Hugo Scheer

List of Publications by Year
in descending order

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83	3,401	136950	155660
papers	citations	32	55
		h-index	g-index

84	84	84	2270
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Chlorophylls: A Personal Snapshot. Molecules, 2022, 27, 1093.	3.8	5
2	A tribute to Robert John Porra (august 7, 1931â€“may 16, 2019). Photosynthesis Research, 2021, 147, 125-130.	2.9	1
3	From Î´-aminolevulinic acid to chlorophylls and every step in between: in memory of Constantin (Tino) A. Rebeiz, 1936â€“2019. Photosynthesis Research, 2020, 145, 71-82.	2.9	7
4	Towards a more accurate future for chlorophyll a and b determinations: the inaccuracies of Daniel Arnonâ€™s assay. Photosynthesis Research, 2019, 140, 215-219.	2.9	30
5	Bright near-infrared fluorescence bio-labeling with a biliprotein triad. Biochimica Et Biophysica Acta - Molecular Cell Research, 2019, 1866, 277-284.	4.1	10
6	Far-red acclimating cyanobacterium as versatile source for bright fluorescent biomarkers. Biochimica Et Biophysica Acta - Molecular Cell Research, 2018, 1865, 1649-1656.	4.1	15
7	A Simple Preparation Method for Phytochromobilin. Photochemistry and Photobiology, 2017, 93, 675-680.	2.5	7
8	Structures and enzymatic mechanisms of phycobiliprotein lyases CpcE/F and PecE/F. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 13170-13175.	7.1	37
9	Adapting photosynthesis to the near-infrared: non-covalent binding of phycocyanobilin provides an extreme spectral red-shift to phycobilisome core-membrane linker from Synechococcus sp. PCC7335. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, 688-694.	1.0	42
10	Far-red light photoacclimation: Chromophorylation of FR induced Î±- and Î²-subunits of allophycocyanin from Chroococcidiopsis thermalis sp. PCC7203. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, 1607-1616.	1.0	22
11	Characterization of red-shifted phycobilisomes isolated from the chlorophyll f -containing cyanobacterium Halomicronema hongdechloris. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, 107-114.	1.0	91
12	The terminal phycobilisome emitter, L _{CM} : A light-harvesting pigment with a phytochrome chromophore. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 15880-15885.	7.1	69
13	Biliproteins and their Applications in Bioimaging. Procedia Chemistry, 2015, 14, 176-185.	0.7	14
14	Thermal Stability of Î±-Phycoerythrocyanin. Procedia Chemistry, 2015, 14, 138-145.	0.7	1
15	Iron-Sulfur Cluster-dependent Catalysis of Chlorophyllide a Oxidoreductase from Roseobacter denitrificans. Journal of Biological Chemistry, 2015, 290, 1141-1154.	3.4	17
16	Broadened Substrate Specificity of 3-Hydroxyethyl Bacteriochlorophyllide a Dehydrogenase (BchC) Indicates a New Route for the Biosynthesis of Bacteriochlorophyll a. Journal of Biological Chemistry, 2015, 290, 19697-19709.	3.4	13
17	Structure and Mechanism of the Phycobiliprotein Lyase CpcT. Journal of Biological Chemistry, 2014, 289, 26677-26689.	3.4	33
18	The structure of allophycocyanin B fromSynechocystisPCC 6803 reveals the structural basis for the extreme redshift of the terminal emitter in phycobilisomes. Acta Crystallographica Section D: Biological Crystallography, 2014, 70, 2558-2569.	2.5	83

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19	Wolfgang Haehnel 20.1.1944-13.5.2013. Photosynthesis Research, 2014, 120, 247-248.	2.9	0
20	Bimodal Intramolecular Excitation Energy Transfer in a Multichromophore Photosynthetic Model System: Hybrid Fusion Proteins Comprising Natural Phycobilin- and Artificial Chlorophyll-Binding Domains. Journal of the American Chemical Society, 2013, 135, 13479-13487.	13.7	20
21	Modular generation of fluorescent phycobiliproteins. Photochemical and Photobiological Sciences, 2013, 12, 1036-1040.	2.9	13
22	Chlorophyll breakdown in aquatic ecosystems. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 17311-17312.	7.1	5
23	A rising tide of blueâ€absorbing biliprotein photoreceptors â€“ characterization of seven such bilinâ€binding <scp>GAF</scp> domains in <scp>N</scp>ostoc sp. <scp>PCC</scp>7120. FEBS Journal, 2012, 279, 4095-4108.	4.7	63
24	Phycobiliproteins. Handbook of Porphyrin Science, 2012, , 1-66.	0.8	4
25	A minimal phycobilisome: Fusion and chromophorylation of the truncated core-membrane linker and phycocyanin. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, 1030-1036.	1.0	22
26	Phycobiliproteins. , 2011, , 375-411.		2
27	A Red-Shifted Chlorophyll. Science, 2010, 329, 1318-1319.	12.6	437
28	Fusedâ€Gene Approach to Photoswitchable and Fluorescent Biliproteins. Angewandte Chemie - International Edition, 2010, 49, 5456-5458.	13.8	76
29	Distribution of Chlorophyllâ€•and Bacteriochlorophyllâ€derived Photosensitizers in Human Blood Plasma. Photochemistry and Photobiology, 2010, 86, 182-193.	2.5	11
30	Photochemistry of Bacteriochlorophylls in Human Blood Plasma: 1. Pigment Stability and Lightâ€induced Modifications of Lipoproteins. Photochemistry and Photobiology, 2010, 86, 331-341.	2.5	5
31	Photochemistry of Bacteriochlorophylls in Human Blood Plasma: 2. Reaction Mechanism Investigated by Product Analysis and Deuterium Isotope Effect. Photochemistry and Photobiology, 2010, 86, 342-352.	2.5	2
32	Catalytic Mechanism of S-type Phycobiliprotein Lyase. Journal of Biological Chemistry, 2009, 284, 36405-36414.	3.4	15
33	Phycourobilin in Trichromatic Phycocyanin from Oceanic Cyanobacteria Is Formed Post-translationally by a Phycoerythrobilin Lyase-Isomerase. Journal of Biological Chemistry, 2009, 284, 9290-9298.	3.4	79
34	Completing the hypusine pathway in Plasmodium. FEBS Journal, 2009, 276, 5881-5891.	4.7	15
35	Inhibition of Aggregation of [Pd]-Bacteriochlorophyllides in Mesoporous Silica. Langmuir, 2009, 25, 11988-11992.	3.5	4
36	Toward a Mechanism for Biliprotein Lyases: Revisiting Nucleophilic Addition to Phycocyanobilin. Journal of the American Chemical Society, 2009, 131, 5399-5401.	13.7	14

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37	De novo Designed Bacteriochlorophyll-Binding Helix-Bundle Proteins. Advances in Photosynthesis and Respiration, 2009, , 895-912.	1.0	3
38	Intermediate binding of phycocyanobilin to the lyase, CpeS1, and transfer to apoprotein. Photosynthesis Research, 2008, 95, 163-168.	2.9	10
39	Unfolding of C-phycocyanin followed by loss of non-covalent chromophoreâ€“protein interactions. Biochimica Et Biophysica Acta - Bioenergetics, 2008, 1777, 94-103.	1.0	58
40	Lyase Activities of CpcS- and CpcT-like Proteins from Nostoc PCC7120 and Sequential Reconstitution of Binding Sites of Phycoerythrocyanin and Phycocyanin Î²-Subunits. Journal of Biological Chemistry, 2007, 282, 34093-34103.	3.4	65
41	Biliprotein Chromophore Attachment. Journal of Biological Chemistry, 2007, 282, 25357-25366.	3.4	25
42	Phycobilin:cystein-84 biliprotein lyase, a near-universal lyase for cysteine-84-binding sites in cyanobacterial phycobiliproteins. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 14300-14305.	7.1	105
43	Myoglobin with chlorophyllous chromophores: Influence on protein stability. Biochimica Et Biophysica Acta - Bioenergetics, 2007, 1767, 897-904.	1.0	14
44	Myoglobin with modified tetrapyrrole chromophores: Binding specificity and photochemistry. Biochimica Et Biophysica Acta - Bioenergetics, 2006, 1757, 750-763.	1.0	19
45	Chromophore Attachment to Phycobiliprotein Î²-Subunits. Journal of Biological Chemistry, 2006, 281, 8573-8581.	3.4	65
46	An Overview of Chlorophylls and Bacteriochlorophylls: Biochemistry, Biophysics, Functions and Applications. , 2006, , 1-26.		129
47	Chromophore attachment in phycocyanin. Functional amino acids of phycocyanobilin -alpha-phycocyanin lyase and evidence for chromophore binding. FEBS Journal, 2006, 273, 1262-1274.	4.7	32
48	Photostability of Bacteriochlorophyll a and Derivatives: Potential Sensitizers for Photodynamic Tumor Therapy. Photochemistry and Photobiology, 2006, 82, 770.	2.5	50
49	Amino Acid Residues Associated with Enzymatic Activities of the Isomerizing Phycoviolobilin-lyase PecE/F. Biochemistry, 2005, 44, 8126-8137.	2.5	28
50	Reconstitution of phycobilisome coreâ€“membrane linker, LCM, by autocatalytic chromophore binding to ApcE. Biochimica Et Biophysica Acta - Bioenergetics, 2005, 1706, 81-87.	1.0	69
51	Cyclic endoperoxides of Î²-carotene, potential pro-oxidants, as products of chemical quenching of singlet oxygen. Biochimica Et Biophysica Acta - Bioenergetics, 2005, 1709, 1-4.	1.0	93
52	Spectral Diffusion Experiment with a Denatured Protein. Journal of Physical Chemistry B, 2004, 108, 1109-1114.	2.6	7
53	Photochromic Biliproteins from the CyanobacteriumAnabaenasp. PCC 7120:Â Lyase Activities, Chromophore Exchange, and Photochromism in Phytochrome AphAâ€. Biochemistry, 2004, 43, 11576-11588.	2.5	35
54	Energy transfer in monomeric phycoerythrocyanin. Biochimica Et Biophysica Acta - Bioenergetics, 2004, 1608, 35-44.	1.0	11

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55	Nonenzymatic chromophore attachment in biliproteins: conformational control by the detergent Triton X-100. Biochimica Et Biophysica Acta - Bioenergetics, 2004, 1657, 131-145.	1.0	26
56	The Pigments. Advances in Photosynthesis and Respiration, 2003, , 29-81.	1.0	64
57	Photodynamics of the Bacteriochlorophyllâ€“Carotenoid System. 2. Influence of Central Metal, Solvent and Î²-Carotene on Photobleaching of Bacteriochlorophyll DerivativesÂ¶. Photochemistry and Photobiology, 2002, 76, 145.	2.5	50
58	Characterization of phycoviolobilin phycoerythrocyanin-Î±84-cystein-lyase-(isomerizing) fromMastigocladus laminosus. FEBS Journal, 2002, 269, 4542-4550.	0.2	24
59	Chromophore Attachment to Biliproteins:Â Specificity of PecE/PecF, a Lyase-Isomerase for the Photoactive 31-Cys-Î±84-phycoviolobilin Chromophore of Phycoerythrocyaninâ€. Biochemistry, 2001, 40, 12444-12456.	2.5	83
60	Photodynamics of the Bacteriochlorophyllâ€“Carotenoid System. 1. Bacteriochlorophyll-photosensitized Oxygenation of Î²-Carotene in AcetoneÂ¶. Photochemistry and Photobiology, 2001, 74, 64.	2.5	38
61	(18)O and mass spectrometry in chlorophyll research: Derivation and loss of oxygen atoms at the periphery of the chlorophyll macrocycle during biosynthesis, degradation and adaptation. , 2000, 66, 159-175.		34
62	Model for the phycobilisome rod with interlocking disks based on domain-weighted linker-polypeptide sequence homologies ofMastigocladus laminosus. International Journal of Photoenergy, 2000, 2, 31-40.	2.5	13
63	Novel activity of a phycobiliprotein lyase: both the attachment of phycocyanobilin and the isomerization to phycoviolobilin are catalyzed by the proteins PecE and PecF encoded by the phycoerythrocyanin operon. FEBS Letters, 2000, 469, 9-13.	2.8	63
64	Optical Absorption and Computational Studies of [Ni]-Bacteriochlorophyll-a. New Insight into Charge Distribution between Metal and Ligands. Journal of the American Chemical Society, 2000, 122, 3937-3944.	13.7	38
65	Metal-Substituted Bacteriochlorophylls. 2. Changes in Redox Potentials and Electronic Transition Energies Are Dominated by Intramolecular Electrostatic Interactions. Journal of the American Chemical Society, 1998, 120, 3684-3693.	13.7	68
66	Time-Resolved Spectral Investigation of Bacteriochlorophyll a and Its Transmetalated Derivatives [Zn]-Bacteriochlorophyll a and [Pd]-Bacteriochlorophyll a. Journal of Physical Chemistry B, 1998, 102, 8336-8342.	2.6	57
67	Metal-Substituted Bacteriochlorophylls. 1. Preparation and Influence of Metal and Coordination on Spectra. Journal of the American Chemical Society, 1998, 120, 3675-3683.	13.7	163
68	Axial Ligand Coordination and Photodissociation of Nickel Substituted Bacteriochlorophyll-a. , 1998, , 4225-4228.		2
69	Chromophore assignment in phycoerythrocyanin from Mastigocladus laminosus. Photosynthesis Research, 1997, 54, 25-34.	2.9	17
70	Type I and type II reversible photochemistry of phycoerythrocyanin Î±-subunit from Mastigocladus laminosus both involve Z, E isomerization of phycoviolobilin chromophore and are controlled by sulfhydryls in apoprotein. Biochimica Et Biophysica Acta - Bioenergetics, 1995, 1228, 244-253.	1.0	51
71	Reconstitution of an Allophycocyanin Trimer Complex Containing the C-Terminal 21-23 kDa Domain of the Core-Membrane Linker Polypeptide Lcm. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 1994, 49, 331-336.	1.4	11
72	Femtosecond spectral and anisotropy study of excitation energy transfer between neighbouring Î±-80 and Î²-81 chromophores of allophycocyanin trimers. Biochimica Et Biophysica Acta - Bioenergetics, 1994, 1188, 349-356.	1.0	24

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73	Epimerization of Chlorophyll Derivatives. V. Effects of the Central Magnesium and Ring Substituents on the Epimerization of Chlorophyll Derivatives. Bulletin of the Chemical Society of Japan, 1992, 65, 3080-3087.	3.2	33
74	Excitation transfer in C-phycocyanin. FÃ¶rster transfer rate and exciton calculations based on new crystal structure data for C-phycocyanins from Agmenellum quadruplicatum and Mastigocladus laminosus. Biochimica Et Biophysica Acta - Bioenergetics, 1988, 936, 157-170.	1.0	106
75	Fast preparative isoelectric focusing of phycocyanin subunits in layers of granulated gels. Electrophoresis, 1987, 8, 335-336.	2.4	13
76	FÃ–RSTER TRANSFER CALCULATIONS BASED ON CRYSTAL STRUCTURE DATA FROM Agmenellum quadruplicatum Câ€PHYCOCYANIN. Photochemistry and Photobiology, 1987, 46, 427-440.	2.5	100
77	Circulardichroism of C-Phycocyanin: Origin of Optical Activity in Denatured Biliproteins and Evidence for an Intermediate during Unfolding. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 1983, 38, 353-358.	1.4	7
78	Biliproteine. Angewandte Chemie, 1981, 93, 230-250.	2.0	94
79	Pyropheophytin a Accompanies Pheophytin a in Darkened Light Grown Cells of Euglena1. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 1981, 36, 827-833.	1.4	41
80	ENDOR Spectroscopy of the Chlorophylls and the Photosynthetic Light Conversion Apparatus. , 1979, , 159-195.		15
81	Studies on Plant Bile Pigments, II. Chemical and Photochemical Oxygenation of a Phytochrome PrChromophore Model Pigment to Purpurins. Hoppe-Seyler's Zeitschrift FÃ¼r Physiologische Chemie, 1977, 358, 185-196.	1.6	27
82	New peripheral metal complexes related to chlorophyll. Journal of the American Chemical Society, 1975, 97, 3273-3275.	13.7	31
83	Perspectives on future directions. , 0, , 609-624.		1