

# Ben D Hankamer

## List of Publications by Year in descending order

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120  
papers

9,997  
citations

44069

48  
h-index

34986

98  
g-index

121  
all docs

121  
docs citations

121  
times ranked

9433  
citing authors

#	ARTICLE	IF	CITATIONS
1	Utilisation of Seaweeds in the Australian Market – Commercialisation Strategies: Current Trends and Future Prospects. , 2022, , 265-294.		4
2	Circular biomanufacturing through harvesting solar energy and CO2. Trends in Plant Science, 2022, 27, 655-673.	8.8	18
3	Germination screen for microalgae-generated plant growth biostimulants. Algal Research, 2022, 66, 102784.	4.6	16
4	Solar biorefinery concept for sustainable co-production of microalgae-based protein and renewable fuel. Journal of Cleaner Production, 2022, 368, 132981.	9.3	13
5	Sargassum blooms in the Atlantic Ocean – From a burden to an asset. Algal Research, 2021, 54, 102188.	4.6	23
6	Inducible high level expression of a variant $\hat{P}^{\text{D19A,D58A}}$ -ferredoxin-hydrogenase fusion increases photohydrogen production efficiency in the green alga <i>Chlamydomonas reinhardtii</i> . Algal Research, 2021, 55, 102275.	4.6	1
7	Techno-economic evaluation of microalgae high-density liquid fuel production at 12 international locations. Biotechnology for Biofuels, 2021, 14, 133.	6.2	28
8	The fate of nitrogen and sulphur during co-liquefaction of algae and bagasse: Experimental and multi-criterion decision analysis. Biomass and Bioenergy, 2021, 151, 106119.	5.7	9
9	Microalgal nanocellulose – opportunities for a circular bioeconomy. Trends in Plant Science, 2021, 26, 924-939.	8.8	25
10	Algae biofertilisers promote sustainable food production and a circular nutrient economy – An integrated empirical-modelling study. Science of the Total Environment, 2021, 796, 148913.	8.0	15
11	Cationic polyacrylamide induced flocculation and turbulent dewatering of microalgae on a Britt Dynamic Drainage Jar. Separation and Purification Technology, 2020, 233, 116004.	7.9	21
12	Charting a development path to deliver cost competitive microalgae-based fuels. Algal Research, 2020, 45, 101721.	4.6	23
13	Light guide systems enhance microalgae production efficiency in outdoor high rate ponds. Algal Research, 2020, 47, 101846.	4.6	17
14	Light and heat-shock mediated TDA1 overexpression as a tool for controlled high-yield recombinant protein production in <i>Chlamydomonas reinhardtii</i> chloroplasts. Algal Research, 2020, 48, 101921.	4.6	11
15	Microalgal Aquafeeds As Part of a Circular Bioeconomy. Trends in Plant Science, 2019, 24, 959-970.	8.8	87
16	Design scenarios of outdoor arrayed cylindrical photobioreactors for microalgae cultivation considering solar radiation and temperature. Algal Research, 2019, 41, 101515.	4.6	36
17	Cryo-EM structures of the pore-forming A subunit from the <i>Yersinia entomophaga</i> ABC toxin. Nature Communications, 2019, 10, 1952.	12.8	40
18	Hydrothermal pre-treatment coupled with urea solubilisation enables efficient protein extraction from microalgae. Green Chemistry, 2019, 21, 6361-6371.	9.0	16

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19	Green Bioplastics as Part of a Circular Bioeconomy. Trends in Plant Science, 2019, 24, 237-249.	8.8	294
20	Optimising light conditions increases recombinant protein production in <i>Chlamydomonas reinhardtii</i> chloroplasts. Algal Research, 2018, 32, 329-340.	4.6	25
21	Structure of a PSI-LHCI-cyt b <sub>6</sub> f supercomplex in <i>Chlamydomonas reinhardtii</i> promoting cyclic electron flow under anaerobic conditions. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 10517-10522.	7.1	64
22	High-throughput optimisation of light-driven microalgae biotechnologies. Scientific Reports, 2018, 8, 11687.	3.3	40
23	RAZA: A Rapid 3D z-crossings algorithm to segment electron tomograms and extract organelles and macromolecules. Journal of Structural Biology, 2017, 200, 73-86.	2.8	3
24	Thylakoid Ultrastructure: Visualizing the Photosynthetic Machinery. Microbiology Monographs, 2017, , 149-191.	0.6	0
25	Experimental Investigations of Physical and Chemical Properties for Microalgae HTL Bio-Crude Using a Large Batch Reactor. Energies, 2017, 10, 467.	3.1	33
26	Challenges and opportunities for hydrogen production from microalgae. Plant Biotechnology Journal, 2016, 14, 1487-1499.	8.3	134
27	Multifactorial comparison of photobioreactor geometries in parallel microalgae cultivations. Algal Research, 2016, 15, 187-201.	4.6	50
28	Can photosynthesis enable a global transition from fossil fuels to solar fuels, to mitigate climate change and fuel-supply limitations?. Renewable and Sustainable Energy Reviews, 2016, 62, 134-163.	16.4	74
29	Photoacclimation and productivity of <i>Chlamydomonas reinhardtii</i> grown in fluctuating light regimes which simulate outdoor algal culture conditions. Algal Research, 2016, 13, 182-194.	4.6	41
30	Triggered exocytosis of the protozoan <i>Tetrahymena</i> as a source of bioflocculation and a controllable dewatering method for efficient harvest of microalgal cultures. Algal Research, 2016, 13, 148-158.	4.6	13
31	Trading Off Global Fuel Supply, CO <sub>2</sub> Emissions and Sustainable Development. PLoS ONE, 2016, 11, e0149406.	2.5	61
32	Prospects for Photobiological Hydrogen as a Renewable Energy. Current Biotechnology, 2016, 5, 173-191.	0.4	4
33	Genetic Engineering for Microalgae Strain Improvement in Relation to Biocrude Production Systems. Biofuel and Biorefinery Technologies, 2015, , 191-249.	0.3	8
34	Sulphur responsiveness of the <i>Chlamydomonas reinhardtii</i> LHCBM9 promoter. Planta, 2015, 241, 1287-1302.	3.2	15
35	High-throughput screen for high performance microalgae strain selection and integrated media design. Algal Research, 2015, 11, 313-325.	4.6	30
36	Solution structure of the RNA-binding cold-shock domain of the <i>Chlamydomonas reinhardtii</i> NAB1 protein and insights into RNA recognition. Biochemical Journal, 2015, 469, 97-106.	3.7	4

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37	Automated nutrient screening system enables high-throughput optimisation of microalgae production conditions. <i>Biotechnology for Biofuels</i> , 2015, 8, 65.	6.2	51
38	Inducible release of particulates from liposomes using the mechanosensitive channel of large conductance and L-lysophosphatidylcholine. <i>European Biophysics Journal</i> , 2015, 44, 521-530.	2.2	3
39	Functional similarities between heterogeneously and homogeneously expressed MscL constructs. <i>European Biophysics Journal</i> , 2015, 44, 589-598.	2.2	1
40	Gateway-Assisted Vector Construction to Facilitate Expression of Foreign Proteins in the Chloroplast of Single Celled Algae. <i>PLoS ONE</i> , 2014, 9, e86841.	2.5	20
41	Flow Cytometry Pulse Width Data Enables Rapid and Sensitive Estimation of Biomass Dry Weight in the Microalgae <i>Chlamydomonas reinhardtii</i> and <i>Chlorella vulgaris</i> . <i>PLoS ONE</i> , 2014, 9, e97269.	2.5	87
42	Integration in microalgal bioprocess development: Design of efficient, sustainable, and economic processes. <i>Engineering in Life Sciences</i> , 2014, 14, 560-573.	3.6	35
43	Bacterial Mechanosensitive Channels: Models for Studying Mechanosensory Transduction. <i>Antioxidants and Redox Signaling</i> , 2014, 20, 952-969.	5.4	41
44	Light-Harvesting Complex Protein LHCBM9 Is Critical for Photosystem II Activity and Hydrogen Production in <i>Chlamydomonas reinhardtii</i> . <i>Plant Cell</i> , 2014, 26, 1598-1611.	6.6	64
45	Expanding the microalgal industry – continuing controversy or compelling case?. <i>Current Opinion in Chemical Biology</i> , 2013, 17, 444-452.	6.1	45
46	Artificial photosynthesis as a frontier technology for energy sustainability. <i>Energy and Environmental Science</i> , 2013, 6, 1074.	30.8	284
47	Technoeconomic analysis of renewable aviation fuel from microalgae, <i>Pongamia pinnata</i> , and sugarcane. <i>Biofuels, Bioproducts and Biorefining</i> , 2013, 7, 416-428.	3.7	112
48	RNAi Knock-Down of LHCBM1, 2 and 3 Increases Photosynthetic H <sub>2</sub> Production Efficiency of the Green Alga <i>Chlamydomonas reinhardtii</i> . <i>PLoS ONE</i> , 2013, 8, e61375.	2.5	99
49	Impact of Procedural Steps and Cryopreservation Agents in the Cryopreservation of Chlorophyte Microalgae. <i>PLoS ONE</i> , 2013, 8, e78668.	2.5	30
50	Structure of the dengue virus glycoprotein non-structural protein 1 by electron microscopy and single-particle analysis. <i>Journal of General Virology</i> , 2012, 93, 771-779.	2.9	58
51	Structural Analysis of Chi1 Chitinase from Yen-Tc: The Multisubunit Insecticidal ABC Toxin Complex of <i>Yersinia entomophaga</i> . <i>Journal of Molecular Biology</i> , 2012, 415, 359-371.	4.2	61
52	Selection, breeding and engineering of microalgae for bioenergy and biofuel production. <i>Trends in Biotechnology</i> , 2012, 30, 198-205.	9.3	266
53	A 3D Image Filter for Parameter-Free Segmentation of Macromolecular Structures from Electron Tomograms. <i>PLoS ONE</i> , 2012, 7, e33697.	2.5	17
54	MscL Channels as Nanovalves for the Controlled Release of Liposome-Encapsulated Compounds. <i>Biophysical Journal</i> , 2011, 100, 277a-278a.	0.5	1

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55	3D structure of the <i>Yersinia entomophaga</i> toxin complex and implications for insecticidal activity. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 20544-20549.	7.1	91
56	Proteomic and Electron Microscopy Survey of Large Assemblies in Macrophage Cytoplasm. Molecular and Cellular Proteomics, 2011, 10, M111.008763.	3.8	5
57	Time-Course Global Expression Profiles of <i>Chlamydomonas reinhardtii</i> during Photo-Biological H <sub>2</sub> Production. PLoS ONE, 2011, 6, e29364.	2.5	37
58	Title is missing!. , 2011, 6, e29364.		0
59	Title is missing!. , 2011, 6, e29364.		0
60	Developments and perspectives of photobioreactors for biofuel production. Applied Microbiology and Biotechnology, 2010, 87, 1291-1301.	3.6	137
61	Microalgal hydrogen production. Current Opinion in Biotechnology, 2010, 21, 238-243.	6.6	152
62	An economic and technical evaluation of microalgal biofuels. Nature Biotechnology, 2010, 28, 126-128.	17.5	412
63	Measuring the Release of Fluorescein from MscL-Loaded Liposomes with Stressed Lipid Bilayers. Biophysical Journal, 2010, 98, 328a.	0.5	1
64	The Interplay of Proton, Electron, and Metabolite Supply for Photosynthetic H <sub>2</sub> Production in <i>Chlamydomonas reinhardtii</i> . Journal of Biological Chemistry, 2010, 285, 30247-30260.	3.4	68
65	Molecular Packing of Functionalized Fluorinated Lipids in Langmuir Monolayers. Langmuir, 2010, 26, 18868-18873.	3.5	11
66	Future prospects of microalgal biofuel production systems. Trends in Plant Science, 2010, 15, 554-564.	8.8	288
67	The Metabolome of <i>Chlamydomonas reinhardtii</i> following Induction of Anaerobic H <sub>2</sub> Production by Sulfur Depletion. Journal of Biological Chemistry, 2009, 284, 23415-23425.	3.4	119
68	The metabolome of <i>Chlamydomonas reinhardtii</i> following induction of anaerobic H <sub>2</sub> production by sulfur depletion.. Journal of Biological Chemistry, 2009, 284, 35996.	3.4	48
69	Three-Dimensional Structure of AAA ATPase Vps4: Advancing Structural Insights into the Mechanisms of Endosomal Sorting and Enveloped Virus Budding. Structure, 2009, 17, 427-437.	3.3	46
70	The structure of bacterial RNA polymerase in complex with the essential transcription elongation factor NusA. EMBO Reports, 2009, 10, 997-1002.	4.5	55
71	Improvement of light to biomass conversion by de-regulation of light-harvesting protein translation in <i>Chlamydomonas reinhardtii</i> . Journal of Biotechnology, 2009, 142, 70-77.	3.8	198
72	Synthesis of Nickel-Chelating Fluorinated Lipids for Protein Monolayer Crystallizations. Journal of Organic Chemistry, 2009, 74, 1473-1479.	3.2	17

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73	Phylogenetic and molecular analysis of hydrogen-producing green algae. <i>Journal of Experimental Botany</i> , 2009, 60, 1691-1702.	4.8	62
74	Synthetic Approaches to Functionalized Lipids for Protein Monolayer Crystallizations. <i>Current Organic Chemistry</i> , 2009, 13, 1378-1405.	1.6	3
75	Microalgal biofuel systems: Climate change, fuel supply and economic opportunities for sustainable development. <i>Microbiology Australia</i> , 2009, 30, 89.	0.4	0
76	Second Generation Biofuels: High-Efficiency Microalgae for Biodiesel Production. <i>Bioenergy Research</i> , 2008, 1, 20-43.	3.9	1,932
77	The Vps4 C-terminal helix is a critical determinant for assembly and ATPase activity and has elements conserved in other members of the meiotic clade of AAA-ATPases. <i>FEBS Journal</i> , 2008, 275, 1427-1449.	4.7	13
78	Cryoelectron Microscopy Map of <i>Atadenovirus</i> Reveals Cross-Genus Structural Differences from Human Adenovirus. <i>Journal of Virology</i> , 2008, 82, 7346-7356.	3.4	21
79	Transcriptome for Photobiological Hydrogen Production Induced by Sulfur Deprivation in the Green Alga <i>Chlamydomonas reinhardtii</i> . <i>Eukaryotic Cell</i> , 2008, 7, 1965-1979.	3.4	136
80	Ultrastructure of Photosynthesis in Green Algae Mutants. <i>Microscopy and Microanalysis</i> , 2007, 13, .	0.4	0
81	SwarmPS: Rapid, semi-automated single particle selection software. <i>Journal of Structural Biology</i> , 2007, 157, 174-188.	2.8	35
82	The Laplacian of Gaussian and arbitrary z-crossings approach applied to automated single particle reconstruction. <i>Journal of Structural Biology</i> , 2007, 159, 122-134.	2.8	26
83	Symmetry: A guide to its application in 2D electron crystallography. <i>Journal of Structural Biology</i> , 2007, 160, 332-343.	2.8	7
84	Bilateral edge filter: Photometrically weighted, discontinuity based edge detection. <i>Journal of Structural Biology</i> , 2007, 160, 93-102.	2.8	18
85	Electron crystallography of membrane proteins. <i>Journal of Structural Biology</i> , 2007, 160, 263-264.	2.8	7
86	Functional integration of the HUP1 hexose symporter gene into the genome of <i>C. reinhardtii</i> : Impacts on biological H <sub>2</sub> production. <i>Journal of Biotechnology</i> , 2007, 131, 27-33.	3.8	130
87	Engineering photosynthetic light capture: impacts on improved solar energy to biomass conversion. <i>Plant Biotechnology Journal</i> , 2007, 5, 802-814.	8.3	313
88	Photosynthetic biomass and H <sub>2</sub> production by green algae: from bioengineering to bioreactor scale-up. <i>Physiologia Plantarum</i> , 2007, 131, 10-21.	5.2	189
89	The discriminative bilateral filter: An enhanced denoising filter for electron microscopy data. <i>Journal of Structural Biology</i> , 2006, 155, 395-408.	2.8	88
90	Electron Microscopy of "The Green Yeast". <i>Microscopy and Microanalysis</i> , 2006, 12, 446-447.	0.4	0

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91	A method for screening the temperature dependence of three-dimensional crystal formation. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2006, 62, 559-562.	2.5	6
92	Perspectives and advances of biological H <sub>2</sub> production in microorganisms. <i>Applied Microbiology and Biotechnology</i> , 2006, 72, 442-449.	3.6	175
93	Improved Photobiological H <sub>2</sub> Production in Engineered Green Algal Cells. <i>Journal of Biological Chemistry</i> , 2005, 280, 34170-34177.	3.4	316
94	Photosynthesis: a blueprint for solar energy capture and biohydrogen production technologies. <i>Photochemical and Photobiological Sciences</i> , 2005, 4, 957.	2.9	284
95	Structural Analysis of the Photosystem II Core/Antenna Holocomplex by Electron Microscopy. , 2005, , 403-424.		4
96	Organization of the AAA+ Adaptor Protein PspA Is an Oligomeric Ring*. <i>Journal of Biological Chemistry</i> , 2004, 279, 8862-8866.	3.4	77
97	Crystal structure of a central stalk subunit C and reversible association/dissociation of vacuole-type ATPase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 59-64.	7.1	130
98	Membrane-protein crystallization in cubo: temperature-dependent phase behaviour of monoolein detergent mixtures. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2003, 59, 239-246.	2.5	28
99	Electron Crystallographic Study of Photosystem II of the Cyanobacterium <i>Synechococcus elongatus</i> . <i>Biochemistry</i> , 2002, 41, 5163-5167.	2.5	11
100	Three-Dimensional Structure of the Photosystem II Core Dimer of Higher Plants Determined by Electron Microscopy. <i>Journal of Structural Biology</i> , 2001, 135, 262-269.	2.8	88
101	Subunit positioning and transmembrane helix organisation in the core dimer of photosystem II. <i>FEBS Letters</i> , 2001, 504, 142-151.	2.8	80
102	Relationship between Excitation Energy Transfer, Trapping, and Antenna Size in Photosystem II. <i>Biochemistry</i> , 2001, 40, 4026-4034.	2.5	39
103	Phosphatidylglycerol Is Involved in the Dimerization of Photosystem II. <i>Journal of Biological Chemistry</i> , 2000, 275, 6509-6514.	3.4	158
104	Revealing the structure of the oxygen-evolving core dimer of photosystem II by cryoelectron crystallography. <i>Nature Structural Biology</i> , 1999, 6, 560-564.	9.7	123
105	Title is missing!. <i>Photosynthesis Research</i> , 1999, 60, 191-198.	2.9	7
106	Subunit positioning in photosystem II revisited. <i>Trends in Biochemical Sciences</i> , 1999, 24, 43-45.	7.5	52
107	Localization of the 23-kDa subunit of the oxygen-evolving complex of photosystem II by electron microscopy. <i>FEBS Journal</i> , 1998, 252, 268-276.	0.2	54
108	Purification of Oxygen Evolving PSII Complexes from <i>Synechococcus elongatus</i> for Electron Crystallography. , 1998, , 969-972.		1

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109	The structure, function and dynamics of photosystem two. <i>Physiologia Plantarum</i> , 1997, 100, 817-827.	5.2	14
110	STRUCTURE AND MEMBRANE ORGANIZATION OF PHOTOSYSTEM II IN GREEN PLANTS. <i>Annual Review of Plant Biology</i> , 1997, 48, 641-671.	14.3	322
111	Two-dimensional structure of plant photosystem II at 8-Å... resolution. <i>Nature</i> , 1997, 389, 522-526.	27.8	159
112	The three-dimensional structure of a photosystem II core complex determined by electron crystallography. <i>Structure</i> , 1997, 5, 837-849.	3.3	62
113	Isolation and Biochemical Characterization of Monomeric and Dimeric Photosystem II Complexes from Spinach and Their Relevance to the Organisation of Photosystem II In vivo. <i>FEBS Journal</i> , 1997, 243, 422-429.	0.2	188
114	Heterogeneity and Pigment Composition of Isolated Photosystem II Reaction Centers. <i>Biochemistry</i> , 1996, 35, 15074-15079.	2.5	28
115	Supramolecular structure of the photosystem II complex from green plants and cyanobacteria.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1995, 92, 175-179.	7.1	324
116	Biochemical Characterisation and Structural Analysis of Monomeric and Dimeric Photosystem II Core Preparations. , 1995, , 2305-2308.		1
117	Photosystem II Structure Investigated by Electron Microscopy and Single-Particle Averaging. , 1995, , 2169-2172.		0
118	Hydroxyproline and proline content of cell walls of sunflower, peanut and cotton grown under salt stress. <i>Plant Science</i> , 1990, 69, 27-32.	3.6	24
119	15 Microalgal production systems: Global impact of industry scale-up. , 0, , .		6
120	Morphological aspects of in cubo protein crystallisation. <i>Special Publication - Royal Society of Chemistry</i> , 0, , 221-236.	0.0	0