List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Flavoprotein monooxygenases, a diverse class of oxidative biocatalysts. Journal of Biotechnology, 2006, 124, 670-689. | 3.8 | 611 |
| 2 | Cascade Reactions in Multicompartmentalized Polymersomes. Angewandte Chemie - International Edition, 2014, 53, 146-150. | 13.8 | 463 |
| 3 | Flavoenzymes: diverse catalysts with recurrent features. Trends in Biochemical Sciences, 2000, 25, 126-132. | 7.5 | 446 |
| 4 | Bacterial enzymes involved in lignin degradation. Journal of Biotechnology, 2016, 236, 110-119. | 3.8 | 411 |
| 5 | The possible role of matrix metalloproteinase (MMP)-2 and MMP-9 in cancer, e.g. acute leukemia. Critical Reviews in Oncology/Hematology, 2004, 50, 87-100. | 4.4 | 308 |
| 6 | Same Substrate, Many Reactions: Oxygen Activation in Flavoenzymes. Chemical Reviews, 2018, 118, 1742-1769. | 47.7 | 306 |
| 7 | Crystal structure of a Baeyer-Villiger monooxygenase. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 13157-13162. | 7.1 | 267 |
| 8 | Enzymeâ€Catalyzed Oxidation of 5â€Hydroxymethylfurfural to Furanâ€2,5â€dicarboxylic Acid. Angewandte Chemie - International Edition, 2014, 53, 6515-6518. | 13.8 | 259 |
| 9 | Discovery of a thermostable Baeyer–Villiger monooxygenase by genome mining. Applied Microbiology and Biotechnology, 2005, 66, 393-400. | 3.6 | 238 |
| 10 | Monooxygenases as biocatalysts: Classification, mechanistic aspects and biotechnological applications. Journal of Biotechnology, 2010, 146, 9-24. | 3.8 | 227 |
| 11 | Decorating microbes: surface display of proteins on Escherichia coli. Trends in Biotechnology, 2011, 29, 79-86. | 9.3 | 198 |
| 12 | Identification of a Baeyer-Villiger monooxygenase sequence motif. FEBS Letters, 2002, 518, 43-47. | 2.8 | 193 |
| 13 | The enigmatic reaction of flavins with oxygen. Trends in Biochemical Sciences, 2012, 37, 373-380. | 7.5 | 193 |
| 14 | Recent Developments in the Application of Baeyer–Villiger Monooxygenases as Biocatalysts. ChemBioChem, 2010, 11, 2208-2231. | 2.6 | 189 |
| 15 | A robust and extracellular heme-containing peroxidase from Thermobifida fusca as prototype of a bacterial peroxidase superfamily. Applied Microbiology and Biotechnology, 2010, 86, 1419-1430. | 3.6 | 168 |
| 16 | DyP-type peroxidases: a promising and versatile class of enzymes. Journal of Industrial Microbiology and Biotechnology, 2014, 41, 1-7. | 3.0 | 166 |
| 17 | Risk assessment studies on succinate dehydrogenase inhibitors, the new weapons in the battle to control Septoria leaf blotch in wheat. Molecular Plant Pathology, 2012, 13, 263-275. | 4.2 | 162 |
| 18 | Multiple pathways guide oxygen diffusion into flavoenzyme active sites. Proceedings of the National Academy of Sciences of the United States of America. 2009. 106. 10603-10608. | 7.1 | 157 |

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|----|---|------|-----------|
| 19 | A rapid quantitative activity assay shows that the <i>Vibrio cholerae</i> colonization factor GbpA is an active lytic polysaccharide monooxygenase. FEBS Letters, 2014, 588, 3435-3440. | 2.8 | 155 |
| 20 | Crystal structures and inhibitor binding in the octameric flavoenzyme vanillyl-alcohol oxidase: the shape of the active-site cavity controls substrate specificity. Structure, 1997, 5, 907-920. | 3.3 | 154 |
| 21 | What's in a covalent bond?. FEBS Journal, 2009, 276, 3405-3427. | 4.7 | 151 |
| 22 | Halohydrin Dehalogenases Are Structurally and Mechanistically Related to Short-Chain Dehydrogenases/Reductases. Journal of Bacteriology, 2001, 183, 5058-5066. | 2.2 | 147 |
| 23 | Baeyer–Villiger monooxygenases: recent advances and future challenges. Current Opinion in Chemical Biology, 2010, 14, 138-144. | 6.1 | 146 |
| 24 | The Prodrug Activator EtaA from Mycobacterium tuberculosis Is a Baeyer-Villiger Monooxygenase. Journal of Biological Chemistry, 2004, 279, 3354-3360. | 3.4 | 143 |
| 25 | A novel oxidoreductase family sharing a conserved FAD-binding domain. Trends in Biochemical Sciences, 1998, 23, 206-207. | 7.5 | 141 |
| 26 | Revealing the moonlighting role of NADP in the structure of a flavin-containing monooxygenase. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 6572-6577. | 7.1 | 134 |
| 27 | Converting Phenylacetone Monooxygenase into Phenylcyclohexanone Monooxygenase by Rational Design: Towards Practical Baeyer-Villiger Monooxygenases. Advanced Synthesis and Catalysis, 2005, 347, 979-986. | 4.3 | 132 |
| 28 | 4-Hydroxyacetophenone monooxygenase fromPseudomonas fluorescensACB. FEBS Journal, 2001, 268, 2547-2557. | 0.2 | 131 |
| 29 | Flavoprotein oxidases: classification and applications. Applied Microbiology and Biotechnology, 2013, 97, 5177-5188. | 3.6 | 123 |
| 30 | Selfâ€Sufficient Baeyer–Villiger Monooxygenases: Effective Coenzyme Regeneration for Biooxygenation by Fusion Engineering. Angewandte Chemie - International Edition, 2008, 47, 2275-2278. | 13.8 | 122 |
| 31 | Discovery and Characterization of a 5-Hydroxymethylfurfural Oxidase from Methylovorus sp. Strain MP688. Applied and Environmental Microbiology, 2014, 80, 1082-1090. | 3.1 | 122 |
| 32 | Reduction of Carbonâ^'Carbon Double Bonds Using Organocatalytically Generated Diimide. Journal of Organic Chemistry, 2008, 73, 9482-9485. | 3.2 | 117 |
| 33 | Crystal structures and atomic model of NADPH oxidase. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 6764-6769. | 7.1 | 117 |
| 34 | Snapshots of Enzymatic Baeyer-Villiger Catalysis. Journal of Biological Chemistry, 2011, 286, 29284-29291. | 3.4 | 116 |
| 35 | A Highly Specific Mechanism of Histone H3-K4 Recognition by Histone Demethylase LSD1. Journal of Biological Chemistry, 2006, 281, 35289-35295. | 3.4 | 115 |
| 36 | Substrate Specificity and Enantioselectivity of 4-Hydroxyacetophenone Monooxygenase. Applied and Environmental Microbiology, 2003, 69, 419-426. | 3.1 | 111 |

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|----|--|------|-----------|
| 37 | Discovery of a Novel Styrene Monooxygenase Originating from the Metagenome. Applied and Environmental Microbiology, 2007, 73, 5832-5839. | 3.1 | 111 |
| 38 | Covalent Flavinylation Is Essential for Efficient Redox Catalysis in Vanillyl-alcohol Oxidase. Journal of Biological Chemistry, 1999, 274, 35514-35520. | 3.4 | 108 |
| 39 | Baeyer–Villiger Monooxygenases: Tunable Oxidative Biocatalysts. ACS Catalysis, 2019, 9, 11207-11241. | 11.2 | 108 |
| 40 | The growing VAO flavoprotein family. Archives of Biochemistry and Biophysics, 2008, 474, 292-301. | 3.0 | 107 |
| 41 | Recent Developments in Flavinâ€based Catalysis. ChemCatChem, 2013, 5, 403-415. | 3.7 | 100 |
| 42 | The taming of oxygen: biocatalytic oxyfunctionalisations. Chemical Communications, 2014, 50, 13180-13200. | 4.1 | 99 |
| 43 | Altering the Substrate Specificity and Enantioselectivity of Phenylacetone Monooxygenase by Structure-Inspired Enzyme Redesign. Advanced Synthesis and Catalysis, 2007, 349, 1361-1368. | 4.3 | 97 |
| 44 | Enzyme Fusions in Biocatalysis: Coupling Reactions by Pairing Enzymes. ChemBioChem, 2019, 20, 20-28. | 2.6 | 97 |
| 45 | Efficient Biooxidations Catalyzed by a New Generation of Selfâ€Sufficient Baeyer–Villiger Monooxygenases. ChemBioChem, 2009, 10, 2595-2598. | 2.6 | 96 |
| 46 | Characterization and Crystal Structure of a Robust Cyclohexanone Monooxygenase. Angewandte Chemie - International Edition, 2016, 55, 15852-15855. | 13.8 | 92 |
| 47 | Structure-Based Enzyme Tailoring of 5-Hydroxymethylfurfural Oxidase. ACS Catalysis, 2015, 5, 1833-1839. | 11.2 | 91 |
| 48 | Substrate Specificity of Flavin-Dependent Vanillyl-Alcohol Oxidase from Penicillium Simplicissimum. Evidence for the Production of 4-Hydroxycinnamyl Alcohols from 4-Allylphenols. FEBS Journal, 1995, 234, 271-277. | 0.2 | 89 |
| 49 | Oxidations catalyzed by phenylacetone monooxygenase from Thermobifida fusca. Tetrahedron: Asymmetry, 2005, 16, 3077-3083. | 1.8 | 89 |
| 50 | Kinetic Mechanism of Phenylacetone Monooxygenase fromThermobifida fuscaâ€. Biochemistry, 2008, 47, 4082-4093. | 2.5 | 89 |
| 51 | Occurrence and Biocatalytic Potential of Carbohydrate Oxidases. Advances in Applied Microbiology, 2006, 60, 17-54. | 2.4 | 87 |
| 52 | Identification of a Gatekeeper Residue That Prevents Dehydrogenases from Acting as Oxidases. Journal of Biological Chemistry, 2009, 284, 4392-4397. | 3.4 | 83 |
| 53 | Biocatalytic properties of Baeyer–Villiger monooxygenases in aqueous–organic media. Journal of Molecular Catalysis B: Enzymatic, 2006, 39, 91-97. | 1.8 | 80 |
| 54 | Catalytic Mechanism of the Oxidative Demethylation of 4-(Methoxymethyl)phenol by Vanillyl-Alcohol Oxidase. Journal of Biological Chemistry, 1997, 272, 18111-18116. | 3.4 | 79 |

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| 55 | 4-Hydroxyacetophenone monooxygenase from Pseudomonas fluorescens ACB as an oxidative biocatalyst in the synthesis of optically active sulfoxides. Tetrahedron: Asymmetry, 2006, 17, 130-135. | 1.8 | 78 |
| 56 | Enzymatic Synthesis of Vanillin. Journal of Agricultural and Food Chemistry, 2001, 49, 2954-2958. | 5.2 | 76 |
| 57 | Inversion of stereospecificity of vanillyl-alcohol oxidase. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 9455-9460. | 7.1 | 74 |
| 58 | Structures of Michaelis and Product Complexes of Plant Cytokinin Dehydrogenase: Implications for Flavoenzyme Catalysis. Journal of Molecular Biology, 2004, 341, 1237-1249. | 4.2 | 73 |
| 59 | Discovery, Characterization, and Kinetic Analysis of an Alditol Oxidase from Streptomyces coelicolor*. Journal of Biological Chemistry, 2007, 282, 20283-20291. | 3.4 | 72 |
| 60 | Catalytic reaction of cytokinin dehydrogenase: preference for quinones as electron acceptors. Biochemical Journal, 2004, 380, 121-130. | 3.7 | 70 |
| 61 | Expanding the set of rhodococcal Baeyer–Villiger monooxygenases by high-throughput cloning, expression and substrate screening. Applied Microbiology and Biotechnology, 2012, 95, 1479-1489. | 3.6 | 66 |
| 62 | Identifying determinants of NADPH specificity in Baeyer-Villiger monooxygenases. FEBS Journal, 2004, 271, 2107-2116. | 0.2 | 65 |
| 63 | Structural Analysis of the Catalytic Mechanism and Stereoselectivity in <i>Streptomyces coelicolor</i> Alditol Oxidase [,] . Biochemistry, 2008, 47, 978-985. | 2.5 | 65 |
| 64 | Structural Analysis of Flavinylation in Vanillyl-Alcohol Oxidase. Journal of Biological Chemistry, 2000, 275, 38654-38658. | 3.4 | 63 |
| 65 | From waste to value – direct utilization of limonene from orange peel in a biocatalytic cascade reaction towards chiral carvolactone. Green Chemistry, 2017, 19, 367-371. | 9.0 | 63 |
| 66 | An overview of microbial indigo-forming enzymes. Applied Microbiology and Biotechnology, 2020, 104, 925-933. | 3.6 | 63 |
| 67 | Enzymatic Synthesis of Novel Chiral Sulfoxides Employing Baeyer–Villiger Monooxygenases. European Journal of Organic Chemistry, 2010, 2010, 6409-6416. | 2.4 | 62 |
| 68 | Blending Baeyer–Villiger monooxygenases: using a robust BVMO as a scaffold for creating chimeric enzymes with novel catalytic properties. Chemical Communications, 2012, 48, 3288. | 4.1 | 61 |
| 69 | Stabilization of cyclohexanone monooxygenase by a computationally designed disulfide bond spanning only one residue. FEBS Open Bio, 2014, 4, 168-174. | 2.3 | 59 |
| 70 | A fast, sensitive and easy colorimetric assay for chitinase and cellulase activity detection. Biotechnology for Biofuels, 2014, 7, 37. | 6.2 | 59 |
| 71 | Enzymatic kinetic resolution of racemic ketones catalyzed by Baeyer–Villiger monooxygenases. Tetrahedron: Asymmetry, 2007, 18, 1338-1344. | 1.8 | 56 |
| 72 | Synthesis of Chiral 3-Alkyl-3,4-dihydroisocoumarins by Dynamic Kinetic Resolutions Catalyzed by a Baeyerâ^'Villiger Monooxygenase. Journal of Organic Chemistry, 2010, 75, 2073-2076. | 3.2 | 55 |

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| 73 | Coupled reactions by coupled enzymes: alcohol to lactone cascade with alcohol dehydrogenase–cyclohexanone monooxygenase fusions. Applied Microbiology and Biotechnology, 2017, 101, 7557-7565. | 3.6 | 55 |
| 74 | Flavoenzyme-Catalyzed Oxygenations and Oxidations of Phenolic Compounds. Advanced Synthesis and Catalysis, 2002, 344, 1023-1035. | 4.3 | 54 |
| 75 | Discovery of a eugenol oxidase from Rhodococcus sp. strain RHA1. FEBS Journal, 2007, 274, 2311-2321. | 4.7 | 54 |
| 76 | Cofactor regeneration in polymersome nanoreactors: enzymatically catalysed Baeyer–Villiger reactions. Journal of Materials Chemistry, 2011, 21, 18923. | 6.7 | 54 |
| 77 | Polycyclic Ketone Monooxygenase from the Thermophilic Fungus <i>Thermothelomyces thermophila</i> : A Structurally Distinct Biocatalyst for Bulky Substrates. Journal of the American Chemical Society, 2017, 139, 627-630. | 13.7 | 54 |
| 78 | Ancestral-sequence reconstruction unveils the structural basis of function in mammalian FMOs. Nature Structural and Molecular Biology, 2020, 27, 14-24. | 8.2 | 54 |
| 79 | Elucidation of the 4-Hydroxyacetophenone Catabolic Pathway in Pseudomonas fluorescens ACB. Journal of Bacteriology, 2008, 190, 5190-5198. | 2.2 | 53 |
| 80 | Hydroquinone Dioxygenase from <i>Pseudomonas fluorescens</i> ACB: a Novel Member of the Family of Nonheme-Iron(II)-Dependent Dioxygenases. Journal of Bacteriology, 2008, 190, 5199-5209. | 2.2 | 53 |
| 81 | The role of double covalent flavin binding in chito-oligosaccharide oxidase from <i>Fusarium graminearum</i> . Biochemical Journal, 2008, 413, 175-183. | 3.7 | 51 |
| 82 | Exploring the biocatalytic scope of a bacterial flavin-containing monooxygenase. Organic and Biomolecular Chemistry, 2011, 9, 1337. | 2.8 | 50 |
| 83 | [Cp*Rh(bpy)(H2O)]2+ as a coenzyme substitute in enzymatic oxidations catalyzed by Baeyer–Villiger monooxygenases. Chemical Communications, 2005, , 3724. | 4.1 | 48 |
| 84 | Molecular Cloning, Sequencing, and Heterologous Expression of the vaoA Gene from Penicillium simplicissimum CBS 170.90 Encoding Vanillyl-Alcohol Oxidase. Journal of Biological Chemistry, 1998, 273, 7865-7872. | 3.4 | 47 |
| 85 | Expanding the biocatalytic toolbox of flavoprotein monooxygenases from Rhodococcus jostii RHA1. Journal of Molecular Catalysis B: Enzymatic, 2013, 88, 20-25. | 1.8 | 47 |
| 86 | Catalases as biocatalysts in technical applications: current state and perspectives. Applied Microbiology and Biotechnology, 2015, 99, 3351-3357. | 3.6 | 46 |
| 87 | Selective Baeyer–Villiger oxidation of racemic ketones in aqueous–organic media catalyzed by phenylacetone monooxygenase. Tetrahedron: Asymmetry, 2008, 19, 197-203. | 1.8 | 45 |
| 88 | Biocatalysed concurrent production of enantioenriched compounds through parallel interconnected kinetic asymmetric transformations. Organic and Biomolecular Chemistry, 2010, 8, 1431. | 2.8 | 44 |
| 89 | Effects of water miscible organic solvents on the activity and conformation of the baeyer–villiger monooxygenases from <i>Thermobifida fusca</i> and <i>Acinetobacter calcoaceticus</i> : A comparative study. Biotechnology and Bioengineering, 2011, 108, 491-499. | 3.3 | 44 |
| 90 | Exploring the Structural Basis of Substrate Preferences in Baeyer-Villiger Monooxygenases. Journal of Biological Chemistry, 2012, 287, 22626-22634. | 3.4 | 44 |

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| 91 | Overriding Traditional Electronic Effects in Biocatalytic Baeyer–Villiger Reactions by Directed Evolution. Journal of the American Chemical Society, 2018, 140, 10464-10472. | 13.7 | 43 |
| 92 | Creating a more robust 5-hydroxymethylfurfural oxidase by combining computational predictions with a novel effective library design. Biotechnology for Biofuels, 2018, 11, 56. | 6.2 | 43 |
| 93 | Enigmatic Gratuitous Induction of the Covalent Flavoprotein Vanillyl-Alcohol Oxidase in Penicillium simplicissimum. Applied and Environmental Microbiology, 1997, 63, 435-439. | 3.1 | 43 |
| 94 | Oxidoreductases Working Together: Concurrent Obtaining of Valuable Derivatives by Employing the PIKAT Method. ChemCatChem, 2010, 2, 946-949. | 3.7 | 42 |
| 95 | Joint Functions of Protein Residues and NADP(H) in Oxygen Activation by Flavin-containing Monooxygenase. Journal of Biological Chemistry, 2010, 285, 35021-35028. | 3.4 | 42 |
| 96 | Mapping the Substrate Binding Site of Phenylacetone Monooxygenase from Thermobifida fusca by Mutational Analysis. Applied and Environmental Microbiology, 2011, 77, 5730-5738. | 3.1 | 42 |
| 97 | Exploring the Biocatalytic Scope of Alditol Oxidase from <i>Streptomyces coelicolor</i> . Advanced Synthesis and Catalysis, 2009, 351, 1523-1530. | 4.3 | 41 |
| 98 | Finding the Switch: Turning a Baeyer–Villiger Monooxygenase into a NADPH Oxidase. Journal of the American Chemical Society, 2014, 136, 16966-16969. | 13.7 | 41 |
| 99 | Regio- and Stereospecific Conversion of 4-Alkylphenols by the Covalent Flavoprotein Vanillyl-Alcohol Oxidase. Journal of Bacteriology, 1998, 180, 5646-5651. | 2.2 | 41 |
| 100 | The VAO/PCMH flavoprotein family. Archives of Biochemistry and Biophysics, 2017, 632, 104-117. | 3.0 | 40 |
| 101 | Asp-170 Is Crucial for the Redox Properties of Vanillyl-alcohol Oxidase. Journal of Biological Chemistry, 2000, 275, 14799-14808. | 3.4 | 37 |
| 102 | Changing the substrate specificity of a chitooligosaccharide oxidase from <i>Fusarium graminearum</i> by modelâ€inspired siteâ€directed mutagenesis. FEBS Letters, 2007, 581, 4905-4909. | 2.8 | 37 |
| 103 | Discovery and characterization of a putrescine oxidase from Rhodococcus erythropolis NCIMB 11540. Applied Microbiology and Biotechnology, 2008, 78, 455-463. | 3.6 | 36 |
| 104 | Investigating the coenzyme specificity of phenylacetone monooxygenase from Thermobifida fusca. Applied Microbiology and Biotechnology, 2010, 88, 1135-1143. | 3.6 | 36 |
| 105 | Turning a riboflavin-binding protein into a self-sufficient monooxygenase by cofactor redesign. Chemical Communications, 2011, 47, 11050. | 4.1 | 36 |
| 106 | Covalent flavinylation of vanillylâ€alcohol oxidase is an autocatalytic process. FEBS Journal, 2008, 275, 5191-5200. | 4.7 | 35 |
| 107 | Enzymatic Baeyer–Villiger Oxidation of Benzoâ€Fused Ketones: Formation of Regiocomplementary Lactones. European Journal of Organic Chemistry, 2009, 2009, 2526-2532. | 2.4 | 35 |
| 108 | Extensive substrate profiling of cyclopentadecanone monooxygenase as Baeyer–Villiger biocatalyst reveals novel regiodivergent oxidations. Journal of Molecular Catalysis B: Enzymatic, 2011, 73, 9-16. | 1.8 | 35 |

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| 109 | Dynamic Kinetic Resolution of αâ€&ubstituted βâ€Ketoesters Catalyzed by Baeyer–Villiger Monooxygenases: Access to Enantiopure αâ€Hydroxy Esters. Angewandte Chemie - International Edition, 2011, 50, 8387-8390. | 13.8 | 35 |
| 110 | Extending the substrate scope of a Baeyer–Villiger monooxygenase by multiple-site mutagenesis. Applied Microbiology and Biotechnology, 2014, 98, 4009-4020. | 3.6 | 35 |
| 111 | Exploring the biocatalytic potential of a DyP-type peroxidase by profiling the substrate acceptance of Thermobifida fusca DyP peroxidase. Tetrahedron, 2016, 72, 7276-7281. | 1.9 | 35 |
| 112 | Enantioselective hydroxylation of 4-alkylphenols by vanillyl alcohol oxidase. , 1998, 59, 171-177. | | 34 |
| 113 | Biooxidation of ketones with a cyclobutanone structural motif by recombinant whole-cells expressing 4-hydroxyacetophenone monooxygenase. Journal of Molecular Catalysis B: Enzymatic, 2005, 32, 135-140. | 1.8 | 34 |
| 114 | BVMO-catalysed dynamic kinetic resolution of racemic benzyl ketones in the presence of anion exchange resins. Organic and Biomolecular Chemistry, 2010, 8, 1121. | 2.8 | 34 |
| 115 | Typeâ€II Flavinâ€Containing Monooxygenases: A New Class of Biocatalysts that Harbors Baeyer–Villiger Monooxygenases with a Relaxed Coenzyme Specificity. ChemCatChem, 2014, 6, 1112-1117. | 3.7 | 34 |
| 116 | Enzymatic Synthesis of Enantiomerically Pure βâ€Amino Ketones, βâ€Amino Esters, and βâ€Amino Alcohols with Baeyer–Villiger Monooxygenases. Chemistry - A European Journal, 2010, 16, 9525-9535. | 3.3 | 33 |
| 117 | Structure of a robust bacterial protein cage and its application as a versatile biocatalytic platform through enzyme encapsulation. Biochemical and Biophysical Research Communications, 2020, 529, 548-553. | 2.1 | 33 |
| 118 | Approaching boiling point stability of an alcohol dehydrogenase through computationally-guided enzyme engineering. ELife, 2020, 9, . | 6.0 | 33 |
| 119 | Cloning, overexpression and biocatalytic exploration of a novel Baeyer-Villiger monooxygenase from Aspergillus fumigatus Af293. AMB Express, 2013, 3, 33. | 3.0 | 32 |
| 120 | Baeyer–Villiger Monooxygenase FMO5 as Entry Point in Drug Metabolism. ACS Chemical Biology, 2017, 12, 2379-2387. | 3.4 | 32 |
| 121 | Kinetic mechanism of vanillyl-alcohol oxidase with short-chain 4-alkylphenols. FEBS Journal, 1998, 253, 712-719. | 0.2 | 31 |
| 122 | Alkyl-dihydroxyacetonephosphate Synthase. Journal of Biological Chemistry, 2000, 275, 6276-6283. | 3.4 | 31 |
| 123 | Coenzyme Binding during Catalysis Is Beneficial for the Stability of 4-Hydroxyacetophenone Monooxygenase. Journal of Biological Chemistry, 2005, 280, 32115-32121. | 3.4 | 31 |
| 124 | Baeyer–Villiger monooxygenase-catalyzed kinetic resolution of racemic α-alkyl benzyl ketones: enzymatic synthesis of α-alkyl benzylketones and α-alkyl benzylesters. Tetrahedron: Asymmetry, 2009, 20, 1168-1173. | 1.8 | 30 |
| 125 | Manipulating the stereoselectivity of the thermostable Baeyer–Villiger monooxygenase TmCHMO by directed evolution. Organic and Biomolecular Chemistry, 2017, 15, 9824-9829. | 2.8 | 30 |
| 126 | Vanillyl-alcohol oxidase, a tasteful biocatalyst. Journal of Molecular Catalysis B: Enzymatic, 2001, 11, 185-188. | 1.8 | 29 |

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| 127 | Biocatalytic Properties and Structural Analysis of Eugenol Oxidase from <i>Rhodococcus jostii</i> RHA1: A Versatile Oxidative Biocatalyst. ChemBioChem, 2016, 17, 1359-1366. | 2.6 | 29 |
| 128 | Enantio- and regioselective <i>ene</i> -reductions using F ₄₂₀ H ₂ -dependent enzymes. Chemical Communications, 2018, 54, 11208-11211. | 4.1 | 29 |
| 129 | Characterization of a New DyP-Peroxidase from the Alkaliphilic Cellulomonad, Cellulomonas bogoriensis. Molecules, 2019, 24, 1208. | 3.8 | 29 |
| 130 | Production of Hydroxy Acids: Selective Double Oxidation of Diols by Flavoprotein Alcohol Oxidase. Angewandte Chemie - International Edition, 2020, 59, 4869-4872. | 13.8 | 29 |
| 131 | Discovery and characterization of an F420-dependent glucose-6-phosphate dehydrogenase (Rh-FGD1) from Rhodococcus jostii RHA1. Applied Microbiology and Biotechnology, 2017, 101, 2831-2842. | 3.6 | 28 |
| 132 | Nicotinamide Adenine Dinucleotideâ€Dependent Redoxâ€Neutral Convergent Cascade for Lactonizations with Type II Flavin ontaining Monooxygenase. Advanced Synthesis and Catalysis, 2017, 359, 2142-2148. | 4.3 | 27 |
| 133 | Discovery of a Xylooligosaccharide Oxidase from Myceliophthora thermophila C1. Journal of Biological Chemistry, 2016, 291, 23709-23718. | 3.4 | 26 |
| 134 | Characterization and Crystal Structure of a Robust Cyclohexanone Monooxygenase. Angewandte Chemie, 2016, 128, 16084-16087. | 2.0 | 26 |
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| 136 | Beyond active site residues: overall structural dynamics control catalysis in flavin-containing and heme-containing monooxygenases. Current Opinion in Structural Biology, 2019, 59, 29-37. | 5.7 | 26 |
| 137 | Kinetic and chemical analyses of the cytokinin dehydrogenase-catalysed reaction: correlations with the crystal structure. Biochemical Journal, 2006, 398, 113-124. | 3.7 | 25 |
| 138 | Export of functional Streptomyces coelicolor alditol oxidase to the periplasm or cell surface of Escherichia coli and its application in whole-cell biocatalysis. Applied Microbiology and Biotechnology, 2009, 83, 679-687. | 3.6 | 25 |
| 139 | Structure-Based Engineering of <i>Phanerochaete chrysosporium</i> Alcohol Oxidase for Enhanced Oxidative Power toward Glycerol. Biochemistry, 2018, 57, 6209-6218. | 2.5 | 25 |
| 140 | Stabilization of cyclohexanone monooxygenase by computational and experimental library design. Biotechnology and Bioengineering, 2019, 116, 2167-2177. | 3.3 | 25 |
| 141 | Selective Oxidations of Organoboron Compounds Catalyzed by Baeyer–Villiger Monooxygenases. Advanced Synthesis and Catalysis, 2011, 353, 2169-2173. | 4.3 | 24 |
| 142 | Discovery of Baeyer–Villiger monooxygenases from photosynthetic eukaryotes. Journal of Molecular Catalysis B: Enzymatic, 2013, 98, 145-154. | 1.8 | 24 |
| 143 | Engineering Cyclohexanone Monooxygenase for the Production of Methyl Propanoate. ACS Chemical Biology, 2017, 12, 291-299. | 3.4 | 24 |
| 144 | Creating Oxidase–Peroxidase Fusion Enzymes as a Toolbox for Cascade Reactions. ChemBioChem, 2017, 18, 2226-2230. | 2.6 | 24 |

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| # | Article | IF | CITATIONS |
|-----|--|------|-----------|
| 145 | Design of Artificial Alcohol Oxidases: Alcohol Dehydrogenase–NADPH Oxidase Fusions for Continuous Oxidations. ChemBioChem, 2019, 20, 51-56. | 2.6 | 24 |
| 146 | Polycyclic Ketone Monooxygenase (PockeMO): A Robust Biocatalyst for the Synthesis of Optically Active Sulfoxides. Catalysts, 2017, 7, 288. | 3.5 | 22 |
| 147 | Chemoenzymatic Synthesis of an Unnatural Deazaflavin Cofactor That Can Fuel F ₄₂₀ -Dependent Enzymes. ACS Catalysis, 2019, 9, 6435-6443. | 11.2 | 22 |
| 148 | The vast repertoire of carbohydrate oxidases: An overview. Biotechnology Advances, 2021, 51, 107634. | 11.7 | 22 |
| 149 | Chemoenzymatic approaches to obtain chiral-centered selenium compounds. Tetrahedron, 2012, 68, 10431-10436. | 1.9 | 21 |
| 150 | Characterization of a chitinase from the cellulolytic actinomycete Thermobifida fusca. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2016, 1864, 1253-1259. | 2.3 | 21 |
| 151 | What to sacrifice? Fusions of cofactor regenerating enzymes with Baeyer-Villiger monooxygenases and alcohol dehydrogenases for self-sufficient redox biocatalysis. Tetrahedron, 2019, 75, 1832-1839. | 1.9 | 21 |
| 152 | Positive Impact of Natural Deep Eutectic Solvents on the Biocatalytic Performance of 5-Hydroxymethyl-Furfural Oxidase. Catalysts, 2020, 10, 447. | 3.5 | 21 |
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