William W Parson

List of Publications by Year in Descending Order

55	4,823	31	56
papers	citations	h-index	g-index
56	4,967	6.5	5.44
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
55	Reorganization Energies, Entropies, and Free Energy Surfaces for Electron Transfer. *Journal of Physical Chemistry B*, **2021**, 125, 7940-7945	3.4	2
54	Mesoscopic to Macroscopic Electron Transfer by Hopping in a Crystal Network of Cytochromes. *Journal of the American Chemical Society*, **2020**, 142, 10459-10467	16.4	8
53	Generalizing the Marcus equation. *Journal of Chemical Physics*, **2020**, 152, 184106	3.9	3
52	Dynamics of the Excited State in Photosynthetic Bacterial Reaction Centers. *Journal of Physical Chemistry B*, **2020**, 124, 1733-1739	3.4	1
51	Electron-Transfer Dynamics in a Zn-Porphyrin-Quinone Cyclophane: Effects of Solvent, Vibrational Relaxations, and Conical Intersections. *Journal of Physical Chemistry B*, **2018**, 122, 3854-3863	3.4	14
50	Temperature Dependence of the Rate of Intramolecular Electron Transfer. *Journal of Physical Chemistry B*, **2018**, 122, 8824-8833	3.4	12
49	Effects of Free Energy and Solvent on Rates of Intramolecular Electron Transfer in Organic Radical Anions. *Journal of Physical Chemistry A*, **2017**, 121, 7297-7306	2.8	10
48	Vibrational Relaxations and Dephasing in Electron-Transfer Reactions. *Journal of Physical Chemistry B*, **2016**, 120, 11412-11418	3.4	13
47	Modern Optical Spectroscopy **2015**,		26
46	Coherence and Dephasing **2015**, 417-462		
45	Pump-Probe Spectroscopy, Photon Echoes and Vibrational Wavepackets **2015**, 463-512		
44	Fluorescence **2015**, 225-296		
43	Competition between tryptophan fluorescence and electron transfer during unfolding of the villin headpiece. *Biochemistry*, **2014**, 53, 4503-9	3.2	6
42	Fluorescence of tryptophan in designed hairpin and Trp-cage miniproteins: measurements of fluorescence yields and calculations by quantum mechanical molecular dynamics simulations. *Journal of Physical Chemistry B*, **2013**, 117, 1790-809	3.4	25
41	A temperature-dependent conformational change of NADH oxidase from Thermus thermophilus HB8. *Proteins: Structure, Function and Bioinformatics*, **2012**, 80, 546-55	4.2	6
40	Temperature dependence of the flexibility of thermophilic and mesophilic flavoenzymes of the nitroreductase fold. *Protein Engineering, Design and Selection*, **2010**, 23, 327-36	1.9	31
39	Mechanism of Charge Separation in Purple Bacterial Reaction Centers. *Advances in Photosynthesis and Respiration*, **2009**, 355-377	1.7	36

38	Calculations of Electrostatic Energies in Proteins Using Microscopic, Semimicroscopic and Macroscopic Models and Free-Energy Perturbation Approaches. *Advances in Photosynthesis and Respiration*, **2008**, 401-420	1.7	6
37	Biophysics. Long live electronic coherence!. *Science*, **2007**, 316, 1438-9	33.3	15
36	Entropy production and the Second Law in photosynthesis. *Biochimica Et Biophysica Acta - Bioenergetics*, **2007**, 1767, 1189-93	4.6	20
35	Modern Optical Spectroscopy **2007**,		84
34	Dynamical contributions to enzyme catalysis: critical tests of a popular hypothesis. *Chemical Reviews*, **2006**, 106, 1737-56	68.1	261
33	Modeling electrostatic effects in proteins. *Biochimica Et Biophysica Acta - Proteins and Proteomics*, **2006**, 1764, 1647-76	4	433
32	A density-matrix model of photosynthetic electron transfer with microscopically estimated vibrational relaxation times. *Chemical Physics*, **2004**, 296, 201-216	2.3	70
31	Dependence of Photosynthetic Electron-Transfer Kinetics on Temperature and Energy in a Density-Matrix Model *Journal of Physical Chemistry B*, **2004**, 108, 10474-10483	3.4	65
30	Electron donors and acceptors in the initial steps of photosynthesis in purple bacteria: a personal account. *Photosynthesis Research*, **2003**, 76, 81-92	3.7	29
29	Dynamics of biochemical and biophysical reactions: insight from computer simulations. *Quarterly Reviews of Biophysics*, **2001**, 34, 563-679	7	240
28	Resonance Raman Scattering by the Green Fluorescent Protein and an Analogue of Its Chromophore?. *Journal of Physical Chemistry B*, **2001**, 105, 5316-5322	3.4	72
27	Oscillations of the energy gap for the initial electron-transfer step in bacterial reaction centers. *Photosynthesis Research*, **1998**, 55, 147-152	3.7	15
26	Reorganization energy of the initial electron-transfer step in photosynthetic bacterial reaction centers. *Biophysical Journal*, **1998**, 74, 182-91	2.9	84
25	Orientation of the OH Dipole of Tyrosine (M)210 and Its Effect on Electrostatic Energies in Photosynthetic Bacterial Reaction Centers. *The Journal of Physical Chemistry*, **1996**, 100, 16761-16770		84
24	Calculations of Electrostatic Energies in Photosynthetic Reaction Centers. *Journal of the American Chemical Society*, **1995**, 117, 12284-12298	16.4	127
23	Electrostatic control of charge separation in bacterial photosynthesis. *Biochimica Et Biophysica Acta - Bioenergetics*, **1990**, 1017, 251-72	4.6	203
22	Microscopic simulation of quantum dynamics and nuclear tunneling in bacterial reaction centers. *Photosynthesis Research*, **1989**, 22, 39-46	3.7	13
21	Electron-transfer pathways in the primary event of bacterial photosynthesis. *The Journal of Physical Chemistry*, **1988**, 92, 2696-2701		133

20	Spectroscopic properties of photosynthetic reaction centers. 2. Application of the theory to Rhodopseudomonas viridis. *Journal of the American Chemical Society*, **1987**, 109, 6152-6163	16.4	230
19	Spectroscopic properties of photosynthetic reaction centers. 1. Theory. *Journal of the American Chemical Society*, **1987**, 109, 6143-6152	16.4	217
18	Picosecond Measurements of Electron Transfer in Bacterial Photosynthetic Reaction Centers. *ACS Symposium Series*, **1986**, 205-218	0.4	1
17	Picosecond kinetics of the initial photochemical electron-transfer reaction in bacterial photosynthetic reaction centers. *Biochemistry*, **1985**, 24, 7516-21	3.2	328
16	Temperature and detection-wavelength dependence of the picosecond electron-transfer kinetics measured in Rhodopseudomonas sphaeroides reaction centers. Resolution of new spectral and kinetic components in the primary charge-separation process. *Biochimica Et Biophysica Acta - Bioenergetics*, **1985**, 810, 33-48	4.6	191
15	The question of the intermediate state P+Chl-in bacterial photosynthesis. *FEBS Letters*, **1985**, 185, 76-82	3.8	47
14	Nanosecond fluorescence from isolated photosynthetic reaction centers of Rhodopseudomonas sphaeroides. *Biochimica Et Biophysica Acta - Bioenergetics*, **1984**, 767, 345-61	4.6	229
13	THERMODYNAMICS OF THE PRIMARY REACTIONS OF PHOTOSYNTHESIS. *Photochemistry and Photobiology*, **1978**, 28, 389-393	3.6	48
12	Primary photochemical processes in isolated reaction centers of Rhodopseudomonas viridis. *Biochimica Et Biophysica Acta - Bioenergetics*, **1978**, 501, 112-26	4.6	185
11	Magnetic field effects on radical pair intermediates in bacterial photosynthesis. *Biochimica Et Biophysica Acta - Bioenergetics*, **1977**, 461, 297-305	4.6	133
10	Electron transfer from photoexcited singlet and triplet bacteriopheophytin. *Photochemistry and Photobiology*, **1976**, 23, 415-20	3.6	88
9	Excited states of photosynthetic reaction centers at low recox potentials. *Biochimica Et Biophysica Acta - Bioenergetics*, **1975**, 387, 265-78	4.6	225
8	Carotenoid triplet states in reaction centers from Rhodopseudomonas sphaeroides and Rhodospirillum rubrum. *Biochimica Et Biophysica Acta - Bioenergetics*, **1975**, 408, 189-99	4.6	160
7	Identification of ubiquinone as the secondary electron acceptor in the photosynthetic apparatus of Chromatium vinosum. *Biochimica Et Biophysica Acta - Bioenergetics*, **1974**, 347, 404-16	4.6	79
6	Photooxidation of cytochromes in reaction center preparations from Chromatium and Rhodopseudomonas viridis. *Biochimica Et Biophysica Acta - Bioenergetics*, **1970**, 223, 122-8	4.6	66
5	In Chromatium, a single photochemical reaction center oxidizes both cytochrome C552 and cytochrome C555. *Biochimica Et Biophysica Acta - Bioenergetics*, **1970**, 205, 232-45	4.6	129
4	The reaction between primary and secondary electron acceptors in bacterial photosynthesis. *Biochimica Et Biophysica Acta - Bioenergetics*, **1969**, 189, 384-96	4.6	89
3	Cytochrome photooxidations in Chromatiumchromatophores. Each P870 oxidizes two cytochrome C422 hemes. *Biochimica Et Biophysica Acta - Bioenergetics*, **1969**, 189, 397-403	4.6	31

2	The role of P870 in bacterial photosynthesis. *Biochimica Et Biophysica Acta - Bioenergetics*, **1968**, 153, 248-59	4.6	124
1	Flash-induced absorbance changes in Rhodospirillum rubrum chromatophores. *Biochimica Et Biophysica Acta - Bioenergetics*, **1967**, 131, 154-172	4.6	76