Tomas Polivka

List of Publications by Year
in descending order

154 papers	8,009 citations	47006 47 h-index	51608 86 g-index
160 all docs	160 docs citations	160 times ranked	5387 citing authors

#	Article	IF	Citations
1	Ultrafast Dynamics of Carotenoid Excited Statesâ˘From Solution to Natural and Artificial Systems. Chemical Reviews, 2004, 104, 2021-2072.	47.7	811
2	Biomimetic and Microbial Approaches to Solar Fuel Generation. Accounts of Chemical Research, 2009, 42, 1899-1909.	15.6	403
3	Modified Phthalocyanines for Efficient Near-IR Sensitization of Nanostructured TiO2 Electrode. Journal of the American Chemical Society, 2002, 124, 4922-4932.	13.7	396
4	Molecular Factors Controlling Photosynthetic Light Harvesting by Carotenoids. Accounts of Chemical Research, 2010, 43, 1125-1134.	15.6	293
5	Direct observation of the (forbidden) S1 state in carotenoids. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 4914-4917.	7.1	275
6	Dark excited states of carotenoids: Consensus and controversy. Chemical Physics Letters, 2009, 477, 1-11.	2.6	243
7	Effect of a conjugated carbonyl group on the photophysical properties of carotenoids. Physical Chemistry Chemical Physics, 2004, 6, 3009-3016.	2.8	215
8	Carotenoid to chlorophyll energy transfer in the peridinin-chlorophyll-a-protein complex involves an intramolecular charge transfer state. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 16760-16765.	7.1	193
9	Mechanism of photoprotection in the cyanobacterial ancestor of plant antenna proteins. Nature Chemical Biology, 2015, 11, 287-291.	8.0	173
10	Spectroscopic and Dynamic Properties of the Peridinin Lowest Singlet Excited Statesâ€. Journal of Physical Chemistry A, 2001, 105, 10296-10306.	2.5	158
11	Carotenoid S1 State in a Recombinant Light-Harvesting Complex of Photosystem II. Biochemistry, 2002, 41, 439-450.	2.5	139
12	Dynamics of Excited States of the Carotenoid Peridinin in Polar Solvents:Â Dependence on Excitation Wavelength, Viscosity, and Temperature. Journal of Physical Chemistry B, 2003, 107, 5339-5348.	2.6	138
13	Dynamics of vibrational relaxation in the S1 state of carotenoids having 11 conjugated Cî…C bonds. Chemical Physics Letters, 2002, 355, 465-470.	2.6	135
14	B800â†'B850 Energy Transfer Mechanism in Bacterial LH2 Complexes Investigated by B800 Pigment Exchange. Biophysical Journal, 2000, 78, 2590-2596.	0.5	133
15	Femtosecond Time-Resolved Transient Absorption Spectroscopy of Xanthophylls. Journal of Physical Chemistry B, 2006, 110, 22872-22885.	2.6	133
16	Spectroscopic Properties of the Carotenoid 3â€˜-Hydroxyechinenone in the Orange Carotenoid Protein from the CyanobacteriumArthrospira maximaâ€. Biochemistry, 2005, 44, 3994-4003.	2.5	124
17	A comparative study of the redox and excited state properties of (nBu4N)2[Mo6X14] and (nBu4N)2[Mo6X8(CF3COO)6] (X = Cl, Br, or I). Dalton Transactions, 2013, 42, 7224.	3.3	123
18	Exciton Delocalization Probed by Excitation Annihilation in the Light-Harvesting Antenna LH2. Physical Review Letters, 2001, 86, 4167-4170.	7.8	121

#	Article	IF	Citations
19	Influence of the Electron-Cation Interaction on Electron Mobility in Dye-Sensitized ZnO and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>TiO</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>Nanocrystals: A Study Using Ultrafast Terahertz Spectroscopy. Physical Review Letters, 2010, 104, 197401.	7.8	116
20	Near-Infrared Time-Resolved Study of the S1 State Dynamics of the Carotenoid Spheroidene. Journal of Physical Chemistry B, 2001, 105, 1072-1080.	2.6	107
21	Photoinduced Electron Transfer between a Carotenoid and TiO2Nanoparticle. Journal of the American Chemical Society, 2002, 124, 13949-13957.	13.7	94
22	The Carotenoid S1 State in LH2 Complexes from Purple Bacteria Rhodobacter sphaeroides and Rhodopseudomonas acidophila:â€‰ S1 Energies, Dynamics, and Carotenoid Radical Formation. Journal of Physical Chemistry B, 2002, 106, 11016-11025.	2.6	93
23	Self-Assembled Aggregates of the Carotenoid Zeaxanthin:â€‰ Time-Resolved Study of Excited States. Journal of Physical Chemistry A, 2005, 109, 1521-1529.	2.5	91
24	Effect of carotenoid structure on excited-state dynamics of carbonyl carotenoids. Physical Chemistry Chemical Physics, 2009, 11, 8795.	2.8	89
25	Spectroscopy of the peridininâ€“chlorophyll-a protein: Insight into light-harvesting strategy of marine algae. Archives of Biochemistry and Biophysics, 2007, 458, 111-120.	3.0	83
26	Excited-State Processes in the Carotenoid Zeaxanthin after Excess Energy Excitation. Journal of Physical Chemistry A, 2005, 109, 6852-6859.	2.5	82
27	Femtosecond Time-Resolved Absorption Spectroscopy of Astaxanthin in Solution and in Î±-Crustacyanin. Journal of Physical Chemistry A, 2005, 109, 3120-3127.	2.5	80
28	Energy Transfer in the Major Intrinsic Light-Harvesting Complex fromAmphidinium carteraeâ€. Biochemistry, 2006, 45, 8516-8526.	2.5	76
29	Exciton Relaxation and Polaron Formation in LH2 at Low Temperature. Journal of Physical Chemistry B, 2000, 104, 1088-1096.	2.6	72
30	Tuning proton coupled electron transfer from tyrosine: A competition between concerted and step-wise mechanisms. Physical Chemistry Chemical Physics, 2004, 6, 4851-4858.	2.8	72
31	Identification of a single peridinin sensing Chl- <i>a</i> excitation in reconstituted PCP by crystallography and spectroscopy. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 20764-20769.	7.1	69
32	Ultrafast Formation of a Carotenoid Radical in LH2 Antenna Complexes of Purple Bacteria. Journal of Physical Chemistry B, 2004, 108, 15398-15407.	2.6	63
33	Energy Transfer within Zn-Porphyrin Dendrimers:â€‰ Study of the Singletâˆ'Singlet Annihilation Kinetics. Journal of Physical Chemistry A, 2005, 109, 10654-10662.	2.5	63
34	Synthesis and Electron Transfer Studies of Rutheniumâˆ'Terpyridine-Based Dyads Attached to Nanostructured TiO2. Inorganic Chemistry, 2007, 46, 638-651.	4.0	63
35	Photoprotection in a purple phototrophic bacterium mediated by oxygen-dependent alteration of carotenoid excited-state properties. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 8570-8575.	7.1	59
36	A Unified Picture of S* in Carotenoids. Journal of Physical Chemistry Letters, 2016, 7, 3347-3352.	4.6	59

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37	Femtosecond Carotenoid to Retinal Energy Transfer in Xanthorhodopsin. Biophysical Journal, 2009, 96, 2268-2277.	0.5	58
38	Tuning Energy Transfer in the Peridininâ€“chlorophyll Complex by Reconstitution with Different Chlorophylls. Photosynthesis Research, 2005, 86, 217-227.	2.9	57
39	Carotenoidâ€“protein interaction alters the S1 energy of hydroxyechinenone in the Orange Carotenoid Protein. Biochimica Et Biophysica Acta - Bioenergetics, 2013, 1827, 248-254.	1.0	57
40	Fast Energy Transfer and Exciton Dynamics in Chlorosomes of the Green Sulfur Bacterium Chlorobium tepidum. Journal of Physical Chemistry A, 1998, 102, 4392-4398.	2.5	56
41	Ultrafast Carotenoid Band Shifts Probe Structure and Dynamics in Photosynthetic Antenna Complexesâ€. Biochemistry, 1998, 37, 7057-7061.	2.5	56
42	Flash Photolysis of Cutinase: Identification and Decay Kinetics of Transient Intermediates Formed upon UV Excitation of Aromatic Residues. Biophysical Journal, 2009, 97, 211-226.	0.5	55
43	Carotenoid-induced non-photochemical quenching in the cyanobacterial chlorophyll synthaseâ€“HliC/D complex. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, 1430-1439.	1.0	54
44	Photophysical Properties of Xanthophylls in Carotenoproteins from Human RetinaÂ¶. Photochemistry and Photobiology, 2003, 78, 138.	2.5	53
45	A Near-Infrared Transient Absorption Study of the Excited-State Dynamics of the Carotenoid Spirilloxanthin in Solution and in the LH1 Complex ofRhodospirillum rubrum. Journal of Physical Chemistry B, 2003, 107, 11216-11223.	2.6	52
46	Electron transfer between carotenoid and chlorophyll contributes to quenching in the LHCSR1 protein from Physcomitrella patens. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, 1870-1878.	1.0	51
47	Ultrafast singlet energy transfer competes with intersystem crossing in a multi-center transition metal polypyridine complex. Chemical Physics Letters, 2004, 386, 336-341.	2.6	50
48	Photon echo spectroscopy reveals structure-dynamics relationships in carotenoids. Physical Review B, 2009, 79, .	3.2	47
49	Spectral watermarking in femtosecond stimulated Raman spectroscopy: resolving the nature of the carotenoid S* state. Physical Chemistry Chemical Physics, 2016, 18, 14619-14628.	2.8	47
50	Role of Xanthophylls in Light Harvesting in Green Plants: A Spectroscopic Investigation of Mutant LHCII and Lhcb Pigmentâ€“Protein Complexes. Journal of Physical Chemistry B, 2012, 116, 3834-3849.	2.6	46
51	Carotenoid and Pheophytin on Semiconductor Surface:â€‰ Self-Assembly and Photoinduced Electron Transfer. Journal of the American Chemical Society, 2004, 126, 3066-3067.	13.7	45
52	Distinct Photophysics of the Isomers of B₁₈H₂₂ Explained. Inorganic Chemistry, 2012, 51, 1471-1479.	4.0	45
53	Dynamics of Energy Transfer from Lycopene to Bacteriochlorophyll in Genetically-Modified LH2 Complexes ofRhodobacter sphaeroidesâ€. Biochemistry, 2002, 41, 4127-4136.	2.5	44
54	Ultrafast Carotenoid Band Shifts:Â Experiment and Theoryâ€. Journal of Physical Chemistry B, 2004, 108, 10398-10403.	2.6	42

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55	Ultrafast intramolecular charge transfer in tetrapyrazinoporphyrazines controls the quantum yields of fluorescence and singlet oxygen. Physical Chemistry Chemical Physics, 2010, 12, 2555.	2.8	41
56	The full dynamics of energy relaxation in large organic molecules: from photo-excitation to solvent heating. Chemical Science, 2019, 10, 4792-4804.	7.4	40
57	Synthesis and Characterization of Dinuclear Ruthenium Complexes Covalently Linked to RuII Tris-bipyridine: An Approach to Mimics of the Donor Side of Photosystem II. Chemistry - A European Journal, 2005, 11, 7305-7314.	3.3	39
58	Twisting a Î²-Carotene, an Adaptive Trick from Nature for Dissipating Energy during Photoprotection. Journal of Biological Chemistry, 2017, 292, 1396-1403.	3.4	37
59	Excited-state properties of the 16 kDa red carotenoid protein from Arthrospira maxima. Biochimica Et Biophysica Acta - Bioenergetics, 2011, 1807, 30-35.	1.0	36
60	Light-Driven Tyrosine Radical Formation in a Rutheniumâ^ˆ'Tyrosine Complex Attached to Nanoparticle TiO2. Inorganic Chemistry, 2002, 41, 6258-6266.	4.0	35
61	New paradigm of transition metal polypyridine complex photochemistry. Faraday Discussions, 2004, 127, 295-305.	3.2	33
62	Energy transfer and conformational dynamics in Znâ€“porphyrin dendrimers. Chemical Physics Letters, 2005, 403, 205-210.	2.6	33
63	Inter-pigment interactions in the peridinin chlorophyll protein studied by global and target analysis of time resolved absorption spectra. Chemical Physics, 2009, 357, 70-78.	1.9	33
64	Excited state properties of aryl carotenoids. Physical Chemistry Chemical Physics, 2010, 12, 3112.	2.8	33
65	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
66	Molecular Origin of Photoprotection in Cyanobacteria Probed by Watermarked Femtosecond Stimulated Raman Spectroscopy. Journal of Physical Chemistry Letters, 2018, 9, 1788-1792.	4.6	31
67	Ultrafast spectroscopy tracks carotenoid configurations in the orange and red carotenoid proteins from cyanobacteria. Photosynthesis Research, 2017, 131, 105-117.	2.9	30
68	Role of hydrogen bond alternation and charge transfer states in photoactivation of the Orange Carotenoid Protein. Communications Biology, 2021, 4, 539.	4.4	30
69	An intramolecular charge transfer state of carbonyl carotenoids: implications for excited state dynamics of apo-carotenals and retinal. Physical Chemistry Chemical Physics, 2011, 13, 10787.	2.8	29
70	Towards characterization of DNA structure under physiological conditions in vivo at the single-molecule level using single-pair FRET. Nucleic Acids Research, 2012, 40, e121-e121.	14.5	29
71	Tuning the Spectroscopic Properties of Aryl Carotenoids by Slight Changes in Structure. Journal of Physical Chemistry B, 2015, 119, 1457-1467.	2.6	29
72	Stepwise Charge Separation from a Rutheniumâˆ'Tyrosine Complex to a Nanocrystalline TiO2Film. Journal of Physical Chemistry B, 2004, 108, 12904-12910.	2.6	28

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73	Î²-Carotene to bacteriochlorophyll c energy transfer in self-assembled aggregates mimicking chlorosomes. Chemical Physics, 2010, 373, 90-97.	1.9	26
74	Polarity-Tuned Energy Transfer Efficiency in Artificial Light-Harvesting Antennae Containing Carbonyl Carotenoids Peridinin and Fucoxanthin. Journal of Physical Chemistry C, 2007, 111, 467-476.	3.1	25
75	Energetics and Dynamics of the Low-Lying Electronic States of Constrained Polyenes: Implications for Infinite Polyenes. Journal of Physical Chemistry A, 2013, 117, 1449-1465.	2.5	25
76	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
77	Optical spectroscopic studies of light-harvesting by pigment-reconstituted peridinin-chlorophyll-proteins at cryogenic temperatures. Photosynthesis Research, 2007, 90, 5-15.	2.9	24
78	Excited-State Dynamics of Monomeric and Aggregated Carotenoid 8â€²-Apo-Î²-carotenal. Journal of Physical Chemistry A, 2012, 116, 12330-12338.	2.5	24
79	How carotenoid distortions may determine optical properties: lessons from the Orange Carotenoid Protein. Physical Chemistry Chemical Physics, 2019, 21, 23187-23197.	2.8	23
80	Role of B800 in Carotenoidâˆ'Bacteriochlorophyll Energy and Electron Transfer in LH2 Complexes from the Purple BacteriumRhodobactersphaeroides. Journal of Physical Chemistry B, 2007, 111, 7422-7431.	2.6	22
81	Excited-state dynamics of astaxanthin aggregates. Chemical Physics Letters, 2013, 568-569, 21-25.	2.6	22
82	Comparative ultrafast spectroscopy and structural analysis of OCP1 and OCP2 from Tolypothrix. Biochimica Et Biophysica Acta - Bioenergetics, 2020, 1861, 148120.	1.0	22
83	Role of Carotenoids in Light-Harvesting Processes in an Antenna Protein from the Chromophyte <i>Xanthonema debile</i>. Journal of Physical Chemistry B, 2012, 116, 8880-8889.	2.6	21
84	Ultrafast Dynamics of Long Homologues of Carotenoid Zeaxanthin. Journal of Physical Chemistry A, 2015, 119, 11304-11312.	2.5	21
85	Structural and spectroscopic characterization of HCP2. Biochimica Et Biophysica Acta - Bioenergetics, 2019, 1860, 414-424.	1.0	21
86	Ultrafast dynamics of hydrophilic carbonyl carotenoids â€" Relation between structure and excited-state properties in polar solvents. Chemical Physics, 2010, 373, 56-64.	1.9	20
87	Energy Transfer in the Peridinin-Chlorophyll Protein Complex Reconstituted with Mixed Chlorophyll Sites. Biophysical Journal, 2008, 94, 3198-3207.	0.5	19
88	X-ray Crystal Structure and Time-Resolved Spectroscopy of the Blue Carotenoid Violerythrin. Journal of Physical Chemistry B, 2010, 114, 8760-8769.	2.6	19
89	Charge transfer in porphyrinâ€"calixarene complexes: ultrafast kinetics, cyclic voltammetry, and DFT calculations. Physical Chemistry Chemical Physics, 2011, 13, 6947.	2.8	19
90	Reversible Capture of Small Molecules On Bimetallaborane Clusters: Synthesis, Structural Characterization, and Photophysical Aspects. Inorganic Chemistry, 2011, 50, 7511-7523.	4.0	19

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91	Unique double concentric ring organization of light harvesting complexes in Gemmatimonas phototrophica. PLoS Biology, 2017, 15, e2003943.	5.6	19
92	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
93	A Protein Environment-Modulated Energy Dissipation Channel in LHCII Antenna Complex. IScience, 2020, 23, 101430.	4.1	18
94	Structural analysis of a new carotenoid-binding protein: the C-terminal domain homolog of the OCP. Scientific Reports, 2020, 10, 15564.	3.3	18
95	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
96	2.4-Ã… structure of the double-ring <i>Gemmatimonas phototrophica</i> photosystem. Science Advances, 2022, 8, eabk3139.	10.3	16
97	Carotenoid Charge Transfer States and Their Role in Energy Transfer Processes in LH1â€“RC Complexes from Aerobic Anoxygenic Phototrophs. Journal of Physical Chemistry B, 2013, 117, 10987-10999.	2.6	15
98	Different Response of Carbonyl Carotenoids to Solvent Proticity Helps To Estimate Structure of the Unknown Carotenoid from <i>Chromera velia</i>. Journal of Physical Chemistry B, 2015, 119, 12653-12663.	2.6	15
99	Plant LHC-like proteins show robust folding and static non-photochemical quenching. Nature Communications, 2021, 12, 6890.	12.8	15
100	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
101	Excited-State Properties of Canthaxanthin in Cyanobacterial Carotenoid-Binding Proteins HCP2 and HCP3. Journal of Physical Chemistry B, 2020, 124, 4896-4905.	2.6	14
102	Optimal control of peridinin excited-state dynamics. Chemical Physics, 2010, 373, 129-136.	1.9	13
103	Low-temperature time-resolved spectroscopic study of the major light-harvesting complex of Amphidinium carterae. Photosynthesis Research, 2013, 117, 257-265.	2.9	13
104	Spectroscopic Properties of Violaxanthin and Lutein Triplet States in LHCII are Independent of Carotenoid Composition. Journal of Physical Chemistry B, 2019, 123, 9312-9320.	2.6	13
105	A Series of Ultra-Efficient Blue Borane Fluorophores. Inorganic Chemistry, 2020, 59, 17058-17070.	4.0	13
106	Trivial Excitation Energy Transfer to Carotenoids Is an Unlikely Mechanism for Non-photochemical Quenching in LHCII. Frontiers in Plant Science, 2021, 12, 797373.	3.6	13
107	Energy Transfer from Carotenoids to Bacteriochlorophylls. Advances in Photosynthesis and Respiration, 2009, , 213-230.	1.0	12
108	Four-wave-mixing spectroscopy of peridinin in solution and in the peridininâ€“chlorophyll-a protein. Chemical Physics, 2010, 373, 15-22.	1.9	12

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109	Carotenoids in Energy Transfer and Quenching Processes in Pcb and Pcbâ˘PS I Complexes from Prochlorothrix hollandica. Journal of Physical Chemistry B, 2010, 114, 9275-9282.	2.6	10
110	Carotenoid response to retinal excitation and photoisomerization dynamics in xanthorhodopsin. Chemical Physics Letters, 2011, 516, 96-101.	2.6	10
111	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
112	Transient Absorption of Chlorophylls and Carotenoids after Two-Photon Excitation of LHCII. Journal of Physical Chemistry Letters, 2021, 12, 3176-3181.	4.6	10
113	Hole-burning study of excited energy transfer in the antenna protein CP47 of Synechocystis sp. PCC 6803 mutant H114Q. Journal of Luminescence, 1997, 72-74, 600-602.	3.1	9
114	Self-assembly and energy transfer in artificial light-harvesting complexes of bacteriochlorophyllÂc with astaxanthin. Photosynthesis Research, 2012, 111, 193-204.	2.9	9
115	Effect of Isomerization on Excited-State Dynamics of Carotenoid Fucoxanthin. Journal of Physical Chemistry B, 2017, 121, 4438-4447.	2.6	9
116	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
117	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
118	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
119	The robustness of the terminal emitter site in major LHCII complexes controls xanthophyll function during photoprotection. Photochemical and Photobiological Sciences, 2020, 19, 1308-1318.	2.9	8
120	Exciteda€State Evolution of Ketoa€Carotenoids after Excess Energy Excitation in the UV Region. ChemPhysChem, 2021, 22, 471-480.	2.1	7
121	Carotenoidâ€"chlorophyll energy transfer in the fucoxanthinâ€"chlorophyll complex binding a fucoxanthin acyloxy derivative. Faraday Discussions, 2019, 216, 460-475.	3.2	6
122	Photophysical Properties of Xanthophylls in Carotenoproteins from Human RetinaÂ¶. Photochemistry and Photobiology, 2003, 78, 138-145.	2.5	5
123	Spectroscopic investigation of a brightly colored psittacofulvin pigment from parrot feathers. Chemical Physics Letters, 2016, 648, 195-199.	2.6	5
124	Spectroscopic properties of the S1 state of linear carotenoids after excess energy excitation. Chemical Physics Letters, 2017, 683, 448-453.	2.6	5
125	Energy transfer pathways in the CAC light-harvesting complex of Rhodomonas salina. Biochimica Et Biophysica Acta - Bioenergetics, 2020, 1861, 148280.	1.0	5
126	Understanding Carotenoid Dynamics via the Vibronic Energy Relaxation Approach. Journal of Physical Chemistry B, 2022, 126, 3985-3994.	2.6	5

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127	Spectroscopic properties of the triple bond carotenoid alloxanthin. Chemical Physics Letters, 2016, 653, 167-172.	2.6	4
128	Photo-protection/photo-damage in natural systems: general discussion. Faraday Discussions, 2019, 216, 538-563.	3.2	4
129	Direct observation of the S1 level of the carotenoid spheroidene using near-infrared femtosecond spectroscopy. Springer Series in Chemical Physics, 2001, , 668-670.	0.2	4
130	Laser Induced Hole Filling of Bacteriochlorophyll <i>d</i> Monomers of Green Sulfur Photosynthetic Bacteria Antennae. Molecular Crystals and Liquid Crystals, 1996, 291, 201-207.	0.3	3
131	Time-resolved two-photon spectroscopy of carotenoids. Chemical Physics, 2019, 522, 171-177.	1.9	3
132	Spectroscopy and excited state dynamics of nearly infinite polyenes. Physical Chemistry Chemical Physics, 2020, 22, 17867-17879.	2.8	3
133	Hole-burning spectroscopy of photosynthetically active pigments of green sulphur photosynthetic bacteria. Journal of Luminescence, 1997, 72-74, 593-594.	3.1	2
134	Ultrafast Dynamics of Carotenoid Excited States â€" From Solution to Natural and Artificial Systems. ChemInform, 2004, 35, no.	0.0	2
135	Carotenoid to bacteriochlorophyll energy transfer in the RCâ€"LH1â€"PufX complex from Rhodobacter sphaeroides containing the extended conjugation keto-carotenoid diketospirilloxanthin. Photosynthesis Research, 2018, 135, 33-43.	2.9	2
136	UV Excitation of Carotenoid Binding Proteins OCP and HCP: Excitedâ€State Dynamics and Product Formation. ChemPhotoChem, 2022, 6, .	3.0	2
137	Photosynthetic Light-Harvesting. Biological and Medical Physics Series, 2008, , 95-115.	0.4	2
138	Energy transfer in light-harvesting Zn porphyrin dendrimers. , 2004, , 495-498.		2
139	Persistent hole burning and femtosecond pump-probe absorption spectroscopy of green sulphur photosynthetic bacteria antennae. Journal of Luminescence, 1998, 76-77, 322-326.	3.1	1
140	Excited state dynamics in light harvesting materials (in honor of Villy SundstrÃ¶m). Chemical Physics, 2009, 357, 1-3.	1.9	1
141	Carotenoid photophysics. Chemical Physics, 2010, 373, 1.	1.9	1
142	Structure-Function Relationship in Peridinin-Chlorophyll Proteins. Advances in Photosynthesis and Respiration, 2014, , 39-58.	1.0	1
143	Tuning the Tripletâ€"Triplet Energy Transfer Between Phthalocyanine and Carotenoid by Methyl Groups on the Conjugated Chain. Photochemistry and Photobiology, 2019, 95, 453-454.	2.5	1
144	Carotenoid Excited States-Photophysics, Ultrafast Dynamics and Photosynthetic Functions. NATO Science Series Series II, Mathematics, Physics and Chemistry, 2005, , 187-219.	0.1	1

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145	Red Emission From LH2 at Low Temperature: Where Does it Come From?. , 1998, , 33-36.		1
146	Hole Burning and Low Temperature Absorption and Fluorescence Spectroscopy of Algae Affected by Uv-B Stress. Molecular Crystals and Liquid Crystals, 1996, 291, 103-109.	0.3	0
147	Hole-Burning Study of Energy Transfer in Antenna Proteins of Dunaliella Tertiolecta Affected by Iron-Limitation. Molecular Crystals and Liquid Crystals, 1996, 291, 111-117.	0.3	0
148	Low-temperature spectroscopy of algae affected by UV-B stress absorption fluorescence and hole-burning. Journal of Luminescence, 1997, 72-74, 587-588.	3.1	0
149	Ultra-broadband OPA of supercontinuum for ELI front end. Proceedings of SPIE, 2011, , .	0.8	0
150	Interaction of Antenna Carotenoid and Retinal in the Light-Driven Pumps of Salinibacter Ruber and Gloeobacter Violaceus. Biophysical Journal, 2013, 104, 544a.	0.5	0
151	LIGHT DRIVEN MULTISTEP ELECTRON TRANSFER IN A TYROSINE-RUTHENIUM-COMPLEX ANCHORED TO TIO₂ NANOPARTICLES. , 2002, , .		0
152	Excited state dynamics of the carotenoid peridinin. , 2004, , 445-452.		0
153	Energy Transfer Dynamics in Zn-Porphyrin-Appended Dendrimers. , 2006, , 113-117.		0
154	Dynamics of Energy Transfer in the LH2 Antenna Complex of the Purple Bacterium Rhodobacter sphaeroides. Springer Series in Chemical Physics, 1998, , 669-671.	0.2	0