# Saravanan prabhu Nadarajan

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8822968/publications.pdf

Version: 2024-02-01

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|---|---|---|---|
| 44 papers | 1,638 citations | 331538 21 h-index | 302012 39 g-index |
| 46 all docs | 46 docs citations | 46 times ranked | 1512 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Ï‰-Transaminases for the Production of Optically Pure Amines and Unnatural Amino Acids. ACS Catalysis, 2012, 2, 993-1001. | 5.5 | 264 |
| 2 | Oxidoreductase-Catalyzed Synthesis of Chiral Amines. ACS Catalysis, 2018, 8, 10985-11015. | 5.5 | 150 |
| 3 | Recent Advances in Ï‰-Transaminase-Mediated Biocatalysis for the Enantioselective Synthesis of Chiral Amines. Catalysts, 2018, 8, 254. | 1.6 | 139 |
| 4 | Unnatural amino acid mutagenesis-based enzyme engineering. Trends in Biotechnology, 2015, 33, 462-470. | 4.9 | 66 |
| 5 | Biochemical characterization of thermostable Ï‰-transaminase from Sphaerobacter thermophilus and its application for producing aromatic Î²- and Î³-amino acids. Enzyme and Microbial Technology, 2016, 87-88, 52-60. | 1.6 | 64 |
| 6 | Recent Advances in Biocatalysis with Chemical Modification and Expanded Amino Acid Alphabet. Chemical Reviews, 2021, 121, 6173-6245. | 23.0 | 62 |
| 7 | Fungal cytochrome P450 monooxygenases of Fusarium oxysporum for the synthesis of Ï‰-hydroxy fatty acids in engineered Saccharomyces cerevisiae. Microbial Cell Factories, 2015, 14, 45. | 1.9 | 56 |
| 8 | Bioconjugation of <scp>l</scp>-3,4-Dihydroxyphenylalanine Containing Protein with a Polysaccharide. Bioconjugate Chemistry, 2011, 22, 551-555. | 1.8 | 49 |
| 9 | Incorporating unnatural amino acids to engineer biocatalysts for industrial bioprocess applications. Biotechnology Journal, 2015, 10, 1862-1876. | 1.8 | 43 |
| 10 | Deracemization of Racemic Amines to Enantiopure (R)â€•and (S)â€amines by Biocatalytic Cascade Employing Ï‰â€Transaminase and Amine Dehydrogenase. ChemCatChem, 2019, 11, 1898-1902. | 1.8 | 42 |
| 11 | Enhancing Thermostability and Organic Solvent Tolerance of Ï‰â€Transaminase through Global Incorporation of Fluorotyrosine. Advanced Synthesis and Catalysis, 2014, 356, 993-998. | 2.1 | 40 |
| 12 | Engineering Transaminase for Stability Enhancement and Siteâ€Specific Immobilization through Multiple Noncanonical Amino Acids Incorporation. ChemCatChem, 2015, 7, 417-421. | 1.8 | 40 |
| 13 | Parallel anti-sense two-step cascade for alcohol amination leading to Ï‰-amino fatty acids and Î±,Ï‰-diamines. Green Chemistry, 2018, 20, 4591-4595. | 4.6 | 38 |
| 14 | Biosynthesis of Medium- to Long-Chain Î±,Ï‰-Diols from Free Fatty Acids Using CYP153A Monooxygenase, Carboxylic Acid Reductase, and E. coli Endogenous Aldehyde Reductases. Catalysts, 2018, 8, 4. | 1.6 | 35 |
| 15 | Enzymatic synthesis of sitagliptin intermediate using a novel Ï‰-transaminase. Enzyme and Microbial Technology, 2019, 120, 52-60. | 1.6 | 34 |
| 16 | Production of chiral Î²-amino acids using Ï‰-transaminase from Burkholderia graminis. Journal of Biotechnology, 2015, 196-197, 1-8. | 1.9 | 33 |
| 17 | Biosynthesis of the Nylon 12 Monomer, Ï‰â€Aminododecanoic Acid with Novel CYP153A, AlkJ, and Ï‰â€TA Enzymes. Biotechnology Journal, 2018, 13, e1700562. | 1.8 | 33 |
| 18 | A New-Generation Fluorescent-Based Metal Sensor â€“ iLOV Protein. Journal of Microbiology and Biotechnology, 2015, 25, 503-510. | 0.9 | 25 |

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|---|---|---|---|
| 19 | A facile and efficient method for the incorporation of multiple unnatural amino acids into a single protein. Chemical Communications, 2011, 47, 3430. | 2.2 | 24 |
| 20 | Biotransformation of Î²-keto nitriles to chiral (S)-Î²-amino acids using nitrilase and Ï‰-transaminase. Biotechnology Letters, 2017, 39, 535-543. | 1.1 | 24 |
| 21 | Engineering an FMN-based iLOV protein for the detection of arsenic ions. Analytical Biochemistry, 2017, 525, 38-43. | 1.1 | 22 |
| 22 | FMN-Based Fluorescent Proteins as Heavy Metal Sensors Against Mercury Ions. Journal of Microbiology and Biotechnology, 2016, 26, 530-539. | 0.9 | 21 |
| 23 | Construction of a high efficiency copper adsorption bacterial system via peptide display and its application on copper dye polluted wastewater. Bioprocess and Biosystems Engineering, 2015, 38, 2077-2084. | 1.7 | 20 |
| 24 | An Integrated Cofactor/Coâ€Product Recycling Cascade for theâ€‰Biosynthesis of Nylon Monomers from Cycloalkylamines. Angewandte Chemie - International Edition, 2021, 60, 3481-3486. | 7.2 | 19 |
| 25 | One-pot biocatalytic synthesis of nylon monomers from cyclohexanol usingEscherichia coli-based concurrent cascade consortia. Green Chemistry, 2021, 23, 9447-9453. | 4.6 | 19 |
| 26 | Enhancing the biophysical properties of mRFP1 through incorporation of fluoroproline. Biochemical and Biophysical Research Communications, 2013, 440, 509-514. | 1.0 | 18 |
| 27 | Biosynthetic substitution of tyrosine in green fluorescent protein with its surrogate fluorotyrosine in Escherichia coli. Biotechnology Letters, 2011, 33, 2201-2207. | 1.1 | 17 |
| 28 | Temperature sensing using red fluorescent protein. Biotechnology and Bioprocess Engineering, 2015, 20, 67-72. | 1.4 | 17 |
| 29 | Multi-enzymatic cascade reactions with Escherichia coli-based modules for synthesizing various bioplastic monomers from fatty acid methyl esters. Green Chemistry, 2022, 24, 2222-2231. | 4.6 | 17 |
| 30 | Manganese and cobalt recovery by surface display of metal binding peptide on various loops of OmpC in Escherichia coli. Journal of Industrial Microbiology and Biotechnology, 2018, 45, 31-41. | 1.4 | 16 |
| 31 | Glutamate as an Efficient Amine Donor for the Synthesis of Chiral Î²â€•and Î³â€Amino Acids Using Transaminase. ChemCatChem, 2019, 11, 1437-1440. | 1.8 | 16 |
| 32 | Kinetic Resolution of Racemic Amines to Enantiopure (S)-amines by a Biocatalytic Cascade Employing Amine Dehydrogenase and Alanine Dehydrogenase. Catalysts, 2019, 9, 600. | 1.6 | 15 |
| 33 | Evaluation and biosynthetic incorporation of chlorotyrosine into recombinant proteins. Biotechnology and Bioprocess Engineering, 2012, 17, 679-686. | 1.4 | 14 |
| 34 | Protein engineering for covalent immobilization and enhanced stability through incorporation of multiple noncanonical amino acids. Biotechnology and Bioprocess Engineering, 2017, 22, 248-255. | 1.4 | 14 |
| 35 | Engineering lead-sensing GFP through rational designing. Chemical Communications, 2014, 50, 15979-15982. | 2.2 | 13 |
| 36 | Bacterial synthesis of four hydroxycinnamic acids. Applied Biological Chemistry, 2016, 59, 173-179. | 0.7 | 12 |

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| 37 | Evaluating the role of puckering and fluorine atom in stability and folding of fluoroproline containing proteins. Biotechnology and Bioprocess Engineering, 2017, 22, 504-511. | 1.4 | 9 |
| 38 | In vivo biosynthesis of tyrosine analogs and their concurrent incorporation into a residue-specific manner for enzyme engineering. Chemical Communications, 2019, 55, 15133-15136. | 2.2 | 9 |
| 39 | Synthesis of Sitagliptin Intermediate by a Multi-Enzymatic Cascade System Using Lipase and Transaminase With Benzylamine as an Amino Donor. Frontiers in Bioengineering and Biotechnology, 2021, 9, 757062. | 2.0 | 9 |
| 40 | Non-Canonical Amino Acid-Based Engineering of (R)-Amine Transaminase. Frontiers in Chemistry, 2022, 10, 839636. | 1.8 | 9 |
| 41 | Rewriting the Metabolic Blueprint: Advances in Pathway Diversification in Microorganisms. Frontiers in Microbiology, 2018, 9, 155. | 1.5 | 8 |
| 42 | Enzymatic Synthesis of Aliphatic Primary Ï‰-Amino Alcohols from Ï‰-Amino Fatty Acids by Carboxylic Acid Reductase. Catalysis Letters, 2020, 150, 3079-3085. | 1.4 | 8 |
| 43 | An in silico approach to evaluate the polyspecificity of methionyl-tRNA synthetases. Journal of Molecular Graphics and Modelling, 2013, 39, 79-86. | 1.3 | 6 |
| 44 | An Integrated Cofactor/Coâ€Product Recycling Cascade for theâ€‰Biosynthesis of Nylon Monomers from Cycloalkylamines. Angewandte Chemie, 2021, 133, 3523-3528. | 1.6 | 6 |