

# Yin-Ru Chiang

## List of Publications by Citations

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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.

35 papers	700 citations	17 h-index	26 g-index
38 ext. papers	896 ext. citations	6.2 avg, IF	3.99 L-index

#	Paper	IF	Citations
35	Study of anoxic and oxic cholesterol metabolism by Sterolibacterium denitrificans. <i>Journal of Bacteriology</i> , <b>2008</b> , 190, 905-14	3.5	69
34	Initial steps in the anoxic metabolism of cholesterol by the denitrifying Sterolibacterium denitrificans. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 13240-9	5.4	56
33	Biochemical Mechanisms and Catabolic Enzymes Involved in Bacterial Estrogen Degradation Pathways. <i>Cell Chemical Biology</i> , <b>2017</b> , 24, 712-724.e7	8.2	55
32	Genomic Insight into the Host-Endosymbiont Relationship of Endozoicomonas montiporae CL-33(T) with its Coral Host. <i>Frontiers in Microbiology</i> , <b>2016</b> , 7, 251	5.7	49
31	Anaerobic and aerobic cleavage of the steroid core ring structure by Steroidobacter denitrificans. <i>Journal of Lipid Research</i> , <b>2013</b> , 54, 1493-504	6.3	43
30	Cholest-4-en-3-one-delta 1-dehydrogenase, a flavoprotein catalyzing the second step in anoxic cholesterol metabolism. <i>Applied and Environmental Microbiology</i> , <b>2008</b> , 74, 107-13	4.8	42
29	Estrogen Degraders and Estrogen Degradation Pathway Identified in an Activated Sludge. <i>Applied and Environmental Microbiology</i> , <b>2018</b> , 84,	4.8	40
28	Integrated multi-omics analyses reveal the biochemical mechanisms and phylogenetic relevance of anaerobic androgen biodegradation in the environment. <i>ISME Journal</i> , <b>2016</b> , 10, 1967-83	11.9	39
27	Microbial degradation of steroid sex hormones: implications for environmental and ecological studies. <i>Microbial Biotechnology</i> , <b>2020</b> , 13, 926-949	6.3	35
26	Anoxic androgen degradation by the denitrifying bacterium Sterolibacterium denitrificans via the 2,3-seco pathway. <i>Applied and Environmental Microbiology</i> , <b>2014</b> , 80, 3442-52	4.8	31
25	A novel testosterone catabolic pathway in bacteria. <i>Journal of Bacteriology</i> , <b>2011</b> , 193, 4447-55	3.5	27
24	Substrate uptake and subcellular compartmentation of anoxic cholesterol catabolism in Sterolibacterium denitrificans. <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 1155-69	5.4	26
23	Identification of Comamonas testosteroni as an androgen degrader in sewage. <i>Scientific Reports</i> , <b>2016</b> , 6, 35386	4.9	26
22	Initial steps in anoxic testosterone degradation by Steroidobacter denitrificans. <i>Microbiology (United Kingdom)</i> , <b>2010</b> , 156, 2253-2259	2.9	25
21	Metabolites Involved in Aerobic Degradation of the A and B Rings of Estrogen. <i>Applied and Environmental Microbiology</i> , <b>2019</b> , 85,	4.8	25
20	An oxygenase-independent cholesterol catabolic pathway operates under oxic conditions. <i>PLoS ONE</i> , <b>2013</b> , 8, e66675	3.7	21
19	Retroconversion of estrogens into androgens by bacteria via a cobalamin-mediated methylation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 1395-1403	11.5	21

18	Biochemical Mechanisms and Microorganisms Involved in Anaerobic Testosterone Metabolism in Estuarine Sediments. <i>Frontiers in Microbiology</i> , <b>2017</b> , 8, 1520	5.7	11
17	Microbial Functional Responses to Cholesterol Catabolism in Denitrifying Sludge. <i>MSystems</i> , <b>2018</b> , 3,	7.6	11
16	Long-term warming destabilizes aquatic ecosystems through weakening biodiversity-mediated causal networks. <i>Global Change Biology</i> , <b>2020</b> , 26, 6413-6423	11.4	10
15	Biosynthesis of Ascorbic Acid as a Glucose-Induced Photoprotective Process in the Extremophilic Red Alga. <i>Frontiers in Microbiology</i> , <b>2019</b> , 10, 3005	5.7	7
14	Comparative Genome Analysis Reveals Cyanidiococcus gen. nov., A New Extremophilic Red Algal Genus Sister to Cyanidioschyzon (Cyanidioschyzonaceae, Rhodophyta). <i>Journal of Phycology</i> , <b>2020</b> , 56, 1428-1442	3	6
13	Highly Oxygenated Constituents from a Marine Alga-Derived Fungus NTU967. <i>Marine Drugs</i> , <b>2020</b> , 18,	6	5
12	Mechanistic and phylogenetic insights into actinobacteria-mediated oestrogen biodegradation in urban estuarine sediments. <i>Microbial Biotechnology</i> , <b>2021</b> , 14, 1212-1227	6.3	4
11	Integrated Multi-omics Investigations Reveal the Key Role of Synergistic Microbial Networks in Removing Plasticizer Di-(2-Ethylhexyl) Phthalate from Estuarine Sediments. <i>MSystems</i> , <b>2021</b> , 6, e0035821	7.6	4
10	Anaerobic Biodegradation of Steroids <b>2017</b> , 1-32		3
9	Genome analysis of the steroid-degrading denitrifying Denitratisoma oestradiolicum DSM 16959 and Denitratisoma sp. strain DHT3		2
8	Identification of essential oxidation genes and corresponding metabolites for oestrogen degradation by actinobacteria. <i>Microbial Biotechnology</i> , <b>2021</b> ,	6.3	2
7	Causal networks of phytoplankton diversity and biomass are modulated by environmental context.. <i>Nature Communications</i> , <b>2022</b> , 13, 1140	17.4	2
6	Integrated multi-omics investigations reveal the key role of synergistic microbial networks in removing plasticizer di-(2-ethylhexyl) phthalate from estuarine sediments		1
5	Bioactive pulvinones from a marine algicolous fungus Aspergillus terreus NTU243.. <i>Phytochemistry</i> , <b>2022</b> , 200, 113229	4	1
4	Valorization of fish waste and sugarcane bagasse for Alcalase production by Bacillus megaterium via a circular bioeconomy model. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2022</b> , 135, 104358	5.3	1
3	Temporal compositional shifts in an activated sludge microbiome during estrone biodegradation.. <i>Environmental Science and Pollution Research</i> , <b>2022</b> , 1	5.1	0
2	Omics and mechanistic insights into di-(2-ethylhexyl) phthalate degradation in the O-fluctuating estuarine sediments.. <i>Chemosphere</i> , <b>2022</b> , 299, 134406	8.4	0
1	Anaerobic Biodegradation of Steroids <b>2020</b> , 165-195		

