

# John M Ward

## List of Publications by Year in descending order

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188  
papers

7,759  
citations

38720

50  
h-index

69214

77  
g-index

195  
all docs

195  
docs citations

195  
times ranked

6979  
citing authors

#	ARTICLE	IF	CITATIONS
1	Novel transaminases from thermophiles: from discovery to application. <i>Microbial Biotechnology</i> , 2022, 15, 305-317.	2.0	9
2	Liquid-microjet photoelectron spectroscopy of the green fluorescent protein chromophore. <i>Nature Communications</i> , 2022, 13, 507.	5.8	10
3	Synergistic action of thermophilic pectinases for pectin bioconversion into D-galacturonic acid. <i>Enzyme and Microbial Technology</i> , 2022, , 110071.	1.6	5
4	Norcochlorine Synthase-Mediated Stereoselective Synthesis of 1,1-Disubstituted, Spiro- and Bis-Tetrahydroisoquinoline Alkaloids. <i>ACS Catalysis</i> , 2021, 11, 131-138.	5.5	14
5	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.	1.5	8
6	A photoelectron imaging study of the deprotonated GFP chromophore anion and RNA fluorescent tags. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 19911-19922.	1.3	3
7	Discovery of New Carbonyl Reductases Using Functional Metagenomics and Applications in Biocatalysis. <i>Advanced Synthesis and Catalysis</i> , 2021, 363, 3044-3052.	2.1	2
8	A cell engineering approach to enzyme-based fed-batch fermentation. <i>Microbial Cell Factories</i> , 2021, 20, 146.	1.9	2
9	Multienzyme One-Pot Cascades Incorporating Methyltransferases for the Strategic Diversification of Tetrahydroisoquinoline Alkaloids. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 18673-18679.	7.2	23
10	Multienzyme One-Pot Cascades Incorporating Methyltransferases for the Strategic Diversification of Tetrahydroisoquinoline Alkaloids. <i>Angewandte Chemie</i> , 2021, 133, 18821-18827.	1.6	7
11	Chemoenzymatic Cascades toward Methylated Tetrahydroprotoberberine and Protoberberine Alkaloids. <i>Organic Letters</i> , 2021, 23, 6342-6347.	2.4	15
12	Sustainable sugarcane vinasse biorefinement for trans-aconitic acid-based biopolymer synthesis and bioenergy generation. <i>Bioresource Technology Reports</i> , 2021, 15, 100786.	1.5	5
13	Direct Conversion of Hydrazones to Amines using Transaminases. <i>ChemCatChem</i> , 2021, 13, 4520-4523.	1.8	3
14	Engineering transketolase to accept both unnatural donor and acceptor substrates and produce 1,2-dihydroxyketones. <i>FEBS Journal</i> , 2020, 287, 1758-1776.	2.2	16
15	Single step syntheses of (1S)-aryl-tetrahydroisoquinolines by norcochlorine synthases. <i>Communications Chemistry</i> , 2020, 3, .	2.0	10
16	pET expression vector customized for efficient seamless cloning. <i>BioTechniques</i> , 2020, 69, 384-387.	0.8	6
17	Identification and catalytic properties of new epoxide hydrolases from the genomic data of soil bacteria. <i>Enzyme and Microbial Technology</i> , 2020, 139, 109592.	1.6	9
18	Nature-Inspired Bacterial Cellulose/Methylglyoxal (BC/MGO) Nanocomposite for Broad-Spectrum Antimicrobial Wound Dressing. <i>Macromolecular Bioscience</i> , 2020, 20, e2000070.	2.1	24

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19	Characterisation of four hotdog-fold thioesterases for their implementation in a novel organic acid production system. <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 4397-4406.	1.7	4
20	Pictetâ€“Spenglerases in alkaloid biosynthesis: Future applications in biocatalysis. <i>Current Opinion in Chemical Biology</i> , 2020, 55, 69-76.	2.8	66
21	Virus lasers for biological detection. <i>Nature Communications</i> , 2019, 10, 3594.	5.8	27
22	The role of amino acids in the amplification and quality of DNA vectors for industrial applications. <i>Biotechnology Progress</i> , 2019, 35, e2883.	1.3	5
23	Application of Plasmid Engineering to Enhance Yield and Quality of Plasmid for Vaccine and Gene Therapy. <i>Bioengineering</i> , 2019, 6, 54.	1.6	7
24	Acceptance and Kinetic Resolution of Î±-Methyl-Substituted Aldehydes by Norcoclaurine Synthases. <i>ACS Catalysis</i> , 2019, 9, 9640-9649.	5.5	30
25	The identification and use of robust transaminases from a domestic drain metagenome. <i>Green Chemistry</i> , 2019, 21, 75-86.	4.6	47
26	Aminopolyols from Carbohydrates: Amination of Sugars and Sugarâ€“Derived Tetrahydrofurans with Transaminases. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 3854-3858.	7.2	23
27	Aminopolyols from Carbohydrates: Amination of Sugars and Sugarâ€“Derived Tetrahydrofurans with Transaminases. <i>Angewandte Chemie</i> , 2019, 131, 3894-3898.	1.6	2
28	Design and Use of de novo Cascades for the Biosynthesis of New Benzyloquinoline Alkaloids. <i>Angewandte Chemie</i> , 2019, 131, 10226-10231.	1.6	6
29	Biomimetic Phosphate-Catalyzed Pictetâ€“Spengler Reaction for the Synthesis of 1,1â€“Disubstituted and Spiro-Tetrahydroisoquinoline Alkaloids. <i>Journal of Organic Chemistry</i> , 2019, 84, 7702-7710.	1.7	13
30	Design and Use of de novo Cascades for the Biosynthesis of New Benzyloquinoline Alkaloids. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 10120-10125.	7.2	34
31	Metagenomic ene-reductases for the bioreduction of sterically challenging enones. <i>RSC Advances</i> , 2019, 9, 36608-36614.	1.7	13
32	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.	1.6	5
33	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.	1.3	7
34	Protein CoAlation and antioxidant function of coenzyme A in prokaryotic cells. <i>Biochemical Journal</i> , 2018, 475, 1909-1937.	1.7	60
35	One-pot chemoenzymatic synthesis of troliline and tetrahydroisoquinoline analogues. <i>Chemical Communications</i> , 2018, 54, 1323-1326.	2.2	36
36	Enzymatic synthesis of chiral aminoâ€“alcohols by coupling transketolase and transaminaseâ€“catalyzed reactions in a cascading continuousâ€“flow microreactor system. <i>Biotechnology and Bioengineering</i> , 2018, 115, 586-596.	1.7	41

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37	Library of Norcochlorine Synthases and Their Immobilization for Biocatalytic Transformations. <i>Biotechnology Journal</i> , 2018, 13, e1700542.	1.8	17
38	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.	1.4	14
39	One-pot, two-step transaminase and transketolase synthesis of l-gluco-heptulose from l-arabinose. <i>Enzyme and Microbial Technology</i> , 2018, 116, 16-22.	1.6	22
40	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.	1.9	6
41	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.	1.7	5
42	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.	0.5	1
43	A metagenomics approach for new biocatalyst discovery: application to transaminases and the synthesis of allylic amines. <i>Green Chemistry</i> , 2017, 19, 1134-1143.	4.6	34
44	Mechanism of resonant electron emission from the deprotonated GFP chromophore and its biomimetics. <i>Chemical Science</i> , 2017, 8, 3154-3163.	3.7	38
45	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.	1.6	41
46	Enzyme catalysed Pictet-Spengler formation of chiral 1,1 <sup>TM</sup> -disubstituted- and spiro-tetrahydroisoquinolines. <i>Nature Communications</i> , 2017, 8, 14883.	5.8	75
47	Structural Evidence for the Dopamine-First Mechanism of Norcochlorine Synthase. <i>Biochemistry</i> , 2017, 56, 5274-5277.	1.2	40
48	Improving Fab <sup>TM</sup> fragment retention in an autonucleolytic Escherichia coli strain by swapping periplasmic nuclease translocation signal from OmpA to DsbA. <i>Biotechnology Letters</i> , 2017, 39, 1865-1873.	1.1	5
49	Enzymatic and Chemoenzymatic Three <sup>TM</sup> Step Cascades for the Synthesis of Stereochemically Complementary Trisubstituted Tetrahydroisoquinolines. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 12503-12507.	7.2	85
50	Enzymatic and Chemoenzymatic Three <sup>TM</sup> Step Cascades for the Synthesis of Stereochemically Complementary Trisubstituted Tetrahydroisoquinolines. <i>Angewandte Chemie</i> , 2017, 129, 12677-12681.	1.6	21
51	Furfurylamines from biomass: transaminase catalysed upgrading of furfurals. <i>Green Chemistry</i> , 2017, 19, 397-404.	4.6	94
52	One <sup>TM</sup> Pot Phosphate-Mediated Synthesis of Novel 1,3,5-Trisubstituted Pyridinium Salts: A New Family of S. aureus Inhibitors. <i>Molecules</i> , 2017, 22, 626.	1.7	5
53	A cell engineering strategy to enhance supercoiled plasmid DNA production for gene therapy. <i>Biotechnology and Bioengineering</i> , 2016, 113, 2064-2071.	1.7	10
54	Metagenome Mining: A Sequence Directed Strategy for the Retrieval of Enzymes for Biocatalysis. <i>ChemistrySelect</i> , 2016, 1, 2217-2220.	0.7	16

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55	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.	4.6	35
56	Micromolar colorimetric detection of 2-hydroxy ketones with the water-soluble tetrazolium WST-1. <i>Analytical Biochemistry</i> , 2016, 493, 8-10.	1.1	9
57	Novel Computational Protocols for Functionally Classifying and Characterising Serine Beta-Lactamases. <i>PLoS Computational Biology</i> , 2016, 12, e1004926.	1.5	24
58	CATH FunFHMMer web server: protein functional annotations using functional family assignments. <i>Nucleic Acids Research</i> , 2015, 43, W148-W153.	6.5	59
59	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.	1.5	71
60	One-pot triangular chemoenzymatic cascades for the syntheses of chiral alkaloids from dopamine. <i>Green Chemistry</i> , 2015, 17, 852-855.	4.6	70
61	$\alpha$ -Transaminases for the amination of functionalised cyclic ketones. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 8843-8851.	1.5	30
62	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.	1.3	24
63	Single active-site mutants are sufficient to enhance serine:pyruvate $\alpha$ -transaminase activity in an $\alpha$ -transaminase. <i>FEBS Journal</i> , 2015, 282, 2512-2526.	2.2	23
64	Dopamine-first mechanism enables the rational engineering of the norcoclaurine synthase aldehyde activity profile. <i>FEBS Journal</i> , 2015, 282, 1137-1151.	2.2	60
65	Multi-step biocatalytic strategies for chiral amino alcohol synthesis. <i>Enzyme and Microbial Technology</i> , 2015, 81, 23-30.	1.6	36
66	Modelling and optimisation of the one-pot, multi-enzymatic synthesis of chiral amino-alcohols based on microscale kinetic parameter determination. <i>Chemical Engineering Science</i> , 2015, 122, 360-372.	1.9	37
67	Evaluation of CV2025 $\alpha$ -transaminase for the bioconversion of lignin breakdown products into value-added chemicals: synthesis of vanillylamine from vanillin. <i>Biocatalysis and Biotransformation</i> , 2014, 32, 302-313.	1.1	16
68	An Origin-of-Life Reactor to Simulate Alkaline Hydrothermal Vents. <i>Journal of Molecular Evolution</i> , 2014, 79, 213-227.	0.8	152
69	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.	0.4	14
70	The substrate specificity, enantioselectivity and structure of the <i>D</i> -selective amine:pyruvate transaminase from <i>Nectria haematococca</i> . <i>FEBS Journal</i> , 2014, 281, 2240-2253.	2.2	60
71	Long-term stabilization of reflective foams in sea water. <i>RSC Advances</i> , 2014, 4, 53028-53036.	1.7	14
72	Synthesis of pharmaceutically relevant 17- $\alpha$ -amino steroids using an $\alpha$ -transaminase. <i>Chemical Communications</i> , 2014, 50, 6098-6100.	2.2	36

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73	Efficient 2-step biocatalytic strategies for the synthesis of all nor(pseudo)ephedrine isomers. <i>Green Chemistry</i> , 2014, 16, 3341-3348.	4.6	66
74	Microscale methods to rapidly evaluate bioprocess options for increasing bioconversion yields: application to the $\alpha$ -transaminase synthesis of chiral amines. <i>Bioprocess and Biosystems Engineering</i> , 2014, 37, 931-941.	1.7	18
75	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.	1.6	54
76	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.	7.2	157
77	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.	1.4	40
78	Non-linear kinetic modelling of reversible bioconversions: Application to the transaminase catalyzed synthesis of chiral amino-alcohols. <i>Biochemical Engineering Journal</i> , 2013, 73, 38-48.	1.8	20
79	A 1-step microplate method for assessing the substrate range of L- $\alpha$ -amino acid aminotransferase. <i>Enzyme and Microbial Technology</i> , 2013, 52, 218-225.	1.6	16
80	Homogeneous antibody fragment conjugation by disulfide bridging introduces $\alpha$ -spinostics <sup>TM</sup> . <i>Scientific Reports</i> , 2013, 3, 1525.	1.6	59
81	Engineering stereoselectivity of ThDP-dependent enzymes. <i>FEBS Journal</i> , 2013, 280, 6374-6394.	2.2	72
82	Fluorescence Characterization of Clinically-Important Bacteria. <i>PLoS ONE</i> , 2013, 8, e75270.	1.1	56
83	The Catalytic Potential of <i>Coptis japonica</i> NCS2 Revealed $\alpha$ Development and Utilisation of a Fluorescamine-Based Assay. <i>Advanced Synthesis and Catalysis</i> , 2012, 354, 2997-3008.	2.1	70
84	Directed evolution to re-adapt a co-evolved network within an enzyme. <i>Journal of Biotechnology</i> , 2012, 157, 237-245.	1.9	27
85	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.	1.9	29
86	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.	3.2	28
87	Excessive folate synthesis limits lifespan in the <i>C. elegans</i> : <i>E. coli</i> aging model. <i>BMC Biology</i> , 2012, 10, 67.	1.7	102
88	An automated microscale platform for evaluation and optimization of oxidative bioconversion processes. <i>Biotechnology Progress</i> , 2012, 28, 392-405.	1.3	9
89	Investigating the use of column inserts to achieve better chromatographic bed support. <i>Biotechnology Progress</i> , 2012, 28, 1285-1291.	1.3	5
90	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.	1.9	56

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91	Experimental determination of photostability and fluorescence-based detection of PAHs on the Martian surface. <i>Meteoritics and Planetary Science</i> , 2012, 47, 806-819.	0.7	28
92	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
93	Precipitation of filamentous bacteriophages for their selective recovery in primary purification. <i>Biotechnology Progress</i> , 2012, 28, 129-136.	1.3	28
94	Growth and productivity impacts of periplasmic nuclease expression in an <i>Escherichia coli</i> Fab' fragment production strain. <i>Biotechnology and Bioengineering</i> , 2012, 109, 517-527.	1.7	16
95	Phosphate mediated biomimetic synthesis of tetrahydroisoquinoline alkaloids. <i>Chemical Communications</i> , 2011, 47, 3242.	2.2	84
96	Degradation of Cyanobacterial Biosignatures by Ionizing Radiation. <i>Astrobiology</i> , 2011, 11, 997-1016.	1.5	48
97	Directed evolution of a thermostable l-aminoacylase biocatalyst. <i>Journal of Biotechnology</i> , 2011, 155, 396-405.	1.9	10
98	Use of microwells to investigate the effect of quorum sensing on growth and antigen production in <i>Bacillus anthracis</i> Sterne 34F2. <i>Journal of Applied Microbiology</i> , 2011, 111, 1224-1234.	1.4	2
99	Isolation of bacterial extrachromosomal DNA from human dental plaque associated with periodontal disease, using transposon-aided capture (TRACA). <i>FEMS Microbiology Ecology</i> , 2011, 78, 349-354.	1.3	20
100	Selective removal of human DNA from metagenomic DNA samples extracted from dental plaque. <i>Journal of Basic Microbiology</i> , 2011, 51, 442-446.	1.8	18
101	Study of robustness of filamentous bacteriophages for industrial applications. <i>Biotechnology and Bioengineering</i> , 2011, 108, 1468-1472.	1.7	19
102	A toolbox approach for the rapid evaluation of multi-step enzymatic syntheses comprising a mix and match <i>E. coli</i> expression system with microscale experimentation. <i>Biocatalysis and Biotransformation</i> , 2011, 29, 192-203.	1.1	18
103	High-Yield Biocatalytic Amination Reactions in Organic Synthesis. <i>Current Organic Chemistry</i> , 2010, 14, 1914-1927.	0.9	139
104	Desiccation resistance of Antarctic Dry Valley bacteria isolated from contrasting locations. <i>Antarctic Science</i> , 2010, 22, 171-172.	0.5	7
105	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.	1.8	3
106	<i>Aggregatibacter</i> ( <i>Actinobacillus</i> ) <i>actinomycetemcomitans</i> : a triple A* periodontopathogen?. <i>Periodontology 2000</i> , 2010, 54, 78-105.	6.3	184
107	Astrobiological Considerations for the Selection of the Geological Filters on the ExoMars PanCam Instrument. <i>Astrobiology</i> , 2010, 10, 933-951.	1.5	15
108	A Multidisciplinary Approach Toward the Rapid and Preparative-Scale Biocatalytic Synthesis of Chiral Amino Alcohols: A Concise Transketolase-Dependent 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.	1.3	80



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109	Low-Temperature Ionizing Radiation Resistance of <i>Deinococcus radiodurans</i> and Antarctic Dry Valley Bacteria. <i>Astrobiology</i> , 2010, 10, 717-732.	1.5	76
110	1,4-Dihydroxyketone formation using aromatic and heteroaromatic aldehydes with evolved transketolase enzymes. <i>Chemical Communications</i> , 2010, 46, 7608.	2.2	45
111	Complete fluorescent fingerprints of extremophilic and photosynthetic microbes. <i>International Journal of Astrobiology</i> , 2010, 9, 245-257.	0.9	28
112	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
113	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
114	Step change in the efficiency of centrifugation through cell engineering: co-expression of <i>Staphylococcal nuclease</i> to reduce the viscosity of the bioprocess feedstock. <i>Biotechnology and Bioengineering</i> , 2009, 104, 134-142.	1.7	32
115	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
116	Evolutionary Analysis of the TPP-Dependent Enzyme Family. <i>Journal of Molecular Evolution</i> , 2008, 66, 36-49.	0.8	66
117	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.	1.7	45
118	Large-scale plasmid DNA processing: evidence that cell harvesting and storage methods affect yield of supercoiled plasmid DNA. <i>Biotechnology and Applied Biochemistry</i> , 2008, 51, 43-51.	1.4	17
119	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.	5.5	78
120	Characterization of Oxygen Transfer in Miniature and Lab-Scale Bubble Column Bioreactors and Comparison of Microbial Growth Performance Based on Constant $k_La$ . <i>Biotechnology Progress</i> , 2008, 21, 1175-1182.	1.3	35
121	Directed evolution of transketolase substrate specificity towards an aliphatic aldehyde. <i>Journal of Biotechnology</i> , 2008, 134, 240-245.	1.9	69
122	Novel Adhesin from <i>Pasteurella multocida</i> That Binds to the Integrin-Binding Fibronectin FnIII 9-10 Repeats. <i>Infection and Immunity</i> , 2008, 76, 1093-1104.	1.0	21
123	<i>Pasteurellaceae</i> ComE1 Proteins Combine the Properties of Fibronectin Adhesins and DNA Binding Competence Proteins. <i>PLoS ONE</i> , 2008, 3, e3991.	1.1	28
124	Accelerating biocatalytic process design: Integrating new tools from biology, chemistry and engineering. <i>Journal of Biotechnology</i> , 2007, 131, S78.	1.9	0
125	Directed evolution of transketolase activity on non-phosphorylated substrates. <i>Journal of Biotechnology</i> , 2007, 131, 425-432.	1.9	74
126	Martian sub-surface ionising radiation: biosignatures and geology. <i>Biogeosciences</i> , 2007, 4, 545-558.	1.3	65



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127	One-pot synthesis of amino-alcohols using a de-novo transketolase and $\beta^2$ -alanine: Pyruvate transaminase pathway in <i>Escherichia coli</i> . <i>Biotechnology and Bioengineering</i> , 2007, 96, 559-569.	1.7	132
128	Degradation of supercoiled plasmid DNA within a capillary device. <i>Biotechnology and Bioengineering</i> , 2007, 97, 1148-1157.	1.7	15
129	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.	1.6	277
130	Comparative functional genomic analysis of Pasteurellaceae adhesins using phage display. <i>Veterinary Microbiology</i> , 2007, 122, 123-134.	0.8	14
131	Reaction modelling and simulation to assess the integrated use of transketolase and $\alpha$ -transaminase for the synthesis of an aminotriol. <i>Biocatalysis and Biotransformation</i> , 2006, 24, 449-457.	1.1	28
132	Phage display in the study of infectious diseases. <i>Trends in Microbiology</i> , 2006, 14, 141-147.	3.5	80
133	Wake up! Peptidoglycan lysis and bacterial non-growth states. <i>Trends in Microbiology</i> , 2006, 14, 271-276.	3.5	126
134	A colorimetric assay for screening transketolase activity. <i>Bioorganic and Medicinal Chemistry</i> , 2006, 14, 7062-7065.	1.4	51
135	Bacterial resuscitation factors: revival of viable but non-culturable bacteria. <i>Cellular and Molecular Life Sciences</i> , 2006, 63, 2555-2559.	2.4	38
136	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.	1.0	2
137	A novel method for the measurement of oxygen mass transfer rates in small-scale vessels. <i>Biochemical Engineering Journal</i> , 2005, 25, 63-68.	1.8	20
138	Directed evolution of biocatalytic processes. <i>New Biotechnology</i> , 2005, 22, 11-19.	2.7	107
139	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.	1.3	66
140	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.	3.6	131
141	Resuscitation-promoting factors possess a lysozyme-like domain. <i>Trends in Biochemical Sciences</i> , 2004, 29, 7-10.	3.7	60
142	Impact of intrinsic DNA structure on processing of plasmids for gene therapy and DNA vaccines. <i>Journal of Biotechnology</i> , 2004, 114, 239-254.	1.9	35
143	Effects of fermentation strategy on the characteristics of plasmid DNA production. <i>Biotechnology and Applied Biochemistry</i> , 2003, 37, 83.	1.4	57
144	How <i>Streptomyces lividans</i> uses oils and sugars as mixed substrates. <i>Enzyme and Microbial Technology</i> , 2003, 32, 157-166.	1.6	22

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145	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.	1.6	8
146	Molecular Pathogenicity of the Oral Opportunistic Pathogen <i>Actinobacillus actinomycetemcomitans</i> . <i>Annual Review of Microbiology</i> , 2003, 57, 29-55.	2.9	177
147	A modified <i>Escherichia coli</i> protein production strain expressing staphylococcal nuclease, capable of auto-hydrolysing host nucleic acid. <i>Journal of Biotechnology</i> , 2003, 101, 229-239.	1.9	23
148	Impact of plasmid size on cellular oxygen demand in <i>Escherichia coli</i> . <i>Biotechnology and Applied Biochemistry</i> , 2003, 38, 1.	1.4	16
149	Shear-induced release of disabled herpes simplex virus from baby-hamster kidney cells. <i>Biotechnology and Applied Biochemistry</i> , 2003, 38, 271.	1.4	1
150	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.	1.4	49
151	A comparison of the process issues in expressing the same recombinant enzyme periplasmically in <i>Escherichia coli</i> and extracellularly in <i>Streptomyces lividans</i> . <i>Journal of Biotechnology</i> , 2002, 92, 205-215.	1.9	10
152	<i>Actinobacillus actinomycetemcomitans</i> . <i>Journal of Medical Microbiology</i> , 2002, 51, 1013-1020.	0.7	71
153	Purification of essentially RNA free plasmid DNA using a modified <i>Escherichia coli</i> host strain expressing ribonuclease A. <i>Journal of Biotechnology</i> , 2001, 85, 297-304.	1.9	24
154	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.	1.3	37
155	Large scale production of cyclohexanone monooxygenase from <i>Escherichia coli</i> TOP10 pQR239. <i>Enzyme and Microbial Technology</i> , 2001, 28, 265-274.	1.6	119
156	Identification of the Exported Proteins of the Oral Opportunistic Pathogen <i>Actinobacillus actinomycetemcomitans</i> by Using Alkaline Phosphatase Fusions. <i>Infection and Immunity</i> , 2001, 69, 2748-2752.	1.0	10
157	Effect of substrate concentration on the enantioselectivity of cyclohexanone monooxygenase from <i>Acinetobacter calcoaceticus</i> and its rationalization. <i>Tetrahedron: Asymmetry</i> , 2000, 11, 3653-3657.	1.8	21
158	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.	1.0	119
159	Removal of contaminant nucleic acids by nitrocellulose filtration during pharmaceutical-grade plasmid DNA processing. <i>Journal of Biotechnology</i> , 2000, 76, 197-205.	1.9	42
160	The mitochondrial permeability transition pore. <i>Biochemical Society Symposia</i> , 1999, 66, 167-179.	2.7	195
161	Computational Fluid Dynamics and a Quantitative Polymerase Chain Reaction as Tools for Measuring Bioprocess Containment. <i>Chemical Engineering Research and Design</i> , 1999, 77, 13-21.	2.7	0
162	Import and processing of heart mitochondrial cyclophilin D. <i>FEBS Journal</i> , 1999, 263, 353-359.	0.2	53

#	ARTICLE	IF	CITATIONS
163	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
164	Rational engineering of the TOLmeta-cleavage pathway. , 1998, 58, 240-249.		7
165	30 Mitochondrial import of cyclophilin-D. <i>Biochemical Society Transactions</i> , 1998, 26, S329-S329.	1.6	0
166	31 Cyclophilin-D binding proteins. <i>Biochemical Society Transactions</i> , 1998, 26, S330-S330.	1.6	6
167	Expression and purification of a recombinant metal-binding T4 lysozyme fusion protein. <i>Journal of Biotechnology</i> , 1996, 49, 231-238.	1.9	10
168	Production and Modification of E. coli Transketolase for Large-Scale Biocatalysis. <i>Annals of the New York Academy of Sciences</i> , 1996, 799, 11-18.	1.8	6
169	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
170	Development of a simple method for the recovery of recombinant proteins from the Escherichia coli periplasm. <i>Enzyme and Microbial Technology</i> , 1996, 19, 332-338.	1.6	64
171	Improved production and stability of E. coli recombinants expressing transketolase for large scale biotransformation. <i>Biotechnology Letters</i> , 1995, 17, 247-252.	1.1	30
172	Stability of plasmid vector pIJ303 in <i>Streptomyces lividans</i> TK24 during laboratory-scale fermentations. <i>Biotechnology and Bioengineering</i> , 1993, 41, 148-155.	1.7	15
173	Identification of the Minimal Replicon of the Streptomycete Plasmid pIJ101. <i>Plasmid</i> , 1993, 29, 57-62.	0.4	6
174	Enzyme-catalysed carbon-carbon bond formation: use of transketolase from Escherichia coli. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1993, , 165-166.	0.9	76
175	Sequence of the <i>Streptomyces thermoviolaceus</i> CUB74 Î±-amylase-encoding gene and its transcription analysis in <i>Streptomyces lividans</i> . <i>Gene</i> , 1993, 127, 133-137.	1.0	13
176	Identification by site-directed mutagenesis of amino acids in the subsite of bovine pancreatic ribonuclease A. <i>Protein Engineering, Design and Selection</i> , 1993, 6, 901-906.	1.0	56
177	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 killB promoters. <i>Nucleic Acids Research</i> , 1992, 20, 3693-3700.	6.5	12
178	Production of mature bovine pancreatic ribonuclease in <i>Escherichia coli</i> . <i>Gene</i> , 1992, 118, 239-245.	1.0	17
179	A method for plasmid copy number determination in recombinant <i>Streptomyces</i> . <i>Journal of Microbiological Methods</i> , 1992, 16, 69-80.	0.7	5
180	Phosphocellulose as a tool for rapid purification of DNA-modifying enzymes. <i>Analytica Chimica Acta</i> , 1991, 249, 195-200.	2.6	16

#	ARTICLE	IF	CITATIONS
181	Molecular relationships between Pseudomonas INC P-9 degradative plasmids TOL, NAH, and SAL. Plasmid, 1983, 10, 164-174.	0.4	54
182	Physical and genetic analysis of the Inc-W group plasmids R388, Sa, and R7K. Plasmid, 1982, 7, 239-250.	0.4	104
183	Analysis of the Inc P-1 group plasmids R906 and R751 and their relationship to RP1. Plasmid, 1982, 8, 244-252.	0.4	20
184	The location of sequences of TnA required for the establishment of transposition immunity. Molecular Genetics and Genomics, 1981, 184, 80-86.	2.4	28
185	The tnpR gene product of TnA is required for transposition immunity. Molecular Genetics and Genomics, 1981, 184, 87-91.	2.4	14
186	Mapping of functions in the R-plasmid R388 by examination of deletion mutants generated in vitro. Gene, 1978, 3, 87-95.	1.0	46
187	Stereoselective Transaminase-Mediated Synthesis of Serotonin and Melatonin Receptor Agonists. Advanced Synthesis and Catalysis, 0, , .	2.1	3
188	Mechanoenzymatic Reactions with Whole Cell Transaminases: Shaken, not Stirred. Green Chemistry, 0, , .	4.6	3