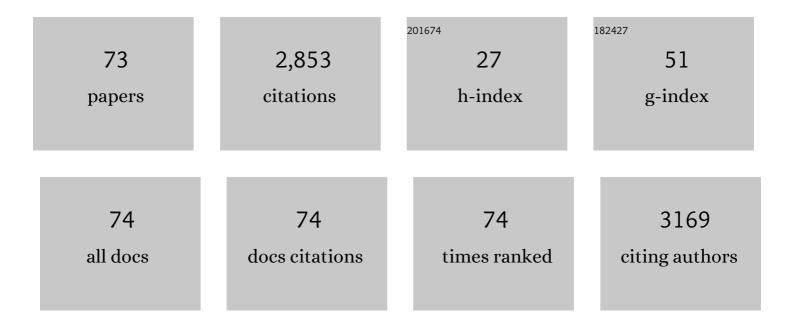
Stefano Santabarbara

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Ultrafast excited state dynamics in the monomeric and trimeric photosystem I core complex of <i>Spirulina platensis</i> probed by two-dimensional electronic spectroscopy. Journal of Chemical Physics, 2022, 156, 164202.	3.0	3
2	Light-adapted charge-separated state of photosystem II: structural and functional dynamics of the closed reaction center. Plant Cell, 2021, 33, 1286-1302.	6.6	74
3	On wavelength-dependent exciton lifetime distributions in reconstituted CP29 antenna of the photosystem II and its site-directed mutants. Journal of Chemical Physics, 2021, 154, 085101.	3.0	0
4	Direct Evidence for Excitation Energy Transfer Limitations Imposed by Low-Energy Chlorophylls in Photosystem l–Light Harvesting Complex I of Land Plants. Journal of Physical Chemistry B, 2021, 125, 3566-3573.	2.6	6
5	Preliminary Investigation on Phytoplankton Dynamics and Primary Production Models in an Oligotrophic Lake from Remote Sensing Measurements. Sensors, 2021, 21, 5072.	3.8	2
6	Ultrafast excited-state dynamics in land plants Photosystem I core and whole supercomplex under oxidised electron donor conditions. Photosynthesis Research, 2020, 144, 221-233.	2.9	12
7	Light Harvesting by Long-Wavelength Chlorophyll Forms (Red Forms) in Algae: Focus on their Presence, Distribution and Function. Advances in Photosynthesis and Respiration, 2020, , 261-297.	1.0	6
8	Energy Transfer pathways in PSI-LHCI probed by Two-Dimensional Electronic Spectroscopy. , 2020, , .		0
9	Kinetics and Energetics of Phylloquinone Reduction in Photosystem I: Insight From Modeling of the Site Directed Mutants. Frontiers in Plant Science, 2019, 10, 852.	3.6	3
10	A Comparison of Constitutive and Inducible Non-Endogenous Keto-Carotenoids Biosynthesis in Synechocystis sp. PCC 6803. Microorganisms, 2019, 7, 501.	3.6	8
11	Isolation and characterization of CAC antenna proteins and photosystem I supercomplex from the cryptophytic alga <i>Rhodomonas salina</i> . Physiologia Plantarum, 2019, 166, 309-319.	5.2	8
12	Modelling electron transfer in photosystem I: limits and perspectives. Physiologia Plantarum, 2019, 166, 73-87.	5.2	11
13	Comparative excitationâ€emission dependence of the <i>F</i> _V / <i>F</i> _M ratio in model green algae and cyanobacterial strains. Physiologia Plantarum, 2019, 166, 351-364.	5.2	29
14	Nonâ€endogenous ketocarotenoid accumulation in engineered <i>Synechocystis</i> sp. PCC 6803. Physiologia Plantarum, 2019, 166, 403-412.	5.2	16
15	Structure-Based Exciton Hamiltonian and Dynamics for the Reconstituted Wild-type CP29 Protein Antenna Complex of the Photosystem II. Journal of Physical Chemistry B, 2018, 122, 4611-4624.	2.6	9
16	Excitation and emission wavelength dependence of fluorescence spectra in whole cells of the cyanobacterium Synechocystis sp. PPC6803: Influence on the estimation of Photosystem II maximal quantum efficiency. Biochimica Et Biophysica Acta - Bioenergetics, 2018, 1859, 1207-1222.	1.0	21
17	Photochemistry beyond the red limit in chlorophyll f–containing photosystems. Science, 2018, 360, 1210-1213.	12.6	216
18	Kinetics and heterogeneity of energy transfer from light harvesting complex II to photosystem I in the supercomplex isolated from Arabidopsis. Physical Chemistry Chemical Physics, 2017, 19, 9210-9222	2.8	15

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19	Spectral dependence of irreversible light-induced fluorescence quenching: Chlorophyll forms with maximal emission at 700–702 and 705–710 nm as spectroscopic markers of conformational changes in the core complex. Biochimica Et Biophysica Acta - Bioenergetics, 2017, 1858, 529-543.	1.0	3
20	Trapping Dynamics in Photosystem I-Light Harvesting Complex I of Higher Plants Is Governed by the Competition Between Excited State Diffusion from Low Energy States and Photochemical Charge Separation. Journal of Physical Chemistry B, 2017, 121, 9816-9830.	2.6	24
21	High photochemical trapping efficiency in Photosystem I from the red clade algae Chromera velia and Phaeodactylum tricornutum. Biochimica Et Biophysica Acta - Bioenergetics, 2017, 1858, 56-63.	1.0	8
22	Biochemical and Spectroscopic Characterization of Highly Stable Photosystem II Supercomplexes from Arabidopsis. Journal of Biological Chemistry, 2016, 291, 19157-19171.	3.4	17
23	Two wavelengthâ€dependent mechanisms of sensitisation of lightâ€induced quenching in the isolated lightâ€harvesting complex <scp>II</scp> . FEBS Letters, 2016, 590, 2549-2557.	2.8	0
24	Comparative kinetic and energetic modelling of phyllosemiquinone oxidation in Photosystem I. Physical Chemistry Chemical Physics, 2016, 18, 9687-9701.	2.8	7
25	State transitions redistribute rather than dissipate energy between the two photosystems in Chlamydomonas. Nature Plants, 2016, 2, 16031.	9.3	85
26	Energetic coupling between plastids and mitochondria drives CO2 assimilation in diatoms. Nature, 2015, 524, 366-369.	27.8	311
27	Controlling Electron Transfer between the Two Cofactor Chains of Photosystem I by the Redox State of One of Their Components. Biophysical Journal, 2015, 108, 1537-1547.	0.5	17
28	Carotenoid triplet states in photosystem II: Coupling with low-energy states of the core complex. Biochimica Et Biophysica Acta - Bioenergetics, 2015, 1847, 262-275.	1.0	13
29	A Comparison Between Plant Photosystem I and Photosystem II Architecture and Functioning. Current Protein and Peptide Science, 2014, 15, 296-331.	1.4	200
30	Wavelength dependence of the fluorescence emission under conditions of open and closed Photosystem II reaction centres in the green alga Chlorella sorokiniana. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, 726-733.	1.0	15
31	Modulation of the fluorescence yield in heliobacterial cells by induction of charge recombination in the photosynthetic reaction center. Photosynthesis Research, 2014, 120, 221-235.	2.9	15
32	Effects of Quasi-Equilibrium States on the Kinetics of Electron Transfer and Radical Pair Stabilisation in Photosystem I. , 2014, , 241-274.		3
33	Photochemical trapping heterogeneity as a function of wavelength, in plant photosystem I (PSI–LHCI). Biochimica Et Biophysica Acta - Bioenergetics, 2013, 1827, 779-785.	1.0	33
34	Towards Uncovering the Energetics of Secondary Electron Transfer Reactions in Photosystem I. Advanced Topics in Science and Technology in China, 2013, , 7-12.	0.1	0
35	Functional Analyses of the Plant Photosystem I–Light-Harvesting Complex II Supercomplex Reveal That Light-Harvesting Complex II Loosely Bound to Photosystem II Is a Very Efficient Antenna for Photosystem I in State II. Plant Cell, 2012, 24, 2963-2978.	6.6	204
36	The Requirement for Carotenoids in the Assembly and Function of the Photosynthetic Complexes in <i>Chlamydomonas reinhardtii</i> Â Â Â. Plant Physiology, 2012, 161, 535-546.	4.8	42

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37	Exploring the Electron Transfer Pathways in Photosystem I by High-Time-Resolution Electron Paramagnetic Resonance: Observation of the B-Side Radical Pair P700+A1B– in Whole Cells of the Deuterated Green Alga Chlamydomonas reinhardtii at Cryogenic Temperatures. Journal of the American Chemical Society, 2012, 134, 5563-5576.	13.7	42
38	The Q _{<i>y</i>} Absorption Spectrum of the Light-Harvesting Complex II As Determined by Structure-Based Analysis of Chlorophyll Macrocycle Deformations. Biochemistry, 2012, 51, 2717-2736.	2.5	32
39	Kinetics of phyllosemiquinone oxidation in the Photosystem I reaction centre of Acaryochloris marina. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, 328-335.	1.0	4
40	Reconstituted CP29: multicomponent fluorescence decay from an optically homogeneous sample. Photosynthesis Research, 2012, 111, 53-62.	2.9	5
41	Alteration of the H-Bond to the A _{1A} Phylloquinone in Photosystem I: Influence on the Kinetics and Energetics of Electron Transfer. Journal of Physical Chemistry B, 2011, 115, 1751-1759.	2.6	25
42	Phosphorescence study of chlorophyll d photophysics. Determination of the energy and lifetime of the photo-excited triplet state. Evidence of singlet oxygen photosensitization. Photosynthesis Research, 2011, 108, 101-106.	2.9	12
43	Discrete Redox Signaling Pathways Regulate Photosynthetic Light-Harvesting and Chloroplast Gene Transcription. PLoS ONE, 2011, 6, e26372.	2.5	32
44	Bidirectional Electron Transfer in the Reaction Centre of Photosystem I. Journal of Integrative Plant Biology, 2010, 52, 735-749.	8.5	32
45	Biocatalytic induction of supramolecular order. Nature Chemistry, 2010, 2, 1089-1094.	13.6	324
46	Interquinone Electron Transfer in Photosystem I As Evidenced by Altering the Hydrogen Bond Strength to the Phylloquinone(s). Journal of Physical Chemistry B, 2010, 114, 9300-9312.	2.6	32
47	Determination of the Photolysis Products of [FeFe]Hydrogenase Enzyme Model Systems using Ultrafast Multidimensional Infrared Spectroscopy. Inorganic Chemistry, 2010, 49, 9563-9573.	4.0	47
48	Directionality of Electron-Transfer Reactions in Photosystem I of Prokaryotes: Universality of the Bidirectional Electron-Transfer Model. Journal of Physical Chemistry B, 2010, 114, 15158-15171.	2.6	43
49	Femtosecond to Microsecond Photochemistry of a [FeFe]hydrogenase Enzyme Model Compound. Journal of Physical Chemistry B, 2010, 114, 15370-15379.	2.6	34
50	Comparison of the Thermodynamic Landscapes of Unfolding andÂFormation of the Energy Dissipative State in the Isolated Light Harvesting Complex II. Biophysical Journal, 2009, 97, 1188-1197.	0.5	25
51	Temperature Dependence of the Reduction of P ₇₀₀ ⁺ by Tightly Bound Plastocyanin in Vivo. Biochemistry, 2009, 48, 10457-10466.	2.5	21
52	Additive Effect of Mutations Affecting the Rate of Phylloquinone Reoxidation and Directionality of Electron Transfer within Photosystem I ^{â€} . Photochemistry and Photobiology, 2008, 84, 1381-1387.	2.5	23
53	The Physiological Relevance of Bidirectional Electron Transfer in Photosystem I of Eukaryotes. , 2008, , 183-186.		0
54	An electron paramagnetic resonance investigation of the electron transfer reactions in the chlorophylldcontaining photosystem I ofAcaryochloris marina. FEBS Letters, 2007, 581, 1567-1571.	2.8	7

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55	Chlorophyll triplet states associated with Photosystem I and Photosystem II in thylakoids of the green alga Chlamydomonas reinhardtii. Biochimica Et Biophysica Acta - Bioenergetics, 2007, 1767, 88-105.	1.0	45
56	The photo-excited triplet state of chlorophyll <i>d</i> in methyl-tetrahydrofuran studied by optically detected magnetic resonance and time-resolved EPR. Molecular Physics, 2007, 105, 2109-2117.	1.7	10
57	Photoinhibition in vivo and in vitro Involves Weakly Coupled Chlorophyll-Protein Complexesâ€Â¶. Photochemistry and Photobiology, 2007, 75, 613-618.	2.5	5
58	Analysis of the Spin-Polarized Electron Spin Echo of the [P700+A1-] Radical Pair of Photosystem I Indicates That Both Reaction Center Subunits Are Competent in Electron Transfer in Cyanobacteria, Green Algae, and Higher Plantsâ€. Biochemistry, 2006, 45, 7389-7403.	2.5	60
59	Assignment of a kinetic component to electron transfer between iron–sulfur clusters FX and FA/B of Photosystem I. Biochimica Et Biophysica Acta - Bioenergetics, 2006, 1757, 1529-1538.	1.0	44
60	Bidirectional electron transfer in photosystem I: Replacement of the symmetry-breaking tryptophan close to the PsaB-bound phylloquinone (A1B) with a glycine residue alters the redox properties of A1B and blocks forward electron transfer at cryogenic temperatures. Biochimica Et Biophysica Acta - Bioenergetics, 2006, 1757, 1623-1633.	1.0	30
61	Limited sensitivity of pigment photo-oxidation in isolated thylakoids to singlet excited state quenching in photosystem II antenna. Archives of Biochemistry and Biophysics, 2006, 455, 77-88.	3.0	21
62	A Fluorescence Detected Magnetic Resonance Investigation of the Carotenoid Triplet States Associated with Photosystem II of Isolated Spinach Thylakoid Membranes. Photosynthesis Research, 2005, 86, 283-296.	2.9	12
63	Identification and Characterization of a Novel Vitamin B12 (Cobalamin) Biosynthetic Enzyme (CobZ) from Rhodobacter capsulatus, Containing Flavin, Heme, and Fe-S Cofactors. Journal of Biological Chemistry, 2005, 280, 1086-1094.	3.4	52
64	Carotenoid Triplet States Associated with the Long-Wavelength-Emitting Chlorophyll Forms of Photosystem I in Isolated Thylakoid Membranes. Journal of Physical Chemistry B, 2005, 109, 986-991.	2.6	16
65	Modelling of the electron transfer reactions in Photosystem I by electron tunnelling theory: The phylloquinones bound to the PsaA and the PsaB reaction centre subunits of PS I are almost isoenergetic to the iron–sulfur cluster FX. Biochimica Et Biophysica Acta - Bioenergetics, 2005, 1708, 283-310.	1.0	91
66	The size of the population of weakly coupled chlorophyll pigments involved in thylakoid photoinhibition determined by steady-state fluorescence spectroscopy. Biochimica Et Biophysica Acta - Bioenergetics, 2005, 1709, 138-149.	1.0	19
67	Bidirectional Electron Transfer in Photosystem I:  Determination of Two Distances between P700+ and A1- in Spin-Correlated Radical Pairs. Biochemistry, 2005, 44, 2119-2128.	2.5	90
68	Proton ENDOR spectroscopy of the anion radicals of the chlorophyll primary electron acceptors in type I photosynthetic reaction centres. Chemical Physics, 2003, 294, 319-328.	1.9	15
69	Chlorophyll Triplet States Associated with Photosystem II of Thylakoidsâ€. Biochemistry, 2002, 41, 8184-8194.	2.5	70
70	Photoinhibition in vivo and in vitro Involves Weakly Coupled Chlorophyll–Protein Complexesâ€j¶. Photochemistry and Photobiology, 2002, 75, 613.	2.5	47
71	Selective quenching of the fluorescence of core chlorophyll-protein complexes by photochemistry indicates that Photosystem II is partly diffusion limited. Photosynthesis Research, 2000, 66, 225-233.	2.9	29
72	The effect of excited state population in Photosystem II on the photoinhibition-induced changes in chlorophyll fluorescence parameters. Biochimica Et Biophysica Acta - Bioenergetics, 1999, 1409, 165-170.	1.0	19

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73	Influence of the Wavelength of Excitation and Fluorescence Emission Detection on the Estimation of Fluorescence-Based Physiological Parameters in Different Classes of Photosynthetic Organisms. , 0, , .		0