

Alastair T Gardiner

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

1,951
citations

361413

20
h-index

330143

37
g-index

42
all docs

42
docs citations

42
times ranked

1675
citing authors

#	ARTICLE	IF	CITATIONS
1	Crystal Structure of the RC-LH1 Core Complex from <i>Rhodospseudomonas palustris</i> . <i>Science</i> , 2003, 302, 1969-1972.	12.6	615
2	Two-dimensional electronic spectroscopy of the B800-B820 light-harvesting complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 12672-12677.	7.1	197
3	Rings, Ellipses and Horseshoes: How Purple Bacteria Harvest Solar Energy. <i>Photosynthesis Research</i> , 2004, 81, 207-214.	2.9	91
4	Structural factors which control the position of the Q(y) absorption band of bacteriochlorophyll a in purple bacterial antenna complexes. <i>Photosynthesis Research</i> , 2002, 74, 135-141.	2.9	88
5	Spatially-resolved fluorescence-detected two-dimensional electronic spectroscopy probes varying excitonic structure in photosynthetic bacteria. <i>Nature Communications</i> , 2018, 9, 4219.	12.8	86
6	The effect of growth conditions on the light-harvesting apparatus in <i>Rhodospseudomonas acidophila</i> . <i>Photosynthesis Research</i> , 1993, 38, 159-167.	2.9	84
7	Understanding/unravelling carotenoid excited singlet states. <i>Journal of the Royal Society Interface</i> , 2018, 15, 20180026.	3.4	81
8	An <i>Ab Initio</i> Description of the Excitonic Properties of LH2 and Their Temperature Dependence. <i>Journal of Physical Chemistry B</i> , 2016, 120, 11348-11359.	2.6	64
9	Single-Molecule Spectroscopy Reveals that Individual Low-Light LH2 Complexes from <i>Rhodospseudomonas palustris</i> 2.1.6. Have a Heterogeneous Polypeptide Composition. <i>Biophysical Journal</i> , 2009, 97, 1491-1500.	0.5	63
10	The role of charge-transfer states in the spectral tuning of antenna complexes of purple bacteria. <i>Photosynthesis Research</i> , 2018, 137, 215-226.	2.9	59
11	Artificial photosynthesis – solar fuels: current status and future prospects. <i>Biofuels</i> , 2010, 1, 861-876.	2.4	56
12	<i>Gemmatimonas groenlandica</i> sp. nov. Is an Aerobic Anoxygenic Phototroph in the Phylum Gemmatimonadetes. <i>Frontiers in Microbiology</i> , 2020, 11, 606612.	3.5	48
13	Antenna organization of <i>Rhodospseudomonas acidophila</i> : a study of the excitation migration. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1991, 1060, 125-131.	1.0	42
14	Before Förster. Initial excitation in photosynthetic light harvesting. <i>Chemical Science</i> , 2019, 10, 7923-7928.	7.4	38
15	Peripheral Complexes of Purple Bacteria. <i>Advances in Photosynthesis and Respiration</i> , 2009, , 135-153.	1.0	37
16	Simulating Fluorescence-Detected Two-Dimensional Electronic Spectroscopy of Multichromophoric Systems. <i>Journal of Physical Chemistry B</i> , 2019, 123, 394-406.	2.6	26
17	The 2.4 Å... cryo-EM structure of a heptameric light-harvesting 2 complex reveals two carotenoid energy transfer pathways. <i>Science Advances</i> , 2021, 7, .	10.3	26
18	Electroabsorption spectroscopy of β -carotene homologs: Anomalous enhancement of $\sigma_{\parallel}^{\text{EA}}$. <i>Physical Review B</i> , 2005, 71, .	3.2	25

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19	Towards quantification of vibronic coupling in photosynthetic antenna complexes. <i>Journal of Chemical Physics</i> , 2015, 142, 212446.	3.0	25
20	The purple photosynthetic bacterium <i>Rhodospseudomonas acidophila</i> contains multiple puc peripheral antenna complex (LH2) genes: Cloning and initial characterisation of four ?? pairs. <i>Photosynthesis Research</i> , 1996, 49, 223-235.	2.9	23
21	A comparative look at structural variation among RCâ€“LH1 â€“Coreâ€™ complexes present in anoxygenic phototrophic bacteria. <i>Photosynthesis Research</i> , 2020, 145, 83-96.	2.9	22
22	2.4-Å... structure of the double-ring <i>Gemmatimonas phototrophica</i> photosystem. <i>Science Advances</i> , 2022, 8, eabk3139.	10.3	16
23	Photocurrent Generation by Photosynthetic Purple Bacterial Reaction Centers Interfaced with a Porous Antimony-Doped Tin Oxide (ATO) Electrode. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 25104-25110.	8.0	15
24	Characterisation of a pucBA deletion mutant from <i>Rhodospseudomonas palustris</i> lacking all but the pucBA genes. <i>Photosynthesis Research</i> , 2018, 135, 9-21.	2.9	15
25	The use and misuse of photosynthesis in the quest for novel methods to harness solar energy to make fuel. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013, 371, 20110603.	3.4	14
26	Adaptation of <i>Rhodospseudomonas acidophila</i> strain 7050 to growth at different light intensities: what are the benefits to changing the type of LH2?. <i>Faraday Discussions</i> , 2018, 207, 471-489.	3.2	14
27	Robust light harvesting by a noisy antenna. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 4360-4372.	2.8	13
28	Activated OCP unlocks nonphotochemical quenching in cyanobacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 12547-12548.	7.1	10
29	Structures and functions of carotenoids bound to reaction centers from purple photosynthetic bacteria. <i>Pure and Applied Chemistry</i> , 2006, 78, 1505-1518.	1.9	8
30	Energy transfer in purple bacterial photosynthetic units from cells grown in various light intensities. <i>Photosynthesis Research</i> , 2018, 137, 389-402.	2.9	8
31	Low-Frequency Vibronic Mixing Modulates the Excitation Energy Flow in Bacterial Light-Harvesting Complex II. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 6292-6298.	4.6	8
32	Vibrational Modes Promoting Exciton Relaxation in the B850 Band of LH2. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 1099-1106.	4.6	8
33	Effect of inhomogeneous band broadening on the nonlinear optical properties of hydrazones. <i>Physical Review B</i> , 2004, 69, .	3.2	6
34	The Light Reactions of Photosynthesis as a Paradigm for Solar Fuel Production. <i>Energy Procedia</i> , 2014, 47, 283-289.	1.8	5
35	Time-Domain Line-Shape Analysis from 2D Spectroscopy to Precisely Determine Hamiltonian Parameters for a Photosynthetic Complex. <i>Journal of Physical Chemistry B</i> , 2021, 125, 2812-2820.	2.6	5
36	The Structure of Purple Bacterial Antenna Complexes. , 0, , 325-340.		4

#	ARTICLE	IF	CITATIONS
37	Structure elucidation of the novel carotenoid gemmatoxanthin from the photosynthetic complex of <i>Gemmatimonas phototrophica</i> AP64. <i>Scientific Reports</i> , 2021, 11, 15964.	3.3	3
38	Quantum chemical elucidation of a sevenfold symmetric bacterial antenna complex. <i>Photosynthesis Research</i> , 2023, 156, 75-87.	2.9	3