

Ming Tien

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

65 papers	3,583 citations	29 h-index	59 g-index
67 ext. papers	3,917 ext. citations	4 avg, IF	5.16 L-index

#	Paper	IF	Citations
65	Leveraging lifetime information to perform real-time 3D single-particle tracking in noisy environments. <i>Journal of Chemical Physics</i> , 2021 , 155, 164201	3.9	1
64	Integrated multi-wavelength microscope combining TIRFM and IRM modalities for imaging cellulases and other processive enzymes. <i>Biomedical Optics Express</i> , 2021 , 12, 3253-3264	3.5	2
63	Nanoscale dynamics of cellulose digestion by the cellobiohydrolase TrCel7A. <i>Journal of Biological Chemistry</i> , 2021 , 297, 101029	5.4	0
62	Prior-Apprised Unsupervised Learning of Subpixel Curvilinear Features in Low Signal/Noise Images. <i>Biophysical Journal</i> , 2020 , 118, 2458-2469	2.9	1
61	Lignin Contribution to Aliphatic Constituents of Humic Acids through Fungal Degradation. <i>Journal of Environmental Quality</i> , 2019 , 48, 1565-1570	3.4	15
60	Simulations of Cellulose Synthesis Initiation and Termination in Bacteria. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 3699-3705	3.4	8
59	Convergent evolution of hetero-oligomeric cellulose synthesis complexes in mosses and seed plants. <i>Plant Journal</i> , 2019 , 99, 862-876	6.9	3
58	Initiation, Elongation, and Termination of Bacterial Cellulose Synthesis. <i>ACS Omega</i> , 2018 , 3, 2690-2698	3.9	13
57	Longevity in vivo of primary cell wall cellulose synthases. <i>Plant Molecular Biology</i> , 2018 , 96, 279-289	4.6	11
56	Domain swaps of Arabidopsis secondary wall cellulose synthases to elucidate their class specificity. <i>Plant Direct</i> , 2018 , 2, e00061	3.3	8
55	SHOU4 Proteins Regulate Trafficking of Cellulose Synthase Complexes to the Plasma Membrane. <i>Current Biology</i> , 2018 , 28, 3174-3182.e6	6.3	25
54	Kinetic analysis of cellulose synthase of <i>Gluconacetobacter hansenii</i> in whole cells and in purified form. <i>Enzyme and Microbial Technology</i> , 2018 , 119, 24-29	3.8	1
53	Host-plant induced changes in microbial community structure and midgut gene expression in an invasive polyphage (<i>Anoplophora glabripennis</i>). <i>Scientific Reports</i> , 2018 , 8, 9620	4.9	13
52	Within gut physicochemical variation does not correspond to distinct resident fungal and bacterial communities in the tree-killing xylophage, <i>Anoplophora glabripennis</i> . <i>Journal of Insect Physiology</i> , 2017 , 102, 27-35	2.4	4
51	Reducing biomass recalcitrance by heterologous expression of a bacterial peroxidase in tobacco (<i>Nicotiana benthamiana</i>). <i>Scientific Reports</i> , 2017 , 7, 17104	4.9	12
50	Modulation of the reactivity of multiheme cytochromes by site-directed mutagenesis: moving towards the optimization of microbial electrochemical technologies. <i>Journal of Biological Inorganic Chemistry</i> , 2017 , 22, 87-97	3.7	6
49	AcsA-AcsB: The core of the cellulose synthase complex from <i>Gluconacetobacter hansenii</i> ATCC23769. <i>Enzyme and Microbial Technology</i> , 2016 , 82, 58-65	3.8	11

48	Isolation and characterization of two cellulose morphology mutants of <i>Gluconacetobacter hansenii</i> ATCC23769 producing cellulose with lower crystallinity. <i>PLoS ONE</i> , 2015 , 10, e0119504	3.7	15
47	Characterization and Proteomic Analysis of <i>Geobacter sulfurreducens</i> PCA under Long-Term Electron-Donor Starvation. <i>Geomicrobiology Journal</i> , 2015 , 00-00	2.5	2
46	The Arabidopsis cellulose synthase complex: a proposed hexamer of CESA trimers in an equimolar stoichiometry. <i>Plant Cell</i> , 2014 , 26, 4834-42	11.6	119
45	Functional genomics and microbiome profiling of the Asian longhorned beetle (<i>Anoplophora glabripennis</i>) reveal insights into the digestive physiology and nutritional ecology of wood feeding beetles. <i>BMC Genomics</i> , 2014 , 15, 1096	4.5	68
44	Differential proteomic analysis of the secretome of <i>Irpex lacteus</i> and other white-rot fungi during wheat straw pretreatment. <i>Biotechnology for Biofuels</i> , 2013 , 6, 115	7.8	65
43	Midgut transcriptome profiling of <i>Anoplophora glabripennis</i> , a lignocellulose degrading cerambycid beetle. <i>BMC Genomics</i> , 2013 , 14, 850	4.5	52
42	Processing of cellulose synthase (AcsAB) from <i>Gluconacetobacter hansenii</i> 23769. <i>Archives of Biochemistry and Biophysics</i> , 2013 , 529, 92-8	4.1	9
41	Survival during long-term starvation: global proteomics analysis of <i>Geobacter sulfurreducens</i> under prolonged electron-acceptor limitation. <i>Journal of Proteome Research</i> , 2013 , 12, 4316-26	5.6	13
40	Identification and characterization of non-cellulose-producing mutants of <i>Gluconacetobacter hansenii</i> generated by Tn5 transposon mutagenesis. <i>Journal of Bacteriology</i> , 2013 , 195, 5072-83	3.5	40
39	Metagenomic profiling reveals lignocellulose degrading system in a microbial community associated with a wood-feeding beetle. <i>PLoS ONE</i> , 2013 , 8, e73827	3.7	87
38	Efficient and selective isotopic labeling of hemes to facilitate the study of multiheme proteins. <i>BioTechniques</i> , 2012 , 52,	2.5	9
37	Proteomic analysis of <i>Fusarium solani</i> isolated from the Asian longhorned beetle, <i>Anoplophora glabripennis</i> . <i>PLoS ONE</i> , 2012 , 7, e32990	3.7	27
36	Growth advantage in stationary-phase (GASP) phenotype in long-term survival strains of <i>Geobacter sulfurreducens</i> . <i>FEMS Microbiology Ecology</i> , 2012 , 79, 218-28	4.3	13
35	Phylogenetic Analysis of <i>Fusarium solani</i> Associated with the Asian Longhorned Beetle, <i>Anoplophora glabripennis</i> . <i>Insects</i> , 2012 , 3, 141-60	2.8	16
34	Electrical conductivity as an indicator of iron reduction rates in abiotic and biotic systems. <i>Water Resources Research</i> , 2011 , 47,	5.4	13
33	Biochemical localization of a protein involved in synthesis of <i>Gluconacetobacter hansenii</i> cellulose. <i>Cellulose</i> , 2011 , 18, 739-747	5.5	18
32	Genome sequence of a cellulose-producing bacterium, <i>Gluconacetobacter hansenii</i> ATCC 23769. <i>Journal of Bacteriology</i> , 2010 , 192, 4256-7	3.5	43
31	Kinetic characterization of OmcA and MtrC, terminal reductases involved in respiratory electron transfer for dissimilatory iron reduction in <i>Shewanella oneidensis</i> MR-1. <i>Applied and Environmental Microbiology</i> , 2009 , 75, 5218-26	4.8	135

30	Microbial community profiling to investigate transmission of bacteria between life stages of the wood-boring beetle, <i>Anoplophora glabripennis</i> . <i>Microbial Ecology</i> , 2009 , 58, 199-211	4.4	31
29	The first genome-level transcriptome of the wood-degrading fungus <i>Phanerochaete chrysosporium</i> grown on red oak. <i>Current Genetics</i> , 2009 , 55, 273-86	2.9	49
28	Effect of host tree species on cellulase activity and bacterial community composition in the gut of larval Asian longhorned beetle. <i>Environmental Entomology</i> , 2009 , 38, 686-99	2.1	59
27	Letter. Continuous time-resolved X-ray diffraction of the biocatalyzed reduction of Mn oxide. <i>American Mineralogist</i> , 2008 , 93, 1929-1932	2.9	14
26	Lignin degradation in wood-feeding insects. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 12932-7	11.5	230
25	Improved Sugar Release from Lignocellulosic Material by Introducing a Tyrosine-rich Cell Wall Peptide Gene in Poplar. <i>Clean - Soil, Air, Water</i> , 2008 , 36, 662-668	1.6	33
24	Expression analysis of extracellular proteins from <i>Phanerochaete chrysosporium</i> grown on different liquid and solid substrates. <i>Microbiology (United Kingdom)</i> , 2007 , 153, 3023-3033	2.9	94
23	Characterization of protein-protein interactions involved in iron reduction by <i>Shewanella oneidensis</i> MR-1. <i>Applied and Environmental Microbiology</i> , 2007 , 73, 5797-808	4.8	126
22	Reduction of soluble and insoluble iron forms by membrane fractions of <i>Shewanella oneidensis</i> grown under aerobic and anaerobic conditions. <i>Applied and Environmental Microbiology</i> , 2006 , 72, 2925-35	4.8	52
21	In vitro enzymatic reduction kinetics of mineral oxides by membrane fractions from <i>Shewanella oneidensis</i> MR-1. <i>Geochimica Et Cosmochimica Acta</i> , 2006 , 70, 56-70	5.5	29
20	Nano-assembly of manganese peroxidase and lignin peroxidase from <i>P. chrysosporium</i> for biocatalysis in aqueous and non-aqueous media. <i>Colloids and Surfaces B: Biointerfaces</i> , 2005 , 43, 13-9	6	18
19	Fungal degradation of wood: initial proteomic analysis of extracellular proteins of <i>Phanerochaete chrysosporium</i> grown on oak substrate. <i>Current Genetics</i> , 2005 , 47, 49-56	2.9	90
18	Culture conditions affecting biodegradation components of the brown-rot fungus <i>Gloeophyllum trabeum</i> . <i>Archives of Microbiology</i> , 2003 , 180, 251-6	3	18
17	Redox equilibria of manganese peroxidase from <i>Phanerochaetes chrysosporium</i> : functional role of residues on the proximal side of the haem pocket. <i>Biochemical Journal</i> , 2000 , 349, 85-90	3.8	15
16	Oxidation mechanism of ligninolytic enzymes involved in the degradation of environmental pollutants. <i>International Biodeterioration and Biodegradation</i> , 2000 , 46, 51-59	4.8	146
15	Spectroscopic characterization of active mutants of manganese peroxidase: mutations on the proximal side affect calcium binding of the distal side. <i>Biochemistry</i> , 1999 , 38, 9617-25	3.2	14
14	Lignin and Mn peroxidase-catalyzed oxidation of phenolic lignin oligomers. <i>Biochemistry</i> , 1999 , 38, 3205-10	3.1	82
13	Role of axial ligands in the reactivity of Mn peroxidase from <i>Phanerochaete chrysosporium</i> . <i>Biochemistry</i> , 1999 , 38, 9608-16	3.2	18

12	Myeloperoxidase-catalyzed oxidation of tyrosine. <i>Archives of Biochemistry and Biophysics</i> , 1999 , 367, 61-6	4.1	48
11	Monitoring the role of oxalate in manganese peroxidase. <i>Biochemistry</i> , 1998 , 37, 9009-15	3.2	15
10	Identification of the veratryl alcohol binding site in lignin peroxidase by site-directed mutagenesis. <i>Biochemical and Biophysical Research Communications</i> , 1998 , 251, 283-6	3.4	28
9	Oxidation of 4-methoxymandelic acid by lignin peroxidase. Mediation by veratryl alcohol. <i>Journal of Biological Chemistry</i> , 1997 , 272, 8912-7	5.4	40
8	Mutagenesis of the Mn ²⁺ -binding site of manganese peroxidase affects oxidation of Mn ²⁺ by both compound I and compound II. <i>Biochemistry</i> , 1997 , 36, 9766-73	3.2	48
7	Oxidation of guaiacol by lignin peroxidase. Role of veratryl alcohol. <i>Journal of Biological Chemistry</i> , 1995 , 270, 22254-8	5.4	90
6	Kinetic analysis of lignin peroxidase: explanation for the mediation phenomenon by veratryl alcohol. <i>Biochemistry</i> , 1994 , 33, 4225-30	3.2	86
5	Lignin Peroxidase. <i>ACS Symposium Series</i> , 1991 , 180-187	0.4	
4	[27] Lignin peroxidase from fungi: Phanerochaete chrysosporium. <i>Methods in Enzymology</i> , 1990 , 159-171	1.7	31
3	Lignin peroxidase of Phanerochaete chrysosporium. <i>Methods in Enzymology</i> , 1988 , 161, 238-249	1.7	912
2	Properties of ligninase from Phanerochaete chrysosporium and their possible applications. <i>CRC Critical Reviews in Microbiology</i> , 1987 , 15, 141-68		191
1	The multiple effects of ethylenediaminetetraacetate in several model lipid peroxidation systems. <i>Archives of Biochemistry and Biophysics</i> , 1982 , 218, 450-8	4.1	98