# Mark A Eiteman

List of Publications by Year
in descending order

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|---|---|---|---|
| 97<br>papers | 4,601<br>citations | 109321<br>35<br>h-index | 106344<br>65<br>g-index |
| 100<br>all docs | 100<br>docs citations | 100<br>times ranked | 4593<br>citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Overcoming acetate in Escherichia coli recombinant protein fermentations. Trends in Biotechnology, 2006, 24, 530-536. | 9.3 | 330 |
| 2 | Overflow Metabolism in Escherichia coli during Steady-State Growth: Transcriptional Regulation and Effect of the Redox Ratio. Applied and Environmental Microbiology, 2006, 72, 3653-3661. | 3.1 | 303 |
| 3 | Increasing NADH oxidation reduces overflow metabolism in Saccharomyces cerevisiae. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 2402-2407. | 7.1 | 302 |
| 4 | Effects of Growth Mode and Pyruvate Carboxylase on Succinic Acid Production by Metabolically Engineered Strains of Escherichia coli. Applied and Environmental Microbiology, 2002, 68, 1715-1727. | 3.1 | 233 |
| 5 | Succinate production in dual-phase Escherichia coli fermentations depends on the time of transition from aerobic to anaerobic conditions. Journal of Industrial Microbiology and Biotechnology, 2002, 28, 325-332. | 3.0 | 217 |
| 6 | Evaluation of Membrane Filtration and Ozonation Processes for Treatment of Reactive-Dye Wastewater. Journal of Environmental Engineering, ASCE, 1998, 124, 272-277. | 1.4 | 216 |
| 7 | A co-fermentation strategy to consume sugar mixtures effectively. Journal of Biological Engineering, 2008, 2, 3. | 4.7 | 137 |
| 8 | Synthesis of organic osmolytes and salt tolerance mechanisms in Paspalum vaginatum. Environmental and Experimental Botany, 2008, 63, 19-27. | 4.2 | 121 |
| 9 | Lactate and Acrylate Metabolism by Megasphaera elsdenii under Batch and Steady-State Conditions. Applied and Environmental Microbiology, 2012, 78, 8564-8570. | 3.1 | 121 |
| 10 | Optimization of the ion-exchange analysis of organic acids from fermentation. Analytica Chimica Acta, 1997, 338, 69-75. | 5.4 | 100 |
| 11 | High Glycolytic Flux Improves Pyruvate Production by a Metabolically Engineered Escherichia coli Strain. Applied and Environmental Microbiology, 2008, 74, 6649-6655. | 3.1 | 100 |
| 12 | Continuous-flow ferrohydrodynamic sorting of particles and cells in microfluidic devices. Microfluidics and Nanofluidics, 2012, 13, 645-654. | 2.2 | 99 |
| 13 | Homolactate Fermentation by Metabolically Engineered Escherichia coli Strains. Applied and Environmental Microbiology, 2007, 73, 456-464. | 3.1 | 93 |
| 14 | Metabolic Analysis of Escherichia coli in the Presence and Absence of the Carboxylating Enzymes Phosphoenolpyruvate Carboxylase and Pyruvate Carboxylase. Applied and Environmental Microbiology, 2000, 66, 1844-1850. | 3.1 | 87 |
| 15 | Microbial production of lactic acid. Biotechnology Letters, 2015, 37, 955-972. | 2.2 | 79 |
| 16 | Simultaneous utilization of glucose, xylose and arabinose in the presence of acetate by a consortium of Escherichia coli strains. Microbial Cell Factories, 2012, 11, 77. | 4.0 | 75 |
| 17 | A substrateâ€selective coâ€fermentation strategy with Escherichia coli produces lactate by simultaneously consuming xylose and glucose. Biotechnology and Bioengineering, 2009, 102, 822-827. | 3.3 | 70 |
| 18 | Physical properties of low molecular weight triglycerides for the development of bio-diesel fuel models. Bioresource Technology, 1996, 56, 55-60. | 9.6 | 69 |

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|---|---|---|---|
| 19 | The effect of acetate pathway mutations on the production of pyruvate in Escherichia coli. Applied Microbiology and Biotechnology, 2003, 62, 76-82. | 3.6 | 66 |
| 20 | Peptide hydrophobicity and partitioning in poly(ethylene glycol)/magnesium sulfate aqueous two-phase systems. Biotechnology Progress, 1990, 6, 479-484. | 2.6 | 63 |
| 21 | The physiological effects and metabolic alterations caused by the expression of Rhizobium etli pyruvate carboxylase in Escherichia coli. Applied Microbiology and Biotechnology, 2001, 56, 188-195. | 3.6 | 63 |
| 22 | Optimization of recombinant aminolevulinate synthase production in Escherichia coli using factorial design. Applied Microbiology and Biotechnology, 2003, 63, 267-273. | 3.6 | 62 |
| 23 | Increased recombinant protein production inEscherichia coli strains with overexpressed water-forming NADH oxidase and a deleted ArcA regulatory protein. Biotechnology and Bioengineering, 2006, 94, 538-542. | 3.3 | 60 |
| 24 | Effect of CO2 on succinate production in dual-phase Escherichia coli fermentations. Journal of Biotechnology, 2009, 143, 213-223. | 3.8 | 58 |
| 25 | Expression of an Anaplerotic Enzyme, Pyruvate Carboxylase, Improves Recombinant Protein Production in Escherichia coli. Applied and Environmental Microbiology, 2002, 68, 5620-5624. | 3.1 | 57 |
| 26 | Recent Progress in the Microbial Production of Pyruvic Acid. Fermentation, 2017, 3, 8. | 3.0 | 53 |
| 27 | Accelerating pathway evolution by increasing the gene dosage of chromosomal segments. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 7105-7110. | 7.1 | 52 |
| 28 | Elucidation of Enzymes in Fermentation Pathways Used by Clostridium thermosuccinogenes Growing on Inulin. Applied and Environmental Microbiology, 2000, 66, 246-251. | 3.1 | 51 |
| 29 | Metabolic Flux Analysis of Clostridium thermosuccinogenes. Applied Biochemistry and Biotechnology, 2001, 94, 51-70. | 2.9 | 48 |
| 30 | Microbial Mineralization of Organic Nitrogen Forms in Poultry Litters. Journal of Environmental Quality, 2010, 39, 1848-1857. | 2.0 | 45 |
| 31 | Changes in the S-alk(en)yl Cysteine Sulfoxides and their Biosynthetic Intermediates during Onion Storage. Journal of the American Society for Horticultural Science, 1999, 124, 177-183. | 1.0 | 43 |
| 32 | Aerobic production of alanine by Escherichia coli aceF ldhA mutants expressing the Bacillus sphaericus alaD gene. Applied Microbiology and Biotechnology, 2004, 65, 56-60. | 3.6 | 40 |
| 33 | In situ extraction versus the use of an external column in fermentation. Applied Microbiology and Biotechnology, 1989, 30, 614. | 3.6 | 38 |
| 34 | Predicting partition coefficients in polyethylene glycol-potassium phosphate aqueous two-phase systems. Journal of Chromatography A, 1991, 586, 341-346. | 3.7 | 38 |
| 35 | Density and viscosity of low-molecular weight triglycerides and their mixtures. JAOCS, Journal of the American Oil Chemists' Society, 1994, 71, 1261-1265. | 1.9 | 38 |
| 36 | Transcriptional analysis and adaptive evolution of Escherichia coli strains growing on acetate. Applied Microbiology and Biotechnology, 2016, 100, 7777-7785. | 3.6 | 38 |

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|---|---|---|---|
| 37 | Detection of methyl salicylate using bi-enzyme electrochemical sensor consisting salicylate hydroxylase and tyrosinase. Biosensors and Bioelectronics, 2016, 85, 603-610. | 10.1 | 36 |
| 38 | Adaptation of Escherichia coli to Elevated Sodium Concentrations Increases Cation Tolerance and Enables Greater Lactic Acid Production. Applied and Environmental Microbiology, 2014, 80, 2880-2888. | 3.1 | 32 |
| 39 | DNA plasmid production in different host strains of Escherichia coli. Journal of Industrial Microbiology and Biotechnology, 2009, 36, 521-530. | 3.0 | 31 |
| 40 | Pressure Drop through Raw Food Waste Compost containing Synthetic Bulking Agents. Biosystems Engineering, 1999, 72, 375-384. | 0.4 | 29 |
| 41 | Physiological response of central metabolism inEscherichia coli to deletion of pyruvate oxidase and introduction of heterologous pyruvate carboxylase. Biotechnology and Bioengineering, 2005, 90, 64-76. | 3.3 | 28 |
| 42 | Evaluation of nitrogen retention and microbial populations in poultry litter treated with chemical, biological or adsorbent amendments. Journal of Environmental Management, 2011, 92, 1760-1766. | 7.8 | 28 |
| 43 | Succinate production from xyloseâ€glucose mixtures using a consortium of engineered Escherichia coli. Engineering in Life Sciences, 2015, 15, 65-72. | 3.6 | 28 |
| 44 | Fed-batch two-phase production of alanine by a metabolically engineered Escherichia coli. Biotechnology Letters, 2006, 28, 1695-1700. | 2.2 | 26 |
| 45 | Eliminating acetate formation improves citramalate production by metabolically engineered Escherichia coli. Microbial Cell Factories, 2017, 16, 114. | 4.0 | 26 |
| 46 | The effect of free-volume changes on partitioning in magnesium sulfate-poly(ethylene glycol) aqueous two-phase systems. Biochimica Et Biophysica Acta - General Subjects, 1989, 992, 125-127. | 2.4 | 25 |
| 47 | Production of citramalate by metabolically engineered Escherichia coli. Biotechnology and Bioengineering, 2016, 113, 2670-2675. | 3.3 | 25 |
| 48 | Removal of aromatic inhibitors produced from lignocellulosic hydrolysates by Acinetobacter baylyi ADP1 with formation of ethanol by Kluyveromyces marxianus. Biotechnology for Biofuels, 2019, 12, 91. | 6.2 | 25 |
| 49 | A Correlation for Predicting Partition Coefficients in Aqueous Two-Phase Systems. Separation Science and Technology, 1992, 27, 313-324. | 2.5 | 23 |
| 50 | Glucose repression of xylitol production in Candida tropicalis mixed-sugar fermentations. Biotechnology Letters, 2001, 23, 1663-1667. | 2.2 | 23 |
| 51 | Effect of redox potential on stationary-phase xylitol fermentations using Candida tropicalis. Applied Microbiology and Biotechnology, 2003, 63, 96-100. | 3.6 | 23 |
| 52 | Temperature-dependent phase inversion and its effect on partitioning in the poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142 Td | 3.7 | 22 |
| 53 | Influence of Redox Potential on Product Distribution in Clostridium thermosuccinogenes. Applied Biochemistry and Biotechnology, 1999, 82, 91-102. | 2.9 | 22 |
| 54 | A Mathematical Model To Predict the Partitioning of Peptides and Peptide-Modified Proteins in Aqueous Two-Phase Systems. Biotechnology Progress, 1994, 10, 513-519. | 2.6 | 21 |

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|---|---|---|---|
| 55 | Ground kenaf core as a filtration aid. Industrial Crops and Products, 2001, 13, 155-161. | 5.2 | 21 |
| 56 | Engineered citrate synthase alters Acetate Accumulation in Escherichia coli. Metabolic Engineering, 2020, 61, 171-180. | 7.0 | 21 |
| 57 | Comparison Of Synthetic and Natural Bulking Agents In Food Waste Composting. Compost Science and Utilization, 2003, 11, 27-35. | 1.2 | 20 |
| 58 | Hydrolysis of Tifton 85 bermudagrass in a pressurized batch hot water reactor. Journal of Chemical Technology and Biotechnology, 2008, 83, 505-512. | 3.2 | 20 |
| 59 | Partition of isomeric dipeptides in poly(ethylene glycol)/magnesium sulfate aqueous two-phase systems. Biochimica Et Biophysica Acta - General Subjects, 1991, 1073, 451-455. | 2.4 | 19 |
| 60 | THE EFFECT OF THE pH DIFFERENCE BETWEEN PHASES ON PARTITIONING IN POLY(ETHYLENE) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 54 171-183. | 2.6 | 18 |
| 61 | Characterization of the Furfural and 5-Hydroxymethylfurfural (HMF) Metabolic Pathway in the Novel Isolate Pseudomonas putida ALS1267. Applied Biochemistry and Biotechnology, 2020, 190, 918-930. | 2.9 | 18 |
| 62 | Engineered citrate synthase improves citramalic acid generation in Escherichia coli. Biotechnology and Bioengineering, 2020, 117, 2781-2790. | 3.3 | 18 |
| 63 | Pyruvate Production by Escherichia coli by Use of Pyruvate Dehydrogenase Variants. Applied and Environmental Microbiology, 2021, 87, e0048721. | 3.1 | 18 |
| 64 | pH and base counterion affect succinate production in dual-phase Escherichia coli fermentations. Journal of Industrial Microbiology and Biotechnology, 2009, 36, 1101-1109. | 3.0 | 17 |
| 65 | Conversion of glucoseâ€xylose mixtures to pyruvate using a consortium of metabolically engineered Escherichia coli. Engineering in Life Sciences, 2018, 18, 40-47. | 3.6 | 17 |
| 66 | Predicting partition coefficients of multi-charged solutes in aqueous two-phase systems. Journal of Chromatography A, 1994, 668, 21-30. | 3.7 | 15 |
| 67 | Glucose can be transported and utilized in Escherichia coli by an altered or overproduced N-acetylglucosamine phosphotransferase system (PTS). Microbiology (United Kingdom), 2018, 164, 163-172. | 1.8 | 15 |
| 68 | Quercetin Glucoside Production by Engineered Escherichia coli. Applied Biochemistry and Biotechnology, 2017, 182, 1358-1370. | 2.9 | 14 |
| 69 | Synthesis of citramalic acid from glycerol by metabolically engineered Escherichia coli. Journal of Industrial Microbiology and Biotechnology, 2017, 44, 1483-1490. | 3.0 | 13 |
| 70 | Coupling xylitol dehydrogenase with NADH oxidase improves l -xylulose production in Escherichia coli culture. Enzyme and Microbial Technology, 2017, 106, 106-113. | 3.2 | 13 |
| 71 | Analysis of oxonic acid, uric acid, creatine, allantoin, xanthine and hypoxanthine in poultry litter by reverse phase HPLC. Fresenius' Journal of Analytical Chemistry, 1994, 348, 680-683. | 1.5 | 12 |
| 72 | Microbial removal of acetate selectively from sugar mixtures. Journal of Industrial Microbiology and Biotechnology, 2011, 38, 1477-1484. | 3.0 | 12 |

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| 73 | Production of 5-aminolevulinic acid by an Escherichia coli aminolevulinate dehydratase mutant that overproduces Rhodobacter sphaeroides aminolevulinate synthase. Biotechnology Letters, 2003, 25, 1751-1755. | 2.2 | 11 |
| 74 | Effect of overexpressing nhaA and nhaR on sodium tolerance and lactate production in Escherichia coli. Journal of Biological Engineering, 2013, 7, 3. | 4.7 | 11 |
| 75 | A Model to Predict the Partition Coefficients of Amino Acids in PEG/Salt Aqueous Two-Phase Systems. Separation Science and Technology, 1995, 30, 225-237. | 2.5 | 10 |
| 76 | Conversion of glycerol to pyruvate by Escherichia coli using acetate- and acetate/glucose-limited fed-batch processes. Journal of Industrial Microbiology and Biotechnology, 2010, 37, 307-312. | 3.0 | 10 |
| 77 | Differential sensitivities of the growth of Escherichia coli to acrylate under aerobic and anaerobic conditions and its effect on product formation. Biotechnology Letters, 2013, 35, 1839-1843. | 2.2 | 10 |
| 78 | Accumulation of <scp>d</scp> -Glucose from Pentoses by Metabolically Engineered Escherichia coli. Applied and Environmental Microbiology, 2015, 81, 3387-3394. | 3.1 | 10 |
| 79 | Isolation and Characterization of Bacteria That Use Furans as the Sole Carbon Source. Applied Biochemistry and Biotechnology, 2016, 178, 76-90. | 2.9 | 10 |
| 80 | Pretreatment and Detoxification of Acid-Treated Wood Hydrolysates for Pyruvate Production by an Engineered Consortium of Escherichia coli. Applied Biochemistry and Biotechnology, 2020, 192, 243-256. | 2.9 | 10 |
| 81 | Glucose consumption in carbohydrate mixtures by phosphotransferase-system mutants of Escherichia coli. Microbiology (United Kingdom), 2017, 163, 866-877. | 1.8 | 10 |
| 82 | Partitioning of Charged Solutes in Poly(Ethylene Glycol)/Potassium Phosphate Aqueous Two-Phase Systems. Separation Science and Technology, 1994, 29, 685-700. | 2.5 | 8 |
| 83 | Enhancement of NAD(H) pool for formation of oxidized biochemicals in Escherichia coli. Journal of Industrial Microbiology and Biotechnology, 2018, 45, 939-950. | 3.0 | 8 |
| 84 | Acetate formation during recombinant protein production in Escherichia coli Kâ€12 with an elevated NAD(H) pool. Engineering in Life Sciences, 2019, 19, 770-780. | 3.6 | 8 |
| 85 | Determination of monoclonal antibody concentration in cell culture by capture ELISA. Biotechnology Letters, 1989, 3, 401-406. | 0.5 | 6 |
| 86 | Heat capacity of the triglycerides: Tricaproin, tricaprylin and tricaprin. JAOCS, Journal of the American Oil Chemists' Society, 1994, 71, 549-550. | 1.9 | 6 |
| 87 | Isolation and Characterization of Levoglucosan-Metabolizing Bacteria. Applied and Environmental Microbiology, 2022, 88, AEM0186821. | 3.1 | 6 |
| 88 | Phosphatases and phosphate affect the formation of glucose from pentoses in Escherichia coli. Engineering in Life Sciences, 2017, 17, 579-584. | 3.6 | 5 |
| 89 | Indirect monitoring of acetate exhaustion and cell recycle improve lactate production by non-growing Escherichia coli. Biotechnology Letters, 2008, 30, 1943-1946. | 2.2 | 4 |
| 90 | Effect of flue gas components on succinate production and CO2 fixation by metabolically engineered Escherichia coli. World Journal of Microbiology and Biotechnology, 2010, 26, 429-435. | 3.6 | 4 |

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|---|---|---|---|
| 91 | Hydrophobic and Charge Effects in the Partitioning of Solutes in Aqueous Two-Phase Systems. , 1995, , 31-48. | | 4 |
| 92 | Anaerobic fermentation of Salmonella typhimurium with and without pyruvate carboxylase. Biotechnology Letters, 2001, 23, 111-117. | 2.2 | 3 |
| 93 | The pH Difference in Poly(Ethylene Glycol)/Citrate Aqueous Two-Phase Systems and the Influence of Sodium Chloride. Separation Science and Technology, 1995, 30, 2509-2518. | 2.5 | 1 |
| 94 | Predicting Partition Coefficients of Small Solutes Based on Hydrophobicity. , 2000, , 107-118. | | 1 |
| 95 | Production of biomass and filamentous hemagglutinin by Bordetella bronchiseptica. Bioprocess and Biosystems Engineering, 2014, 37, 115-123. | 3.4 | 1 |
| 96 | In vivo interpretation of model predicted inhibition in acrylate pathway engineered Lactococcus lactis. Biotechnology and Bioengineering, 2020, 117, 3785-3798. | 3.3 | 1 |
| 97 | Bioprocessing Research. Applied Biochemistry and Biotechnology, 2003, 106, 317-318. | 2.9 | 0 |