

Gary Hastings

List of Publications by Year in descending order

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55
papers

1,488
citations

279798

23
h-index

330143

37
g-index

55
all docs

55
docs citations

55
times ranked

874
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental and calculated infrared spectra of disubstituted naphthoquinones. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 268, 120674.	3.9	5
2	Assessment of the orientation and conformation of pigments in protein binding sites from infrared difference spectra. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2021, 1862, 148366.	1.0	5
3	The effect of hydrogen-bonding on flavin's infrared absorption spectrum. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 262, 120110.	3.9	8
4	Time-resolved FTIR difference spectroscopy for the study of quinones in the A1 binding site in photosystem I: Identification of neutral state quinone bands. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2020, 1861, 148173.	1.0	8
5	Reversible inhibition and reactivation of electron transfer in photosystem I. <i>Photosynthesis Research</i> , 2020, 145, 97-109.	2.9	10
6	Calculated vibrational properties of semiquinones in the A1 binding site in photosystem I. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2019, 1860, 699-707.	1.0	8
7	Fourier transform visible and infrared difference spectroscopy for the study of P700 in photosystem I from <i>Fischerella thermalis</i> PCC 7521 cells grown under white light and far-red light: Evidence that the A ⁺ 1 cofactor is chlorophyll f. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2019, 1860, 452-460.	1.0	16
8	Modelling electron transfer in photosystem I: limits and perspectives. <i>Physiologia Plantarum</i> , 2019, 166, 73-87.	5.2	11
9	Photosystem I with benzoquinone analogues incorporated into the A1 binding site. <i>Photosynthesis Research</i> , 2018, 137, 85-93.	2.9	5
10	Time-resolved step-scan FTIR difference spectroscopy for the study of photosystem I with different benzoquinones incorporated into the A1 binding site. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2018, 1859, 1199-1206.	1.0	8
11	Probing structural changes in single enveloped virus particles using nano-infrared spectroscopic imaging. <i>PLoS ONE</i> , 2018, 13, e0199112.	2.5	31
12	Quinones in the A1 binding site in photosystem I studied using time-resolved FTIR difference spectroscopy. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2017, 1858, 804-813.	1.0	15
13	Inverted-region electron transfer as a mechanism for enhancing photosynthetic solar energy conversion efficiency. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 9267-9272.	7.1	39
14	Time-resolved visible and infrared absorption spectroscopy data obtained using photosystem I particles with non-native quinones incorporated into the A1 binding site. <i>Data in Brief</i> , 2016, 7, 1463-1468.	1.0	13
15	Modeling electron transfer in photosystem I. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2016, 1857, 723-733.	1.0	38
16	Time-resolved visible and infrared difference spectroscopy for the study of photosystem I with different quinones incorporated into the A1 binding site. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2015, 1847, 343-354.	1.0	24
17	Directionality of electron transfer in cyanobacterial photosystem I at 298 and 77 K. <i>FEBS Letters</i> , 2015, 589, 1412-1417.	2.8	40
18	Vibrational spectroscopy of photosystem I. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2015, 1847, 55-68.	1.0	23

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19	On the Nature of the Hydrogen Bonds to Neutral Ubiquinone in the QA Binding Site in Purple Bacterial Photosynthetic Reaction Centers. <i>Journal of Physical Chemistry B</i> , 2013, 117, 8705-8713.	2.6	8
20	Comparison of calculated and experimental isotope edited FTIR difference spectra for purple bacterial photosynthetic reaction centers with different quinones incorporated into the QA binding site. <i>Frontiers in Plant Science</i> , 2013, 4, 328.	3.6	12
21	Calculated Vibrational Properties of Ubisemiquinones. <i>Computational Biology Journal</i> , 2013, 2013, 1-11.	0.6	2
22	Introduction of a Hydrogen Bond between Phylloquinone PhQ _A and a Threonine Side-Chain OH Group in Photosystem I. <i>Journal of Physical Chemistry B</i> , 2012, 116, 14008-14016.	2.6	13
23	Integrating a partial least squares model with an artificial neural network to discriminate FTIR spectra of virus infected vero cells at 6 hours post exposure. , 2011, , .		0
24	Comparison of calculated and experimental FTIR spectra of specifically labeled ubiquinones. <i>Vibrational Spectroscopy</i> , 2011, 55, 279-286.	2.2	12
25	Calculated vibrational properties of pigments in protein binding sites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 10526-10531.	7.1	17
26	Viral infection of cells in culture detected using infrared microscopy. <i>Analyst, The</i> , 2009, 134, 1462.	3.5	9
27	Infrared microscopy for the study of biological cell monolayers. I. Spectral effects of acetone and formalin fixation. <i>Biopolymers</i> , 2008, 89, 921-930.	2.4	24
28	Calculation of the Vibrational Properties of Chlorophyll <i>a</i> in Solution. <i>Journal of Physical Chemistry B</i> , 2008, 112, 14056-14062.	2.6	16
29	Time-Resolved FTIR Difference Spectroscopy in Combination with Specific Isotope Labeling for the Study of A1, the Secondary Electron Acceptor in Photosystem 1. <i>Biophysical Journal</i> , 2008, 94, 4383-4392.	0.5	29
30	Quinone Anion Bands in A1 ⁺ /A1 FTIR Difference Spectra Investigated Using Photosystem I Particles with Specifically Labeled Naphthoquinones Incorporated into the A1 Binding Site. , 2008, , 73-76.		1
31	Density functional theory based calculations of the vibrational properties of chlorophyll-a. <i>Vibrational Spectroscopy</i> , 2007, 44, 357-368.	2.2	22
32	Vibrational mode frequency calculations of chlorophyll-d for assessing (P740 ⁺ -P740) FTIR difference spectra obtained using photosystem I particles from <i>Acaryochloris marina</i> . <i>Photosynthesis Research</i> , 2007, 95, 55-62.	2.9	11
33	Time-Resolved FTIR Difference Spectroscopy for the Study of Photosystem I Particles with Plastoquinone-9 Occupying the A1 Binding Site. <i>Biochemistry</i> , 2006, 45, 12733-12740.	2.5	14
34	Modification of the Phylloquinone in the A1 Binding Site in Photosystem I Studied Using Time-Resolved FTIR Difference Spectroscopy and Density Functional Theory. <i>Biochemistry</i> , 2006, 45, 4121-4127.	2.5	19
35	Modeling the A1 binding site in photosystem. <i>Vibrational Spectroscopy</i> , 2006, 42, 78-87.	2.2	21
36	Fourier Transform Infrared Studies of the Secondary Electron Acceptor, A1. , 2006, , 301-318.		2

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37	A1 Reduction in Intact Cyanobacterial Photosystem I Particles Studied by Time-Resolved Step-Scan Fourier Transform Infrared Difference Spectroscopy and Isotope Labeling. <i>Biochemistry</i> , 2005, 44, 1880-1893.	2.5	31
38	Mutation of the Putative Hydrogen-Bond Donor to P700 of Photosystem I. <i>Biochemistry</i> , 2004, 43, 12634-12647.	2.5	43
39	FTIR Difference Spectroscopy in Combination with Isotope Labeling for Identification of the Carbonyl Modes of P700 and P700+ in Photosystem I. <i>Biophysical Journal</i> , 2004, 86, 1061-1073.	0.5	31
40	Mutation Induced Modulation of Hydrogen Bonding to P700 Studied Using FTIR Difference Spectroscopy. <i>Biochemistry</i> , 2003, 42, 9889-9897.	2.5	18
41	Photo-Oxidation of P740, the Primary Electron Donor in Photosystem I from <i>Acaryochloris marina</i> . <i>Biophysical Journal</i> , 2003, 85, 3162-3172.	0.5	31
42	Subpicosecond photoinduced electron transfer from a conjugated polymer to SnO ₂ semiconductor nanocrystals. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2002, 14, 215-218.	2.7	25
43	Temperature-Induced Formation of a Non-Native Intermediate State of the All- β -Sheet Protein CD2. <i>Cell Biochemistry and Biophysics</i> , 2002, 36, 01-18.	1.8	7
44	Primary Donor Photo-Oxidation in Photosystem I: A Re-Evaluation of (P700+ \rightarrow P700) Fourier Transform Infrared Difference Spectra. <i>Biochemistry</i> , 2001, 40, 12943-12949.	2.5	30
45	Time-Resolved Step-Scan Fourier Transform Infrared and Visible Absorption Difference Spectroscopy for the Study of Photosystem I. <i>Applied Spectroscopy</i> , 2001, 55, 894-900.	2.2	31
46	A Fourier Transform Infrared Absorption Difference Spectrum Associated with the Reduction of A1 in Photosystem I: Are Both Phylloquinones Involved in Electron Transfer? <i>Biochemistry</i> , 2001, 40, 3681-3689.	2.5	29
47	Ultrafast and long-lived photoinduced charge separation in MEH-PPV/nanoporous semiconductor thin film composites. <i>Chemical Physics Letters</i> , 2001, 347, 304-310.	2.6	85
48	Photoinhibition of Photosystem I electron transfer activity in isolated Photosystem I preparations with different chlorophyll contents. <i>Photosynthesis Research</i> , 1996, 47, 121-130.	2.9	52
49	Universality of Energy and Electron Transfer Processes in Photosystem I. <i>Biochemistry</i> , 1995, 34, 15512-15522.	2.5	93
50	Observation of the Reduction and Reoxidation of the Primary Electron Acceptor in Photosystem I. <i>Biochemistry</i> , 1994, 33, 3193-3200.	2.5	104
51	Time-Resolved Fluorescence and Absorption Spectroscopy of Photosystem I. <i>Biochemistry</i> , 1994, 33, 3185-3192.	2.5	91
52	Delayed Fluorescence from Fe-S Type Photosynthetic Reaction Centers at Low Redox Potential. <i>Biochemistry</i> , 1994, 33, 3096-3105.	2.5	53
53	Rate of oxidation of P680 in isolated photosystem 2 reaction centers monitored by loss of chlorophyll stimulated emission. <i>Biochemistry</i> , 1993, 32, 8259-8267.	2.5	50
54	Observation of pheophytin reduction in photosystem two reaction centers using femtosecond transient absorption spectroscopy. <i>Biochemistry</i> , 1992, 31, 7638-7647.	2.5	100

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55	Determination of P680 singlet state lifetimes in photosystem two reaction centres. Chemical Physics Letters, 1992, 188, 54-60.	2.6	45