Giovanni Venturoli

List of Publications by Year
in descending order

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87	2,546	186209	214721
papers	citations	28 h-index	47 g-index

91	91	91	1403
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Trehalose matrix effects on electron transfer in Mn-depleted protein-pigment complexes of Photosystem II. Biochimica Et Biophysica Acta - Bioenergetics, 2021, 1862, 148413.	0.5	6
2	Soft Dynamic Confinement of Membrane Proteins by Dehydrated Trehalose Matrices: High-Field EPR and Fast-Laser Studies. Applied Magnetic Resonance, 2020, 51, 773-850.	0.6	15
3	Glutathionylation primes soluble glyceraldehyde-3-phosphate dehydrogenase for late collapse into insoluble aggregates. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 26057-26065.	3.3	39
4	The cytochrome b lysine 329 residue is critical for ubihydroquinone oxidation and proton release at the Qo site of bacterial cytochrome bc1. Biochimica Et Biophysica Acta - Bioenergetics, 2019, 1860, 167-179.	0.5	4
5	Local water sensing: water exchange in bacterial photosynthetic reaction centers embedded in a trehalose glass studied using multiresonance EPR. Physical Chemistry Chemical Physics, 2017, 19, 28388-28400.	1.3	16
6	Kinetic effects in dehydration, rehydration, and isotopic exchange of bacterial photosynthetic reaction centers. Biomedical Spectroscopy and Imaging, 2016, 5, 185-196.	1.2	4
7	Trehalose matrix effects on charge-recombination kinetics in Photosystem I of oxygenic photosynthesis at different dehydration levels. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, 1440-1454.	0.5	31
8	The cytochrome b Zn binding amino acid residue histidine 291 is essential for ubihydroquinone oxidation at the Qo site of bacterial cytochrome bc1. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, 1796-1806.	0.5	4
9	Protein Immobilization Capabilities of Sucrose and Trehalose Glasses: The Effect of Protein/Sugar Concentration Unraveled by High-Field EPR. Journal of Physical Chemistry Letters, 2016, 7, 4871-4877.	2.1	46
10	Retardation of Protein Dynamics by Trehalose in Dehydrated Systems of Photosynthetic Reaction Centers. Insights from Electron Transfer and Thermal Denaturation Kinetics. Journal of Physical Chemistry B, 2015, 119, 13600-13618.	1.2	30
11	Ionic liquids effects on the permeability of photosynthetic membranes probed by the electrochromic shift of endogenous carotenoids. Biochimica Et Biophysica Acta - Biomembranes, 2015, 1848, 2898-2909.	1.4	11
12	Dehydration affects the electronic structure of the primary electron donor in bacterial photosynthetic reaction centers: evidence from visible-NIR and light-induced difference FTIR spectroscopy. Photochemical and Photobiological Sciences, 2015, 14, 238-251.	1.6	16
13	Effects of dehydration on light-induced conformational changes in bacterial photosynthetic reaction centers probed by optical and differential FTIR spectroscopy. Biochimica Et Biophysica Acta - Bioenergetics, 2013, 1827, 328-339.	0.5	28
14	Trehalose Preserves the Integrity of Lyophilized Phycoerythrinâ€“AntiHuman CD8 Antibody Conjugates and Enhances their Thermal Stability in Flow Cytometric Assays. Journal of Pharmaceutical Sciences, 2013, 102, 649-659.	1.6	12
15	A New Method for<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="M1"><mml:msub><mml:mtext>D</mml:mtext><mml:mtext>2</mml:mtext></mml:msub><mml:mtext>O</mml:mtext></mml:m xmlns:mml="http://www.w3.org/1998/Math/MathML" id="M2"><mml:msub><mml:mtext>H</mml:mtext><mml:mtext>2</mml:mtext></mml:msub><mml:mtext>O</mml:mtext></mml:m In Infrared Spectroscopy of Proteins. Spectroscopy, 2012, 27, 337-342.	0.8	14
16	Zinc Inhibition of Bacterial Cytochrome bc₁ Reveals the Role of Cytochrome b E295 in Proton Release at the Q_o Site. Biochemistry, 2011, 50, 4263-4272.	1.2	30
17	Coupling between Electron Transfer and Proteinâ€“Solvent Dynamics: FTIR and Laser-Flash Spectroscopy Studies in Photosynthetic Reaction Center Films at Different Hydration Levels. Journal of Physical Chemistry B, 2011, 115, 14732-14750.	1.2	35
18	X-ray absorption studies of Zn2+-binding sites in Escherichia coli transhydrogenase and its Î²H91K mutant. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 494-500.	0.5	6

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19	Synergic approach to XAFS analysis for the identification of most probable binding motifs for mononuclear zinc sites in metalloproteins. Journal of Synchrotron Radiation, 2010, 17, 41-52.	1.0	23
20	Bacterial Photosynthetic Reaction Centers in Trehalose Glasses: Coupling between Protein Conformational Dynamics and Electron-Transfer Kinetics as Studied by Laser-Flash and High-Field EPR Spectroscopies. Journal of Physical Chemistry B, 2010, 114, 12729-12743.	1.2	33
21	Charge Recombination Kinetics and Protein Dynamics in Wild Type and Carotenoid-less Bacterial Reaction Centers: Studies in Trehalose Glasses. Journal of Physical Chemistry B, 2009, 113, 10389-10398.	1.2	33
22	Comparison of the fluorescence kinetics of detergent-solubilized and membrane-reconstituted LH2 complexes from Rps. acidophila and Rb. sphaeroides. Photosynthesis Research, 2008, 95, 291-298.	1.6	38
23	The Fe2+ Site of Photosynthetic Reaction Centers Probed by Multiple Scattering X-Ray Absorption Fine Structure Spectroscopy: Improving Structure Resolution in Dry Matrices. Biophysical Journal, 2008, 95, 814-822.	0.2	2
24	Water Activity Regulates the QAâ˜ to QB Electron Transfer in Photosynthetic Reaction Centers from Rhodobacter sphaeroides. Journal of the American Chemical Society, 2008, 130, 9353-9363.	6.6	15
25	Proteinâ˜Matrix Coupling/Uncoupling in â€œDryâ€•Systems of Photosynthetic Reaction Center Embedded in Trehalose/Sucrose: The Origin of Trehalose Peculiarity. Journal of the American Chemical Society, 2008, 130, 10240-10246.	6.6	88
26	The inhibitory binding site(s) of Zn2+in cytochromecoxidase. FEBS Letters, 2007, 581, 611-616.	1.3	16
27	EXAFS reveals a structural zinc binding site in the bovine NADHâ€Q oxidoreductase. FEBS Letters, 2007, 581, 5645-5648.	1.3	6
28	Stabilization of charge separation and cardiolipin confinement in antennaâ€“reaction center complexes purified from Rhodobacter sphaeroides. Biochimica Et Biophysica Acta - Bioenergetics, 2007, 1767, 1041-1056.	0.5	28
29	Photosynthetic Reaction Centers Embedded in Polyelectrolyte Multilayer as a Tool in the Determination of PSII Herbicides. , 2007, , .		0
30	Functionality of Photosynthetic Reaction Centers in Polyelectrolyte Multilayers:â€‰ Toward an Herbicide Biosensor. Journal of Physical Chemistry B, 2007, 111, 3304-3314.	1.2	25
31	Cytochrome c in a Dry Trehalose Matrix: Structural and Dynamical Effects Probed by X-Ray Absorption Spectroscopy. Biophysical Journal, 2007, 92, 1350-1360.	0.2	17
32	X-Ray Absorption Studies of Zn2+ Binding Sites in Bacterial, Avian, and Bovine Cytochrome bc1 Complexes. Biophysical Journal, 2007, 93, 2934-2951.	0.2	29
33	Heterogeneity of photosynthetic membranes from Rhodobacter capsulatus: Size dispersion and ATP synthase distribution. Biochimica Et Biophysica Acta - Bioenergetics, 2007, 1767, 1340-1352.	0.5	11
34	Functional and Structural Analysis of the Photosynthetic Apparatus of Rhodobacter veldkampii. Biochemistry, 2006, 45, 10512-10520.	1.2	20
35	Photosynthesis research in Italy: a review. Photosynthesis Research, 2006, 88, 211-240.	1.6	9
36	Internal dynamics and proteinâ€“matrix coupling in trehalose-coated proteins. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2005, 1749, 252-281.	1.1	111

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37	Multiple Scattering X-Ray Absorption Studies of Zn2+ Binding Sites in Bacterial Photosynthetic Reaction Centers. Biophysical Journal, 2005, 88, 2038-2046.	0.2	14
38	Electron transfer kinetics in photosynthetic reaction centers embedded in polyvinyl alcohol films. Bioelectrochemistry, 2004, 63, 73-77.	2.4	24
39	Spontaneous emulsification of detergent solubilized reaction center: protein conformational changes precede droplet growth. Physical Chemistry Chemical Physics, 2004, 6, 1439-1445.	1.3	13
40	Light-Harvesting Complex 1 Stabilizes P+QB-Charge Separation in Reaction Centers ofRhodobacter sphaeroidesâ€. Biochemistry, 2004, 43, 14199-14210.	1.2	44
41	Probing light-induced conformational transitions in bacterial photosynthetic reaction centers embedded in trehaloseâ€“water amorphous matrices. Biochimica Et Biophysica Acta - Bioenergetics, 2004, 1658, 50-57.	0.5	40
42	Electron Transfer from HiPIP to the Photooxidized Tetraheme Cytochrome Subunit of Allochromatium vinosum Reaction Center:â€‰ New Insights from Site-Directed Mutagenesis and Computational Studies. Biochemistry, 2004, 43, 437-445.	1.2	10
43	Liquid-Liquid Phase Separation of a Surfactant-Solubilized Membrane Protein. Physical Review Letters, 2003, 90, 208101.	2.9	25
44	Energy transfer in a single self-aggregated photosynthetic unit. FEBS Letters, 2003, 546, 345-348.	1.3	22
45	Residual Water Modulates QAâ¯-to-QB Electron Transfer in Bacterial Reaction Centers Embedded in Trehalose Amorphous Matrices. Biophysical Journal, 2003, 85, 2760-2775.	0.2	55
46	Effect of heterogeneity in the distribution of ligands and proteins among disconnected particles: the binding of ubiquinone to the bacterial reaction center. Physical Chemistry Chemical Physics, 2002, 4, 3071-3077.	1.3	14
47	Electron Transfer Kinetics in Photosynthetic Reaction Centers Embedded in Trehalose Glasses: Trapping of Conformational Substates at Room Temperature. Biophysical Journal, 2002, 82, 558-568.	0.2	87
48	Role of the N- and C-terminal regions of the PufX protein in the structural organization of the photosynthetic core complex of Rhodobacter sphaeroides. FEBS Journal, 2002, 269, 1877-1885.	0.2	50
49	Photo-induced cyclic electron transfer involving cytochromeâ€fbc1 complex and reaction center in the obligate aerobic phototroph Roseobacter denitrificans. FEBS Journal, 2000, 267, 422-433.	0.2	17
50	Cumulant Analysis of Charge Recombination Kinetics in Bacterial Reaction Centers Reconstituted into Lipid Vesicles. Biophysical Journal, 2000, 79, 1171-1179.	0.2	31
51	Interactions of photosynthetic reaction center with 2,3-dimethoxy-5-methyl-1,4-benzoquinone in reverse micelles. Physical Chemistry Chemical Physics, 2000, 2, 4624-4629.	1.3	5
52	The Reaction Centerâ¯LH1 Antenna Complex of Rhodobacter sphaeroides Contains One PufX Molecule Which Is Involved in Dimerization of This Complex. Biochemistry, 1999, 38, 6834-6845.	1.2	119
53	Title is missing!. Photosynthesis Research, 1998, 56, 75-82.	1.6	5
54	The Molecular Role of the PufX Protein in Bacterial Photosynthetic Electron Transfer. , 1998, , 103-116.		1

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55	Binding of Ubiquinone to Photosynthetic Reaction Centers:Â Determination of Enthalpy and Entropy Changes in Reverse Micelles. Journal of Physical Chemistry B, 1997, 101, 7850-7857.	1.2	32
56	Title is missing!. Photosynthesis Research, 1997, 53, 13-21.	1.6	17
57	Photochemistry of a photosynthetic reaction center immobilized in lipidic cubic phases. Biotechnology and Bioengineering, 1995, 46, 93-98.	1.7	16
58	Role of the PufX protein in photosynthetic growth of Rhodobacter sphaeroides. 2. PufX is required for efficient ubiquinone/ubiquinol exchange between the reaction center QB site and the cytochrome bc1 complex.. Biochemistry, 1995, 34, 15248-15258.	1.2	117
59	Role of PufX protein in photosynthetic growth of Rhodobacter sphaeroides. 1. PufX is required for efficient light-driven electron transfer and photophosphorylation under anaerobic conditions.. Biochemistry, 1995, 34, 15235-15247.	1.2	83
60	The electron transport system of the facultative phototroph Rhodoferax fermentans. II. Flash-induced oxidation of membrane-bound cytochromes c. Biochimica Et Biophysica Acta - Bioenergetics, 1995, 1229, 81-88.	0.5	15
61	The high potential iron-sulfur protein (HiPIP) fromRhodoferax fermentansis competent in photosynthetic electron transfer. FEBS Letters, 1995, 357, 70-74.	1.3	62
62	The PufX Protein of Rhodobacter Sphaeroides is Required for Efficient Ubiquinone / Ubiquinol Exchange between the Reaction Center and the Cytochrome BC1 Complex. , 1995, , 1597-1602.		0
63	The PufX Protein of Rhodobacter Sphaeroides is Required for Efficient Ubiquinone / Ubiquinol Exchange between the Reaction Center and the Cytochrome bc1 Complex. , 1995, , 2367-2372.		0
64	Photosynthetic electrogenic events in native membranes ofChloroflexus aurantiacus. Flash-induced charge displacements within the reaction center-cytochromec 554 complex. Photosynthesis Research, 1994, 41, 135-143.	1.6	7
65	Electron transfer from cytochrome c2 to the primary donor of Rhodobacter sphaeroides reaction centers. A temperature dependence study. Biochemistry, 1993, 32, 13245-13253.	1.2	53
66	The role of the membrane bound cytochromes of b- and c-type in the electron transport chain of Rhodobacter capsulatus. Archives of Microbiology, 1992, 157, 367-374.	1.0	28
67	Temperature dependence of charge recombination from the P+QA- and P+QB- states in photosynthetic reaction centers isolated from the thermophilic bacterium Chloroflexus aurantiacus. FEBS Journal, 1991, 202, 625-634.	0.2	21
68	Kinetics of photosynthetic electron transfer in artificial vesicles reconstituted with purified complexes from Rhodobacter capsulatus. II. Direct electron transfer between the reaction center and the bc1 complex and role of cytochrome c2. FEBS Journal, 1990, 189, 95-103.	0.2	15
69	Kinetics of photosynthetic electron transfer in artificial vesicles reconstituted with purified complexes from Rhodobacter capsulatus. I. The interaction of cytochrome c2 with the reaction center. FEBS Journal, 1990, 189, 105-112.	0.2	9
70	A critical evaluation of the hydropathy profile of membrane proteins. FEBS Journal, 1990, 190, 207-219.	0.2	86
71	Evaluation of the buffer capacity and permeability constant for protons in chromatophores from Rhodobacter capsulatus. FEBS Journal, 1990, 192, 39-47.	0.2	10
72	Quantitative estimation of the H+-storage capacity of chromatophores and comparison with acid-base induced ATP synthesis. Biochimica Et Biophysica Acta - Bioenergetics, 1990, 1018, 134-137.	0.5	0

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73	Thermodynamic and Kinetic Features of the Redox Carriers Operating in the Photosynthetic Electron Transport of Chloroflexus Aurantiacus. , 1990, , 425-432.		2
74	Reconstitution of cyclic electron transport and photophosphorylation by incorporation of the reaction center, cytochrome bc1 complex and ATP synthase from Rhodobacter capsulatus into ubiquinone-10/phospholipid vesicles. Biochimica Et Biophysica Acta - Bioenergetics, 1989, 974, 202-210.	0.5	20
75	Structural and Functional Aspects of the Photosynthetic Electron Transport Chain of Rhodobacter Capsulatus. , 1989, , 193-214.		0
76	Oxidation-reduction thermodynamics of the acceptor quinone complex in whole-membrane fragments from Chloroflexus aurantiacus. FEBS Journal, 1988, 178, 503-509.	0.2	20
77	The effect of the size of the quinone pool on the electrogenic reactions in the ubiquinol-cytochrome c2 oxidoreductase of Rhodobacter capsulatus. Pool behaviour at the quinone reductase site. Biochimica Et Biophysica Acta - Bioenergetics, 1988, 935, 258-272.	0.5	20
78	Kinetic measurements of electron transfer in coupled chromatophores from photosynthetic bacteria A method of correction for the electrochromic effects. FEBS Letters, 1987, 219, 477-484.	1.3	12
79	The adaptation of the electron transfer chain of Rhodopseudomonas capsulata to different light intensities. Biochimica Et Biophysica Acta - Bioenergetics, 1987, 890, 335-345.	0.5	41
80	On the mechanism of respiratory and photosynthetic electron transfer in Rhodospirillum rubrum. Biochimica Et Biophysica Acta - Bioenergetics, 1987, 892, 172-184.	0.5	19
81	Photosynthetic Control and ATP/Electron Ratio in Bacterial Photophosphorylation. , 1987, , 777-784.		1
82	Demonstration of a collisional interaction of ubiquinol with the ubiquinol-cytochrome c2 oxidoreductase complex in chromatophores from Rhodobacter sphaeroides. Biochimica Et Biophysica Acta - Bioenergetics, 1986, 851, 340-352.	0.5	63
83	A minimal hypothesis for membrane-linked free-energy transduction. Biochimica Et Biophysica Acta - Reviews on Bioenergetics, 1984, 768, 257-292.	0.8	199
84	Mosaic protonic coupling hypothesis for free energy transduction. FEBS Letters, 1984, 165, 1-5.	1.3	83
85	Chapter 4 Photosynthetic electron transfer. New Comprehensive Biochemistry, 1984, , 95-148.	0.1	0
86	Is the Transmembrane Electrochemical Potential a Competent Intermediate in Membrane Associated ATP Synthesis?. , 1984, , 233-240.		0
87	The localized coupling of bacterial photophosphorylation. Biochimica Et Biophysica Acta - Bioenergetics, 1982, 680, 8-16.	0.5	49