Marko D Mihovilovic

List of Publications by Year
in descending order

205 papers	8,576 citations	66234 42 h-index	54797 84 g-index
254 all docs	254 docs citations	254 times ranked	9297 citing authors

#	Article	IF	Citations
1	Discovery and resupply of pharmacologically active plant-derived natural products: A review. Biotechnology Advances, 2015, 33, 1582-1614.	6.0	1,871
2	Opportunities and challenges for combining chemo- and biocatalysis. Nature Catalysis, 2018, 1, 12-22.	16.1	479
3	Cascade catalysis â€“ strategies and challenges en route to preparative synthetic biology. Chemical Communications, 2015, 51, 5798-5811.	2.2	287
4	Crossâ€Coupling Reactions on Azoles with Two and More Heteroatoms. European Journal of Organic Chemistry, 2006, 2006, 3283-3307.	1.2	263
5	Recent Developments in the Application of Baeyerâ€“Villiger Monooxygenases as Biocatalysts. ChemBioChem, 2010, 11, 2208-2231.	1.3	189
6	Halogen dance reactionsâ€”A review. Chemical Society Reviews, 2007, 36, 1046-1057.	18.7	174
7	Facile, solvent and ligand free iron catalyzed direct functionalization of N-protected tetrahydroisoquinolines and isochroman. Chemical Communications, 2010, 46, 8836.	2.2	170
8	Direct Functionalization of (Un)protected Tetrahydroisoquinoline and Isochroman under Iron and Copper Catalysis: Two Metals, Two Mechanisms. Journal of Organic Chemistry, 2011, 76, 8781-8793.	1.7	136
9	Selfâ€Sufficient Baeyerâ€“Villiger Monooxygenases: Effective Coenzyme Regeneration for Biooxygenation by Fusion Engineering. Angewandte Chemie - International Edition, 2008, 47, 2275-2278.	7.2	122
10	Tandem Catalysis: From Alkynoic Acids and Aryl Iodides to 1,2,3-Triazoles in One Pot. Journal of Organic Chemistry, 2011, 76, 2613-2618.	1.7	108
11	Asymmetric oxidations at sulfur catalyzed by engineered strains that overexpress cyclohexanone monooxygenase. New Journal of Chemistry, 1999, 23, 827-832.	1.4	97
12	A marine bacterial enzymatic cascade degrades the algal polysaccharide ulvan. Nature Chemical Biology, 2019, 15, 803-812.	3.9	97
13	Microbial Baeyerâ€“Villiger Oxidation:â€‰ Stereopreference and Substrate Acceptance of Cyclohexanone Monooxygenase Mutants Prepared by Directed Evolution. Organic Letters, 2006, 8, 1221-1224.	2.4	96
14	Efficient Biooxidations Catalyzed by a New Generation of Selfâ€Sufficient Baeyerâ€“Villiger Monooxygenases. ChemBioChem, 2009, 10, 2595-2598.	1.3	96
15	Half-Lives of Organolithium Reagents in Common Ethereal Solvents. Journal of Organic Chemistry, 1997, 62, 1514-1515.	1.7	93
16	Baeyer-Villiger oxidations: biotechnological approach. Applied Microbiology and Biotechnology, 2016, 100, 6585-6599.	1.7	93
17	Asymmetric Baeyerâ€“Villiger Oxidations of 4-Mono- and 4,4-Disubstituted Cyclohexanones by Whole Cells of EngineeredEscherichiacoli. Journal of Organic Chemistry, 2001, 66, 733-738.	1.7	89
18	An Enzymatic Toolbox for Cascade Reactions: A Showcase for an Inâ€…Vivo Redox Sequence in Asymmetric Synthesis. ChemCatChem, 2013, 5, 3524-3528.	1.8	88

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19	Enantioselective Baeyer-Villiger Oxidations. Current Organic Chemistry, 2004, 8, 1057-1069.	0.9	88
20	Family Clustering of Baeyer-Villiger Monooxygenases Based on Protein Sequence and Stereopreference. Angewandte Chemie - International Edition, 2005, 44, 3609-3613.	7.2	83
21	Exploiting the Regioselectivity of Baeyerâ€“Villiger Monooxygenases for the Formation of Î²â€Amino Acids and Î²â€Amino Alcohols. Angewandte Chemie - International Edition, 2010, 49, 4506-4508.	7.2	77
22	Ruthenium(0)-Catalyzed sp³ Câ€“H Bond Arylation of Benzylic Amines Using Arylboronates. Organic Letters, 2012, 14, 1930-1933.	2.4	73
23	Metal-Assisted Multicomponent Reactions Involving Carbon Monoxideâ€”Towards Heterocycle Synthesis. Angewandte Chemie - International Edition, 2007, 46, 3612-3615.	7.2	72
24	From waste to value â€“ direct utilization of limonene from orange peel in a biocatalytic cascade reaction towards chiral carvolactone. Green Chemistry, 2017, 19, 367-371.	4.6	63
25	First enantiodivergent Baeyerâ€“Villiger oxidation by recombinant whole-Cells expressing two monooxygenases from Brevibacterium. Bioorganic and Medicinal Chemistry Letters, 2003, 13, 1479-1482.	1.0	58
26	Microbial Baeyerâ€“Villiger oxidation of terpenones by recombinant whole-cell biocatalystsâ€”formation of enantiocomplementary regioisomeric lactones. Organic and Biomolecular Chemistry, 2007, 5, 1715-1719.	1.5	57
27	Baker's Yeast-Mediated Reductions of Î±-Keto Esters and an Î±-Keto-Î²-Lactam. Two Routes to the Paclitaxel Side Chain. Journal of Organic Chemistry, 1999, 64, 6603-6608.	1.7	55
28	Efficient Modulation of Î³-Aminobutyric Acid Type A Receptors by Piperine Derivatives. Journal of Medicinal Chemistry, 2014, 57, 5602-5619.	2.9	54
29	Baeyer-Villiger oxidations of representative heterocyclic ketones by whole cells of engineered Escherichia coli expressing cyclohexanone monooxygenase. Journal of Molecular Catalysis B: Enzymatic, 2001, 11, 349-353.	1.8	53
30	Functionalization of Saturated and Unsaturated Heterocycles via Transition Metal Catalyzed C-H Activation Reactions. Current Organic Chemistry, 2011, 15, 2694-2730.	0.9	52
31	Stereoselective Desymmetrizations by Recombinant Whole Cells Expressing the Baeyerâ€“Villiger Monooxygenase from Xanthobacter sp. ZL5: A New Biocatalyst Accepting Structurally Demanding Substrates. European Journal of Organic Chemistry, 2008, 2008, 1203-1213.	1.2	51
32	Single Operation Stereoselective Synthesis of Aerangis Lactones: Combining Continuous Flow Hydrogenation and Biocatalysts in a Chemoenzymatic Sequence. ChemCatChem, 2013, 5, 724-727.	1.8	51
33	Designer Microorganisms for Optimized Redox Cascade Reactions â€“ Challenges and Future Perspectives. Advanced Synthesis and Catalysis, 2015, 357, 1587-1618.	2.1	51
34	Halogenated 2â€˜-Chlorobithiazoles via Pd-Catalyzed Cross-Coupling Reactions. Journal of Organic Chemistry, 2006, 71, 3754-3761.	1.7	50
35	Mechanistic Investigations and Substrate Scope Evaluation of Ruthenium-Catalyzed Direct sp3 Arylation of Benzylic Positions Directed by 3-Substituted Pyridines. Journal of Organic Chemistry, 2013, 78, 658-672.	1.7	48
36	Synthesis of novel pyrazolo[3,4-d]pyrimidine derivatives as potential anti-breast cancer agents. European Journal of Medicinal Chemistry, 2012, 57, 323-328.	2.6	47

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37	Identification of novel positive allosteric modulators and null modulators at the <scp>GABA_A</scp> receptor Î±+Î²â^' interface. British Journal of Pharmacology, 2013, 169, 371-383.	2.7	47
38	Accessing tetrahydrofuran-based natural products by microbial Baeyerâ€"Villiger biooxidation. Chemical Communications, 2006, , 3214-3216.	2.2	46
39	Resolution of fused bicyclic ketones by a recombinant biocatalyst expressing the Baeyerâ€"Villiger monooxygenase gene Rv3049c from Mycobacterium tuberculosis H37Rv. Bioorganic and Medicinal Chemistry Letters, 2006, 16, 4813-4817.	1.0	46
40	Novel and Efficient Access to Phenylamino-pyrimidine Type Protein Kinase C Inhibitors Utilizing a Negishi Cross-Coupling Strategyâ€. Journal of Organic Chemistry, 2005, 70, 5215-5220.	1.7	45
41	Direct Arylation of Benzo[b]furan and Other Benzoâ€Fused Heterocycles. European Journal of Organic Chemistry, 2014, 2014, 8119-8125.	1.2	45
42	Regiodivergent Baeyerâ€"Villiger oxidation of fused ketone substrates by recombinant whole-cells expressing two monooxygenases from Brevibacterium. Tetrahedron Letters, 2004, 45, 2751-2754.	0.7	44
43	Selective Ru(0)-Catalyzed Deuteration of Electron-Rich and Electron-Poor Nitrogen-Containing Heterocycles. Journal of Organic Chemistry, 2012, 77, 4432-4437.	1.7	44
44	Optimizing Fermentation Conditions of RecombinantEscherichia coliExpressing Cyclopentanone Monooxygenase. Organic Process Research and Development, 2006, 10, 599-604.	1.3	43
45	Ruthenium(II)-Catalyzed sp³ Câ€"H Bond Arylation of Benzylic Amines Using Aryl Halides. Organic Letters, 2012, 14, 3792-3795.	2.4	42
46	Regiodivergent Baeyerâ€"Villiger Oxidation of Fused Ketones by Recombinant Wholeâ€Cell Biocatalysts. ChemSusChem, 2008, 1, 143-148.	3.6	41
47	Biochemical characterization of an ulvan lyase from the marine flavobacterium Formosa agariphila KMM 3901T. Applied Microbiology and Biotechnology, 2018, 102, 6987-6996.	1.7	41
48	Design and Synthesis of Novel Deuterated Ligands Functionally Selective for the Î³-Aminobutyric Acid Type A Receptor (GABA_AR) Î±6 Subtype with Improved Metabolic Stability and Enhanced Bioavailability. Journal of Medicinal Chemistry, 2018, 61, 2422-2446.	2.9	40
49	Biooxidation of Bridged Cycloketones Using Baeyerâ^'Villiger Monooxygenases of Various Bacterial Origin. Journal of Organic Chemistry, 2007, 72, 9597-9603.	1.7	38
50	Cellular N-myristoyltransferases play a crucial picornavirus genus-specific role in viral assembly, virion maturation, and infectivity. PLoS Pathogens, 2018, 14, e1007203.	2.1	37
51	Microwave-mediated intramolecular Dielsâ€"Alder cyclization of biodihydroxylated benzoic acid derivatives. Tetrahedron Letters, 2004, 45, 7087-7090.	0.7	36
52	A facile and green synthetic route to boronic acidesters utilizing mechanochemistry. Green Chemistry, 2007, 9, 139-145.	4.6	36
53	Kinetic resolution of aliphatic acyclic Î²-hydroxyketones by recombinant whole-cell Baeyerâ€"Villiger monooxygenasesâ€"Formation of enantiocomplementary regioisomeric esters. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 3739-3743.	1.0	35
54	Extensive substrate profiling of cyclopentadecanone monooxygenase as Baeyerâ€"Villiger biocatalyst reveals novel regiodivergent oxidations. Journal of Molecular Catalysis B: Enzymatic, 2011, 73, 9-16.	1.8	35

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55	In vitro characterization of an enzymatic redox cascade composed of an alcohol dehydrogenase, an enoate reductases and a Baeyerâ€“Villiger monooxygenase. Journal of Biotechnology, 2014, 192, 393-399.	1.9	35
56	Extending the substrate scope of a Baeyerâ€“Villiger monooxygenase by multiple-site mutagenesis. Applied Microbiology and Biotechnology, 2014, 98, 4009-4020.	1.7	35
57	In vitro bloodâ€“brain barrier permeability predictions for GABAA receptor modulating piperine analogs. European Journal of Pharmaceutics and Biopharmaceutics, 2016, 103, 118-126.	2.0	35
58	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
59	Synthesis of Enantiomerically Pure Bicyclo[4.2.0]octanes by Cu-Catalyzed [2+2] Photocycloaddition and Enantiotopos-Differentiating Ring Opening. Angewandte Chemie - International Edition, 2006, 45, 5541-5543.	7.2	34
60	Typeâ€…II Flavinâ€Containing Monooxygenases: A New Class of Biocatalysts that Harbors Baeyerâ€“Villiger Monooxygenases with a Relaxed Coenzyme Specificity. ChemCatChem, 2014, 6, 1112-1117.	1.8	34
61	Enzymatic Synthesis of Enantiomerically Pure Î²â€Amino Ketones, Î²â€Amino Esters, and Î²â€Amino Alcohols with Baeyerâ€“Villiger Monooxygenases. Chemistry - A European Journal, 2010, 16, 9525-9535.	1.7	33
62	Biocatalysis in Green and Blue: Cyanobacteria. Trends in Biotechnology, 2021, 39, 875-889.	4.9	32
63	Random Mutagenesisâ€Driven Improvement of Carboxylate Reductase Activity using an Amino Benzamidoximeâ€Mediated Highâ€Throughput Assay. Advanced Synthesis and Catalysis, 2019, 361, 2544-2549.	2.1	31
64	Microbial Baeyer-Villiger Oxidation of Bicyclo[4.3.0]ketones by Two Recombinant E. coli Strains. A Novel Access to Indole Alkaloids. Synlett, 2002, 2002, 0700-0702.	1.0	30
65	Microbial Baeyer-Villiger Oxidation of Prochiral Polysubstituted Cyclohexanones by Recombinant Whole-Cells Expressing Two Bacterial Monooxygenases. European Journal of Organic Chemistry, 2005, 2005, 809-816.	1.2	30
66	Quantitative Comparison of Chiral Catalysts Selectivity and Performance: A Generic Concept Illustrated with Cyclododecanone Monooxygenase as Baeyerâ€“Villiger Biocatalyst. Advanced Synthesis and Catalysis, 2012, 354, 3491-3500.	2.1	30
67	Identification, Characterization, and Application of Three Enoate Reductases from Pseudomonasâ€…putida in Inâ€…Vitro Enzyme Cascade Reactions. ChemCatChem, 2014, 6, 1021-1027.	1.8	30
68	Manipulating the stereoselectivity of the thermostable Baeyerâ€“Villiger monooxygenase TmCHMO by directed evolution. Organic and Biomolecular Chemistry, 2017, 15, 9824-9829.	1.5	30
69	Enantioselective kinetic resolution of 3-phenyl-2-ketones using Baeyerâ€“Villiger monooxygenases. Tetrahedron: Asymmetry, 2007, 18, 892-895.	1.8	29
70	Biocatalyst assessment of recombinant whole-cells expressing the Baeyer-Villiger monooxygenase from Xanthobacter sp. ZL5. Journal of Molecular Catalysis B: Enzymatic, 2008, 50, 61-68.	1.8	29
71	Baeyerâ€“Villiger monooxygenases in aroma compound synthesis. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 6135-6138.	1.0	29
72	Regioselective Syntheses of 2,3â€Substituted Pyridines by Orthogonal Crossâ€Coupling Strategies. European Journal of Organic Chemistry, 2011, 2011, 1972-1979.	1.2	29

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73	Fusion proteins of an enoate reductase and a Baeyer-Villiger monooxygenase facilitate the synthesis of chiral lactones. Biological Chemistry, 2017, 398, 31-37.	1.2	29
74	Substrateâ€Independent Highâ€Throughput Assay for the Quantification of Aldehydes. Advanced Synthesis and Catalysis, 2019, 361, 2538.	2.1	29
75	Synthesis of Pyridinyl-Pyrimidines via Pd-Catalyzed Cross-Coupling Reactions: A Comparison of Classical Thermal and Microwave Assisted Reaction Conditions. Synlett, 2003, 2003, 1862-1864.	1.0	28
76	Investigations of the Halogen Dance Reaction on N-Substituted 2-ThiazolaminesÂ§. Journal of Organic Chemistry, 2005, 70, 567-574.	1.7	28
77	Continuous testing system for Baeyerâ€“Villiger biooxidation using recombinant Escherichia coli expressing cyclohexanone monooxygenase encapsulated in polyelectrolyte complex capsules. Enzyme and Microbial Technology, 2011, 49, 284-288.	1.6	28
78	Leoligin, the Major Lignan from Edelweiss (Leontopodium nivale subsp. alpinum), Promotes Cholesterol Efflux from THP-1 Macrophages. Journal of Natural Products, 2016, 79, 1651-1657.	1.5	28
79	Mutagenesisâ€Independent Stabilization of Class B Flavin Monooxygenases in Operation. Advanced Synthesis and Catalysis, 2017, 359, 2121-2131.	2.1	28
80	Inâ€…Vivo Synthesis of Polyhydroxylated Compounds from a â€œHidden Reservoirâ€•of Toxic Aldehyde Species. ChemCatChem, 2017, 9, 2919-2923.	1.8	27
81	Biocompatible metal-assisted Câ€“C cross-coupling combined with biocatalytic chiral reductions in a concurrent tandem cascade. Chemical Communications, 2018, 54, 12978-12981.	2.2	26
82	para-Trifluoromethyl-methcathinone is an allosteric modulator of the serotonin transporter. Neuropharmacology, 2019, 161, 107615.	2.0	26
83	Baeyer-Villiger Oxidation of Bridgedendo-Tricyclic Ketones with EngineeredEscherichia coliExpressing Monooxygenases of Bacterial Origin. Synlett, 2005, 2005, 2751-2754.	1.0	25
84	Encapsulation of recombinant E. coli expressing cyclopentanone monooxygenase in polyelectrolyte complex capsules for Baeyerâ€“Villiger biooxidation of 8-oxabicyclo[3.2.1]oct-6-en-3-one. Biotechnology Letters, 2010, 32, 675-680.	1.1	25
85	Molecular tools for GABAA receptors: High affinity ligands for Î²1-containing subtypes. Scientific Reports, 2017, 7, 5674.	1.6	25
86	Towards functional selectivity for Î±6Î²3Î³2 GABA_A receptors: a series of novel pyrazoloquinolinones. British Journal of Pharmacology, 2018, 175, 419-428.	2.7	25
87	Aryl Bromides and Aryl Chlorides for the Direct Arylation of Benzylic Amines Mediated by Ruthenium(II). European Journal of Organic Chemistry, 2013, 2013, 2878-2890.	1.2	24
88	Microbial Baeyerâ€“Villiger oxidation of 4,4-disubstituted cyclohexan- and cyclohexenones by recombinant whole-cells expressing monooxygenases of bacterial origin. Journal of Molecular Catalysis B: Enzymatic, 2006, 39, 135-140.	1.8	23
89	Asymmetric bioreduction of activated carbonâ€“carbon double bonds using Shewanella yellow enzyme (SYE-4) as novel enoate reductase. Tetrahedron, 2012, 68, 7619-7623.	1.0	23
90	Kinetic Modeling of an Enzymatic Redox Cascade Inâ€…Vivo Reveals Bottlenecks Caused by Cofactors. ChemCatChem, 2017, 9, 3420-3427.	1.8	23

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91	Easy Access to Enantiopure (S)â€•and (R)â€Aryl Alkyl Alcohols by a Combination of Gold(III)â€Catalyzed Alkyne Hydration and Enzymatic Reduction. ChemCatChem, 2018, 10, 920-924.	1.8	23
92	Intramolecular Dielsâ€“Alder cyclization of biodihydroxylated benzoic acid derivatives towards novel heterocyclic scaffolds. Monatshefte FÃ¼r Chemie, 2010, 141, 699-707.	0.9	22
93	Drugs from nature targeting inflammation (DNTI): a successful Austrian interdisciplinary network project. Monatshefte FÃ¼r Chemie, 2016, 147, 479-491.	0.9	22
94	Allosteric GABAA Receptor Modulatorsâ€”A Review on the Most Recent Heterocyclic Chemotypes and Their Synthetic Accessibility. Molecules, 2020, 25, 999.	1.7	22
95	Synthesis of 5-arylated N-arylthiazole-2-amines as potential skeletal muscle cell differentiation promoters. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 2149-2154.	1.0	21
96	Non-hazardous Baeyerâ€“Villiger oxidation of levulinic acid derivatives: alternative renewable access to 3-hydroxypropionates. Chemical Communications, 2015, 51, 2874-2877.	2.2	21
97	Polyarylated Thiazoles via a Combined Halogen Dance â€“ Crossâ€Coupling Strategy. European Journal of Organic Chemistry, 2009, 2009, 3228-3236.	1.2	20
98	Metal assisted synthesis of mono and diamino substituted pyridines. Tetrahedron, 2011, 67, 4169-4178.	1.0	20
99	Double site saturation mutagenesis of the human cytochrome P450 2D6 results in regioselective steroid hydroxylation. FEBS Journal, 2013, 280, 3094-3108.	2.2	20
100	A guideline for the arylation of positions 4 and 5 of thiazole via Pd-catalyzed cross-coupling reactions. Tetrahedron, 2010, 66, 8051-8059.	1.0	19
101	Synthesis of analogs of the phenylamino-pyrimidine type protein kinase C inhibitor CGP 60474 utilizing a Negishi cross-coupling strategy. Tetrahedron, 2006, 62, 2380-2387.	1.0	18
102	Arylation of Pyridines via Suzuki-Miyaura Cross-Coupling and Pyridine-ÂDirected C-H Activation Using a Continuous-Flow Approach. Synlett, 2013, 24, 2411-2418.	1.0	18
103	Ligandâ€Assisted Iron Catalysis in the Direct Functionalization of Cï£¿H Bonds. ChemCatChem, 2014, 6, 2194-2196.	1.8	18
104	Synthesis of tetrahydrofuran-based natural products and their carba analogs via stereoselective enzyme mediated Baeyerâ€“Villiger oxidation. Tetrahedron, 2016, 72, 7212-7221.	1.0	18
105	Synthesis and Enantioselective Baeyer-Villiger Oxidation of Prochiral Perhydro-pyranones with Recombinant E. coli Producing Cyclohexanone Monooxygenase. Synlett, 2003, 2003, 1973-1976.	1.0	17
106	First Halogen Dance Reaction on Oxazoles. Synthesis of 4,5-Disubstituted 2-Phenyloxazoles. Synlett, 2005, 2005, 1433-1434.	1.0	17
107	Application of continuous flow and alternative energy devices for 5-hydroxymethylfurfural production. Molecular Diversity, 2011, 15, 639-643.	2.1	17
108	Mechanistic and Kinetic Studies of the Direct Alkylation of Benzylic Amines: A Formal C(sp³)â€“H Activation Proceeds Actually via a C(sp²)â€“H Activation Pathway. ACS Catalysis, 2015, 5, 587-595.	5.5	17

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109	Morpholine-based buffers activate aerobic photobiocatalysisviaspin correlated ion pair formation. Catalysis Science and Technology, 2019, 9, 1365-1371.	2.1	17
110	Stereoselective hybrid catalysts: new opportunities. Journal of Chemical Technology and Biotechnology, 2007, 82, 1067-1071.	1.6	16
111	Recombinant Wholeâ€Cell Mediated Baeyerâ€“Villiger Oxidation of Perhydropyranâ€Type Ketones. Chemistry and Biodiversity, 2008, 5, 490-498.	1.0	16
112	Construction of a Xylanase A Variant Capable of Polymerization. PLoS ONE, 2011, 6, e25388.	1.1	16
113	First selective direct mono-arylation of piperidines using ruthenium-catalyzed Câ€“H activation. Monatshefte FÃ¼r Chemie, 2013, 144, 539-552.	0.9	16
114	First chemo-enzymatic synthesis of the (R)-Taniguchi lactone and substrate profiles of CAMO and OTEMO, two new Baeyerâ€“Villiger monooxygenases. Monatshefte FÃ¼r Chemie, 2017, 148, 157-165.	0.9	16
115	Indium- and Zinc-Mediated Acyloxyallylation of Protected and Unprotected Aldotetrosesâ€”Revealing a Pronounced Diastereodivergence and a Fundamental Difference in the Performance of the Mediating Metal. Journal of Organic Chemistry, 2018, 83, 2647-2659.	1.7	16
116	Biorefinery via Achmatowicz Rearrangement: Synthesis of Pentaneâ€1,2,5â€triol from Furfuryl Alcohol. ChemSusChem, 2019, 12, 2748-2754.	3.6	16
117	Whole-cell Mediated Baeyer-Villiger Oxidation of Functionalized Bicyclo[3.3.0]ketones by Recombinant E. coli. Synlett, 2002, 2002, 0703-0706.	1.0	15
118	A Systematic Study of Suzuki-Miyaura Cross-Coupling Reactions on Thiazoleboronic Esters in the 4- and 5-Position. Synthesis, 2010, 2010, 837-843.	1.2	15
119	Enantiocomplementary access to carba-analogs of C-nucleoside derivatives by recombinant Baeyerâ€“Villiger monooxygenases. Bioorganic and Medicinal Chemistry Letters, 2013, 23, 2718-2720.	1.0	15
120	Stereochemistry of phase-1 metabolites of mephedrone determines their effectiveness as releasers at the serotonin transporter. Neuropharmacology, 2019, 148, 199-209.	2.0	15
121	GABAA Receptor Ligands Often Interact with Binding Sites in the Transmembrane Domain and in the Extracellular Domainâ€”Can the Promiscuity Code Be Cracked?. International Journal of Molecular Sciences, 2020, 21, 334.	1.8	15
122	A novel hetero-Diels-Alder approach towards perhydro quinolinones bearing an angular methyl group. Tetrahedron, 1998, 54, 875-894.	1.0	14
123	Synthesis of Pyrrolo[2,3-d][1,2,3]thiadiazole-6-carboxylates via the Hurd-Mori Reaction. Investigating the Effect of the N-Protecting Group on the Cyclization. Molecules, 2005, 10, 367-375.	1.7	14
124	Palladium(II)â€Catalyzed Regioselective Ortho Arylation of sp² Cï£¿H Bonds of Nâ€Arylâ€2â€amino Pyridine Derivatives. ChemCatChem, 2012, 4, 1345-1352.	1.8	14
125	The steroid monooxygenase from Rhodococcus rhodochrous; a versatile biocatalyst. Tetrahedron: Asymmetry, 2013, 24, 1620-1624.	1.8	14
126	Piperine Congeners as Inhibitors of Vascular Smooth Muscle Cell Proliferation. Planta Medica, 2015, 81, 1065-1074.	0.7	14

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127	Boosting photobioredox catalysis by morpholine electron donors under aerobic conditions. Catalysis Science and Technology, 2019, 9, 2682-2688.	2.1	14
128	BakerÂ's yeast-catalyzed synthesis of optically pure 4-tert-butyl-3-hydroxy beta-lactam cis-(3R,4S) and trans-(3R,4R) diastereomers. Canadian Journal of Chemistry, 2002, 80, 796-800.	0.6	13
129	Selective Sequential Cross-Coupling Reactions on Imidazole towards Neurodazine and Analogues. Synthesis, 2013, 45, 1387-1405.	1.2	13
130	Developing piperine towards TRPV1 and GABA_A receptor ligands â€“ synthesis of piperine analogs via Heck-coupling of conjugated dienes. Organic and Biomolecular Chemistry, 2015, 13, 990-994.	1.5	13
131	Thiophene ring-fragmentation reactions: Principles and scale-up towards NLO materials. Tetrahedron, 2017, 73, 472-480.	1.0	13
132	Linked magnolol dimer as a selective PPARÎ³ agonist â€“ Structure-based rational design, synthesis, and bioactivity evaluation. Scientific Reports, 2017, 7, 13002.	1.6	13
133	Synthesis of an antiviral drug precursor from chitin using a saprophyte as a whole-cell catalyst. Microbial Cell Factories, 2011, 10, 102.	1.9	12
134	Enantioselective oxidation by a cyclohexanone monooxygenase from the xenobiotic-degrading Polaromonas sp. strain JS666. Journal of Molecular Catalysis B: Enzymatic, 2012, 78, 105-110.	1.8	12
135	Efficient Acylation of Sugars and Oligosaccharides in Aqueous Environment Using Engineered Acyltransferases. ACS Catalysis, 2021, 11, 2831-2836.	5.5	12
136	An improved synthetic approach to thieno[2,3â€d]â€1,2,3â€thiadiazolecarboxylates via diazotization of aminothiophene derivatives. Journal of Heterocyclic Chemistry, 1999, 36, 761-765.	1.4	11
137	Pd(0)-Catalyzed Cu(I)-Thiophene-2-carboxylate-mediated Cross-Coupling of Heteroaromatic Thioethers and Boronic Acids-First Liebeskind-Srogl Reaction in Water. Journal of Heterocyclic Chemistry, 2013, 50, 1368-1373.	1.4	11
138	Esters of valerenic acid as potential prodrugs. European Journal of Pharmacology, 2014, 735, 123-131.	1.7	11
139	Modern developments in biotransformations. Tetrahedron, 2016, 72, 7205.	1.0	11
140	Nonâ€hazardous biocatalytic oxidation in Nylonâ€9 monomer synthesis on a 40â€‰g scale with efficient downstream processing. Biotechnology and Bioengineering, 2017, 114, 1670-1678.	1.7	11
141	Leoligin-inspired synthetic lignans with selectivity for cell-type and bioactivity relevant for cardiovascular disease. Chemical Science, 2019, 10, 5815-5820.	3.7	11
142	Methyl glycosides via Fischer glycosylation: translation from batch microwave to continuous flow processing. Monatshefte FÃ¼r Chemie, 2019, 150, 11-19.	0.9	11
143	GABAA receptor activity modulating piperine analogs: In vitro metabolic stability, metabolite identification, CYP450 reaction phenotyping, and protein binding. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2018, 1072, 379-389.	1.2	9
144	Novel concurrent redox cascades of (R)- and (S)-carvones enables access to carvo-lactones with distinct regio- and enantioselectivity. Tetrahedron, 2018, 74, 7389-7394.	1.0	9

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