Raffaele Porta

List of Publications by Year in Descending Order

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	Hemp (Cannabis sativa) seed oilcake as a promising by-product for developing protein-based films: Effect of transglutaminase-induced crosslinking. *Food Packaging and Shelf Life*, **2022**, 31, 100779	8.2	4
104	A biorefinery approach for the conversion of Cynara cardunculus biomass to active films. *Food Hydrocolloids*, **2022**, 122, 107099	10.6	4
103	Physicochemical and Antimicrobial Properties of Whey Protein-Based Films Functionalized with Palestinian Satureja capitata Essential Oil. *Coatings*, **2021**, 11, 1364	2.9	1
102	Potential use of glycerol- and/or spermidine-plasticized secalin films as leaf surface coatings for sustainable plant disease management. *Journal of Cleaner Production*, **2021**, 328, 129461	10.3	2
101	Functional Properties of Rye Prolamin (Secalin) and Their Improvement by Protein Lipophilization through Capric Acid Covalent Binding. *Foods*, **2021**, 10,	4.9	3
100	Secalin films acylated with capric acid chloride. *Food Bioscience*, **2021**, 40, 100879	4.9	3
99	Rye secalin characterisation and use to improve zein-based film performance. *International Journal of Food Science and Technology*, **2021**, 56, 742-752	3.8	6
98	Design and characterization of poly (3-hydroxybutyrate-co-hydroxyhexanoate) nanoparticles and their grafting in whey protein-based nanocomposites. *Food Hydrocolloids*, **2021**, 110, 106167	10.6	10
97	Basil Essential Oil: Composition, Antimicrobial Properties, and Microencapsulation to Produce Active Chitosan Films for Food Packaging. *Foods*, **2021**, 10,	4.9	29
96	Transglutaminase-mediated crosslinking of a host defence peptide derived from human apolipoprotein B and its effect on the peptide antimicrobial activity. *Biochimica Et Biophysica Acta - General Subjects*, **2021**, 1865, 129803	4	2
95	Biorefining of seed oil cakes as industrial co-streams for production of innovative bioplastics. A review. *Trends in Food Science and Technology*, **2021**, 109, 259-270	15.3	27
94	Lignin/Carbohydrate Complex Isolated from Sea Balls (Egagropili): Characterization and Antioxidant Reinforcement of Protein-Based Films. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	5
93	Host defense peptides identified in human apolipoprotein B as novel food biopreservatives and active coating components. *Food Microbiology*, **2021**, 99, 103804	6	6
92	Secalin enzymatically cross-linked by either papain and N-acetyl-dl-homocysteine thiolactone or transglutaminase: Improving of protein functional properties and film manufacturing. *Food Hydrocolloids*, **2021**, 120, 106912	10.6	2
91	Valorisation of Sea Balls (Egagropili) as a Potential Source of Reinforcement Agents in Protein-Based Biocomposites. *Polymers*, **2020**, 12,	4.5	7
90	Black Edible Films from Protein-Containing Defatted Cake of Seeds. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	16
89	Glutamic Acid as Repeating Building Block for Bio-Based Films. *Polymers*, **2020**, 12,	4.5	2

88	Glycerol-Plasticized Films Obtained from Whey Proteins Denatured at Alkaline pH. *Coatings*, **2019**, 9, 322	2.9	20
87	Improved shelf-life of Nabulsi cheese wrapped with hydrocolloid films. *Food Hydrocolloids*, **2019**, 96, 29-35	10.6	11
86	Effect of Mesoporous Silica Nanoparticles on Glycerol-Plasticized Anionic and Cationic Polysaccharide Edible Films. *Coatings*, **2019**, 9, 172	2.9	9
85	Development and properties of new chitosan-based films plasticized with spermidine and/or glycerol. *Food Hydrocolloids*, **2019**, 87, 245-252	10.6	34
84	Transglutaminase Cross-Linked Edible Films and Coatings for Food Applications **2019**, 369-388		6
83	Bioactive mesoporous silica nanocomposite films obtained from native and transglutaminase-crosslinked bitter vetch proteins. *Food Hydrocolloids*, **2018**, 82, 106-115	10.6	31
82	Dairy Whey Protein-Based Edible Films and Coatings for Food Preservation **2018**, 439-456		6
81	Tuning the Functional Properties of Bitter Vetch (Vicia ervilia) Protein Films Grafted with Spermidine. *International Journal of Molecular Sciences*, **2017**, 18,	6.3	12
80	Fresh-cut fruit and vegetable coatings by transglutaminase-crosslinked whey protein/pectin edible films. *LWT - Food Science and Technology*, **2017**, 75, 124-130	5.4	67
79	Plasticizing Effects of Polyamines in Protein-Based Films. *International Journal of Molecular Sciences* , **2017**, 18,	6.3	14
78	Plastic Pollution and the Challenge of Bioplastics. *Journal of Applied Biotechnology & Bioengineering* , **2017**, 2,	1.7	9
77	Stabilization of Charged Polysaccharide Film Forming Solution by Sodium Chloride: Nanoparticle Z-Average and Zeta-Potential Monitoring. *Journal of Biotechnology & Biomaterials*, **2016**, 06,	0	6
76	The effect of oxidized ferulic acid on physicochemical properties of bitter vetch (Vicia ervilia) protein-based films. *Journal of Applied Polymer Science*, **2016**, 133, n/a-n/a	2.9	7
75	Blend films of pectin and bitter vetch (Vicia ervilia) proteins: Properties and effect of transglutaminase. *Innovative Food Science and Emerging Technologies*, **2016**, 36, 245-251	6.8	27
74	Bitter vetch (Vicia ervilia) seed protein concentrate as possible source for production of bilayered films and biodegradable containers. *Food Hydrocolloids*, **2016**, 60, 232-242	10.6	21
73	Enzymatic milk clotting activity in artichoke (Cynara scolymus) leaves and alpine thistle (Carduus defloratus) flowers. Immobilization of alpine thistle aspartic protease. *Food Chemistry*, **2016**, 204, 115-121	8.5	20
72	Polyamines as new cationic plasticizers for pectin-based edible films. *Carbohydrate Polymers*, **2016**, 153, 222-228	10.3	20
71	Characterization and antioxidant activity of bitter vetch protein-based films containing pomegranate juice. *LWT - Food Science and Technology*, **2016**, 74, 77-83	5.4	19

70	Microstructure and properties of bitter vetch (Vicia ervilia) protein films reinforced by microbial transglutaminase. *Food Hydrocolloids*, **2015**, 50, 102-107	10.6	34
69	Characterization of Citrus pectin edible films containing transglutaminase-modified phaseolin. *Carbohydrate Polymers*, **2014**, 106, 200-8	10.3	45
68	Trehalose-containing hydrocolloid edible films prepared in the presence of transglutaminase. *Biopolymers*, **2014**, 101, 931-7	2.2	21
67	Nanochannel-based electrochemical assay for transglutaminase activity. *Chemical Communications*, **2014**, 50, 13356-8	5.8	25
66	Application of Transglutaminase-Crosslinked Whey Protein/Pectin Films as Water Barrier Coatings in Fried and Baked Foods. *Food and Bioprocess Technology*, **2014**, 7, 447-455	5.1	56
65	Transglutaminase-mediated macromolecular assembly: production of conjugates for food and pharmaceutical applications. *Amino Acids*, **2014**, 46, 767-76	3.5	20
64	Transglutaminase-mediated modification of ovomucoid: effects on its trypsin inhibitory activity and antigenic properties. *Amino Acids*, **2013**, 44, 285-92	3.5	24
63	Properties of a new protein film from bitter vetch (Vicia ervilia) and effect of $CaCl_2$ on its hydrophobicity. *International Journal of Biological Macromolecules*, **2013**, 57, 118-23	7.9	21
62	Effect of transglutaminase on the mechanical and barrier properties of whey protein/pectin films prepared at complexation pH. *Journal of Agricultural and Food Chemistry*, **2013**, 61, 4593-8	5.7	35
61	Higher susceptibility to amyloid fibril formation of the recombinant ovine prion protein modified by transglutaminase. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2012**, 1822, 1509-15	6.9	15
60	Water Barrier Edible Coatings of Fried Foods. *Journal of Biotechnology & Biomaterials*, **2012**, 02,	0	8
59	Chitosan/whey protein film as active coating to extend Ricotta cheese shelf-life. *LWT - Food Science and Technology*, **2011**, 44, 2324-2327	5.4	144
58	Transglutaminase crosslinked pectin- and chitosan-based edible films: a review. *Critical Reviews in Food Science and Nutrition*, **2011**, 51, 223-38	11.5	75
57	Enzymes as additives or processing AIDS in food biotechnology. *Enzyme Research*, **2011**, 2010, 436859	2.4	12
56	Promising Perspectives for Transglutaminase In Bioplastics Production. *Journal of Biotechnology & Biomaterials*, **2011**, 01,	0	12
55	Transglutaminase-Induced Chemical and Rheological Properties of Cheese. *Food Biotechnology*, **2010**, 24, 107-120	2.2	32
54	Putrescine-polysaccharide conjugates as transglutaminase substrates and their possible use in producing crosslinked films. *Amino Acids*, **2010**, 38, 669-75	3.5	11
53	Molecular farming of human tissue transglutaminase in tobacco plants. *Amino Acids*, **2009**, 36, 765-72	3.5	10

52	Tobacco BY-2 cells as effective bioreactor for the production of puroindolines. *Biotechnology and Applied Biochemistry*, **2009**, 53, 193-199	2.8	2
51	Role of constituents on the network formation of hydrocolloid edible films. *Journal of Food Engineering*, **2008**, 89, 195-203	6	21
50	Synthesis and resistance to in vitro proteolysis of transglutaminase cross-linked phaseolin, the major storage protein from Phaseolus vulgaris. *Journal of Agricultural and Food Chemistry*, **2007**, 55, 4717-21	5.7	45
49	Transglutaminase-catalyzed preparation of chitosan□valbumin films. *Enzyme and Microbial Technology*, **2007**, 40, 437-441	3.8	53
48	Transglutaminase-catalyzed site-specific glycosidation of catalase with aminated dextran. *Journal of Biotechnology*, **2006**, 122, 326-33	3.7	32
47	Chitosan-whey protein edible films produced in the absence or presence of transglutaminase: analysis of their mechanical and barrier properties. *Biomacromolecules*, **2006**, 7, 744-9	6.9	139
46	Transglutaminase-catalysed glycosidation of trypsin with aminated polysaccharides. *World Journal of Microbiology and Biotechnology*, **2006**, 22, 595-602	4.4	11
45	Transglutaminases as biotechnological tools. *Progress in Experimental Tumor Research*, **2005**, 38, 174-91		21
44	Expression and enzymatic activity of small intestinal tissue transglutaminase in celiac disease. *American Journal of Gastroenterology*, **2003**, 98, 1813-20	0.7	65
43	Ubiquitination of tissue transglutaminase is modulated by interferon alpha in human lung cancer cells. *Biochemical Journal*, **2003**, 370, 205-12	3.8	20
42	Thermal stabilization of trypsin by enzymic modification with beta-cyclodextrin derivatives. *Biotechnology and Applied Biochemistry*, **2003**, 38, 53-9	2.8	36
41	Incorporation of whey proteins into cheese curd by using transglutaminase. *Biotechnology and Applied Biochemistry*, **2003**, 38, 289-95	2.8	62
40	Transglutaminase-catalyzed synthesis of trypsin-cyclodextrin conjugates: kinetics and stability properties. *Biotechnology and Bioengineering*, **2003**, 81, 732-7	4.9	52
39	Preparation and mechanical properties of edible pectin-soy flour films obtained in the absence or presence of transglutaminase. *Journal of Biotechnology*, **2003**, 102, 191-8	3.7	132
38	N-terminus end of rat prostate transglutaminase is responsible for its catalytic activity and GTP binding. *International Journal of Biochemistry and Cell Biology*, **2003**, 35, 1098-108	5.6	6
37	Protein SV-IV promotes nitric oxide production not associated with apoptosis in murine macrophages. *European Journal of Cell Biology*, **2002**, 81, 185-96	6.1	4
36	Identification of Prunus armeniaca cultivars by RAPD and SCAR markers. *Biotechnology Letters*, **2002**, 24, 749-755	3	21
35	Substance P and its transglutaminase-synthesized spermine derivative elicit yawning behavior via nitric oxide in rats. *Peptides*, **2001**, 22, 1453-7	3.8	16

34	Rat coagulating gland secretion contains a kinesin heavy chain-like protein acting as a type IV transglutaminase substrate. *Biochemistry*, **2001**, 40, 4966-71	3.2	9
33	Implication of tissue transglutaminase and desmoplakin in cell adhesion mechanism in human epidermis. *Molecular and Cellular Biochemistry*, **2000**, 206, 57-65	4.2	7
32	Tissue transglutaminase expression in quail epiphyseal chondrocytes. *Cell Biology International*, **1999**, 23, 41-9	4.5	1
31	Overlapping between fluorescence modifications and activation of prostate transglutaminase induced by sodium dodecyl sulfate. *Archives of Biochemistry and Biophysics*, **1999**, 366, 47-54	4.1	4
30	Transglutaminase-synthesized gamma-(glutamyl5) spermidine derivative of substance P is a selective tool for neurokinin-2 receptors characterization. *Peptides*, **1998**, 19, 683-90	3.8	13
29	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. *International Journal of Cancer*, **1997**, 72, 321-8	7.5	6
28	Inhibition of zymosan-induced air-pouch inflammation by rat seminal vesicle protein and by its spermidine derivative. *European Journal of Pharmacology*, **1996**, 312, 327-32	5.3	10
27	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. *Cellular Immunology*, **1996**, 168, 148-57	4.4	28
26	Transglutaminase from rat coagulating gland secretion. Post-translational modifications and activation by phosphatidic acids. *Journal of Biological Chemistry*, **1996**, 271, 27416-23	5.4	31
25	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. *Journal of Reproductive Immunology* , **1995**, 28, 15-30	4.2	18
24	Rat protein SV-IV (seminal vesicle protein No. 4) accelerates human blood coagulation in vitro by selective inhibition of antithrombin III. *Biochemical Pharmacology*, **1994**, 48, 345-52	6	13
23	Transglutaminase covalently incorporates amines into human immunodeficiency virus envelope glycoprotein gp120 in vitro. *International Journal of Peptide and Protein Research*, **1993**, 42, 204-6		7
22	Protective effect of SV-IV on platelet-activating factor-induced hypotension, bronchoconstriction and gastric mucosal injury. *European Journal of Pharmacology*, **1993**, 241, 71-4	5.3	1
21	Biological activities of a major protein secreted from the rat seminal vesicles after structural modification catalyzed by transglutaminase in vitro. *Immunopharmacology*, **1993**, 25, 179-88		10
20	Human-immunodeficiency-virus transmembrane glycoprotein gp41 is an amino acceptor and donor substrate for transglutaminase in vitro. *FEBS Journal*, **1993**, 215, 99-104		19
19	Mass spectrometric identification of the amino donor and acceptor sites in a transglutaminase protein substrate secreted from rat seminal vesicles. *Biochemistry*, **1991**, 30, 3114-20	3.2	48
18	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. *FEBS Journal*, **1990**, 192, 481-5		17
17	Cereal dietary proteins with sites for cross-linking by transglutaminase. *Phytochemistry*, **1990**, 29, 2801-2804		32

16	In vivo and in vitro inhibition of platelet aggregation by SV-IV, a major protein secreted from the rat seminal vesicle epithelium. *Biochemical Pharmacology*, **1990**, 40, 1157-61	6	11
15	Inhibition of macrophage phagocytic activity by SV-IV, a major protein secreted from the rat seminal vesicle epithelium. *Journal of Reproductive Immunology*, **1989**, 16, 269-84	4.2	27
14	Immunosuppressive and anti-inflammatory properties of a major protein secreted from the epithelium of the rat seminal vesicles. *Biochemical Pharmacology*, **1989**, 38, 121-31	6	50
13	Inhibitory effect of SV-IV, a major protein secreted from the rat seminal vesicle epithelium, on phagocytosis and chemotaxis of human polymorphonuclear leukocytes. *Journal of Leukocyte Biology*, **1989**, 46, 409-16	6.5	19
12	Substance P as a transglutaminase substrate: identification of the reaction products by fast atom bombardment mass spectrometry. *Analytical Biochemistry*, **1988**, 172, 499-503	3.1	27
11	Spermine binding to subsynaptosomal fractions of rat brain cortex. *Neurochemical Research*, **1988**, 13, 369-76	4.6	
10	Transglutaminase in cell proliferation and transformation. *Medical Oncology and Tumor Pharmacotherapy*, **1988**, 5, 223-31		3
9	Indoleamine N-methyltransferase from rabbit lung. *Methods in Enzymology*, **1987**, 142, 668-74	1.7	
8	Cerebral polyamine metabolism: inhibition of spermidine biosynthesis by dicyclohexylamine. *Journal of Neurochemistry*, **1984**, 42, 321-5	6	11
7	Biosynthesis of polyamines in mouse brain: effects of methionine sulfoximine and adenosylhomocysteine. *Journal of Neurochemistry*, **1983**, 40, 836-41	6	6
6	Occurrence of 5'-deoxy-5'-methylthioadenosine phosphorylase in the mammalian CNS: distribution and kinetic studies on the rat brain enzyme. *Journal of Neurochemistry*, **1983**, 40, 487-92	6	5
5	Dissociation of enhanced ornithine decarboxylase activity and optic nerve regeneration in goldfish. *Developmental Brain Research*, **1982**, 256, 149-56		20
4	The biosynthesis of polyamines in the brain of audiogenic seizure-susceptible and -resistant deermice. *Journal of Neurochemistry*, **1981**, 37, 723-9	6	9
3	Multiple forms of rabbit lung indoleamine-N-methyltransferase. *International Journal of Biochemistry & Cell Biology*, **1979**, 10, 919-23		3
2	Automated chromatographic analysis of human placenta polyamines. *Biochemical Medicine*, **1978**, 19, 143-7		11
1	S-adenosylmethionine decarboxylase from human placenta. *International Journal of Biochemistry & Cell Biology*, **1977**, 8, 347-52		10