David Bina

List of Publications by Year
in descending order

55 papers	1,232 citations	430843 18 h-index	414395 32 g-index
60 all docs	60 docs citations	60 times ranked	1349 citing authors

#	Article	IF	Citations
1	Identification and characterization of diverse coherences in the Fennaâ€“Matthewsâ€“Olson complex. Nature Chemistry, 2018, 10, 780-786.	13.6	177
2	Exciton Structure and Energy Transfer in the Fennaâ€“Matthewsâ€“Olson Complex. Journal of Physical Chemistry Letters, 2016, 7, 1653-1660.	4.6	97
3	Spectroscopic studies of two spectral variants of light-harvesting complex 2 (LH2) from the photosynthetic purple sulfur bacterium Allochromatium vinosum. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, 1576-1587.	1.0	50
4	Molecular basis of chromatic adaptation in pennate diatom Phaeodactylum tricornutum. Biochimica Et Biophysica Acta - Bioenergetics, 2015, 1847, 534-543.	1.0	50
5	Novel type of red-shifted chlorophyll a antenna complex from Chromera velia. I. Physiological relevance and functional connection to photosystems. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, 734-743.	1.0	46
6	Architecture of the light-harvesting apparatus of the eustigmatophyte alga Nannochloropsis oceanica. Photosynthesis Research, 2016, 130, 137-150.	2.9	43
7	Novel type of red-shifted chlorophyll a antenna complex from Chromera velia: II. Biochemistry and spectroscopy. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, 802-810.	1.0	37
8	Characterization of the peridininâ€“chlorophyll a-protein complex in the dinoflagellate Symbiodinium. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, 983-989.	1.0	33
9	Efficient light-harvesting using non-carbonyl carotenoids: Energy transfer dynamics in the VCP complex from Nannochloropsis oceanica. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, 370-379.	1.0	33
10	Red-light phenotype in a marine diatom involves a specialized oligomeric red-shifted antenna and altered cell morphology. Scientific Reports, 2017, 7, 11976.	3.3	31
11	Light harvesting complexes of Chromera velia, photosynthetic relative of apicomplexan parasites. Biochimica Et Biophysica Acta - Bioenergetics, 2013, 1827, 723-729.	1.0	29
12	Novel structural aspect of the diatom thylakoid membrane: lateral segregation of photosystem I under red-enhanced illumination. Scientific Reports, 2016, 6, 25583.	3.3	28
13	Utilization of light energy in phototrophic Gemmatimonadetes. Journal of Photochemistry and Photobiology B: Biology, 2020, 213, 112085.	3.8	28
14	Tripletâ€“triplet energy transfer from chlorophylls to carotenoids in two antenna complexes from dinoflagellate Amphidinium carterae. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, 341-349.	1.0	25
15	Emission spectroscopy and kinetic fluorometry studies of phototrophic microbial communities along a salinity gradient in solar saltern evaporation ponds of Eilat, Israel. Aquatic Microbial Ecology, 2009, 56, 285-296.	1.8	25
16	New multichannel kinetic spectrophotometerâ€“fluorimeter with pulsed measuring beam for photosynthesis research. Photosynthesis Research, 2006, 88, 351-356.	2.9	24
17	Quenching of chlorophyll triplet states by carotenoids in algal light-harvesting complexes related to fucoxanthin-chlorophyll protein. Photosynthesis Research, 2018, 135, 213-225.	2.9	24
18	Mechanisms of sublethal copper toxicity damage to the photosynthetic apparatus of Rhodospirillum rubrum. Biochimica Et Biophysica Acta - Bioenergetics, 2019, 1860, 640-650.	1.0	21

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19	The Length of Esterifying Alcohol Affects the Aggregation Properties of Chlorosomal Bacteriochlorophylls. Photochemistry and Photobiology, 2008, 84, 1187-1194.	2.5	19
20	Native FMO-reaction center supercomplex in green sulfur bacteria: an electron microscopy study. Photosynthesis Research, 2016, 128, 93-102.	2.9	19
21	Pigment structure in the violaxanthinâ€“chlorophyll-a-binding protein VCP. Photosynthesis Research, 2017, 134, 51-58.	2.9	19
22	Unique double concentric ring organization of light harvesting complexes in Gemmatimonas phototrophica. PLoS Biology, 2017, 15, e2003943.	5.6	19
23	Chemical oxidation of the FMO antenna protein from Chlorobaculum tepidum. Photosynthesis Research, 2013, 116, 11-19.	2.9	18
24	Highly efficient energy transfer from a carbonyl carotenoid to chlorophyll a in the main light harvesting complex of Chromera velia. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, 1748-1755.	1.0	18
25	Modular antenna of photosystem I in secondary plastids of red algal origin: a Nannochloropsis oceanica case study. Photosynthesis Research, 2017, 131, 255-266.	2.9	18
26	A Protein Environment-Modulated Energy Dissipation Channel in LHCII Antenna Complex. IScience, 2020, 23, 101430.	4.1	18
27	Equilibration Dependence of Fucoxanthin S₁ and ICT Signatures on Polarity, Proticity, and Temperature by Multipulse Femtosecond Absorption Spectroscopy. Journal of Physical Chemistry B, 2018, 122, 7264-7276.	2.6	17
28	Pigment structure in the FCP-like light-harvesting complex from Chromera velia. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, 1759-1765.	1.0	16
29	Assembly of D1/D2 complexes of photosystem II: Binding of pigments and a network of auxiliary proteins. Plant Physiology, 2022, 189, 790-804.	4.8	16
30	2.4-Ã… structure of the double-ring <i>Gemmatimonas phototrophica</i> photosystem. Science Advances, 2022, 8, eabk3139.	10.3	16
31	Kinetics of inÂvivo bacteriochlorophyll fluorescence yield and the state of photosynthetic apparatus of purple bacteria. Photosynthesis Research, 2009, 99, 115-125.	2.9	15
32	Plant LHC-like proteins show robust folding and static non-photochemical quenching. Nature Communications, 2021, 12, 6890.	12.8	15
33	Supramolecular organization of fucoxanthinâ€“chlorophyll proteins in centric and pennate diatoms. Photosynthesis Research, 2014, 121, 79-86.	2.9	14
34	Ultrafast multi-pulse transient absorption spectroscopy of fucoxanthin chlorophyll a protein from Phaeodactylum tricornutum. Biochimica Et Biophysica Acta - Bioenergetics, 2018, 1859, 357-365.	1.0	14
35	Efficiency of excitation energy trapping in the green photosynthetic bacterium Chlorobaculum tepidum. Biochimica Et Biophysica Acta - Bioenergetics, 2019, 1860, 147-154.	1.0	13
36	Simultaneous Presence of Bacteriochlorophyll and Xanthorhodopsin Genes in a Freshwater Bacterium. MSystems, 2020, 5, .	3.8	11

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37	Nonconjugated Acyloxy Group Deactivates the Intramolecular Charge-Transfer State in the Carotenoid Fucoxanthin. Journal of Physical Chemistry B, 2018, 122, 2922-2930.	2.6	10
38	Energy transfer dynamics in a red-shifted violaxanthin-chlorophyll a light-harvesting complex. Biochimica Et Biophysica Acta - Bioenergetics, 2019, 1860, 111-120.	1.0	9
39	Photophysics of deinoxanthin, the keto-carotenoid bound to the main S-layer unit of Deinococcus radiodurans. Photochemical and Photobiological Sciences, 2020, 19, 495-503.	2.9	9
40	Supramolecular organization of photosynthetic membrane proteins in the chlorosome-containing bacterium Chloroflexus aurantiacus. Photosynthesis Research, 2014, 122, 13-21.	2.9	8
41	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
42	A two-component nonphotochemical fluorescence quenching in eustigmatophyte algae. Photosynthesis Research, 2017, 131, 65-77.	2.9	8
43	Temperature dependence of photosynthetic reaction centre activity in Rhodospirillum rubrum. Photosynthesis Research, 2019, 142, 181-193.	2.9	8
44	Red-shifted light-harvesting system of freshwater eukaryotic alga Trachydiscus minutus (Eustigmatophyta, Stramenopila). Photosynthesis Research, 2019, 142, 137-151.	2.9	8
45	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
46	Intramolecular charge-transfer state of carotenoids siphonaxanthin and siphonein: function of non-conjugated acyl-oxy group. Photosynthesis Research, 2020, 144, 127-135.	2.9	8
47	Superradiance of bacteriochlorophyll c aggregates in chlorosomes of green photosynthetic bacteria. Scientific Reports, 2021, 11, 8354.	3.3	7
48	Trehalose During Two Stress Responses in Acanthamoeba : Differentiation Between Encystation and Pseudocyst Formation. Protist, 2017, 168, 649-662.	1.5	6
49	Carotenoidâ€“chlorophyll energy transfer in the fucoxanthinâ€“chlorophyll complex binding a fucoxanthin acyloxy derivative. Faraday Discussions, 2019, 216, 460-475.	3.2	6
50	Triplet state quenching of bacteriochlorophyll c aggregates in a protein-free environment of a chlorosome interior. Chemical Physics, 2020, 529, 110542.	1.9	6
51	Absorbance changes accompanying the fast fluorescence induction in the purple bacterium Rhodobacter sphaeroides. Photosynthesis Research, 2010, 105, 115-121.	2.9	5
52	Conformational changes and their role in non-radiative energy dissipation in photosystem II reaction centres. Photochemical and Photobiological Sciences, 2005, 4, 999.	2.9	4
53	Room temperature photooxidation of Î²-carotene and peripheral chlorophyll in photosystemÂII reaction centre. Photosynthesis Research, 2008, 98, 179-187.	2.9	4
54	DNA content in Acanthamoeba during two stress defense reactions: Encystation, pseudocyst formation and cell cycle. European Journal of Protistology, 2021, 77, 125745.	1.5	4

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55	Naturally zinc-containing bacteriochlorophyll a ([Zn]-BChl a) protects the photosynthetic apparatus of Acidiphilium rubrum from copper toxicity damage. Biochimica Et Biophysica Acta - Bioenergetics, 2021, 1862, 148472.	1.0	0