Serguei Vassiliev

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/1125564/publications.pdf

Version: 2024-02-01

40 papers	1,804 citations	257450 24 h-index	315739 38 g-index
41 all docs	41 docs citations	41 times ranked	1808 citing authors

#	Article	IF	Citations
1	Regulation of the Distribution of Chlorophyll and Phycobilin-Absorbed Excitation Energy in Cyanobacteria. A Structure-Based Model for the Light State Transition. Plant Physiology, 2002, 130, 1201-1212.	4.8	145
2	Structuralâ€“Functional Role of Chloride in Photosystem II. Biochemistry, 2011, 50, 6312-6315.	2.5	132
3	Excited-state dynamics in photosystem II: Insights from the x-ray crystal structure. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 8602-8607.	7.1	122
4	Exploring the energetics of water permeation in photosystem II by multiple steered molecular dynamics simulations. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, 1671-1678.	1.0	106
5	The synthesis and crystal structure of unsubstituted 4,4-difluoro-4-bora-3a,4a-diaza-s-indacene (BODIPY). Dyes and Pigments, 2009, 82, 392-395.	3.7	104
6	Quenching of Chlorophyll a Fluorescence in the Aggregates of LHCII:â€‰ Steady State Fluorescence and Picosecond Relaxation Kinetics. Biochemistry, 1997, 36, 7503-7512.	2.5	92
7	Mechanism of the Down Regulation of Photosynthesis by Blue Light in the Cyanobacterium Synechocystis sp. PCC 6803. Biochemistry, 2006, 45, 8952-8958.	2.5	85
8	Tracking the Flow of Water through Photosystem II Using Molecular Dynamics and Streamline Tracing. Biochemistry, 2010, 49, 1873-1881.	2.5	82
9	Photoprotection in the Lichen Parmelia sulcata: The Origins of Desiccation-Induced Fluorescence Quenching. Plant Physiology, 2007, 145, 997-1005.	4.8	80
10	Iron Deficiency in Cyanobacteria Causes Monomerization of Photosystem I Trimers and Reduces the Capacity for State Transitions and the Effective Absorption Cross Section of Photosystem I in Vivo. Plant Physiology, 2006, 141, 1436-1445.	4.8	70
11	Longâ€Lived Charge Separation in Novel Axial Donorâ€“Porphyrinâ€“Acceptor Triads Based on Tetrathiafulvalene, Aluminum(III) Porphyrin and Naphthalenediimide. Chemistry - A European Journal, 2013, 19, 3148-3161.	3.3	53
12	Structure-Based Kinetic Modeling of Excited-State Transfer and Trapping in Histidine-Tagged Photosystem II Core Complexes from Synechocystis. Biochemistry, 2002, 41, 12236-12243.	2.5	51
13	A Protein Dynamics Study of Photosystem II: The Effects of Protein Conformation on Reaction Center Function. Biophysical Journal, 2006, 90, 3062-3073.	0.5	50
14	Photochemical Behavior of Xanthophylls in the Recombinant Photosystem II Antenna Complex, CP26â€. Biochemistry, 2001, 40, 1220-1225.	2.5	49
15	Proton-Coupled Electron Transfer During the S-State Transitions of the Oxygen-Evolving Complex of Photosystem II. Journal of Physical Chemistry B, 2015, 119, 7366-7377.	2.6	49
16	Non-photochemical quenching of chlorophyll fluorescence in photosynthesis. 5-hydroxy-1,4-naphthoquinone in spinach thylakoids as a model for antenna based quenching mechanisms. Biochimica Et Biophysica Acta - Bioenergetics, 1998, 1363, 147-156.	1.0	46
17	Toward understanding molecular mechanisms of light harvesting and charge separation in photosystem II. Photosynthesis Research, 2008, 97, 75-89.	2.9	43
18	The PsbU Subunit of Photosystem II Stabilizes Energy Transfer and Primary Photochemistry in the Phycobilisomeâ^'Photosystem II Assembly of Synechocystis sp. PCC 6803. Biochemistry, 2005, 44, 16939-16948.	2.5	42

#	Article	IF	Citations
19	Nonphotochemical Quenching of Excitation Energy in Photosystem II. A Picosecond Time-Resolved Study of the Low Yield of ChlorophyllaFluorescence Induced by Single-Turnover Flash in Isolated Spinach Thylakoidsâ€. Biochemistry, 1998, 37, 11046-11054.	2.5	40
20	Optimization and Evolution of Light Harvesting in Photosynthesis: The Role of Antenna Chlorophyll Conserved between Photosystem II and Photosystem I. Plant Cell, 2004, 16, 3059-3068.	6.6	40
21	Molecular dynamics simulations reveal highly permeable oxygen exit channels shared with water uptake channels in photosystem II. Biochimica Et Biophysica Acta - Bioenergetics, 2013, 1827, 1148-1155.	1.0	40
22	Electrostatic Effects on Proton Coupled Electron Transfer in Oxomanganese Complexes Inspired by the Oxygen-Evolving Complex of Photosystem II. Journal of Physical Chemistry B, 2013, 117, 6217-6226.	2.6	36
23	The X-ray structure of photosystem II reveals a novel electron transport pathway between P680, cytochrome b 559 and the energy-quenching cation, ChlZ +. FEBS Letters, 2003, 543, 159-163.	2.8	29
24	Models of pigment-protein interactions in photosynthetic systems: Tetraphenylporphyrin complexes with polycationic sequential polypeptides. Absorption, circular dichroism and fluorescence properties. Chemical Physics, 1990, 147, 401-413.	1.9	25
25	Functional Heterogeneity of Photosystem II in Domain Specific Regions of the Thylakoid Membrane of Spinach (Spinacia oleracea L.)â€. Biochemistry, 2007, 46, 3443-3453.	2.5	24
26	Ultrafast charge separation and charge stabilization in axially linked â€˜tetrathiafulvaleneâ€“aluminum(<scp>iii</scp>) porphyrinâ€“gold(<scp>iii</scp>) porphyrinâ€™ reaction center mimics. Physical Chemistry Chemical Physics, 2015, 17, 26346-26358.	2.8	24
27	The orientations of core antenna chlorophylls in photosystem II are optimized to maximize the quantum yield of photosynthesis. FEBS Letters, 2004, 561, 111-116.	2.8	23
28	Modulation of Flash-Induced Photosystem II Fluorescence by Events Occurring at the Water Oxidizing Complexâ€. Biochemistry, 1999, 38, 10632-10641.	2.5	19
29	Excess Light Stress: Multiple Dissipative Processes of Excess Excitation. , 2004, , 497-523.		18
30	Picosecond Time-Resolved Fluorescence Studies on Excitation Energy Transfer in a Histidine 117 Mutant of the D2 Protein of Photosystem II inSynechocystis6803â€. Biochemistry, 2000, 39, 14211-14218.	2.5	16
31	Inhibition of photosynthetic oxygen evolution by protonophoric uncouplers. Photosynthesis Research, 1995, 46, 455-465.	2.9	15
32	On the role of exchangeable hydrogen bonds for the kinetics of P680+. QAâ^'. formation and P680+. Pheoâ^'. recombination in photosystem II. Biochimica Et Biophysica Acta - Bioenergetics, 1996, 1276, 35-44.	1.0	15
33	Calculation of chromophore excited state energy shifts in response to molecular dynamics of pigmentâ€“protein complexes. Photosynthesis Research, 2011, 110, 25-38.	2.9	12
34	Discovering oxygen channel topology in photosystem II using implicit ligand sampling and wavefront propagation. Journal of Computational Science, 2014, 5, 549-555.	2.9	7
35	MD Simulations Reveal Complex Water Paths in Squaleneâ€“Hopene Cyclase: Tunnel-Obstructing Mutations Increase the Flow of Water in the Active Site. ACS Omega, 2017, 2, 8495-8506.	3.5	6
36	Factors Controlling the Redox Potential of ZnCe6 in an Engineered Bacterioferritin Photochemical â€˜Reaction Centreâ€™. PLoS ONE, 2013, 8, e68421.	2.5	5

#	Article	IF	Citations
37	Nanosecond fluorescence of chloroplasts as a probe for electron transfer disruption in photosystem II. Journal of Photochemistry and Photobiology B: Biology, 1991, 8, 175-181.	3.8	4
38	Genetic algorithm with alternating selection pressure for protein side-chain packing and pK(a) prediction. BioSystems, 2011, 105, 263-270.	2.0	4
39	Under Light Limiting Growth, CpcB Lyase Null Mutants of the Cyanobacterium Synechococcus sp. PCC 7002 Are Capable of Producing Pigmented Î² Phycocyanin but with Altered Chromophore Function. Biochemistry, 2008, 47, 11877-11884.	2.5	1
40	Modeling metal protein complexes from experimental extended X-ray absorption fine structure using evolutionary algorithms. , 2014, , .		0