Dominic Agyei

List of Publications by Year
in descending order

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76 papers	2,264 citations	218677 26 h-index	233421 45 g-index
83 all docs	83 docs citations	83 times ranked	2612 citing authors

#	Article	IF	Citations
1	Industrial-scale manufacturing of pharmaceutical-grade bioactive peptides. Biotechnology Advances, 2011, 29, 272-277.	11.7	284
2	Bioprocess challenges to the isolation and purification of bioactive peptides. Food and Bioproducts Processing, 2016, 98, 244-256.	3.6	200
3	Bioinformatics and peptidomics approaches to the discovery and analysis of food-derived bioactive peptides. Analytical and Bioanalytical Chemistry, 2018, 410, 3463-3472.	3.7	127
4	Recovery and utilization of seaweed pigments in food processing. Current Opinion in Food Science, 2018, 19, 113-119.	8.0	102
5	Rethinking food-derived bioactive peptides for antimicrobial and immunomodulatory activities. Trends in Food Science and Technology, 2012, 23, 62-69.	15.1	98
6	Structural Features, Modification, and Functionalities of Beta-Glucan. Fibers, 2020, 8, 1.	4.0	95
7	Bioprocessing of Functional Ingredients from Flaxseed. Molecules, 2018, 23, 2444.	3.8	79
8	Formulation of water-in-oil-in-water (W/O/W) emulsions containing trans-resveratrol. RSC Advances, 2017, 7, 35917-35927.	3.6	71
9	Pharmaceutical applications of bioactive peptides. OA Biotechnology, 2012, 1, .	0.5	60
10	Microbial Safety of Milk Production and Fermented Dairy Products in Africa. Microorganisms, 2020, 8, 752.	3.6	56
11	Plant RuBisCo: An Underutilized Protein for Food Applications. JAOCS, Journal of the American Oil Chemists' Society, 2018, 95, 1063-1074.	1.9	54
12	Bioactive Proteins and Peptides from Soybeans. Recent Patents on Food, Nutrition & Agriculture, 2015, 7, 100-107.	0.9	48
13	Protein and Peptide Biopharmaceuticals: An Overview. Protein and Peptide Letters, 2017, 24, 94-101.	0.9	48
14	Physicochemical characterisation, molecular docking, and drug-likeness evaluation of hypotensive peptides encrypted in flaxseed proteome. Current Research in Food Science, 2020, 3, 41-50.	5.8	46
15	Ribulose-1,5-bisphosphate carboxylase as a sustainable and promising plant source of bioactive peptides for food applications. Trends in Food Science and Technology, 2017, 69, 74-82.	15.1	43
16	Hygienic Practices among Food Vendors in Educational Institutions in Ghana: The Case of Konongo. Foods, 2013, 2, 282-294.	4.3	42
17	Structure-informed separation of bioactive peptides. Journal of Food Biochemistry, 2019, 43, e12765.	2.9	41
18	Indigenous African fermented dairy products: Processing technology, microbiology and health benefits. Critical Reviews in Food Science and Nutrition, 2020, 60, 991-1006.	10.3	40

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19	Antioxidant peptides encrypted in flaxseed proteome: An in silico assessment. Food Science and Human Wellness, 2019, 8, 306-314.	4.9	37
20	Understanding the impact of Pulsed Electric Fields treatment on the thermal and pasting properties of raw and thermally processed oat flours. Food Research International, 2020, 129, 108839.	6.2	35
21	Cellâ€envelope proteinases from lactic acid bacteria: Biochemical features and biotechnological applications. Comprehensive Reviews in Food Science and Food Safety, 2021, 20, 369-400.	11.7	33
22	Enrichment in specific fatty acids profile of Tenebrio molitor and Hermetia illucens larvae through feeding. Future Foods, 2021, 3, 100016.	5.4	33
23	Evaluation of cross-linked enzyme aggregates of Lactobacillus cell-envelope proteinases, for protein degradation. Food and Bioproducts Processing, 2015, 94, 59-69.	3.6	31
24	Anti-diabetic effects of bioactive peptides: recent advances and clinical implications. Critical Reviews in Food Science and Nutrition, 2022, 62, 2158-2171.	10.3	30
25	Aptamers: an emerging class of bioaffinity ligands in bioactive peptide applications. Critical Reviews in Food Science and Nutrition, 2020, 60, 1195-1206.	10.3	29
26	Understanding the Properties of Starch in Potatoes (Solanum tuberosum var. Agria) after Being Treated with Pulsed Electric Field Processing. Foods, 2019, 8, 159.	4.3	27
27	Deploying aptameric sensing technology for rapid pandemic monitoring. Critical Reviews in Biotechnology, 2016, 36, 1010-1022.	9.0	25
28	A Simple Microfluidic Chip Design for Fundamental Bioseparation. Journal of Analytical Methods in Chemistry, 2014, 2014, 1-6.	1.6	21
29	Structure-informed detection and quantification of peptides in food and biological fluids. Journal of Food Biochemistry, 2019, 43, e12482.	2.9	21
30	In-depth characterization of Lactobacillus delbrueckii subsp. lactis 313 for growth and cell-envelope-associated proteinase production. Biochemical Engineering Journal, 2012, 64, 61-68.	3.6	20
31	Optimisation of Batch Culture Conditions for Cell-Envelope-Associated Proteinase Production from Lactobacillus delbrueckii subsp. lactis ATCCÂ® 7830â„¢. Applied Biochemistry and Biotechnology, 2012, 168, 1035-1050.	2.9	19
32	Quick and low cost immobilization of proteinases on polyesters: Comparison of lactobacilli cell-envelope proteinase and trypsin for protein degradation. Journal of Biotechnology, 2014, 188, 53-60.	3.8	18
33	Structural Basis of Bioactivity of Food Peptides in Promoting Metabolic Health. Advances in Food and Nutrition Research, 2018, 84, 145-181.	3.0	17
34	Nano-Doped Monolithic Materials for Molecular Separation. Separations, 2017, 4, 2.	2.4	16
35	Manufacturing of Plant-Based Bioactive Peptides Using Enzymatic Methods to Meet Health and Sustainability Targets of the Sustainable Development Goals. Frontiers in Sustainable Food Systems, 2021, 5, .	3.9	16
36	A Parametric Study of a Monolithic Microfluidic System for On-Chip Biomolecular Separation. Separation Science and Technology, 2014, 49, 854-860.	2.5	15

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37	Prospects in the use of aptamers for characterizing the structure and stability of bioactive proteins and peptides in food. Analytical and Bioanalytical Chemistry, 2018, 410, 297-306.	3.7	14
38	Antioxidative Peptides Derived from Food Proteins. , 2015, , 417-430.		13
39	Optimization of Î²-galactosidase Production by Batch Cultures of Lactobacillus leichmannii 313 (ATCC) Tj ETQq1 1 0.784314 rgBT /Ov	3.0	13
40	Carbohydrate utilization affects Lactobacillus delbrueckii subsp. lactis 313 cell-enveloped-associated proteinase production. Biotechnology and Bioprocess Engineering, 2012, 17, 787-794.	2.6	12
41	Bioanalytical evaluation of Lactobacillus delbrueckii subsp. lactis 313 cell-envelope proteinase extraction. Chemical Engineering Science, 2013, 95, 323-330.	3.8	12
42	Purification, characterization and thermal inactivation kinetics of Î²-galactosidase from Lactobacillus leichmannii 313. LWT - Food Science and Technology, 2019, 116, 108545.	5.2	12
43	Revisiting the scope and applications of food enzymes from extremophiles. Journal of Food Biochemistry, 2020, 44, e13475.	2.9	12
44	Improving resveratrol bioavailability using water-in-oil-in-water (W/O/W) emulsion: Physicochemical stability, in vitro digestion resistivity and transport properties. Journal of Functional Foods, 2021, 87, 104717.	3.4	12
45	Coacervation Technique as an Encapsulation and Delivery Tool for Hydrophobic Biofunctional Compounds. , 2018, , 235-261.		10
46	Modifications in the physicochemical properties of flour â€œfractionsâ€• after Pulsed Electric Fields treatment of thermally processed oat. Innovative Food Science and Emerging Technologies, 2020, 64, 102406.	5.6	10
47	Preparation and assessment of cross-linked enzyme aggregates (CLEAs) of Î²-galactosidase from Lactobacillus leichmannii 313. Food and Bioproducts Processing, 2020, 124, 82-96.	3.6	9
48	Stabilizing and destabilizing protein surfactant-based foams in the presence of a chemical surfactant: Effect of adsorption kinetics. Journal of Colloid and Interface Science, 2016, 462, 56-63.	9.4	8
49	Synthesis and characterization of calcium-induced peanut protein isolate nanoparticles. RSC Advances, 2017, 7, 53247-53254.	3.6	8
50	Peptides for biopharmaceutical applications. , 2018, , 231-251.		8
51	Macronutrients and mineral composition of wild harvested Prionoplus reticularis edible insect at various development stages: nutritional and mineral safety implications. International Journal of Food Science and Technology, 2022, 57, 6270-6278.	2.7	8
52	Enzyme engineering (immobilization) for food applications. , 2015, , 213-235.		7
53	Process Development for Bioactive Peptide Production. , 2017, , 91-110.		7
54	Kinetics of Colour Development during Frying of Potato Pre-Treated with Pulsed Electric Fields and Blanching: Effect of Cultivar. Foods, 2021, 10, 2307.	4.3	7

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55	Enzymes for food waste remediation and valorisation. , 2015, , 123-145.		6
56	Use of Plant Proteolytic Enzymes for Meat Processing. , 2018, , 43-67.		6
57	Medicinal Chemistry Friendliness of Pigments from Monascus-Fermented Rice and the Molecular Docking Analysis of Their Anti-Hyperlipidemia Properties. Fermentation, 2020, 6, 111.	3.0	6
58	Food quality monitoring through bioinformatics and big data. , 2022, , 733-744.		6
59	Plant-Based Alkaline Fermented Foods as Sustainable Sources of Nutrients and Health-Promoting Bioactive Compounds. Frontiers in Sustainable Food Systems, 0, 6, .	3.9	6
60	Bioactivity Profiling of Peptides From Food Proteins. , 2017, , 49-77.		5
61	The Role of Bioinformatics in the Discovery of Bioactive Peptides. , 2019, , 337-344.		5
62	Food Enzymes From Extreme Environments: Sources and Bioprocessing. , 2019, , 795-816.		5
63	Lipid nutritional indices, regioisomeric distribution, and thermal properties of Tenebrio molitor and Hermetia illucens larvae fat. Journal of Asia-Pacific Entomology, 2022, 25, 101951.	0.9	5
64	Bioprocessing of Plant-Derived Bioactive Phenolic Compounds. , 2017, , 135-181.		4
65	Aptameric Sensing in Food Safety. , 2018, , 259-277.		4
66	Food for Oxidative Stress Relief: Polyphenols. , 2019, , 392-398.		4
67	Enzymes for Use in Functional Foods. , 2019, , 129-147.		4
68	Production and identification of galacto-oligosaccharides from lactose using Î²-D-galactosidases from Lactobacillus leichmannii 313. Carbohydrate Polymer Technologies and Applications, 2021, 2, 100038.	2.6	4
69	Proximate composition and lipid nutritional indices of larvae and pupae of the edible Huhu beetle (Prionoplus reticularis) endemic to New Zealand. Journal of Food Composition and Analysis, 2022, 110, 104578.	3.9	4
70	Edible insects: A bibliometric analysis and current trends of published studies (1953â€“2021). International Journal of Tropical Insect Science, 2022, 42, 3335-3355.	1.0	4
71	Bioinformatics and Chemometrics for Discovering Biologically Active Peptides From Food Proteins. , 2021, , 482-494.		3
72	Parametric Investigation of Batch Adsorption of Proteins onto Polymeric Particles. Current Pharmaceutical Biotechnology, 2015, 16, 816-822.	1.6	1

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73	Anticholinesterase Inhibition, Drug-Likeness Assessment, and Molecular Docking Evaluation of Milk Protein-Derived Opioid Peptides for the Control of Alzheimerâ€™s Disease. Dairy, 2022, 3, 422-437.	2.0	1
74	Editorial (Thematic Issue : Emerging Biopharmaceuticals from Bioactive Peptides). Protein and Peptide Letters, 2017, 24, 92-93.	0.9	0
75	CHAPTER 17. Advances in the Use of Bioinformatics to Discover Biofunctional Food Peptides. Food Chemistry, Function and Analysis, 2021, , 426-459.	0.2	0
76	Bio-active Peptides: Role in Plant Growth and Defense. , 2019, , 1-29.		0