Todd W Lane

List of Publications by Citations

37 papers	3,898 citations	21 h-index	41 g-index
41 ext. papers	4,289 ext. citations	8.1 avg, IF	4.82 L-index

#	Paper	IF	Citations
37	The genome of the diatom Thalassiosira pseudonana: ecology, evolution, and metabolism. *Science*, **2004**, 306, 79-86	33.3	1586
36	A biological function for cadmium in marine diatoms. *Proceedings of the National Academy of Sciences of the United States of America*, **2000**, 97, 4627-31	11.5	512
35	Biochemistry: a cadmium enzyme from a marine diatom. *Nature*, **2005**, 435, 42	50.4	439
34	Triacylglycerol accumulation and profiling in the model diatoms Thalassiosira pseudonana and Phaeodactylum tricornutum (Baccilariophyceae) during starvation. *Journal of Applied Phycology*, **2009**, 21, 669-681	3.2	135
33	CARBONIC ANHYDRASE IN THE MARINE DIATOM THALASSIOSIRA WEISSFLOGII (BACILLARIOPHYCEAE)1. *Journal of Phycology*, **1997**, 33, 845-850	3	126
32	Regulation of carbonic anhydrase expression by zinc, cobalt, and carbon dioxide in the marine diatom Thalassiosira weissflogii. *Plant Physiology*, **2000**, 123, 345-52	6.6	124
31	Parasites in algae mass culture. *Frontiers in Microbiology*, **2014**, 5, 278	5.7	119
30	Modulation of cadmium uptake in phytoplankton by seawater CO2 concentration. *Nature*, **1999**, 402, 165-167	50.4	111
29	The active site structure of Thalassiosira weissflogii carbonic anhydrase 1. *Biochemistry*, **2000**, 39, 12128-30	3.0	108
28	Microfluidic-based cell sorting of Francisella tularensis infected macrophages using optical forces. *Analytical Chemistry*, **2008**, 80, 6365-72	7.8	80
27	IDENTIFICATION AND COMPARATIVE GENOMIC ANALYSIS OF SIGNALING AND REGULATORY COMPONENTS IN THE DIATOM THALASSIOSIRA PSEUDONANA1. *Journal of Phycology*, **2007**, 43, 585-604	3	76
26	Microbiome analysis of a microalgal mass culture growing in municipal wastewater in a prototype OMEGA photobioreactor. *Algal Research*, **2014**, 4, 52-61	5	54
25	A microfluidic DNA library preparation platform for next-generation sequencing. *PLoS ONE*, **2013**, 8, e68988	3.7	52
24	Assessing the potential of polyculture to accelerate algal biofuel production. *Algal Research*, **2016**, 19, 264-277	5	45
23	Pond Crash Forensics: Presumptive identification of pond crash agents by next generation sequencing in replicate raceway mass cultures of Nannochloropsis salina. *Algal Research*, **2016**, 17, 341-347	5	38
22	Peregrine: A rapid and unbiased method to produce strand-specific RNA-Seq libraries from small quantities of starting material. *RNA Biology*, **2013**, 10, 502-15	4.8	31
21	Characterization of the acylglycerols and resulting biodiesel derived from vegetable oil and microalgae (Thalassiosira pseudonana and Phaeodactylum tricornutum). *Biotechnology and Bioengineering*, **2012**, 109, 1146-54	4.9	25

20	cDNA normalization by hydroxyapatite chromatography to enrich transcriptome diversity in RNA-seq applications. *BioTechniques*, **2012**, 53, 373-80	2.5	23
19	Changes in the Structure of the Microbial Community Associated with Nannochloropsis salina following Treatments with Antibiotics and Bioactive Compounds. *Frontiers in Microbiology*, **2016**, 7, 1155	5.7	23
18	Growth of mono- and mixed cultures of Nannochloropsis salina and Phaeodactylum tricornutum on struvite as a nutrient source. *Bioresource Technology*, **2015**, 198, 577-85	11	22
17	Proteomic analysis of the CO2-concentrating mechanism in the open-ocean cyanobacterium Synechococcus WH8102. *Canadian Journal of Botany*, **2005**, 83, 735-745		22
16	Host selection and stochastic effects influence bacterial community assembly on the microalgal phycosphere. *Algal Research*, **2019**, 40, 101489	5	21
15	Chemical Profiling of Volatile Organic Compounds in the Headspace of Algal Cultures as Early Biomarkers of Algal Pond Crashes. *Scientific Reports*, **2019**, 9, 13866	4.9	18
14	Bacterial characterization using protein profiling in a microchip separations platform. *Electrophoresis*, **2007**, 28, 4697-704	3.6	15
13	Development of a closed-loop process for fusel alcohol production and nutrient recycling from microalgae biomass. *Bioresource Technology*, **2019**, 283, 350-357	11	15
12	Enriching pathogen transcripts from infected samples: a capture-based approach to enhanced host-pathogen RNA sequencing. *Analytical Biochemistry*, **2013**, 438, 90-6	3.1	14
11	PARAFAC modeling of three-way hyperspectral images: Endogenous fluorophores as health biomarkers in aquatic species. *Chemometrics and Intelligent Laboratory Systems*, **2011**, 106, 115-124	3.8	11
10	Bacterial communities protect the alga Microchloropsis salina from grazing by the rotifer Brachionus plicatilis. *Algal Research*, **2019**, 40, 101500	5	9
9	Accurate detection of low levels of fluorescence emission in autofluorescent background: francisella-infected macrophage cells. *Microscopy and Microanalysis*, **2010**, 16, 478-87	0.5	9
8	Longitudinal Analysis of Microbiota in Microalga Nannochloropsis salina Cultures. *Microbial Ecology*, **2016**, 72, 14-24	4.4	9
7	Identification of viruses using microfluidic protein profiling and Bayesian classification. *Analytical Chemistry*, **2008**, 80, 9005-12	7.8	8
6	Low Molecular Weight Volatile Organic Compounds Indicate Grazing by the Marine Rotifer on the Microalgae. *Metabolites*, **2020**, 10,	5.6	5
5	Barriers to microalgal mass cultivation. *Current Opinion in Biotechnology*, **2021**, 73, 323-328	11.4	3
4	Operational, Prophylactic, and Interdictive Technologies for Algal Crop Protection. *Grand Challenges in Biology and Biotechnology*, **2019**, 35-70	2.4	3
3	Spectroradiometric detection of competitor diatoms and the grazer Poteriochromonas in algal cultures. *Algal Research*, **2020**, 51, 102020	5	3

2	Janthinobacter additions reduce rotifer grazing of microalga Microchloropsis salina in biotically complex communities. *Algal Research*, **2021**, 58, 102400	5	2
1	Facile processing of Microchloropsis salina biomass for phosphate recycle. *Algal Research*, **2019**, 40, 101498	5	1