

# John M Ward

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1525786/publications.pdf>

Version: 2024-02-01

187  
papers

11,412  
citations

26630

56  
h-index

33894

99  
g-index

260  
all docs

260  
docs citations

260  
times ranked

11582  
citing authors

#	ARTICLE	IF	CITATIONS
1	Phylogenetic Relationships within Cation Transporter Families of Arabidopsis. <i>Plant Physiology</i> , 2001, 126, 1646-1667.	4.8	1,110
2	Insights into Land Plant Evolution Garnered from the <i>Marchantia polymorpha</i> Genome. <i>Cell</i> , 2017, 171, 287-304.e15.	28.9	973
3	Cyclophilin-D binds strongly to complexes of the voltage-dependent anion channel and the adenine nucleotide translocase to form the permeability transition pore. <i>FEBS Journal</i> , 1998, 258, 729-735.	0.2	423
4	Plant Ion Channels: Gene Families, Physiology, and Functional Genomics Analyses. <i>Annual Review of Physiology</i> , 2009, 71, 59-82.	13.1	335
5	SUT2, a Putative Sucrose Sensor in Sieve Elements. <i>Plant Cell</i> , 2000, 12, 1153-1164.	6.6	303
6	A New Subfamily of Sucrose Transporters, SUT4, with Low Affinity/High Capacity Localized in Eucleate Sieve Elements of Plants. <i>Plant Cell</i> , 2000, 12, 1345-1355.	6.6	288
7	Substrate spectrum of $\alpha$ -transaminase from <i>Chromobacterium violaceum</i> DSM30191 and its potential for biocatalysis. <i>Enzyme and Microbial Technology</i> , 2007, 41, 628-637.	3.2	277
8	The mitochondrial permeability transition pore. <i>Biochemical Society Symposia</i> , 1999, 66, 167-179.	2.7	195
9	<i>Aggregatibacter</i> ( <i>Actinobacillus</i> ) <i>actinomycetemcomitans</i> : a triple A* periodontopathogen?. <i>Periodontology</i> 2000, 2010, 54, 78-105.	13.4	184
10	Molecular Pathogenicity of the Oral Opportunistic Pathogen <i>Actinobacillus actinomycetemcomitans</i> . <i>Annual Review of Microbiology</i> , 2003, 57, 29-55.	7.3	177
11	<i>Arabidopsis</i> Sucrose Transporter AtSUC1 Is Important for Pollen Germination and Sucrose-Induced Anthocyanin Accumulation. <i>Plant Physiology</i> , 2008, 147, 92-100.	4.8	165
12	Two Steps in One Pot: Enzyme Cascade for the Synthesis of Nor(pseudo)ephedrine from Inexpensive Starting Materials. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 6772-6775.	13.8	157
13	An Origin-of-Life Reactor to Simulate Alkaline Hydrothermal Vents. <i>Journal of Molecular Evolution</i> , 2014, 79, 213-227.	1.8	152
14	Involvement of Cyclophilin D in the Activation of A mitochondrial Pore by Ca <sup>2+</sup> and Oxidant Stress. <i>FEBS Journal</i> , 1996, 238, 166-172.	0.2	149
15	Evolution of plant sucrose uptake transporters. <i>Frontiers in Plant Science</i> , 2012, 3, 22.	3.6	149
16	<i>Arabidopsis</i> Sucrose Transporter AtSUC9. High-Affinity Transport Activity, Intragenic Control of Expression, and Early Flowering Mutant Phenotype. <i>Plant Physiology</i> , 2007, 143, 188-198.	4.8	147
17	High-Yield Biocatalytic Amination Reactions in Organic Synthesis. <i>Current Organic Chemistry</i> , 2010, 14, 1914-1927.	1.6	139
18	The structure of a resuscitation-promoting factor domain from <i>Mycobacterium tuberculosis</i> shows homology to lysozymes. <i>Nature Structural and Molecular Biology</i> , 2005, 12, 270-273.	8.2	131

#	ARTICLE	IF	CITATIONS
19	Functional analysis of LjSUT4, a vacuolar sucrose transporter from <i>Lotus japonicus</i> . <i>Plant Molecular Biology</i> , 2008, 68, 289-299.	3.9	131
20	Wake up! Peptidoglycan lysis and bacterial non-growth states. <i>Trends in Microbiology</i> , 2006, 14, 271-276.	7.7	126
21	Identification of a Novel Gene Cluster Encoding Staphylococcal Exotoxin-Like Proteins: Characterization of the Prototypic Gene and Its Protein Product, SET1. <i>Infection and Immunity</i> , 2000, 68, 4407-4415.	2.2	119
22	Large scale production of cyclohexanone monooxygenase from <i>Escherichia coli</i> TOP10 pQR239. <i>Enzyme and Microbial Technology</i> , 2001, 28, 265-274.	3.2	119
23	Substrate Specificity of the <i>Arabidopsis thaliana</i> Sucrose Transporter AtSUC2. <i>Journal of Biological Chemistry</i> , 2003, 278, 44320-44325.	3.4	108
24	Directed evolution of biocatalytic processes. <i>New Biotechnology</i> , 2005, 22, 11-19.	2.7	107
25	Excessive folate synthesis limits lifespan in the <i>C. elegans</i> : <i>E. coli</i> aging model. <i>BMC Biology</i> , 2012, 10, 67.	3.8	102
26	AtPTR1, a plasma membrane peptide transporter expressed during seed germination and in vascular tissue of <i>Arabidopsis</i> . <i>Plant Journal</i> , 2004, 40, 488-499.	5.7	96
27	Furfurylamines from biomass: transaminase catalysed upgrading of furfurals. <i>Green Chemistry</i> , 2017, 19, 397-404.	9.0	94
28	Sugarcane ShSUT1: analysis of sucrose transport activity and inhibition by sucralose. <i>Plant, Cell and Environment</i> , 2006, 29, 1871-1880.	5.7	85
29	Enzymatic and Chemoenzymatic Three-Step Cascades for the Synthesis of Stereochemically Complementary Trisubstituted Tetrahydroisoquinolines. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 12503-12507.	13.8	85
30	Phosphate mediated biomimetic synthesis of tetrahydroisoquinoline alkaloids. <i>Chemical Communications</i> , 2011, 47, 3242.	4.1	84
31	Phage display in the study of infectious diseases. <i>Trends in Microbiology</i> , 2006, 14, 141-147.	7.7	80
32	A Multidisciplinary Approach Toward the Rapid and Preparative-Scale Biocatalytic Synthesis of Chiral Amino Alcohols: A Concise Transketolase-/Transaminase-Mediated Synthesis of (2 <i>S</i> ,3 <i>S</i> )-2-Aminopentane-1,3-diol. <i>Organic Process Research and Development</i> , 2010, 14, 99-107.	2.7	80
33	Transport Activity of Rice Sucrose Transporters OsSUT1 and OsSUT5. <i>Plant and Cell Physiology</i> , 2010, 51, 114-122.	3.1	80
34	Function of the cytosolic N-terminus of sucrose transporter AtSUT2 in substrate affinity. <i>FEBS Letters</i> , 2000, 485, 189-194.	2.8	78
35	Preparative scale Baeyer-Villiger biooxidation at high concentration using recombinant <i>Escherichia coli</i> and in situ substrate feeding and product removal process. <i>Nature Protocols</i> , 2008, 3, 546-554.	12.0	78
36	Low-Temperature Ionizing Radiation Resistance of <i>Deinococcus radiodurans</i> and Antarctic Dry Valley Bacteria. <i>Astrobiology</i> , 2010, 10, 717-732.	3.0	76

#	ARTICLE	IF	CITATIONS
37	Enzyme catalysed Pictet-Spengler formation of chiral 1,1- <sup>TM</sup> -disubstituted- and spiro-tetrahydroisoquinolines. <i>Nature Communications</i> , 2017, 8, 14883.	12.8	75
38	Directed evolution of transketolase activity on non-phosphorylated substrates. <i>Journal of Biotechnology</i> , 2007, 131, 425-432.	3.8	74
39	Engineering stereoselectivity of ThDP-dependent enzymes. <i>FEBS Journal</i> , 2013, 280, 6374-6394.	4.7	72
40	Isolation of Radiation-Resistant Bacteria from Mars Analog Antarctic Dry Valleys by Preselection, and the Correlation between Radiation and Desiccation Resistance. <i>Astrobiology</i> , 2015, 15, 1076-1090.	3.0	71
41	<i>Actinobacillus actinomycetemcomitans</i> . <i>Journal of Medical Microbiology</i> , 2002, 51, 1013-1020.	1.8	71
42	The Catalytic Potential of <i>Coptis japonica</i> NCS2 Revealed – Development and Utilisation of a Fluorescamine-Based Assay. <i>Advanced Synthesis and Catalysis</i> , 2012, 354, 2997-3008.	4.3	70
43	Plants pass the salt. <i>Trends in Plant Science</i> , 2003, 8, 200-201.	8.8	69
44	Directed evolution of transketolase substrate specificity towards an aliphatic aldehyde. <i>Journal of Biotechnology</i> , 2008, 134, 240-245.	3.8	69
45	Bioprocess Engineering Issues That Would Be Faced in Producing a DNA Vaccine at up to 100 m <sup>3</sup> Fermentation Scale for an Influenza Pandemic. <i>Biotechnology Progress</i> , 2005, 21, 1577-1592.	2.6	66
46	Evolutionary Analysis of the TPP-Dependent Enzyme Family. <i>Journal of Molecular Evolution</i> , 2008, 66, 36-49.	1.8	66
47	Efficient 2-step biocatalytic strategies for the synthesis of all nor(pseudo)ephedrine isomers. <i>Green Chemistry</i> , 2014, 16, 3341-3348.	9.0	66
48	Multispectral Phloem-Mobile Probes: Properties and Applications. <i>Plant Physiology</i> , 2015, 167, 1211-1220.	4.8	66
49	Pictet-Spenglerases in alkaloid biosynthesis: Future applications in biocatalysis. <i>Current Opinion in Chemical Biology</i> , 2020, 55, 69-76.	6.1	66
50	Development of a simple method for the recovery of recombinant proteins from the <i>Escherichia coli</i> periplasm. <i>Enzyme and Microbial Technology</i> , 1996, 19, 332-338.	3.2	64
51	Functional characterization of the $\beta$ -glucoside transporter Sut1p from <i>Schizosaccharomyces pombe</i> , the first fungal homologue of plant sucrose transporters. <i>Molecular Microbiology</i> , 2001, 39, 445-455.	2.5	63
52	Resuscitation-promoting factors possess a lysozyme-like domain. <i>Trends in Biochemical Sciences</i> , 2004, 29, 7-10.	7.5	60
53	The substrate specificity, enantioselectivity and structure of the <i>R</i> -selective amine:pyruvate transaminase from <i>Nectria haematococca</i> . <i>FEBS Journal</i> , 2014, 281, 2240-2253.	4.7	60
54	Transport Function of Rice Amino Acid Permeases (AAPs). <i>Plant and Cell Physiology</i> , 2015, 56, 1355-1363.	3.1	60

#	ARTICLE	IF	CITATIONS
55	â€˜Dopamineâ€™ mechanism enables the rational engineering of the norcoclaurine synthase aldehyde activity profile. <i>FEBS Journal</i> , 2015, 282, 1137-1151.	4.7	60
56	Sucrose Transporter Localization and Function in Phloem Unloading in Developing Stems. <i>Plant Physiology</i> , 2017, 173, 1330-1341.	4.8	60
57	Protein CoAlation and antioxidant function of coenzyme A in prokaryotic cells. <i>Biochemical Journal</i> , 2018, 475, 1909-1937.	3.7	60
58	Analysis of the Transport Activity of Barley Sucrose Transporter HvSUT1. <i>Plant and Cell Physiology</i> , 2005, 46, 1666-1673.	3.1	59
59	Homogeneous antibody fragment conjugation by disulfide bridging introduces â€˜spinosticsâ€™. <i>Scientific Reports</i> , 2013, 3, 1525.	3.3	59
60	CATH FunFHMmer web server: protein functional annotations using functional family assignments. <i>Nucleic Acids Research</i> , 2015, 43, W148-W153.	14.5	59
61	Effects of fermentation strategy on the characteristics of plasmid DNA production. <i>Biotechnology and Applied Biochemistry</i> , 2003, 37, 83.	3.1	57
62	Evolution of Electrogenic Ammonium Transporters (AMTs). <i>Frontiers in Plant Science</i> , 2016, 7, 352.	3.6	57
63	Destruction of Raman biosignatures by ionising radiation and the implications for life detection on Mars. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 403, 131-144.	3.7	56
64	Fluorescence Characterization of Clinically-Important Bacteria. <i>PLoS ONE</i> , 2013, 8, e75270.	2.5	56
65	Molecular relationships between <i>Pseudomonas</i> INC P-9 degradative plasmids TOL, NAH, and SAL. <i>Plasmid</i> , 1983, 10, 164-174.	1.4	54
66	Identification and use of an alkane transporter plug-in for applications in biocatalysis and whole-cell biosensing of alkanes. <i>Scientific Reports</i> , 2014, 4, 5844.	3.3	54
67	Import and processing of heart mitochondrial cyclophilin D. <i>FEBS Journal</i> , 1999, 263, 353-359.	0.2	53
68	A colorimetric assay for screening transketolase activity. <i>Bioorganic and Medicinal Chemistry</i> , 2006, 14, 7062-7065.	3.0	51
69	Enhanced Heterologous Expression of Two <i>Streptomyces griseolus</i> Cytochrome P450s and <i>Streptomyces coelicolor</i> Ferredoxin Reductase as Potentially Efficient Hydroxylation Catalysts. <i>Applied and Environmental Microbiology</i> , 2003, 69, 373-382.	3.1	49
70	Degradation of Cyanobacterial Biosignatures by Ionizing Radiation. <i>Astrobiology</i> , 2011, 11, 997-1016.	3.0	48
71	A novel fluorescent assay for sucrose transporters. <i>Plant Methods</i> , 2012, 8, 13.	4.3	47
72	The identification and use of robust transaminases from a domestic drain metagenome. <i>Green Chemistry</i> , 2019, 21, 75-86.	9.0	47

#	ARTICLE	IF	CITATIONS
73	Mapping of functions in the R-plasmid R388 by examination of deletion mutants generated in vitro. <i>Gene</i> , 1978, 3, 87-95.	2.2	46
74	Host strain influences on supercoiled plasmid DNA production in <i>Escherichia coli</i> : Implications for efficient design of large-scale processes. <i>Biotechnology and Bioengineering</i> , 2008, 101, 529-544.	3.3	45
75	Stereoselectivity of an $\alpha$ -transaminase-mediated amination of 1,3-dihydroxy-1-phenylpropane-2-one. <i>Tetrahedron: Asymmetry</i> , 2009, 20, 570-574.	1.8	45
76	$\alpha$ -Dihydroxyketone formation using aromatic and heteroaromatic aldehydes with evolved transketolase enzymes. <i>Chemical Communications</i> , 2010, 46, 7608.	4.1	45
77	Synthesis of pyridoxamine 5-phosphate using an MBA:pyruvate transaminase as biocatalyst. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2009, 59, 279-285.	1.8	44
78	An integrated biorefinery concept for conversion of sugar beet pulp into value-added chemicals and pharmaceutical intermediates. <i>Faraday Discussions</i> , 2017, 202, 415-431.	3.2	41
79	Enzymatic synthesis of chiral amino alcohols by coupling transketolase and transaminase-catalyzed reactions in a cascading continuous-flow microreactor system. <i>Biotechnology and Bioengineering</i> , 2018, 115, 586-596.	3.3	41
80	Determination of the survival of bacteriophage M13 from chemical and physical challenges to assist in its sustainable bioprocessing. <i>Biotechnology and Bioprocess Engineering</i> , 2013, 18, 560-566.	2.6	40
81	Structural Evidence for the Dopamine-First Mechanism of Norcoclaurine Synthase. <i>Biochemistry</i> , 2017, 56, 5274-5277.	2.5	40
82	Mechanism of resonant electron emission from the deprotonated GFP chromophore and its biomimetics. <i>Chemical Science</i> , 2017, 8, 3154-3163.	7.4	38
83	Analysis of the effect of changing environmental conditions on the expression patterns of exported surface-associated proteins of the oral pathogen <i>Actinobacillus actinomycetemcomitans</i> . <i>Microbial Pathogenesis</i> , 2001, 30, 359-368.	2.9	37
84	Synthesis of pharmaceutically relevant 17- $\alpha$ -amino steroids using an $\alpha$ -transaminase. <i>Chemical Communications</i> , 2014, 50, 6098-6100.	4.1	36
85	Multi-step biocatalytic strategies for chiral amino alcohol synthesis. <i>Enzyme and Microbial Technology</i> , 2015, 81, 23-30.	3.2	36
86	One-pot chemoenzymatic synthesis of troliline and tetrahydroisoquinoline analogues. <i>Chemical Communications</i> , 2018, 54, 1323-1326.	4.1	36
87	Impact of intrinsic DNA structure on processing of plasmids for gene therapy and DNA vaccines. <i>Journal of Biotechnology</i> , 2004, 114, 239-254.	3.8	35
88	Characterization of Oxygen Transfer in Miniature and Lab-Scale Bubble Column Bioreactors and Comparison of Microbial Growth Performance Based on Constant kLa. <i>Biotechnology Progress</i> , 2008, 21, 1175-1182.	2.6	35
89	Transketolase catalysed upgrading of <i>D</i> -arabinose: the one-step stereoselective synthesis of <i>D</i> -gluco-heptulose. <i>Green Chemistry</i> , 2016, 18, 3158-3165.	9.0	35
90	A metagenomics approach for new biocatalyst discovery: application to transaminases and the synthesis of allylic amines. <i>Green Chemistry</i> , 2017, 19, 1134-1143.	9.0	34

#	ARTICLE	IF	CITATIONS
91	Design and Use of de novo Cascades for the Biosynthesis of New Benzylisoquinoline Alkaloids. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 10120-10125.	13.8	34
92	The Molecular Dialog between Flowering Plant Reproductive Partners Defined by SNP-Informed RNA-Sequencing. <i>Plant Cell</i> , 2017, 29, 984-1006.	6.6	32
93	Improved production and stability of <i>E. coli</i> recombinants expressing transketolase for large scale biotransformation. <i>Biotechnology Letters</i> , 1995, 17, 247-252.	2.2	30
94	Crystal structure and substrate specificity of the thermophilic serine:pyruvate aminotransferase from <i>Sulfolobus solfataricus</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2012, 68, 763-772.	2.5	30
95	Acceptance and Kinetic Resolution of $\alpha$ -Methyl-Substituted Aldehydes by Norcochlorine Synthases. <i>ACS Catalysis</i> , 2019, 9, 9640-9649.	11.2	30
96	TTC-based screening assay for $\alpha$ -transaminases: A rapid method to detect reduction of 2-hydroxy ketones. <i>Journal of Biotechnology</i> , 2012, 159, 188-194.	3.8	29
97	Complete fluorescent fingerprints of extremophilic and photosynthetic microbes. <i>International Journal of Astrobiology</i> , 2010, 9, 245-257.	1.6	28
98	Detection of Pathogenic Bacteria Using a Homogeneous Immunoassay Based on Shear Alignment of Virus Particles and Linear Dichroism. <i>Analytical Chemistry</i> , 2012, 84, 91-97.	6.5	28
99	Experimental determination of photostability and fluorescence-based detection of PAHs on the Martian surface. <i>Meteoritics and Planetary Science</i> , 2012, 47, 806-819.	1.6	28
100	Precipitation of filamentous bacteriophages for their selective recovery in primary purification. <i>Biotechnology Progress</i> , 2012, 28, 129-136.	2.6	28
101	Pasteurellaceae ComE1 Proteins Combine the Properties of Fibronectin Adhesins and DNA Binding Competence Proteins. <i>PLoS ONE</i> , 2008, 3, e3991.	2.5	28
102	Directed evolution to re-adapt a co-evolved network within an enzyme. <i>Journal of Biotechnology</i> , 2012, 157, 237-245.	3.8	27
103	Virus lasers for biological detection. <i>Nature Communications</i> , 2019, 10, 3594.	12.8	27
104	Identification of Amino Acids Important for Substrate Specificity in Sucrose Transporters Using Gene Shuffling. <i>Journal of Biological Chemistry</i> , 2012, 287, 30296-30304.	3.4	24
105	Tetrahydroisoquinolines affect the whole-cell phenotype of <i>Mycobacterium tuberculosis</i> by inhibiting the ATP-dependent MurE ligase. <i>Journal of Antimicrobial Chemotherapy</i> , 2015, 70, 1691-1703.	3.0	24
106	A Palette of Minimally Tagged Sucrose Analogues for Real-time Raman Imaging of Intracellular Plant Metabolism. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 7637-7642.	13.8	24
107	Understanding transport processes in lichen, Azolla-cyanobacteria, ectomycorrhiza, endomycorrhiza, and rhizobia-legume symbiotic interactions. <i>F1000Research</i> , 2020, 9, 39.	1.6	24
108	Novel Computational Protocols for Functionally Classifying and Characterising Serine Beta-Lactamases. <i>PLoS Computational Biology</i> , 2016, 12, e1004926.	3.2	24

#	ARTICLE	IF	CITATIONS
109	Single active-site mutants are sufficient to enhance serine:pyruvate $\alpha$ -transaminase activity in an $\alpha$ -transaminase. FEBS Journal, 2015, 282, 2512-2526.	4.7	23
110	Aminopolyols from Carbohydrates: Amination of Sugars and Sugar-Derived Tetrahydrofurans with Transaminases. Angewandte Chemie - International Edition, 2019, 58, 3854-3858.	13.8	23
111	Multienzyme One-Pot Cascades Incorporating Methyltransferases for the Strategic Diversification of Tetrahydroisoquinoline Alkaloids. Angewandte Chemie - International Edition, 2021, 60, 18673-18679.	13.8	23
112	Loading acetoxymethyl ester fluorescent dyes into the cytoplasm of Arabidopsis and Commelina guard cells. New Phytologist, 2002, 153, 527-533.	7.3	22
113	How Streptomyces lividans uses oils and sugars as mixed substrates. Enzyme and Microbial Technology, 2003, 32, 157-166.	3.2	22
114	One-pot, two-step transaminase and transketolase synthesis of l-gluco-heptulose from l-arabinose. Enzyme and Microbial Technology, 2018, 116, 16-22.	3.2	22
115	Novel Adhesin from Pasteurella multocida That Binds to the Integrin-Binding Fibronectin FnIII 9-10 Repeats. Infection and Immunity, 2008, 76, 1093-1104.	2.2	21
116	A novel method for the measurement of oxygen mass transfer rates in small-scale vessels. Biochemical Engineering Journal, 2005, 25, 63-68.	3.6	20
117	Isolation of bacterial extrachromosomal DNA from human dental plaque associated with periodontal disease, using transposon-aided capture (TRACA). FEMS Microbiology Ecology, 2011, 78, 349-354.	2.7	20
118	Study of robustness of filamentous bacteriophages for industrial applications. Biotechnology and Bioengineering, 2011, 108, 1468-1472.	3.3	19
119	Selective removal of human DNA from metagenomic DNA samples extracted from dental plaque. Journal of Basic Microbiology, 2011, 51, 442-446.	3.3	18
120	Microscale methods to rapidly evaluate bioprocess options for increasing bioconversion yields: application to the $\alpha$ -transaminase synthesis of chiral amines. Bioprocess and Biosystems Engineering, 2014, 37, 931-941.	3.4	18
121	Production of mature bovine pancreatic ribonuclease in Escherichia coli. Gene, 1992, 118, 239-245.	2.2	17
122	Large-scale plasmid DNA processing: evidence that cell harvesting and storage methods affect yield of supercoiled plasmid DNA. Biotechnology and Applied Biochemistry, 2008, 51, 43-51.	3.1	17
123	Library of Norcochlorine Synthases and Their Immobilization for Biocatalytic Transformations. Biotechnology Journal, 2018, 13, e1700542.	3.5	17
124	Phosphocellulose as a tool for rapid purification of DNA-modifying enzymes. Analytica Chimica Acta, 1991, 249, 195-200.	5.4	16
125	Impact of plasmid size on cellular oxygen demand in Escherichia coli. Biotechnology and Applied Biochemistry, 2003, 38, 1.	3.1	16
126	Growth and productivity impacts of periplasmic nuclease expression in an <i>Escherichia coli</i> Fab' fragment production strain. Biotechnology and Bioengineering, 2012, 109, 517-527.	3.3	16



#	ARTICLE	IF	CITATIONS
127	A 1-step microplate method for assessing the substrate range of L-lysine aminotransferase. <i>Enzyme and Microbial Technology</i> , 2013, 52, 218-225.	3.2	16
128	Metagenome Mining: A Sequence Directed Strategy for the Retrieval of Enzymes for Biocatalysis. <i>ChemistrySelect</i> , 2016, 1, 2217-2220.	1.5	16
129	Engineering transketolase to accept both unnatural donor and acceptor substrates and produce L-lysine hydroxyketones. <i>FEBS Journal</i> , 2020, 287, 1758-1776.	4.7	16
130	Stability of plasmid vector pIJ303 in <i>Streptomyces lividans</i> TK24 during laboratory-scale fermentations. <i>Biotechnology and Bioengineering</i> , 1993, 41, 148-155.	3.3	15
131	Astrobiological Considerations for the Selection of the Geological Filters on the ExoMars PanCam Instrument. <i>Astrobiology</i> , 2010, 10, 933-951.	3.0	15
132	Probing binding specificity of the sucrose transporter AtSUC2 with fluorescent coumarin glucosides. <i>Journal of Experimental Botany</i> , 2018, 69, 2473-2482.	4.8	15
133	Comparative functional genomic analysis of Pasteurellaceae adhesins using phage display. <i>Veterinary Microbiology</i> , 2007, 122, 123-134.	1.9	14
134	The RpfC (Rv1884) atomic structure shows high structural conservation within the resuscitation-promoting factor catalytic domain. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2014, 70, 1022-1026.	0.8	14
135	Long-term stabilization of reflective foams in sea water. <i>RSC Advances</i> , 2014, 4, 53028-53036.	3.6	14
136	Simplified lipid II-binding antimicrobial peptides: Design, synthesis and antimicrobial activity of bioconjugates of nisin rings A and B with pore-forming peptides. <i>Bioorganic and Medicinal Chemistry</i> , 2018, 26, 5691-5700.	3.0	14
137	Sequence of the <i>Streptomyces thermoviolaceus</i> CUB74 L-lysine aminase-encoding gene and its transcription analysis in <i>Streptomyces lividans</i> . <i>Gene</i> , 1993, 127, 133-137.	2.2	13
138	Biomimetic Phosphate-Catalyzed Pictet-Spengler Reaction for the Synthesis of 1,1-Di- <i>tert</i> -butyl-2-Disubstituted and Spiro-Tetrahydroisoquinoline Alkaloids. <i>Journal of Organic Chemistry</i> , 2019, 84, 7702-7710.	3.2	13
139	Metagenomic ene-reductases for the bioreduction of sterically challenging enones. <i>RSC Advances</i> , 2019, 9, 36608-36614.	3.6	13
140	Expression and characterisation of the korB gene product from the <i>Streptomyces lividans</i> plasmid pIJ101 in <i>Escherichia coli</i> and determination of its binding site on the korB and korB promoters. <i>Nucleic Acids Research</i> , 1992, 20, 3693-3700.	14.5	12
141	Arg188 in rice sucrose transporter OsSUT1 is crucial for substrate transport. <i>BMC Biochemistry</i> , 2012, 13, 26.	4.4	12
142	Arabidopsis Sucrose Transporter AtSUC1 introns act as strong enhancers of expression. <i>Plant and Cell Physiology</i> , 2020, 61, 1054-1063.	3.1	11
143	Directed evolution of a thermostable L-lysine acylase biocatalyst. <i>Journal of Biotechnology</i> , 2011, 155, 396-405.	3.8	10
144	Investigating polymorphisms in membrane-associated transporter protein SLC45A2, using sucrose transporters as a model. <i>Molecular Medicine Reports</i> , 2015, 12, 1393-1398.	2.4	10

#	ARTICLE	IF	CITATIONS
145	A cell engineering strategy to enhance supercoiled plasmid DNA production for gene therapy. <i>Biotechnology and Bioengineering</i> , 2016, 113, 2064-2071.	3.3	10
146	MpAMT1;2 from <i>Marchantia polymorpha</i> is a High-Affinity, Plasma Membrane Ammonium Transporter. <i>Plant and Cell Physiology</i> , 2018, 59, 997-1005.	3.1	10
147	Single step syntheses of (1S)-aryl-tetrahydroisoquinolines by norcochlorine synthases. <i>Communications Chemistry</i> , 2020, 3, .	4.5	10
148	Liquid-microjet photoelectron spectroscopy of the green fluorescent protein chromophore. <i>Nature Communications</i> , 2022, 13, 507.	12.8	10
149	An automated microscale platform for evaluation and optimization of oxidative bioconversion processes. <i>Biotechnology Progress</i> , 2012, 28, 392-405.	2.6	9
150	Micromolar colorimetric detection of 2-hydroxy ketones with the water-soluble tetrazolium WST-1. <i>Analytical Biochemistry</i> , 2016, 493, 8-10.	2.4	9
151	Identification and catalytic properties of new epoxide hydrolases from the genomic data of soil bacteria. <i>Enzyme and Microbial Technology</i> , 2020, 139, 109592.	3.2	9
152	Novel transaminases from thermophiles: from discovery to application. <i>Microbial Biotechnology</i> , 2022, 15, 305-317.	4.2	9
153	Ferredoxin reductase enhances heterologously expressed cytochrome CYP105D1 in <i>Escherichia coli</i> and <i>Streptomyces lividans</i> . <i>Enzyme and Microbial Technology</i> , 2003, 32, 790-800.	3.2	8
154	Characterisation of a hyperthermophilic transketolase from <i>Thermotoga maritima</i> DSM3109 as a biocatalyst for 7-keto-octuronic acid synthesis. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 6493-6500.	2.8	8
155	A Palette of Minimally Tagged Sucrose Analogues for Real-time Raman Imaging of Intracellular Plant Metabolism. <i>Angewandte Chemie</i> , 2021, 133, 7715-7720.	2.0	8
156	Rational engineering of the TOLmeta-cleavage pathway. , 1998, 58, 240-249.		7
157	Desiccation resistance of Antarctic Dry Valley bacteria isolated from contrasting locations. <i>Antarctic Science</i> , 2010, 22, 171-172.	0.9	7
158	Application of Plasmid Engineering to Enhance Yield and Quality of Plasmid for Vaccine and Gene Therapy. <i>Bioengineering</i> , 2019, 6, 54.	3.5	7
159	Novel extremophilic proteases from <i>Pseudomonas aeruginosa</i> M211 and their application in the hydrolysis of dried distiller's grain with solubles. <i>Biotechnology Progress</i> , 2019, 35, e2728.	2.6	7
160	Multienzyme One-pot Cascades Incorporating Methyltransferases for the Strategic Diversification of Tetrahydroisoquinoline Alkaloids. <i>Angewandte Chemie</i> , 2021, 133, 18821-18827.	2.0	7
161	Identification of the Minimal Replicon of the Streptomycete Plasmid pIJ101. <i>Plasmid</i> , 1993, 29, 57-62.	1.4	6
162	Production and Modification of <i>E. coli</i> Transketolase for Large-Scale Biocatalysis. <i>Annals of the New York Academy of Sciences</i> , 1996, 799, 11-18.	3.8	6

#	ARTICLE	IF	CITATIONS
163	31 Cyclophilin-D binding proteins. <i>Biochemical Society Transactions</i> , 1998, 26, S330-S330.	3.4	6
164	Optimisation of enzyme cascades for chiral amino alcohol synthesis in aid of host cell integration using a statistical experimental design approach. <i>Journal of Biotechnology</i> , 2018, 281, 150-160.	3.8	6
165	Design and Use of de novo Cascades for the Biosynthesis of New Benzylisoquinoline Alkaloids. <i>Angewandte Chemie</i> , 2019, 131, 10226-10231.	2.0	6
166	pET expression vector customized for efficient seamless cloning. <i>BioTechniques</i> , 2020, 69, 384-387.	1.8	6
167	A method for plasmid copy number determination in recombinant <i>Streptomyces</i> . <i>Journal of Microbiological Methods</i> , 1992, 16, 69-80.	1.6	5
168	Investigating the use of column inserts to achieve better chromatographic bed support. <i>Biotechnology Progress</i> , 2012, 28, 1285-1291.	2.6	5
169	Improving Fab <sup>™</sup> fragment retention in an autonucleolytic <i>Escherichia coli</i> strain by swapping periplasmic nuclease translocation signal from <i>OmpA</i> to <i>DsbA</i> . <i>Biotechnology Letters</i> , 2017, 39, 1865-1873.	2.2	5
170	One-pot Phosphate-Mediated Synthesis of Novel 1,3,5-Trisubstituted Pyridinium Salts: A New Family of <i>S. aureus</i> Inhibitors. <i>Molecules</i> , 2017, 22, 626.	3.8	5
171	The use of a surface active agent in the protection of a fusion protein during bioprocessing. <i>Biotechnology and Bioengineering</i> , 2018, 115, 2760-2770.	3.3	5
172	The role of amino acids in the amplification and quality of DNA vectors for industrial applications. <i>Biotechnology Progress</i> , 2019, 35, e2883.	2.6	5
173	Potential of sugar beet vinasse as a feedstock for biocatalyst production within an integrated biorefinery context. <i>Journal of Chemical Technology and Biotechnology</i> , 2019, 94, 739-751.	3.2	5
174	Contribution of sucrose transporters to phloem unloading within <i>Sorghum bicolor</i> stem internodes. <i>Plant Signaling and Behavior</i> , 2017, 12, e1319030.	2.4	4
175	The Analysis of Multiple Genome Comparisons in Genus <i>Escherichia</i> and Its Application to the Discovery of Uncharacterised Metabolic Genes in Uropathogenic <i>Escherichia coli</i> CFT073. <i>Comparative and Functional Genomics</i> , 2009, 2009, 1-8.	2.0	3
176	Evaluation of anthrax vaccine production by <i>Bacillus anthracis</i> Sterne 34F2 in stirred suspension culture using a miniature bioreactor: A useful scale-down tool for studies on fermentations at high containment. <i>Biochemical Engineering Journal</i> , 2010, 50, 139-144.	3.6	3
177	<i>Phaseolus vulgaris</i> SUT1.1 is a high affinity sucrose-proton co-transporter. <i>Plant Direct</i> , 2020, 4, e00260.	1.9	3
178	A photoelectron imaging study of the deprotonated GFP chromophore anion and RNA fluorescent tags. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 19911-19922.	2.8	3
179	Direct Conversion of Hydrazones to Amines using Transaminases. <i>ChemCatChem</i> , 2021, 13, 4520-4523.	3.7	3
180	A capillary cytometer method to quantitate viable virus particles based on early detection of viral antigens and cellular events within single cells. <i>Journal of Virological Methods</i> , 2006, 137, 213-218.	2.1	2

#	ARTICLE	IF	CITATIONS
181	A cell engineering approach to enzyme-based fed-batch fermentation. <i>Microbial Cell Factories</i> , 2021, 20, 146.	4.0	2
182	Shear-induced release of disabled herpes simplex virus from baby-hamster kidney cells. <i>Biotechnology and Applied Biochemistry</i> , 2003, 38, 271.	3.1	1
183	Data on a thermostable enzymatic one-pot reaction for the production of a high-value compound from l-arabinose. <i>Data in Brief</i> , 2018, 19, 1341-1354.	1.0	1
184	Posttranslational regulation of transporters important for symbiotic interactions. <i>Plant Physiology</i> , 2022, 188, 941-954.	4.8	1
185	Voltage- and Ca <sup>2+</sup> -dependent SV/TPC1 ion channel structure at the onset of opening. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2200610119.	7.1	1
186	30 Mitochondrial import of cyclophilin-D. <i>Biochemical Society Transactions</i> , 1998, 26, S329-S329.	3.4	0
187	Amino Acid Positions Important For Substrate Specificity in Plant Sucrose Transporters. <i>FASEB Journal</i> , 2015, 29, 566.13.	0.5	0