

George N Bennett

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.

192
papers

8,377
citations

51
h-index

83
g-index

195
ext. papers

9,053
ext. citations

5.7
avg, IF

5.92
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 192 | Metabolic engineering of Escherichia coli for quinolinic acid production by assembling L-aspartate oxidase and quinolinate synthase as an enzyme complex. <i>Metabolic Engineering</i> , 2021 , 67, 164-172 | 9.7 | 2 |
| 191 | 100th Anniversary of Macromolecular Science Viewpoint: Soft Materials for Microbial Bioelectronics. <i>ACS Macro Letters</i> , 2020 , 9, 1590-1603 | 6.6 | 9 |
| 190 | phage ferredoxin: structural characterization and electron transfer to cyanobacterial sulfite reductases. <i>Journal of Biological Chemistry</i> , 2020 , 295, 10610-10623 | 5.4 | 3 |
| 189 | Localized mandibular infection affects remote in vivo bioreactor bone generation. <i>Biomaterials</i> , 2020 , 256, 120185 | 15.6 | 3 |
| 188 | Improving the organization and interactivity of metabolic pathfinding with precomputed pathways. <i>BMC Bioinformatics</i> , 2020 , 21, 13 | 3.6 | 7 |
| 187 | Metabolic engineering of Escherichia coli to produce succinate from woody hydrolysate under anaerobic conditions. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2020 , 47, 223-232 | 4.2 | 4 |
| 186 | Combinatorial design of chemical-dependent protein switches for controlling intracellular electron transfer. <i>AIChE Journal</i> , 2020 , 66, e16796 | 3.6 | 3 |
| 185 | Improved succinate production from galactose-rich feedstocks by engineered Escherichia coli under anaerobic conditions. <i>Biotechnology and Bioengineering</i> , 2020 , 117, 1082-1091 | 4.9 | 3 |
| 184 | Metabolic engineering of Escherichia coli for malate production with a temperature sensitive malate dehydrogenase. <i>Biochemical Engineering Journal</i> , 2020 , 164, 107762 | 4.2 | 1 |
| 183 | Recombination of 2Fe-2S Ferredoxins Reveals Differences in the Inheritance of Thermostability and Midpoint Potential. <i>ACS Synthetic Biology</i> , 2020 , 9, 3245-3253 | 5.7 | 0 |
| 182 | Single cell protein production from food waste using purple non-sulfur bacteria shows economically viable protein products have higher environmental impacts. <i>Journal of Cleaner Production</i> , 2020 , 276, 123114 | 10.3 | 8 |
| 181 | Genetic sensor-regulators functional in Clostridia. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2020 , 47, 609-620 | 4.2 | 1 |
| 180 | Evolutionary Relationships Between Low Potential Ferredoxin and Flavodoxin Electron Carriers. <i>Frontiers in Energy Research</i> , 2019 , 7, | 3.8 | 13 |
| 179 | De novo design of symmetric ferredoxins that shuttle electrons in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 14557-14562 | 11.5 | 23 |
| 178 | Biosynthesis of Medium-Chain β -Hydroxy Fatty Acids by AlkBGT of GPo1 With Native FadL in Engineered. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019 , 7, 273 | 5.8 | 8 |
| 177 | Metalloprotein switches that display chemical-dependent electron transfer in cells. <i>Nature Chemical Biology</i> , 2019 , 15, 189-195 | 11.7 | 19 |
| 176 | Metabolic engineering of Escherichia coli to produce succinate from soybean hydrolysate under anaerobic conditions. <i>Biotechnology and Bioengineering</i> , 2018 , 115, 1743-1754 | 4.9 | 12 |

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| 175 | Ratiometric Gas Reporting: A Nondisruptive Approach To Monitor Gene Expression in Soils. <i>ACS Synthetic Biology</i> , 2018 , 7, 903-911 | 5.7 | 8 |
| 174 | Improvement of butanol production in <i>Clostridium acetobutylicum</i> through enhancement of NAD(P)H availability. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2018 , 45, 993-1002 | 4.2 | 20 |
| 173 | Bioconversion of methane to C-4 carboxylic acids using carbon flux through acetyl-CoA in engineered <i>Methylobacterium buryatense</i> 5GB1C. <i>Metabolic Engineering</i> , 2018 , 48, 175-183 | 9.7 | 22 |
| 172 | High yield production of four-carbon dicarboxylic acids by metabolically engineered <i>Escherichia coli</i> . <i>Journal of Industrial Microbiology and Biotechnology</i> , 2018 , 45, 53-60 | 4.2 | 16 |
| 171 | Genome analysis of a hyper acetone-butanol-ethanol (ABE) producing <i>Clostridium acetobutylicum</i> BKM19. <i>Biotechnology Journal</i> , 2017 , 12, 1600457 | 5.6 | 9 |
| 170 | Effects of Local Antibiotic Delivery from Porous Space Maintainers on Infection Clearance and Induction of an Osteogenic Membrane in an Infected Bone Defect. <i>Tissue Engineering - Part A</i> , 2017 , 23, 91-100 | 3.9 | 22 |
| 169 | Strategies for manipulation of oxygen utilization by the electron transfer chain in microbes for metabolic engineering purposes. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2017 , 44, 647-658 | 4.2 | 8 |
| 168 | Role of Clostridial Nitroreductases in Bioremediation 2017 , 175-186 | | 2 |
| 167 | Use of transposase and ends of IS608 enables precise and scarless genome modification for modulating gene expression and metabolic engineering applications in <i>Escherichia coli</i> . <i>Biotechnology Journal</i> , 2016 , 11, 80-90 | 5.6 | 2 |
| 166 | Cellular Assays for Ferredoxins: A Strategy for Understanding Electron Flow through Protein Carriers That Link Metabolic Pathways. <i>Biochemistry</i> , 2016 , 55, 7047-7064 | 3.2 | 23 |
| 165 | Volatile Gas Production by Methyl Halide Transferase: An In Situ Reporter Of Microbial Gene Expression In Soil. <i>Environmental Science & Technology</i> , 2016 , 50, 8750-9 | 10.3 | 10 |
| 164 | A rapid, flexible method for incorporating controlled antibiotic release into porous polymethylmethacrylate space maintainers for craniofacial reconstruction. <i>Biomaterials Science</i> , 2016 , 4, 121-9 | 7.4 | 7 |
| 163 | Polymer-Based Local Antibiotic Delivery for Prevention of Polymicrobial Infection in Contaminated Mandibular Implants. <i>ACS Biomaterials Science and Engineering</i> , 2016 , 2, 558-566 | 5.5 | 15 |
| 162 | Direct bioconversion of sorghum extract sugars to free fatty acids using metabolically engineered <i>Escherichia coli</i> strains: Value addition to the sorghum bioenergy crop. <i>Biomass and Bioenergy</i> , 2016 , 93, 217-226 | 5.3 | 3 |
| 161 | Metabolic transistor strategy for controlling electron transfer chain activity in <i>Escherichia coli</i> . <i>Metabolic Engineering</i> , 2015 , 28, 159-168 | 9.7 | 15 |
| 160 | Metabolic control of respiratory levels in coenzyme Q biosynthesis-deficient <i>Escherichia coli</i> strains leading to fine-tune aerobic lactate fermentation. <i>Biotechnology and Bioengineering</i> , 2015 , 112, 1720-6 | 4.9 | 9 |
| 159 | Metabolic engineering of carbon and redox flow in the production of small organic acids. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2015 , 42, 403-22 | 4.2 | 38 |
| 158 | Efficient production of free fatty acids from soybean meal carbohydrates. <i>Biotechnology and Bioengineering</i> , 2015 , 112, 2324-33 | 4.9 | 13 |

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| 157 | Efficient free fatty acid production in engineered Escherichia coli strains using soybean oligosaccharides as feedstock. <i>Biotechnology Progress</i> , 2015 , 31, 686-94 | 2.8 | 10 |
| 156 | Proteomic analyses of the phase transition from acidogenesis to solventogenesis using solventogenic and non-solventogenic Clostridium acetobutylicum strains. <i>Applied Microbiology and Biotechnology</i> , 2014 , 98, 5105-15 | 5.7 | 26 |
| 155 | Effects of antibiotic physicochemical properties on their release kinetics from biodegradable polymer microparticles. <i>Pharmaceutical Research</i> , 2014 , 31, 3379-89 | 4.5 | 33 |
| 154 | Increased Biofuel Production by Metabolic Engineering of Clostridium acetobutylicum 2014 , 361-376 | | 1 |
| 153 | Soybean Carbohydrates as a Renewable Feedstock for the Fermentative Production of Succinic Acid and Ethanol. <i>ACS Symposium Series</i> , 2014 , 81-107 | 0.4 | 0 |
| 152 | Metabolic engineering of Escherichia coli to minimize byproduct formate and improving succinate productivity through increasing NADH availability by heterologous expression of NAD(+)-dependent formate dehydrogenase. <i>Metabolic Engineering</i> , 2013 , 20, 1-8 | 9.7 | 81 |
| 151 | Characterization and evaluation of corn steep liquid in acetone-butanol-ethanol production by Clostridium acetobutylicum. <i>Biotechnology and Bioprocess Engineering</i> , 2013 , 18, 266-271 | 3.1 | 9 |
| 150 | Evaluation of antibiotic releasing porous polymethylmethacrylate space maintainers in an infected composite tissue defect model. <i>Acta Biomaterialia</i> , 2013 , 9, 8832-9 | 10.8 | 20 |
| 149 | Improvement of NADPH bioavailability in Escherichia coli by replacing NAD(+)-dependent glyceraldehyde-3-phosphate dehydrogenase GapA with NADP (+)-dependent GapB from Bacillus subtilis and addition of NAD kinase. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2013 , 40, 1449-60 | 4.2 | 20 |
| 148 | Production of succinic acid by engineered E. coli strains using soybean carbohydrates as feedstock under aerobic fermentation conditions. <i>Bioresource Technology</i> , 2013 , 130, 398-405 | 11 | 47 |
| 147 | Metabolic engineering and transhydrogenase effects on NADPH availability in Escherichia coli. <i>Biotechnology Progress</i> , 2013 , 29, 1124-30 | 2.8 | 31 |
| 146 | Cofactor engineering for advancing chemical biotechnology. <i>Current Opinion in Biotechnology</i> , 2013 , 24, 994-9 | 11.4 | 105 |
| 145 | Improvement of NADPH bioavailability in Escherichia coli through the use of phosphofructokinase deficient strains. <i>Applied Microbiology and Biotechnology</i> , 2013 , 97, 6883-93 | 5.7 | 22 |
| 144 | Analysis of redox responses during TNT transformation by Clostridium acetobutylicum ATCC 824 and mutants exhibiting altered metabolism. <i>Applied Microbiology and Biotechnology</i> , 2013 , 97, 4651-63 | 5.7 | 8 |
| 143 | Metabolic engineering of Clostridium acetobutylicum ATCC 824 for isopropanol-butanol-ethanol fermentation. <i>Applied and Environmental Microbiology</i> , 2012 , 78, 1416-23 | 4.8 | 190 |
| 142 | Succinate production in Escherichia coli. <i>Biotechnology Journal</i> , 2012 , 7, 213-24 | 5.6 | 138 |
| 141 | Manipulating respiratory levels in Escherichia coli for aerobic formation of reduced chemical products. <i>Metabolic Engineering</i> , 2011 , 13, 704-12 | 9.7 | 23 |
| 140 | Improving the Clostridium acetobutylicum butanol fermentation by engineering the strain for co-production of riboflavin. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2011 , 38, 1013-25 | 4.2 | 32 |

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| 139 | Effect of culture operating conditions on succinate production in a multiphase fed-batch bioreactor using an engineered <i>Escherichia coli</i> strain. <i>Applied Microbiology and Biotechnology</i> , 2011 , 92, 499-508 | 5.7 | 21 |
| 138 | Culture conditions impact on succinate production by a high succinate producing <i>Escherichia coli</i> strain. <i>Biotechnology Progress</i> , 2011 , 27, 1225-31 | 2.8 | 8 |
| 137 | Succinate production from sucrose by metabolic engineered <i>Escherichia coli</i> strains under aerobic conditions. <i>Biotechnology Progress</i> , 2011 , 27, 1242-7 | 2.8 | 10 |
| 136 | Heterologous <i>pyc</i> gene expression under various natural and engineered promoters in <i>Escherichia coli</i> for improved succinate production. <i>Journal of Biotechnology</i> , 2011 , 155, 236-43 | 3.7 | 26 |
| 135 | Succinate production from different carbon sources under anaerobic conditions by metabolic engineered <i>Escherichia coli</i> strains. <i>Metabolic Engineering</i> , 2011 , 13, 328-35 | 9.7 | 45 |
| 134 | An algorithm for efficient identification of branched metabolic pathways. <i>Journal of Computational Biology</i> , 2011 , 18, 1575-97 | 1.7 | 11 |
| 133 | Finding metabolic pathways using atom tracking. <i>Bioinformatics</i> , 2010 , 26, 1548-55 | 7.2 | 47 |
| 132 | Structural correlations of activity of <i>Clostridium acetobutylicum</i> ATCC 824 butyrate kinase isozymes. <i>Enzyme and Microbial Technology</i> , 2010 , 46, 118-124 | 3.8 | 6 |
| 131 | Metabolic impact of the level of aeration during cell growth on anaerobic succinate production by an engineered <i>Escherichia coli</i> strain. <i>Metabolic Engineering</i> , 2010 , 12, 499-509 | 9.7 | 40 |
| 130 | Metabolic flux analysis of <i>Escherichia coli</i> <i>creB</i> and <i>arcA</i> mutants reveals shared control of carbon catabolism under microaerobic growth conditions. <i>Journal of Bacteriology</i> , 2009 , 191, 5538-48 | 3.5 | 37 |
| 129 | Metabolic engineering of the anaerobic central metabolic pathway in <i>Escherichia coli</i> for the simultaneous anaerobic production of isoamyl acetate and succinic acid. <i>Biotechnology Progress</i> , 2009 , 25, 1304-9 | 2.8 | 7 |
| 128 | Microbial formation of esters. <i>Applied Microbiology and Biotechnology</i> , 2009 , 85, 13-25 | 5.7 | 88 |
| 127 | Environmentally-modulated changes in fluorescence distribution in cells with oscillatory genetic network dynamics. <i>Journal of Biotechnology</i> , 2009 , 140, 203-17 | 3.7 | 4 |
| 126 | <i>Clostridium taeniosporum</i> is a close relative of the <i>Clostridium botulinum</i> Group II. <i>Anaerobe</i> , 2008 , 14, 318-24 | 2.8 | 6 |
| 125 | Activity of <i>abrB310</i> promoter in wild type and <i>spo0A</i> -deficient strains of <i>Clostridium acetobutylicum</i> . <i>Journal of Industrial Microbiology and Biotechnology</i> , 2008 , 35, 743-50 | 4.2 | 6 |
| 124 | Engineering poly(3-hydroxybutyrate-co-3-hydroxyvalerate) copolymer composition in <i>E. coli</i> . <i>Biotechnology and Bioengineering</i> , 2008 , 99, 919-28 | 4.9 | 31 |
| 123 | Reduction of acetate accumulation in <i>Escherichia coli</i> cultures for increased recombinant protein production. <i>Metabolic Engineering</i> , 2008 , 10, 97-108 | 9.7 | 49 |
| 122 | Replacing <i>Escherichia coli</i> NAD-dependent glyceraldehyde 3-phosphate dehydrogenase (GAPDH) with a NADP-dependent enzyme from <i>Clostridium acetobutylicum</i> facilitates NADPH dependent pathways. <i>Metabolic Engineering</i> , 2008 , 10, 352-9 | 9.7 | 102 |

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| 121 | The YfiD protein contributes to the pyruvate formate-lyase flux in an Escherichia coli arcA mutant strain. <i>Biotechnology and Bioengineering</i> , 2007 , 97, 138-43 | 4.9 | 17 |
| 120 | Analysis of the clostridial hydrophobic with a conserved tryptophan family (ChW) of proteins in Clostridium acetobutylicum with emphasis on ChW14 and ChW16/17. <i>Enzyme and Microbial Technology</i> , 2007 , 42, 29-43 | 3.8 | 7 |
| 119 | Characterization of a novel ferredoxin with N-terminal extension from Clostridium acetobutylicum ATCC 824. <i>Archives of Microbiology</i> , 2007 , 187, 161-9 | 3 | 3 |
| 118 | Characterization of alcohol dehydrogenase 1 and 3 from Neurospora crassa FGSC2489. <i>Applied Microbiology and Biotechnology</i> , 2007 , 76, 349-56 | 5.7 | 14 |
| 117 | Cell population heterogeneity in expression of a gene-switching network with fluorescent markers of different half-lives. <i>Journal of Biotechnology</i> , 2007 , 128, 362-75 | 3.7 | 8 |
| 116 | Acetyl-CoA synthetase overexpression in Escherichia coli demonstrates more efficient acetate assimilation and lower acetate accumulation: a potential tool in metabolic engineering. <i>Applied Microbiology and Biotechnology</i> , 2006 , 71, 870-4 | 5.7 | 95 |
| 115 | A kinetic model of oxygen regulation of cytochrome production in Escherichia coli. <i>Journal of Theoretical Biology</i> , 2006 , 242, 547-63 | 2.3 | 12 |
| 114 | Characterization of D-ribose biosynthesis in Bacillus subtilis JY200 deficient in transketolase gene. <i>Journal of Biotechnology</i> , 2006 , 121, 508-16 | 3.7 | 10 |
| 113 | Expression of the pfl gene and resulting metabolite flux distribution in nuo and ackA-pta E. coli mutant strains. <i>Biotechnology Progress</i> , 2006 , 22, 898-902 | 2.8 | 2 |
| 112 | Effect of overexpression of a soluble pyridine nucleotide transhydrogenase (UdhA) on the production of poly(3-hydroxybutyrate) in Escherichia coli. <i>Biotechnology Progress</i> , 2006 , 22, 420-5 | 2.8 | 81 |
| 111 | Ester production in E. coli and C. acetobutylicum. <i>Enzyme and Microbial Technology</i> , 2006 , 38, 937-943 | 3.8 | 24 |
| 110 | Development of a metabolic network design and optimization framework incorporating implementation constraints: a succinate production case study. <i>Metabolic Engineering</i> , 2006 , 8, 46-57 | 9.7 | 38 |
| 109 | Batch culture characterization and metabolic flux analysis of succinate-producing Escherichia coli strains. <i>Metabolic Engineering</i> , 2006 , 8, 209-26 | 9.7 | 73 |
| 108 | Effect of the global redox sensing/regulation networks on Escherichia coli and metabolic flux distribution based on C-13 labeling experiments. <i>Metabolic Engineering</i> , 2006 , 8, 619-27 | 9.7 | 33 |
| 107 | Proteome analysis and comparison of Clostridium acetobutylicum ATCC 824 and Spo0A strain variants. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2006 , 33, 298-308 | 4.2 | 46 |
| 106 | Studies on inhibition of transformation of 2,4,6-trinitrotoluene catalyzed by Fe-only hydrogenase from Clostridium acetobutylicum. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2006 , 33, 368-76 | 4.2 | 7 |
| 105 | Molecular cloning and characterization of the alcohol dehydrogenase ADH1 gene of Candida utilis ATCC 9950. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2006 , 33, 1032-6 | 4.2 | 26 |
| 104 | Efficient succinic acid production from glucose through overexpression of pyruvate carboxylase in an Escherichia coli alcohol dehydrogenase and lactate dehydrogenase mutant. <i>Biotechnology Progress</i> , 2005 , 21, 358-65 | 2.8 | 99 |

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| 103 | Redistribution of metabolic fluxes in the central aerobic metabolic pathway of E. coli mutant strains with deletion of the ackA-pta and poxB pathways for the synthesis of isoamyl acetate. <i>Biotechnology Progress</i> , 2005 , 21, 627-31 | 2.8 | 57 |
| 102 | Characterization of the acetate-producing pathways in Escherichia coli. <i>Biotechnology Progress</i> , 2005 , 21, 1062-7 | 2.8 | 99 |
| 101 | Effect of different levels of NADH availability on metabolic fluxes of Escherichia coli chemostat cultures in defined medium. <i>Journal of Biotechnology</i> , 2005 , 117, 395-405 | 3.7 | 58 |
| 100 | Metabolic engineering of aerobic succinate production systems in Escherichia coli to improve process productivity and achieve the maximum theoretical succinate yield. <i>Metabolic Engineering</i> , 2005 , 7, 116-27 | 9.7 | 161 |
| 99 | Novel pathway engineering design of the anaerobic central metabolic pathway in Escherichia coli to increase succinate yield and productivity. <i>Metabolic Engineering</i> , 2005 , 7, 229-39 | 9.7 | 202 |
| 98 | Chemostat culture characterization of Escherichia coli mutant strains metabolically engineered for aerobic succinate production: a study of the modified metabolic network based on metabolite profile, enzyme activity, and gene expression profile. <i>Metabolic Engineering</i> , 2005 , 7, 337-52 | 9.7 | 36 |
| 97 | Effect of oxygen, and ArcA and FNR regulators on the expression of genes related to the electron transfer chain and the TCA cycle in Escherichia coli. <i>Metabolic Engineering</i> , 2005 , 7, 364-74 | 9.7 | 100 |
| 96 | Genetically constrained metabolic flux analysis. <i>Metabolic Engineering</i> , 2005 , 7, 445-56 | 9.7 | 20 |
| 95 | Enhanced lycopene productivity by manipulation of carbon flow to isopentenyl diphosphate in Escherichia coli. <i>Biotechnology Progress</i> , 2005 , 21, 1558-61 | 2.8 | 67 |
| 94 | Genetic reconstruction of the aerobic central metabolism in Escherichia coli for the absolute aerobic production of succinate. <i>Biotechnology and Bioengineering</i> , 2005 , 89, 148-56 | 4.9 | 98 |
| 93 | Effect of oxygen on the Escherichia coli ArcA and FNR regulation systems and metabolic responses. <i>Biotechnology and Bioengineering</i> , 2005 , 89, 556-64 | 4.9 | 99 |
| 92 | Fed-batch culture of a metabolically engineered Escherichia coli strain designed for high-level succinate production and yield under aerobic conditions. <i>Biotechnology and Bioengineering</i> , 2005 , 90, 775-9 | 4.9 | 102 |
| 91 | Effect of ArcA and FNR on the expression of genes related to the oxygen regulation and the glycolysis pathway in Escherichia coli under microaerobic growth conditions. <i>Biotechnology and Bioengineering</i> , 2005 , 92, 147-59 | 4.9 | 100 |
| 90 | Effect of Sorghum vulgare phosphoenolpyruvate carboxylase and Lactococcus lactis pyruvate carboxylase coexpression on succinate production in mutant strains of Escherichia coli. <i>Applied Microbiology and Biotechnology</i> , 2005 , 67, 515-23 | 5.7 | 61 |
| 89 | Biodegradation of xenobiotics by anaerobic bacteria. <i>Applied Microbiology and Biotechnology</i> , 2005 , 67, 600-18 | 5.7 | 114 |
| 88 | Biochemical characterization of trinitrotoluene transforming oxygen-insensitive nitroreductases from Clostridium acetobutylicum ATCC 824. <i>Archives of Microbiology</i> , 2005 , 184, 158-67 | 3 | 39 |
| 87 | Characterization of thermostable Xyn10A enzyme from mesophilic Clostridium acetobutylicum ATCC 824. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2005 , 32, 12-8 | 4.2 | 18 |
| 86 | Effect of carbon sources differing in oxidation state and transport route on succinate production in metabolically engineered Escherichia coli. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2005 , 32, 87-93 | 4.2 | 44 |

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| 85 | Intracellular butyryl phosphate and acetyl phosphate concentrations in <i>Clostridium acetobutylicum</i> and their implications for solvent formation. <i>Applied and Environmental Microbiology</i> , 2005 , 71, 530-7 | 4.8 | 85 |
| 84 | SpoII _E regulates sporulation but does not directly affect solventogenesis in <i>Clostridium acetobutylicum</i> ATCC 824. <i>Journal of Bacteriology</i> , 2005 , 187, 1930-6 | 3.5 | 42 |
| 83 | Expression of abrB310 and SinR, and effects of decreased abrB310 expression on the transition from acidogenesis to solventogenesis, in <i>Clostridium acetobutylicum</i> ATCC 824. <i>Applied and Environmental Microbiology</i> , 2005 , 71, 1987-95 | 4.8 | 38 |
| 82 | Enhanced isoamyl acetate production upon manipulation of the acetyl-CoA node in <i>Escherichia coli</i> . <i>Biotechnology Progress</i> , 2004 , 20, 692-7 | 2.8 | 14 |
| 81 | Increasing the acetyl-CoA pool in the presence of overexpressed phosphoenolpyruvate carboxylase or pyruvate carboxylase enhances succinate production in <i>Escherichia coli</i> . <i>Biotechnology Progress</i> , 2004 , 20, 1599-604 | 2.8 | 63 |
| 80 | Thermostable xylanase10B from <i>Clostridium acetobutylicum</i> ATCC824. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2004 , 31, 229-34 | 4.2 | 17 |
| 79 | Production of isoamyl acetate in ackA-pta and/or ldh mutants of <i>Escherichia coli</i> with overexpression of yeast ATF2. <i>Applied Microbiology and Biotechnology</i> , 2004 , 63, 698-704 | 5.7 | 34 |
| 78 | Effect of different levels of NADH availability on metabolite distribution in <i>Escherichia coli</i> fermentation in minimal and complex media. <i>Applied Microbiology and Biotechnology</i> , 2004 , 65, 426-32 | 5.7 | 44 |
| 77 | Cofactor engineering of intracellular CoA/acetyl-CoA and its effect on metabolic flux redistribution in <i>Escherichia coli</i> . <i>Metabolic Engineering</i> , 2004 , 6, 133-9 | 9.7 | 61 |
| 76 | Applicability of CoA/acetyl-CoA manipulation system to enhance isoamyl acetate production in <i>Escherichia coli</i> . <i>Metabolic Engineering</i> , 2004 , 6, 294-9 | 9.7 | 41 |
| 75 | 2,4,6-trinitrotoluene reduction by an Fe-only hydrogenase in <i>Clostridium acetobutylicum</i> . <i>Applied and Environmental Microbiology</i> , 2003 , 69, 1542-7 | 4.8 | 44 |
| 74 | Mutagenicity of nitroaromatic degradation compounds. <i>Environmental Toxicology and Chemistry</i> , 2003 , 22, 2293-7 | 3.8 | 75 |
| 73 | The effect of carbon sources and lactate dehydrogenase deletion on 1,2-propanediol production in <i>Escherichia coli</i> . <i>Journal of Industrial Microbiology and Biotechnology</i> , 2003 , 30, 34-40 | 4.2 | 43 |
| 72 | Sequences affecting the regulation of solvent production in <i>Clostridium acetobutylicum</i> . <i>Journal of Industrial Microbiology and Biotechnology</i> , 2003 , 30, 414-20 | 4.2 | 11 |
| 71 | Heterologous expression of the <i>Saccharomyces cerevisiae</i> alcohol acetyltransferase genes in <i>Clostridium acetobutylicum</i> and <i>Escherichia coli</i> for the production of isoamyl acetate. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2003 , 30, 427-32 | 4.2 | 29 |
| 70 | Role of hydroxylamine intermediates in the phytotransformation of 2,4,6-trinitrotoluene by <i>Myriophyllum aquaticum</i> . <i>Environmental Science & Technology</i> , 2003 , 37, 3595-600 | 10.3 | 42 |
| 69 | Expression of a cloned cyclopropane fatty acid synthase gene reduces solvent formation in <i>Clostridium acetobutylicum</i> ATCC 824. <i>Applied and Environmental Microbiology</i> , 2003 , 69, 2831-41 | 4.8 | 87 |
| 68 | Metabolic engineering through cofactor manipulation and its effects on metabolic flux redistribution in <i>Escherichia coli</i> . <i>Metabolic Engineering</i> , 2002 , 4, 182-92 | 9.7 | 203 |

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|----|---|-----|-----|
| 67 | Metabolic engineering of Escherichia coli: increase of NADH availability by overexpressing an NAD(+)-dependent formate dehydrogenase. <i>Metabolic Engineering</i> , 2002 , 4, 217-29 | 9.7 | 224 |
| 66 | The effect of increasing NADH availability on the redistribution of metabolic fluxes in Escherichia coli chemostat cultures. <i>Metabolic Engineering</i> , 2002 , 4, 230-7 | 9.7 | 116 |
| 65 | The effects of feed and intracellular pyruvate levels on the redistribution of metabolic fluxes in Escherichia coli. <i>Metabolic Engineering</i> , 2001 , 3, 115-23 | 9.7 | 59 |
| 64 | Genome sequence and comparative analysis of the solvent-producing bacterium Clostridium acetobutylicum. <i>Journal of Bacteriology</i> , 2001 , 183, 4823-38 | 3.5 | 656 |
| 63 | Effect of variation of Klebsiella pneumoniae acetolactate synthase expression on metabolic flux redistribution in Escherichia coli. <i>Biotechnology and Bioengineering</i> , 2000 , 69, 150-9 | 4.9 | 24 |
| 62 | Effect of glucose analog supplementation on metabolic flux distribution in anaerobic chemostat cultures of Escherichia coli. <i>Metabolic Engineering</i> , 2000 , 2, 149-54 | 9.7 | 8 |
| 61 | Mutagenicity of trinitrotoluene and metabolites formed during anaerobic degradation by Clostridium acetobutylicum ATCC 824. <i>Environmental Toxicology and Chemistry</i> , 2000 , 19, 2871-2875 | 3.8 | 15 |
| 60 | Cloning, Sequencing, and Characterization of the Gene Encoding Flagellin, flaC, and the Post-translational Modification of Flagellin, FlaC, from Clostridium acetobutylicum ATCC824. <i>Anaerobe</i> , 2000 , 6, 69-79 | 2.8 | 19 |
| 59 | 2,4,6-trinitrotoluene reduction by carbon monoxide dehydrogenase from Clostridium thermoaceticum. <i>Applied and Environmental Microbiology</i> , 2000 , 66, 1474-8 | 4.8 | 66 |
| 58 | . <i>Environmental Toxicology and Chemistry</i> , 2000 , 19, 2871 | 3.8 | 4 |
| 57 | Improvement of biomass yield and recombinant gene expression in Escherichia coli by using fructose as the primary carbon source. <i>Biotechnology Progress</i> , 1999 , 15, 140-5 | 2.8 | 34 |
| 56 | Metabolic flux analysis of Escherichia coli deficient in the acetate production pathway and expressing the Bacillus subtilis acetolactate synthase. <i>Metabolic Engineering</i> , 1999 , 1, 26-34 | 9.7 | 65 |
| 55 | Redistribution of metabolic fluxes in Escherichia coli with fermentative lactate dehydrogenase overexpression and deletion. <i>Metabolic Engineering</i> , 1999 , 1, 141-52 | 9.7 | 62 |
| 54 | Metabolic flux analysis of Escherichia coli expressing the Bacillus subtilis acetolactate synthase in batch and continuous cultures. <i>Biotechnology and Bioengineering</i> , 1999 , 63, 737-49 | 4.9 | 28 |
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