

Raffaele Porta

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105
papers

2,338
citations

27
h-index

42
g-index

111
ext. papers

2,613
ext. citations

5.3
avg, IF

5.22
L-index

#	Paper	IF	Citations
105	Chitosan/whey protein film as active coating to extend Ricotta cheese shelf-life. <i>LWT - Food Science and Technology</i> , 2011 , 44, 2324-2327	5.4	144
104	Chitosan-whey protein edible films produced in the absence or presence of transglutaminase: analysis of their mechanical and barrier properties. <i>Biomacromolecules</i> , 2006 , 7, 744-9	6.9	139
103	Preparation and mechanical properties of edible pectin-soy flour films obtained in the absence or presence of transglutaminase. <i>Journal of Biotechnology</i> , 2003 , 102, 191-8	3.7	132
102	Transglutaminase crosslinked pectin- and chitosan-based edible films: a review. <i>Critical Reviews in Food Science and Nutrition</i> , 2011 , 51, 223-38	11.5	75
101	Fresh-cut fruit and vegetable coatings by transglutaminase-crosslinked whey protein/pectin edible films. <i>LWT - Food Science and Technology</i> , 2017 , 75, 124-130	5.4	67
100	Expression and enzymatic activity of small intestinal tissue transglutaminase in celiac disease. <i>American Journal of Gastroenterology</i> , 2003 , 98, 1813-20	0.7	65
99	Incorporation of whey proteins into cheese curd by using transglutaminase. <i>Biotechnology and Applied Biochemistry</i> , 2003 , 38, 289-95	2.8	62
98	Application of Transglutaminase-Crosslinked Whey Protein/Pectin Films as Water Barrier Coatings in Fried and Baked Foods. <i>Food and Bioprocess Technology</i> , 2014 , 7, 447-455	5.1	56
97	Transglutaminase-catalyzed preparation of chitosan-ovalbumin films. <i>Enzyme and Microbial Technology</i> , 2007 , 40, 437-441	3.8	53
96	Transglutaminase-catalyzed synthesis of trypsin-cyclodextrin conjugates: kinetics and stability properties. <i>Biotechnology and Bioengineering</i> , 2003 , 81, 732-7	4.9	52
95	Immunosuppressive and anti-inflammatory properties of a major protein secreted from the epithelium of the rat seminal vesicles. <i>Biochemical Pharmacology</i> , 1989 , 38, 121-31	6	50
94	Mass spectrometric identification of the amino donor and acceptor sites in a transglutaminase protein substrate secreted from rat seminal vesicles. <i>Biochemistry</i> , 1991 , 30, 3114-20	3.2	48
93	Characterization of Citrus pectin edible films containing transglutaminase-modified phaseolin. <i>Carbohydrate Polymers</i> , 2014 , 106, 200-8	10.3	45
92	Synthesis and resistance to in vitro proteolysis of transglutaminase cross-linked phaseolin, the major storage protein from <i>Phaseolus vulgaris</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2007 , 55, 4717-21	5.2	45
91	Thermal stabilization of trypsin by enzymic modification with beta-cyclodextrin derivatives. <i>Biotechnology and Applied Biochemistry</i> , 2003 , 38, 53-9	2.8	36
90	Effect of transglutaminase on the mechanical and barrier properties of whey protein/pectin films prepared at complexation pH. <i>Journal of Agricultural and Food Chemistry</i> , 2013 , 61, 4593-8	5.7	35
89	Development and properties of new chitosan-based films plasticized with spermidine and/or glycerol. <i>Food Hydrocolloids</i> , 2019 , 87, 245-252	10.6	34

88	Microstructure and properties of bitter vetch (<i>Vicia ervilia</i>) protein films reinforced by microbial transglutaminase. <i>Food Hydrocolloids</i> , 2015 , 50, 102-107	10.6	34
87	Transglutaminase-Induced Chemical and Rheological Properties of Cheese. <i>Food Biotechnology</i> , 2010 , 24, 107-120	2.2	32
86	Transglutaminase-catalyzed site-specific glycosidation of catalase with aminated dextran. <i>Journal of Biotechnology</i> , 2006 , 122, 326-33	3.7	32
85	Cereal dietary proteins with sites for cross-linking by transglutaminase. <i>Phytochemistry</i> , 1990 , 29, 2801-2804	2.0	32
84	Bioactive mesoporous silica nanocomposite films obtained from native and transglutaminase-crosslinked bitter vetch proteins. <i>Food Hydrocolloids</i> , 2018 , 82, 106-115	10.6	31
83	Transglutaminase from rat coagulating gland secretion. Post-translational modifications and activation by phosphatidic acids. <i>Journal of Biological Chemistry</i> , 1996 , 271, 27416-23	5.4	31
82	Basil Essential Oil: Composition, Antimicrobial Properties, and Microencapsulation to Produce Active Chitosan Films for Food Packaging. <i>Foods</i> , 2021 , 10,	4.9	29
81	Rat seminal vesicle protein SV-IV and its transglutaminase-synthesized polyaminated derivative SPD2-SV-IV induce cytokine release from human resting lymphocytes and monocytes in vitro. <i>Cellular Immunology</i> , 1996 , 168, 148-57	4.4	28
80	Inhibition of macrophage phagocytic activity by SV-IV, a major protein secreted from the rat seminal vesicle epithelium. <i>Journal of Reproductive Immunology</i> , 1989 , 16, 269-84	4.2	27
79	Substance P as a transglutaminase substrate: identification of the reaction products by fast atom bombardment mass spectrometry. <i>Analytical Biochemistry</i> , 1988 , 172, 499-503	3.1	27
78	Blend films of pectin and bitter vetch (<i>Vicia ervilia</i>) proteins: Properties and effect of transglutaminase. <i>Innovative Food Science and Emerging Technologies</i> , 2016 , 36, 245-251	6.8	27
77	Biorefining of seed oil cakes as industrial co-streams for production of innovative bioplastics. A review. <i>Trends in Food Science and Technology</i> , 2021 , 109, 259-270	15.3	27
76	Nanochannel-based electrochemical assay for transglutaminase activity. <i>Chemical Communications</i> , 2014 , 50, 13356-8	5.8	25
75	Transglutaminase-mediated modification of ovomucoid: effects on its trypsin inhibitory activity and antigenic properties. <i>Amino Acids</i> , 2013 , 44, 285-92	3.5	24
74	Trehalose-containing hydrocolloid edible films prepared in the presence of transglutaminase. <i>Biopolymers</i> , 2014 , 101, 931-7	2.2	21
73	Properties of a new protein film from bitter vetch (<i>Vicia ervilia</i>) and effect of CaCl ₂ on its hydrophobicity. <i>International Journal of Biological Macromolecules</i> , 2013 , 57, 118-23	7.9	21
72	Role of constituents on the network formation of hydrocolloid edible films. <i>Journal of Food Engineering</i> , 2008 , 89, 195-203	6	21
71	Transglutaminases as biotechnological tools. <i>Progress in Experimental Tumor Research</i> , 2005 , 38, 174-91		21

70	Identification of <i>Prunus armeniaca</i> cultivars by RAPD and SCAR markers. <i>Biotechnology Letters</i> , 2002 , 24, 749-755	3	21
69	Bitter vetch (<i>Vicia ervilia</i>) seed protein concentrate as possible source for production of bilayered films and biodegradable containers. <i>Food Hydrocolloids</i> , 2016 , 60, 232-242	10.6	21
68	Glycerol-Plasticized Films Obtained from Whey Proteins Denatured at Alkaline pH. <i>Coatings</i> , 2019 , 9, 322	2.9	20
67	Transglutaminase-mediated macromolecular assembly: production of conjugates for food and pharmaceutical applications. <i>Amino Acids</i> , 2014 , 46, 767-76	3.5	20
66	Ubiquitination of tissue transglutaminase is modulated by interferon alpha in human lung cancer cells. <i>Biochemical Journal</i> , 2003 , 370, 205-12	3.8	20
65	Dissociation of enhanced ornithine decarboxylase activity and optic nerve regeneration in goldfish. <i>Developmental Brain Research</i> , 1982 , 256, 149-56		20
64	Enzymatic milk clotting activity in artichoke (<i>Cynara scolymus</i>) leaves and alpine thistle (<i>Carduus defloratus</i>) flowers. Immobilization of alpine thistle aspartic protease. <i>Food Chemistry</i> , 2016 , 204, 115-121	8.5	20
63	Polyamines as new cationic plasticizers for pectin-based edible films. <i>Carbohydrate Polymers</i> , 2016 , 153, 222-228	10.3	20
62	Human-immunodeficiency-virus transmembrane glycoprotein gp41 is an amino acceptor and donor substrate for transglutaminase in vitro. <i>FEBS Journal</i> , 1993 , 215, 99-104		19
61	Inhibitory effect of SV-IV, a major protein secreted from the rat seminal vesicle epithelium, on phagocytosis and chemotaxis of human polymorphonuclear leukocytes. <i>Journal of Leukocyte Biology</i> , 1989 , 46, 409-16	6.5	19
60	Characterization and antioxidant activity of bitter vetch protein-based films containing pomegranate juice. <i>LWT - Food Science and Technology</i> , 2016 , 74, 77-83	5.4	19
59	In vivo inhibition of cell-mediated and humoral immune responses to cellular antigens by SV-IV, a major protein secreted from the rat seminal vesicle epithelium. <i>Journal of Reproductive Immunology</i> , 1995 , 28, 15-30	4.2	18
58	An anti-inflammatory protein secreted from the rat seminal vesicle epithelium inhibits the synthesis of platelet-activating factor and the release of arachidonic acid and prostacyclin. <i>FEBS Journal</i> , 1990 , 192, 481-5		17
57	Black Edible Films from Protein-Containing Defatted Cake of Seeds. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	16
56	Substance P and its transglutaminase-synthesized spermine derivative elicit yawning behavior via nitric oxide in rats. <i>Peptides</i> , 2001 , 22, 1453-7	3.8	16
55	Higher susceptibility to amyloid fibril formation of the recombinant ovine prion protein modified by transglutaminase. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2012 , 1822, 1509-15	6.9	15
54	Plasticizing Effects of Polyamines in Protein-Based Films. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6.3	14
53	Transglutaminase-synthesized gamma-(glutamyl ⁵) spermidine derivative of substance P is a selective tool for neurokinin-2 receptors characterization. <i>Peptides</i> , 1998 , 19, 683-90	3.8	13

52	Rat protein SV-IV (seminal vesicle protein No. 4) accelerates human blood coagulation in vitro by selective inhibition of antithrombin III. <i>Biochemical Pharmacology</i> , 1994 , 48, 345-52	6	13
51	Tuning the Functional Properties of Bitter Vetch (<i>Vicia ervilia</i>) Protein Films Grafted with Spermidine. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6.3	12
50	Enzymes as additives or processing AIDS in food biotechnology. <i>Enzyme Research</i> , 2011 , 2010, 436859	2.4	12
49	Promising Perspectives for Transglutaminase In Bioplastics Production. <i>Journal of Biotechnology & Biomaterials</i> , 2011 , 01,	0	12
48	Improved shelf-life of Nabulsi cheese wrapped with hydrocolloid films. <i>Food Hydrocolloids</i> , 2019 , 96, 29-35	10.6	11
47	Putrescine-polysaccharide conjugates as transglutaminase substrates and their possible use in producing crosslinked films. <i>Amino Acids</i> , 2010 , 38, 669-75	3.5	11
46	Transglutaminase-catalysed glycosidation of trypsin with aminated polysaccharides. <i>World Journal of Microbiology and Biotechnology</i> , 2006 , 22, 595-602	4.4	11
45	In vivo and in vitro inhibition of platelet aggregation by SV-IV, a major protein secreted from the rat seminal vesicle epithelium. <i>Biochemical Pharmacology</i> , 1990 , 40, 1157-61	6	11
44	Cerebral polyamine metabolism: inhibition of spermidine biosynthesis by dicyclohexylamine. <i>Journal of Neurochemistry</i> , 1984 , 42, 321-5	6	11
43	Automated chromatographic analysis of human placenta polyamines. <i>Biochemical Medicine</i> , 1978 , 19, 143-7		11
42	Molecular farming of human tissue transglutaminase in tobacco plants. <i>Amino Acids</i> , 2009 , 36, 765-72	3.5	10
41	Inhibition of zymosan-induced air-pouch inflammation by rat seminal vesicle protein and by its spermidine derivative. <i>European Journal of Pharmacology</i> , 1996 , 312, 327-32	5.3	10
40	Biological activities of a major protein secreted from the rat seminal vesicles after structural modification catalyzed by transglutaminase in vitro. <i>Immunopharmacology</i> , 1993 , 25, 179-88		10
39	S-adenosylmethionine decarboxylase from human placenta. <i>International Journal of Biochemistry & Cell Biology</i> , 1977 , 8, 347-52		10
38	Design and characterization of poly (3-hydroxybutyrate-co-hydroxyhexanoate) nanoparticles and their grafting in whey protein-based nanocomposites. <i>Food Hydrocolloids</i> , 2021 , 110, 106167	10.6	10
37	Effect of Mesoporous Silica Nanoparticles on Glycerol-Plasticized Anionic and Cationic Polysaccharide Edible Films. <i>Coatings</i> , 2019 , 9, 172	2.9	9
36	Rat coagulating gland secretion contains a kinesin heavy chain-like protein acting as a type IV transglutaminase substrate. <i>Biochemistry</i> , 2001 , 40, 4966-71	3.2	9
35	The biosynthesis of polyamines in the brain of audiogenic seizure-susceptible and -resistant deermice. <i>Journal of Neurochemistry</i> , 1981 , 37, 723-9	6	9

34	Plastic Pollution and the Challenge of Bioplastics. <i>Journal of Applied Biotechnology & Bioengineering</i> , 2017 , 2,	1.7	9
33	Water Barrier Edible Coatings of Fried Foods. <i>Journal of Biotechnology & Biomaterials</i> , 2012 , 02,	0	8
32	Valorisation of Sea Balls (Egagropili) as a Potential Source of Reinforcement Agents in Protein-Based Biocomposites. <i>Polymers</i> , 2020 , 12,	4.5	7
31	Transglutaminase covalently incorporates amines into human immunodeficiency virus envelope glycoprotein gp120 in vitro. <i>International Journal of Peptide and Protein Research</i> , 1993 , 42, 204-6		7
30	Implication of tissue transglutaminase and desmoplakin in cell adhesion mechanism in human epidermis. <i>Molecular and Cellular Biochemistry</i> , 2000 , 206, 57-65	4.2	7
29	The effect of oxidized ferulic acid on physicochemical properties of bitter vetch (<i>Vicia ervilia</i>) protein-based films. <i>Journal of Applied Polymer Science</i> , 2016 , 133, n/a-n/a	2.9	7
28	Dairy Whey Protein-Based Edible Films and Coatings for Food Preservation 2018 , 439-456		6
27	SV-IV, a major protein secreted from rat seminal vesicle epithelium, promotes lymphocyte cytotoxic activity against the lymphoblastoid Raji cell line in human peripheral blood mononuclear cells. <i>International Journal of Cancer</i> , 1997 , 72, 321-8	7.5	6
26	N-terminus end of rat prostate transglutaminase is responsible for its catalytic activity and GTP binding. <i>International Journal of Biochemistry and Cell Biology</i> , 2003 , 35, 1098-108	5.6	6
25	Biosynthesis of polyamines in mouse brain: effects of methionine sulfoximine and adenosylhomocysteine. <i>Journal of Neurochemistry</i> , 1983 , 40, 836-41	6	6
24	Stabilization of Charged Polysaccharide Film Forming Solution by Sodium Chloride: Nanoparticle Z-Average and Zeta-Potential Monitoring. <i>Journal of Biotechnology & Biomaterials</i> , 2016 , 06,	0	6
23	Transglutaminase Cross-Linked Edible Films and Coatings for Food Applications 2019 , 369-388		6
22	Rye secalin characterisation and use to improve zein-based film performance. <i>International Journal of Food Science and Technology</i> , 2021 , 56, 742-752	3.8	6
21	Host defense peptides identified in human apolipoprotein B as novel food biopreservatives and active coating components. <i>Food Microbiology</i> , 2021 , 99, 103804	6	6
20	Occurrence of 5'-deoxy-5'-methylthioadenosine phosphorylase in the mammalian CNS: distribution and kinetic studies on the rat brain enzyme. <i>Journal of Neurochemistry</i> , 1983 , 40, 487-92	6	5
19	Lignin/Carbohydrate Complex Isolated from Sea Balls (Egagropili): Characterization and Antioxidant Reinforcement of Protein-Based Films. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	5
18	Protein SV-IV promotes nitric oxide production not associated with apoptosis in murine macrophages. <i>European Journal of Cell Biology</i> , 2002 , 81, 185-96	6.1	4
17	Overlapping between fluorescence modifications and activation of prostate transglutaminase induced by sodium dodecyl sulfate. <i>Archives of Biochemistry and Biophysics</i> , 1999 , 366, 47-54	4.1	4

16	Hemp (<i>Cannabis sativa</i>) seed oilcake as a promising by-product for developing protein-based films: Effect of transglutaminase-induced crosslinking. <i>Food Packaging and Shelf Life</i> , 2022 , 31, 100779	8.2	4
15	A biorefinery approach for the conversion of <i>Cynara cardunculus</i> biomass to active films. <i>Food Hydrocolloids</i> , 2022 , 122, 107099	10.6	4
14	Transglutaminase in cell proliferation and transformation. <i>Medical Oncology and Tumor Pharmacotherapy</i> , 1988 , 5, 223-31		3
13	Multiple forms of rabbit lung indoleamine-N-methyltransferase. <i>International Journal of Biochemistry & Cell Biology</i> , 1979 , 10, 919-23		3
12	Functional Properties of Rye Prolamin (Secalin) and Their Improvement by Protein Lipophilization through Capric Acid Covalent Binding. <i>Foods</i> , 2021 , 10,	4.9	3
11	Secalin films acylated with capric acid chloride. <i>Food Bioscience</i> , 2021 , 40, 100879	4.9	3
10	Tobacco BY-2 cells as effective bioreactor for the production of puroindolines. <i>Biotechnology and Applied Biochemistry</i> , 2009 , 53, 193-199	2.8	2
9	Potential use of glycerol- and/or spermidine-plasticized secalin films as leaf surface coatings for sustainable plant disease management. <i>Journal of Cleaner Production</i> , 2021 , 328, 129461	10.3	2
8	Glutamic Acid as Repeating Building Block for Bio-Based Films. <i>Polymers</i> , 2020 , 12,	4.5	2
7	Transglutaminase-mediated crosslinking of a host defence peptide derived from human apolipoprotein B and its effect on the peptide antimicrobial activity. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2021 , 1865, 129803	4	2
6	Secalin enzymatically cross-linked by either papain and N-acetyl-dl-homocysteine thiolactone or transglutaminase: Improving of protein functional properties and film manufacturing. <i>Food Hydrocolloids</i> , 2021 , 120, 106912	10.6	2
5	Tissue transglutaminase expression in quail epiphyseal chondrocytes. <i>Cell Biology International</i> , 1999 , 23, 41-9	4.5	1
4	Protective effect of SV-IV on platelet-activating factor-induced hypotension, bronchoconstriction and gastric mucosal injury. <i>European Journal of Pharmacology</i> , 1993 , 241, 71-4	5.3	1
3	Physicochemical and Antimicrobial Properties of Whey Protein-Based Films Functionalized with Palestinian <i>Satureja capitata</i> Essential Oil. <i>Coatings</i> , 2021 , 11, 1364	2.9	1
2	Indoleamine N-methyltransferase from rabbit lung. <i>Methods in Enzymology</i> , 1987 , 142, 668-74	1.7	
1	Spermine binding to subsynaptosomal fractions of rat brain cortex. <i>Neurochemical Research</i> , 1988 , 13, 369-76	4.6	