
101	Potato. CSSA Special Publication - Crop Science Society of America, 0, , 195-217.	0.1	1
102	Contributions of biotechnology to meeting future food and environmental security needs. The EuroBiotech Journal, 2018, 2, 2-9.	1.0	8
103	Effects on Acrylamide Generation under Heating Conditions by Addition of Lysine and Cysteine to Non-centrifugal Cane Sugar. Food Science and Technology Research, 2020, 26, 673-680.	0.6	4
104	Detection and Quantitative Estimation of Toxic Acrylamide Levels in Selected Potatoes Chips and French Fries from the Libyan Market Using HPLC-UV Method. Mağallatì^ Al-Muẗtar Li-l-Ê¿ulÅ«m, 2021, 36, 106-	-19 .1	0
105	<i>Nicotiana benthamiana</i> asparagine synthetase associates with IPâ€L and confers resistance against tobacco mosaic virus via the asparagineâ€induced salicylic acid signalling pathway. Molecular Plant Pathology, 2022, 23, 60-77.	4.2	15
106	Safety and Toxicity of Functional Foods and Nutraceuticals. , 2015, , 9-42.		0
107	Cis-, intra-, subgenesis, genome editing as modern technologies for modifying the crop genomes (review). Plant Varieties Studying and Protection, 2016, .	0.3	0
108	Effect of acrylamide and fructose on some parameters related to metabolic syndrome in adult male rats. The Iraqi Journal of Veterinary Medicine, 2016, 40, 125-135.	0.2	2
109	5. A scientific view of the current status of genetically modified crops, foods and feed in the European Union. , 2017, , 87-110.		0
110	Potato Carbohydrates. , 2020, , 13-36.		4
111	Genetically modified fruit and vegetable - An overview on senescence regulation, postharvest nutraceutical quality preservation and shelf life extension. Journal of Horticultural Science and Biotechnology, 2021, 96, 271-287.	1.9	7
113	Potato improvement through genetic engineering. GM Crops and Food, 2021, 12, 479-496.	3.8	11
114	In planta Agrobacterium-mediated transformation of L-Asparaginase gene into potato (Solanum) Tj ETQq0 0 0 rgB	BT_/Overlo	ck_10 Tf 50 2

115The Intragenesis and Synthetic Biology Approach towards Accelerating Genetic Gains on Strawberry:
Development of New Tools to Improve Fruit Quality and Resistance to Pathogens. Plants, 2022, 11, 57.3.5

#	Article	IF	CITATIONS
116	Genome Editing Technology for Genetic Amelioration of Fruits and Vegetables for Alleviating Post-Harvest Loss. Bioengineering, 2022, 9, 176.	3.5	28
117	Genetic Improvement of Wheat for Drought Tolerance: Progress, Challenges and Opportunities. Plants, 2022, 11, 1331.	3.5	34
118	Molecular Approaches in Conservation and Restoration of Agrobiodiversity. , 2022, , 169-216.		1
119	Cisgenesis in the Era of Genome Editing and Modern Plant Biotechnology. Concepts and Strategies in Plant Sciences, 2022, , 257-279.	0.5	2
121	Cisgenics and Crop Improvement. , 2022, , 107-129.		3
122	Intended and unintended consequences of genetically modified crops – myth, fact and/or manageable outcomes?. New Zealand Journal of Agricultural Research, 2023, 66, 519-619.	1.6	10
123	Multiplex CRISPR-Cas9 Gene-Editing Can Deliver Potato Cultivars with Reduced Browning and Acrylamide. Plants, 2023, 12, 379.	3.5	14
124	Multiomics Approach for Crop Improvement Under Climate Change. , 2023, , 17-36.		0
125	Functional Food Based on Potato. Foods, 2023, 12, 2145.	4.3	3
126	Prospects and challenges associated with GM biofortified crops. , 2023, , 153-165.		0
127	Genetic architecture of tuber-bound free amino acids in potato and effect of growing environment on the amino acid content. Scientific Reports, 2023, 13, .	3.3	3
128	Postharvest technologies for small-scale farmers in low- and middle-income countries: A call to action. Postharvest Biology and Technology, 2023, 206, 112491.	6.0	0
129	Cisgenics and intragenics: boon or bane for crop improvement. Frontiers in Plant Science, 0, 14, .	3.6	0
130	RNA Interference in Agriculture: Methods, Applications, and Governance. , 2024, , .		0
131	Genetic Improvement of Foxtail Millet Through Advanced Biotechnological Methods. , 2024, , 365-382.		0

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Genetic Improvement of Foxtail Millet Through Advanced Biotechnological Methods. , 2024, , 365-382. 131