

# David R Nelson

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1853612/publications.pdf>

Version: 2024-02-01

26  
papers

3,176  
citations

567281

15  
h-index

610901

24  
g-index

27  
all docs

27  
docs citations

27  
times ranked

4837  
citing authors

#	ARTICLE	IF	CITATIONS
1	The <i>Chlamydomonas</i> Genome Reveals the Evolution of Key Animal and Plant Functions. <i>Science</i> , 2007, 318, 245-250.	12.6	2,354
2	Mapping of HKT1;5 Gene in Barley Using GWAS Approach and Its Implication in Salt Tolerance Mechanism. <i>Frontiers in Plant Science</i> , 2018, 9, 156.	3.6	95
3	Whole-Genome Resequencing Reveals Extensive Natural Variation in the Model Green Alga <i>Chlamydomonas reinhardtii</i> . <i>Plant Cell</i> , 2015, 27, 2353-2369.	6.6	92
4	Safranal induces DNA double-strand breakage and ER-stress-mediated cell death in hepatocellular carcinoma cells. <i>Scientific Reports</i> , 2018, 8, 16951.	3.3	82
5	Advances in microalgal research and engineering development. <i>Current Opinion in Biotechnology</i> , 2019, 59, 157-164.	6.6	73
6	Algal Cell Factories: Approaches, Applications, and Potentials. <i>Marine Drugs</i> , 2016, 14, 225.	4.6	65
7	An integrative Raman microscopy-based workflow for rapid in situ analysis of microalgal lipid bodies. <i>Biotechnology for Biofuels</i> , 2015, 8, 164.	6.2	58
8	Large-scale genome sequencing reveals the driving forces of viruses in microalgal evolution. <i>Cell Host and Microbe</i> , 2021, 29, 250-266.e8.	11.0	48
9	The genome of pest <i>Rhynchophorus ferrugineus</i> reveals gene families important at the plant-beetle interface. <i>Communications Biology</i> , 2020, 3, 323.	4.4	44
10	Intracellular spectral repositioning of light enhances algal photosynthetic efficiency. <i>Science Advances</i> , 2017, 3, e1603096.	10.3	42
11	Prospects for the Study and Improvement of Abiotic Stress Tolerance in Date Palms in the Post-genomics Era. <i>Frontiers in Plant Science</i> , 2020, 11, 293.	3.6	34
12	Molecular Mechanisms behind Safranal's Toxicity to HepG2 Cells from Dual Omics. <i>Antioxidants</i> , 2022, 11, 1125.	5.1	31
13	Microalgal Metabolic Network Model Refinement through High-Throughput Functional Metabolic Profiling. <i>Frontiers in Bioengineering and Biotechnology</i> , 2014, 2, 68.	4.1	29
14	Combined artificial high-silicate medium and LED illumination promote carotenoid accumulation in the marine diatom <i>Phaeodactylum tricorutum</i> . <i>Microbial Cell Factories</i> , 2019, 18, 209.	4.0	27
15	Potential for Heightened Sulfur-Metabolic Capacity in Coastal Subtropical Microalgae. <i>IScience</i> , 2019, 11, 450-465.	4.1	23
16	A high-quality genome assembly and annotation of the gray mangrove, <i>Avicennia marina</i> . <i>G3: Genes, Genomes, Genetics</i> , 2021, 11, .	1.8	16
17	The genome and phenome of the green alga <i>Chloroidium</i> sp. UTEX 3007 reveal adaptive traits for desert acclimatization. <i>ELife</i> , 2017, 6, .	6.0	16
18	Systems level analysis of the <i>Chlamydomonas reinhardtii</i> metabolic network reveals variability in evolutionary co-conservation. <i>Molecular BioSystems</i> , 2016, 12, 2394-2407.	2.9	12

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19	Positive correlation between wood $\hat{N}$ and stream nitrate concentrations in two temperate deciduous forests. <i>Environmental Research Communications</i> , 2020, 2, 025003.	2.3	8
20	Alternative glycosylation controls endoplasmic reticulum dynamics and tubular extension in mammalian cells. <i>Science Advances</i> , 2021, 7, .	10.3	8
21	GPCR Genes as Activators of Surface Colonization Pathways in a Model Marine Diatom. <i>IScience</i> , 2020, 23, 101424.	4.1	7
22	Toward Applications of Genomics and Metabolic Modeling to Improve Algal Biomass Productivity. <i>Biofuel and Biorefinery Technologies</i> , 2015, , 173-189.	0.3	5
23	<i>Heterococcus</i> sp. DN1 draft genome: focus on cold tolerance and lipid production. <i>Microbiome Science and Medicine</i> , 2013, 1, .	0.3	3
24	Single-Cell Characterization of Microalgal Lipid Contents with Confocal Raman Microscopy. <i>Series in Bioengineering</i> , 2016, , 363-382.	0.6	3
25	Protocol to generate and characterize biofouling transformants of a model marine diatom. <i>STAR Protocols</i> , 2021, 2, 100716.	1.2	0
26	High-Throughput Metabolic Profiling for Model Refinements of Microalgae. <i>Journal of Visualized Experiments</i> , 2021, , .	0.3	0