

# Joanne K Hobbs

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/114741/publications.pdf>

Version: 2024-02-01

25  
papers

1,372  
citations

516710

16  
h-index

580821

25  
g-index

25  
all docs

25  
docs citations

25  
times ranked

2029  
citing authors

#	ARTICLE	IF	CITATIONS
1	On the Temperature Dependence of Enzyme-Catalyzed Rates. <i>Biochemistry</i> , 2016, 55, 1681-1688.	2.5	233
2	Change in Heat Capacity for Enzyme Catalysis Determines Temperature Dependence of Enzyme Catalyzed Rates. <i>ACS Chemical Biology</i> , 2013, 8, 2388-2393.	3.4	164
3	Thermodynamic theory explains the temperature optima of soil microbial processes and high $Q_{10}$ values at low temperatures. <i>Global Change Biology</i> , 2014, 20, 3578-3586.	9.5	163
4	Consequences of daptomycin-mediated membrane damage in <i>Staphylococcus aureus</i> . <i>Journal of Antimicrobial Chemotherapy</i> , 2008, 62, 1003-1008.	3.0	115
5	On the Origin and Evolution of Thermophily: Reconstruction of Functional Precambrian Enzymes from Ancestors of <i>Bacillus</i> . <i>Molecular Biology and Evolution</i> , 2012, 29, 825-835.	8.9	83
6	KdgF, the missing link in the microbial metabolism of uronate sugars from pectin and alginate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 6188-6193.	7.1	80
7	XF-73, a novel antistaphylococcal membrane-active agent with rapid bactericidal activity. <i>Journal of Antimicrobial Chemotherapy</i> , 2009, 64, 735-740.	3.0	78
8	(p)ppGpp and the Stringent Response: An Emerging Threat to Antibiotic Therapy. <i>ACS Infectious Diseases</i> , 2019, 5, 1505-1517.	3.8	78
9	Molecular Characterization of N-glycan Degradation and Transport in <i>Streptococcus pneumoniae</i> and Its Contribution to Virulence. <i>PLoS Pathogens</i> , 2017, 13, e1006090.	4.7	57
10	Insights into the $\beta$ -1-carrageenan metabolism pathway of some marine <i>Pseudoalteromonas</i> species. <i>Communications Biology</i> , 2019, 2, 474.	4.4	54
11	Toward More Accurate Ancestral Protein Genotype-Phenotype Reconstructions with the Use of Species Tree-Aware Gene Trees. <i>Molecular Biology and Evolution</i> , 2015, 32, 13-22.	8.9	43
12	Glycan-metabolizing enzymes in microbe-host interactions: the <i>Streptococcus pneumoniae</i> paradigm. <i>FEBS Letters</i> , 2018, 592, 3865-3897.	2.8	38
13	Evaluation of linezolid for the treatment of <i>Clostridium difficile</i> infection caused by epidemic strains using an in vitro human gut model. <i>Journal of Antimicrobial Chemotherapy</i> , 2011, 66, 1537-1546.	3.0	28
14	Biochemical Reconstruction of a Metabolic Pathway from a Marine Bacterium Reveals Its Mechanism of Pectin Depolymerization. <i>Applied and Environmental Microbiology</i> , 2019, 85, .	3.1	23
15	Metabolism of a hybrid algal galactan by members of the human gut microbiome. <i>Nature Chemical Biology</i> , 2022, 18, 501-510.	8.0	21
16	A Second $\beta$ -Hexosaminidase Encoded in the <i>Streptococcus pneumoniae</i> Genome Provides an Expanded Biochemical Ability to Degrade Host Glycans. <i>Journal of Biological Chemistry</i> , 2015, 290, 30888-30900.	3.4	20
17	Reconstructed Ancestral Enzymes Impose a Fitness Cost upon Modern Bacteria Despite Exhibiting Favourable Biochemical Properties. <i>Journal of Molecular Evolution</i> , 2015, 81, 110-120.	1.8	16
18	Two complementary $\alpha$ -fucosidases from <i>Streptococcus pneumoniae</i> promote complete degradation of host-derived carbohydrate antigens. <i>Journal of Biological Chemistry</i> , 2019, 294, 12670-12682.	3.4	16

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19	Clinical Mutations That Partially Activate the Stringent Response Confer Multidrug Tolerance in <i>Staphylococcus aureus</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2020, 64, .	3.2	16
20	Antistaphylococcal activity of the novel cephalosporin CB-181963 (CAB-175). <i>Journal of Antimicrobial Chemotherapy</i> , 2005, 55, 579-582.	3.0	12
21	Functional Analyses of Resurrected and Contemporary Enzymes Illuminate an Evolutionary Path for the Emergence of Exolysis in Polysaccharide Lyase Family 2. <i>Journal of Biological Chemistry</i> , 2015, 290, 21231-21243.	3.4	12
22	Evolution of extended-spectrum $\beta$ -lactamases in a MutS-deficient <i>Pseudomonas aeruginosa</i> hypermutator. <i>Journal of Antimicrobial Chemotherapy</i> , 2006, 58, 905-907.	3.0	7
23	Separation and Visualization of Glycans by Fluorophore-Assisted Carbohydrate Electrophoresis. <i>Methods in Molecular Biology</i> , 2017, 1588, 215-221.	0.9	7
24	Molecular analysis of an enigmatic <i>Streptococcus pneumoniae</i> virulence factor: The raffinose-family oligosaccharide utilization system. <i>Journal of Biological Chemistry</i> , 2019, 294, 17197-17208.	3.4	6
25	A surrogate structural platform informed by ancestral reconstruction and resurrection of a putative carbohydrate binding module hybrid illuminates the neofunctionalization of a pectate lyase. <i>Journal of Structural Biology</i> , 2019, 207, 279-286.	2.8	2