

# Fabio Tanfani

## List of Publications by Year in descending order

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103  
papers

2,690  
citations

201674

27  
h-index

214800

47  
g-index

104  
all docs

104  
docs citations

104  
times ranked

2644  
citing authors

#	ARTICLE	IF	CITATIONS
1	N-(carboxymethylidene)chitosans and N-(carboxymethyl)chitosans: Novel chelating polyampholytes obtained from chitosan glyoxylate. <i>Carbohydrate Research</i> , 1982, 107, 199-214.	2.3	327
2	The N-permethylation of chitosan and the preparation of N-trimethyl chitosan iodide. <i>Carbohydrate Polymers</i> , 1985, 5, 297-307.	10.2	152
3	Structure-Function Analysis of the Zinc Finger Region of the DnaJ Molecular Chaperone. <i>Journal of Biological Chemistry</i> , 1996, 271, 14840-14848.	3.4	136
4	Chelating, film-forming, and coagulating ability of the chitosan-glucan complex from <i>Aspergillus niger</i> industrial wastes. <i>Biotechnology and Bioengineering</i> , 1980, 22, 885-896.	3.3	114
5	Sulfated N-(carboxymethyl)chitosans: Novel blood anticoagulants. <i>Carbohydrate Research</i> , 1984, 126, 225-231.	2.3	111
6	Porcine odorant-binding protein: structural stability and ligand affinities measured by Fourier-transform infrared spectroscopy and fluorescence spectroscopy. <i>BBA - Proteins and Proteomics</i> , 1999, 1431, 179-188.	2.1	97
7	HtrA Heat Shock Protease Interacts with Phospholipid Membranes and Undergoes Conformational Changes. <i>Journal of Biological Chemistry</i> , 1997, 272, 8974-8982.	3.4	63
8	Effects of temperature and SDS on the structure of $\beta$ -glucosidase from the thermophilic archaeon <i>Sulfolobus solfataricus</i> . <i>Biochemical Journal</i> , 1997, 323, 833-840.	3.7	60
9	A new fluorescence method to detect singlet oxygen inside phospholipid model membranes. <i>Lipids and Lipid Metabolism</i> , 1991, 1082, 94-100.	2.6	54
10	Thymoquinone, a potential therapeutic agent of <i>Nigella sativa</i> , binds to site I of human serum albumin. <i>Phytomedicine</i> , 2010, 17, 714-720.	5.3	52
11	The N-terminal region of HtrA heat shock protease from <i>Escherichia coli</i> is essential for stabilization of HtrA primary structure and maintaining of its oligomeric structure. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2003, 1649, 171-182.	2.3	51
12	N-(o-carboxybenzyl) chitosans: Novel chelating polyampholytes. <i>Carbohydrate Polymers</i> , 1982, 2, 145-157.	10.2	49
13	The degree of acetylation of chitins by gas chromatography and infrared spectroscopy. <i>Journal of Proteomics</i> , 1980, 2, 299-306.	2.4	47
14	The characterization of N-methyl, N-ethyl, N-propyl, N-butyl and N-hexyl chitosans, novel film-forming polymers. <i>Journal of Membrane Science</i> , 1983, 16, 295-308.	8.2	47
15	Comparison of the Structure of Wild-type HtrA Heat Shock Protease and Mutant HtrA Proteins. <i>Journal of Biological Chemistry</i> , 1995, 270, 11140-11146.	3.4	46
16	Reduced $\beta$ -strand content in apoprotein B-100 in smaller and denser low-density lipoprotein subclasses as probed by Fourier-transform infrared spectroscopy. <i>Biochemical Journal</i> , 1997, 322, 765-769.	3.7	41
17	Preparation and characteristic properties of dithiocarbamate chitosan, a chelating polymer. <i>Carbohydrate Research</i> , 1982, 104, 235-243.	2.3	38
18	Structural and thermal stability analysis of <i>Escherichia coli</i> and <i>Alicyclobacillus acidocaldarius</i> thioredoxin revealed a molten globule-like state in thermal denaturation pathway of the proteins: an infrared spectroscopic study. <i>Biochemical Journal</i> , 2003, 373, 875-883.	3.7	37

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19	Aspartate glucan, glycine glucan, and serine glucan for the removal of cobalt and copper from solutions and brines. <i>Biotechnology and Bioengineering</i> , 1985, 27, 1115-1121.	3.3	36
20	Structure-function studies on $\beta$ -glucosidase from <i>Sulfolobus solfataricus</i> . Molecular bases of thermostability. <i>Biochimie</i> , 1998, 80, 949-957.	2.6	36
21	Thermal Stability and Aggregation of <i>Sulfolobus solfataricus</i> $\beta$ -Glucosidase Are Dependent upon the N-Methylation of Specific Lysyl Residues. <i>Journal of Biological Chemistry</i> , 2004, 279, 10185-10194.	3.4	36
22	Steady-state fluorescence anisotropy and multifrequency phase fluorometry on oxidized phosphatidylcholine vesicles. <i>Chemistry and Physics of Lipids</i> , 1989, 50, 1-9.	3.2	34
23	N-Acylethanolamines as membrane topological stress compromising agents. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1993, 1148, 351-355.	2.6	33
24	Indolinonic and quinolinic aminoxylys as protectants against oxidative stress. <i>Free Radical Biology and Medicine</i> , 1993, 15, 203-208.	2.9	32
25	Temperature-Induced Molten Globule-like State in Human $\beta$ 1-Acid Glycoprotein: An Infrared Spectroscopic Study. <i>Biochemistry</i> , 2005, 44, 15997-16006.	2.5	31
26	Binding of glutamine to glutamine-binding protein from <i>Escherichia coli</i> induces changes in protein structure and increases protein stability. <i>Proteins: Structure, Function and Bioinformatics</i> , 2004, 58, 80-87.	2.6	30
27	Stability and conformational dynamics of metallothioneins from the antarctic fish <i>Notothenia coriiceps</i> and mouse. <i>Proteins: Structure, Function and Bioinformatics</i> , 2002, 46, 259-267.	2.6	27
28	The esterase from the thermophilic eubacterium <i>Bacillus acidocaldarius</i> : Structural-functional relationship and comparison with the esterase from the hyperthermophilic archaeon <i>Archaeoglobus fulgidus</i> . <i>Proteins: Structure, Function and Bioinformatics</i> , 2000, 40, 473-481.	2.6	26
29	Structure-activity relationship on fungal laccase from <i>Rigidoporus lignosus</i> : a Fourier-transform infrared spectroscopic study. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2002, 1601, 155-162.	2.3	26
30	Characterization of Thymoquinone Binding to Human $\beta$ 1-Acid Glycoprotein. <i>Journal of Pharmaceutical Sciences</i> , 2012, 101, 2564-2573.	3.3	26
31	Binding of Glucose to the d-Galactose/d-Glucose-Binding Protein from <i>Escherichia coli</i> Restores the Native Protein Secondary Structure and Thermostability That Are Lost upon Calcium Depletion. <i>Journal of Biochemistry</i> , 2006, 139, 213-221.	1.7	25
32	Two-dimensional IR correlation spectroscopy of mutants of the $\beta$ -glucosidase from the hyperthermophilic archaeon <i>Sulfolobus solfataricus</i> identifies the mechanism of quaternary structure stabilization and unravels the sequence of thermal unfolding events. <i>Biochemical Journal</i> , 2004, 384, 69-78.	3.7	24
33	Structural and Thermal Stability Characterization of <i>Escherichia coli</i> -Galactose/d-Glucose-Binding Protein. <i>Biotechnology Progress</i> , 2008, 20, 330-337.	2.6	24
34	Specific interaction of cytosolic and mitochondrial glyoxalase II with acidic phospholipids in form of liposomes results in the inhibition of the cytosolic enzyme only. <i>Proteins: Structure, Function and Bioinformatics</i> , 2000, 41, 33-39.	2.6	22
35	Nitroxides are more efficient inhibitors of oxidative damage to calf skin collagen than antioxidant vitamins. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2008, 1780, 58-68.	2.4	21
36	Quinolinic Aminoxylys Protects Albumin Against Peroxyl Radical Mediated Damage. <i>Free Radical Research</i> , 1994, 21, 309-315.	3.3	20

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37	D-Trehalose/D-maltose-binding protein from the hyperthermophilic archaeon <i>Thermococcus litoralis</i> : The binding of trehalose and maltose results in different protein conformational states. <i>Proteins: Structure, Function and Bioinformatics</i> , 2006, 63, 754-767.	2.6	20
38	Amino acid transport in thermophiles: characterization of an arginine-binding protein in <i>Thermotoga maritima</i> . 2. Molecular organization and structural stability. <i>Molecular BioSystems</i> , 2010, 6, 687.	2.9	20
39	The thermophilic esterase from <i>Archaeoglobus fulgidus</i> : Structure and conformational dynamics at high temperature. , 2000, 38, 351-360.		19
40	A comparative infrared spectroscopic study of glycoside hydrolases from extremophilic archaea revealed different molecular mechanisms of adaptation to high temperatures. <i>Proteins: Structure, Function and Bioinformatics</i> , 2007, 67, 991-1001.	2.6	19
41	Temperature-induced conformational changes within the regulatory loops L1 and L2 of the HtrA heat-shock protease from <i>Escherichia coli</i> . <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2009, 1794, 1573-1582.	2.3	19
42	Effect of N-acyl ethanolamines with different acyl-chains on DPPC multilamellar liposomes. <i>Chemistry and Physics of Lipids</i> , 1993, 65, 165-169.	3.2	18
43	Conformational stability of human erythrocyte transglutaminase. Patterns of thermal unfolding at acid and alkaline pH. <i>FEBS Journal</i> , 1999, 266, 575-582.	0.2	18
44	Structure and Stability of a Rat Odorant-Binding Protein: Another Brick in the Wall. <i>Journal of Proteome Research</i> , 2009, 8, 4005-4013.	3.7	17
45	Structural investigation of transglutaminase by Fourier transform infrared spectroscopy. <i>FEBS Journal</i> , 1993, 218, 499-505.	0.2	16
46	Thermal denaturation pathway of starch phosphorylase from <i>Corynebacterium callunae</i> : Oxyanion binding provides the glue that efficiently stabilizes the dimer structure of the protein. <i>Protein Science</i> , 2000, 9, 1149-1161.	7.6	16
47	Temperature-, SDS-, and pH-Induced Conformational Changes in Protein Disulfide Oxidoreductase from the Archaeon <i>Pyrococcus furiosus</i> : A Dynamic Simulation and Fourier Transform Infrared Spectroscopic Study. <i>Journal of Proteome Research</i> , 2005, 4, 1972-1980.	3.7	16
48	Structural basis of the destabilization produced by an amino-terminal tag in the $\beta$ -glycosidase from the hyperthermophilic archaeon <i>Sulfolobus solfataricus</i> . <i>Biochimie</i> , 2006, 88, 807-817.	2.6	16
49	A Strategic Fluorescence Labeling of d-Galactose/d-Glucose-Binding Protein from <i>Escherichia coli</i> Helps to Shed Light on the Protein Structural Stability and Dynamics. <i>Journal of Proteome Research</i> , 2007, 6, 4119-4126.	3.7	16
50	Wild-Type and Mutant Bovine Odorant-Binding Proteins To Probe the Role of the Quaternary Structure Organization in the Protein Thermal Stability. <i>Journal of Proteome Research</i> , 2008, 7, 5221-5229.	3.7	16
51	The belonging of gpMuc, a glycoprotein from <i>Mucuna pruriens</i> seeds, to the Kunitz-type trypsin inhibitor family explains its direct anti-snake venom activity. <i>Phytomedicine</i> , 2011, 18, 887-895.	5.3	16
52	The thermal unfolding of the ribosome-inactivating protein saporin-S6 characterized by infrared spectroscopy. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2015, 1854, 1357-1364.	2.3	16
53	Effect of the fungicides tributyltin acetate and tributyltin chloride on multilamellar liposomes: fluorescence studies. <i>Chemistry and Physics of Lipids</i> , 1991, 59, 189-197.	3.2	15
54	Structure/function of KRAB repression domains: Structural properties of KRAB modules inferred from hydrodynamic, circular dichroism, and FTIR spectroscopic analyses. <i>Proteins: Structure, Function and Bioinformatics</i> , 2005, 62, 604-616.	2.6	15

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55	Permeability of oxidized phosphatidylcholine liposomes. <i>Biochemical and Biophysical Research Communications</i> , 1989, 163, 241-246.	2.1	14
56	Interaction of the herbicide atrazine with model membranes I: physico-chemical studies on dipalmitoyl phosphatidylcholine liposomes. <i>Chemistry and Physics of Lipids</i> , 1990, 55, 179-189.	3.2	14
57	Structural and functional relationships in 5'-nucleotidase from bull seminal plasma. A Fourier transform infrared study. <i>BBA - Proteins and Proteomics</i> , 1992, 1118, 187-193.	2.1	14
58	Fibrillation properties of human $\beta$ 1-acid glycoprotein. <i>Biochimie</i> , 2013, 95, 158-166.	2.6	14
59	ESR characterization of chitins and chitosans. <i>Biochemical and Biophysical Research Communications</i> , 1979, 89, 706-712.	2.1	13
60	Importance of pH and disulfide bridges on the structural and binding properties of human $\beta$ 1-acid glycoprotein. <i>Biochimie</i> , 2011, 93, 1529-1536.	2.6	13
61	Ligand-Exchange Chromatography of Amino Acids on Copper-Loaded Chitosan. <i>Separation Science and Technology</i> , 1978, 13, 869-879.	2.5	12
62	Structural properties and thermal stability of human liver and heart fatty acid binding proteins: A fourier transform IR spectroscopy study. <i>Biopolymers</i> , 1995, 36, 569-577.	2.4	12
63	Salts Induce Structural Changes in Elongation Factor $\beta$ from the Hyperthermophilic Archaeon <i>Sulfolobus solfataricus</i> : A Fourier Transform Infrared Spectroscopic Study. <i>Biochemistry</i> , 2001, 40, 13143-13148.	2.5	11
64	The Role of Tyr41 and His155 in the Functional Properties of Superoxide Dismutase from the Archaeon <i>Sulfolobus solfataricus</i> . <i>Biochemistry</i> , 2004, 43, 2199-2208.	2.5	11
65	Influence of ADP, AMP-PNP and of depletion of nucleotides on the structural properties of F1ATPase: a Fourier transform infrared spectroscopic study. <i>FEBS Letters</i> , 1995, 373, 141-145.	2.8	10
66	Structure of yeast plasma membrane H <sup>+</sup> -ATPase: comparison of activated and basal-level enzyme forms. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1998, 1369, 109-118.	2.6	10
67	Pressure Affects the Structure and the Dynamics of the d-Galactose/d-Glucose-Binding Protein from <i>Escherichia coli</i> by Perturbing the C-Terminal Domain of the Protein. <i>Biochemistry</i> , 2006, 45, 11885-11894.	2.5	10
68	Analysis of the Link between the Redox State and Enzymatic Activity of the HtrA (DegP) Protein from <i>Escherichia coli</i> . <i>PLoS ONE</i> , 2015, 10, e0117413.	2.5	10
69	Structural analysis of ASCUT-1, a protein component of the cuticle of the parasitic nematode <i>Ascaris lumbricoides</i> . <i>FEBS Journal</i> , 1998, 255, 588-594.	0.2	9
70	Mink Growth Hormone Structural-Functional Relationships: Effects of Renaturing and Storage Conditions. <i>Protein Journal</i> , 2008, 27, 170-180.	1.6	9
71	High hydrostatic pressure-induced conformational changes in protein disulfide oxidoreductase from the hyperthermophilic archaeon <i>Pyrococcus furiosus</i> . A Fourier-transform infrared spectroscopic study. <i>Molecular BioSystems</i> , 2010, 6, 2015.	2.9	9
72	Insights into the structural properties of d-serine dehydratase from <i>Saccharomyces cerevisiae</i> : An FT-IR spectroscopic and in silico approach. <i>Biochimie</i> , 2011, 93, 542-548.	2.6	9

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73	Interaction of the herbicide atrazine with model membranes. II: Effect of atrazine on fusion of phospholipid vesicles. <i>Chemistry and Physics of Lipids</i> , 1990, 56, 101-108.	3.2	8
74	The effect of N-acyl ethanolamines on phosphatidylethanolamine phase transitions studied by laurdan generalised polarisation. <i>Chemistry and Physics of Lipids</i> , 1994, 72, 127-134.	3.2	8
75	Structural-Functional Relationships in Pig Heart AMP-Deaminase in the Presence of ATP, Orthophosphate, and Phosphatidate Bilayers. <i>Molecular Genetics and Metabolism</i> , 1998, 65, 51-58.	1.1	8
76	Molecular strategies for protein stabilization: The case of a trehalose/maltose-binding protein from <i>Thermus thermophilus</i> . <i>Proteins: Structure, Function and Bioinformatics</i> , 2008, 73, 839-850.	2.6	8
77	Bovine Î±1-acid glycoprotein, a thermostable version of its human counterpart: Insights from Fourier transform infrared spectroscopy and in silico modelling. <i>Biochimie</i> , 2014, 102, 19-28.	2.6	8
78	Boar Sperm Proacrosin Infrared Investigation: Secondary Structure Analysis after Autoactivation and Suramin Binding. <i>Biochemical and Molecular Medicine</i> , 1996, 58, 37-45.	1.4	7
79	Effect of acidic phospholipids on the structural properties of recombinant cytosolic human glyoxalase II. <i>Proteins: Structure, Function and Bioinformatics</i> , 2002, 48, 126-133.	2.6	7
80	Glycidyl acrylate plasma glow discharged polymers. <i>Biomaterials</i> , 1990, 11, 585-589.	11.4	6
81	Interaction of tributyltin acetate and tributyltin chloride with dipalmitoyl phosphatidylcholine model membrane. <i>Chemistry and Physics of Lipids</i> , 1991, 58, 73-80.	3.2	6
82	Comparison of the structure of wild-type HtrA heat shock protease and mutant HtrA proteins. A Fourier transform infrared spectroscopic study. <i>Journal of Biological Chemistry</i> , 1995, 270, 31413.	3.4	6
83	Mechanism of thermal denaturation of maltodextrin phosphorylase from <i>Escherichia coli</i> . <i>Biochemical Journal</i> , 2000, 346, 255-263.	3.7	6
84	Interaction of Î²-conglutin from <i>Lupinus albus</i> with model phospholipid membranes: Investigations on structure, thermal stability and oligomerization status. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2018, 1866, 1242-1248.	2.3	6
85	Effect of neutral and acidic phospholipids on mitochondrial ATP synthase secondary structure. <i>FEBS Letters</i> , 1993, 336, 477-480.	2.8	5
86	Mutagenesis of the Dimer Interface Region of <i>Corynebacterium callunae</i> Starch Phosphorylase Perturbs the Phosphate-Dependent Conformational Relay that Enhances Oligomeric Stability of the Enzyme. <i>Journal of Biochemistry</i> , 2003, 134, 599-606.	1.7	5
87	Effects induced by mono- and divalent cations on protein regions responsible for thermal adaptation in Î²-1/2-glycosidase from <i>Sulfolobus solfataricus</i> . <i>European Biophysics Journal</i> , 2004, 33, 38-49.	2.2	5
88	The role of the L2 loop in the regulation and maintaining the proteolytic activity of HtrA (DegP) protein from <i>Escherichia coli</i> . <i>Archives of Biochemistry and Biophysics</i> , 2010, 500, 123-130.	3.0	5
89	A Spectroscopic Study on Secondary Structure and Thermal Unfolding of the Plant Toxin Gelonin Confirms Some Typical Structural Characteristics and Unravels the Sequence of Thermal Unfolding Events. <i>Toxins</i> , 2019, 11, 483.	3.4	5
90	Effects of fluorescent pseudo-ATP and ATP-metal analogs on secondary structure of Na <sup>+</sup> /K <sup>+</sup> -ATPase. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2000, 1457, 94-102.	1.0	4

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91	The allergen Mus m 1.0102: Cysteine residues and molecular allergology. <i>Molecular Immunology</i> , 2020, 120, 1-12.	2.2	4
92	Effect of inhibitor binding to $\beta$ subunits of F1ATPase on enzyme thermostability: a kinetic and FT-IR spectroscopic analysis. <i>FEBS Letters</i> , 1998, 432, 128-132.	2.8	3
93	Effects of Fe(III) binding to the nucleotide-independent site of F1-ATPase: enzyme thermostability and response to activating anions. <i>FEBS Letters</i> , 2001, 506, 221-224.	2.8	3
94	Oxyanion-Mediated Protein Stabilization: Differential Roles of Phosphate for Preventing Inactivation of Bacterial $\beta$ -Glucan Phosphorylases. <i>Biocatalysis and Biotransformation</i> , 2001, 19, 379-398.	2.0	3
95	Turning pyridoxal-5-phosphate-dependent enzymes into thermostable binding proteins: d-Serine dehydratase from baker's yeast as a case study. <i>Biochimie</i> , 2012, 94, 479-486.	2.6	3
96	Detection of temperature-induced molten globule states in small, $\beta$ -sheet-rich proteins by infrared spectroscopy. <i>Biomedical Spectroscopy and Imaging</i> , 2012, 1, 247-259.	1.2	3
97	Mechanism of thermal denaturation of maltodextrin phosphorylase from <i>Escherichia coli</i> . <i>Biochemical Journal</i> , 2000, 346, 255.	3.7	3
98	Differential scanning calorimetry characterization of oxidized egg phosphatidylcholine liposomes. <i>Biochemical and Biophysical Research Communications</i> , 1990, 168, 1268-1273.	2.1	2
99	Two-dimensional gel electrophoresis and FTIR spectroscopy reveal both forms of yeast plasma membrane H <sup>+</sup> -ATPase in activated and basal-level enzyme preparations. <i>FEBS Letters</i> , 2001, 505, 155-158.	2.8	2
100	Computational, spectroscopic, and resonant mirror biosensor analysis of the interaction of adrenodoxin with native and tryptophan-modified NADPH-adrenodoxin reductase. <i>Proteins: Structure, Function and Bioinformatics</i> , 2004, 57, 302-310.	2.6	2
101	Amyloid fibril formation by bovine $\beta$ 1-acid glycoprotein in a reducing environment: The role of disulfide bridges on the observed aggregation kinetics. <i>Biochimie</i> , 2015, 118, 244-252.	2.6	2
102	Thermal stability, ligand binding and allergenicity data of Mus m 1.0102 allergen and its cysteine mutants. <i>Data in Brief</i> , 2020, 29, 105355.	1.0	2
103	Synthesis, Structural Insights and Activity of Different Classes of Biomolecules. , 2020, , 463-482.		1