Marko D Mihovilovic

List of Publications by Year in Descending Order

204 papers	6,871 citations	40 h-index	75 g-index
254 ext. papers	7,740 ext. citations	4.8 avg, IF	5.91 L-index

#	Paper	IF	Citations
204	A Kinetic Photometric Assay for the Quantification of the Open-Chain Content of Aldoses. *European Journal of Organic Chemistry*, **2021**, 2021, 2589-2593	3.2	0
203	Effects of Hydroxylated Mephedrone Metabolites on Monoamine Transporter Activity. *Frontiers in Pharmacology*, **2021**, 12, 654061	5.6	1
202	Efficient Acylation of Sugars and Oligosaccharides in Aqueous Environment Using Engineered Acyltransferases. *ACS Catalysis*, **2021**, 11, 2831-2836	13.1	7
201	Biocatalysis in Green and Blue: Cyanobacteria. *Trends in Biotechnology*, **2021**, 39, 875-889	15.1	11
200	A new carbohydrate-active oligosaccharide dehydratase is involved in the degradation of ulvan. *Journal of Biological Chemistry*, **2021**, 297, 101210	5.4	0
199	Allosteric GABA Receptor Modulators-A Review on the Most Recent Heterocyclic Chemotypes and Their Synthetic Accessibility. *Molecules*, **2020**, 25,	4.8	13
198	Design and Synthesis of a Compound Library Exploiting 5-Methoxyleoligin as Potential Cholesterol Efflux Promoter. *Molecules*, **2020**, 25,	4.8	2
197	GABA Receptor Ligands Often Interact with Binding Sites in the Transmembrane Domain and in the Extracellular Domain-Can the Promiscuity Code Be Cracked?. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	6
196	Characterization of a Structural Leoligin Analog as Farnesoid X Receptor Agonist and Modulator of Cholesterol Transport. *Planta Medica*, **2020**, 86, 1097-1107	3.1	0
195	Immobilized Cell Physiology Imaging and Stabilization of Enzyme Cascade Reaction Using Recombinant Cells Escherichia coli Entrapped in Polyelectrolyte Complex Beads by Jet Break-Up Encapsulator. *Catalysts*, **2020**, 10, 1288	4	1
194	A silver-coated copper wire as inexpensive drug eluting stent model: determination of the relative releasing properties of leoligin and derivatives. *Monatshefte F□ Chemie*, **2020**, 1	1.4	0
193	Straight Forward and Versatile Differentiation of the l- and d--d- Heptose Scaffold. *Frontiers in Chemistry*, **2020**, 8, 625	5	2
192	Structural Features Defining NF-B Inhibition by Lignan-Inspired Benzofurans and Benzothiophenes. *Biomolecules*, **2020**, 10,	5.9	1
191	Investigation of a New Type I Baeyer-Villiger Monooxygenase from Amycolatopsis thermoflava Revealed High Thermodynamic but Limited Kinetic Stability. *ChemBioChem*, **2020**, 21, 971-977	3.8	5
190	Leoligin-inspired synthetic lignans with selectivity for cell-type and bioactivity relevant for cardiovascular disease. *Chemical Science*, **2019**, 10, 5815-5820	9.4	7
189	Boosting photobioredox catalysis by morpholine electron donors under aerobic conditions. *Catalysis Science and Technology*, **2019**, 9, 2682-2688	5.5	9
188	Biorefinery via Achmatowicz Rearrangement: Synthesis of Pentane-1,2,5-triol from Furfuryl Alcohol. *ChemSusChem*, **2019**, 12, 2748-2754	8.3	7

187	para-Trifluoromethyl-methcathinone is an allosteric modulator of the serotonin transporter. *Neuropharmacology*, **2019**, 161, 107615	5.5	11
186	Random Mutagenesis-Driven Improvement of Carboxylate Reductase Activity using an Amino Benzamidoxime-Mediated High-Throughput Assay. *Advanced Synthesis and Catalysis*, **2019**, 361, 2544	5.6	18
185	Substrate-Independent High-Throughput Assay for the Quantification of Aldehydes. *Advanced Synthesis and Catalysis*, **2019**, 361, 2538	5.6	18
184	Morpholine-based buffers activate aerobic photobiocatalysis spin correlated ion pair formation. *Catalysis Science and Technology*, **2019**, 9, 1365-1371	5.5	10
183	Variations on a scaffold - Novel GABA receptor modulators. *European Journal of Medicinal Chemistry*, **2019**, 180, 340-349	6.8	1
182	A marine bacterial enzymatic cascade degrades the algal polysaccharide ulvan. *Nature Chemical Biology*, **2019**, 15, 803-812	11.7	52
181	Intercepted dehomologation of aldoses by N-heterocyclic carbene catalysis - a novel transformation in carbohydrate chemistry. *Chemical Communications*, **2019**, 55, 12144-12147	5.8	3
180	Methyl glycosides via Fischer glycosylation: translation from batch microwave to continuous flow processing. *Monatshefte F□ Chemie*, **2019**, 150, 11-19	1.4	9
179	Stereochemistry of phase-1 metabolites of mephedrone determines their effectiveness as releasers at the serotonin transporter. *Neuropharmacology*, **2019**, 148, 199-209	5.5	11
178	Easy Access to Enantiopure (S)- and (R)-Aryl Alkyl Alcohols by a Combination of Gold(III)-Catalyzed Alkyne Hydration and Enzymatic Reduction. *ChemCatChem*, **2018**, 10, 920-924	5.2	16
177	Design and Synthesis of Novel Deuterated Ligands Functionally Selective for the □Aminobutyric Acid Type A Receptor (GABAR) □ Subtype with Improved Metabolic Stability and Enhanced Bioavailability. *Journal of Medicinal Chemistry*, **2018**, 61, 2422-2446	8.3	26
176	Electrochemical properties of halogenated benzylidenehydrazino-pyrazoles in various imidazolium-based ionic liquids. *Monatshefte F□ Chemie*, **2018**, 149, 823-831	1.4	
175	Indium- and Zinc-Mediated Acyloxyallylation of Protected and Unprotected Aldotetroses-Revealing a Pronounced Diastereodivergence and a Fundamental Difference in the Performance of the Mediating Metal. *Journal of Organic Chemistry*, **2018**, 83, 2647-2659	4.2	10
174	Opportunities and challenges for combining chemo- and biocatalysis. *Nature Catalysis*, **2018**, 1, 12-22	36.5	333
173	Cell Factory Design and Optimization for the Stereoselective Synthesis of Polyhydroxylated Compounds. *ChemBioChem*, **2018**, 19, 361-368	3.8	2
172	Engineered Flumazenil Recognition Site Provides Mechanistic Insight Governing Benzodiazepine Modulation in GABA Receptors. *ACS Chemical Biology*, **2018**, 13, 2040-2047	4.9	7
171	SAR-Guided Scoring Function and Mutational Validation Reveal the Binding Mode of CGS-8216 at the □+/□- Benzodiazepine Site. *Journal of Chemical Information and Modeling*, **2018**, 58, 1682-1696	6.1	3
170	Cellular N-myristoyltransferases play a crucial picornavirus genus-specific role in viral assembly, virion maturation, and infectivity. *PLoS Pathogens*, **2018**, 14, e1007203	7.6	19

169	Biochemical characterization of an ulvan lyase from the marine flavobacterium Formosa agariphila KMM 3901. *Applied Microbiology and Biotechnology*, **2018**, 102, 6987-6996	5.7	24
168	GABA 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	3.2	8
167	Towards functional selectivity for 6332 GABA receptors: a series of novel pyrazoloquinolinones. *British Journal of Pharmacology*, **2018**, 175, 419-428	8.6	18
166	Biocompatible metal-assisted C-C cross-coupling combined with biocatalytic chiral reductions in a concurrent tandem cascade. *Chemical Communications*, **2018**, 54, 12978-12981	5.8	18
165	Novel concurrent redox cascades of (R)- and (S)-carvones enables access to carvo-lactones with distinct regio- and enantioselectivity. *Tetrahedron*, **2018**, 74, 7389-7394	2.4	6
164	Stereoselective Synthesis of the Isomers of Notoincisol A: Assigment of the Absolute Configuration of this Natural Product and Biological Evaluation. *Journal of Natural Products*, **2018**, 81, 2419-2428	4.9	0
163	Magnolol dimer-derived fragments as PPAR selective probes. *Organic and Biomolecular Chemistry*, **2018**, 16, 7019-7028	3.9	4
162	One-pot synthesis of triazines as potential agents affecting cell differentiation. *Monatshefte F Chemie*, **2018**, 149, 1257-1284	1.4	5
161	Fusion proteins of an enoate reductase and a Baeyer-Villiger monooxygenase facilitate the synthesis of chiral lactones. *Biological Chemistry*, **2017**, 398, 31-37	4.5	24
160	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	10	51
159	In Vivo Synthesis of Polyhydroxylated Compounds from a Hidden Reservoir of Toxic Aldehyde Species. *ChemCatChem*, **2017**, 9, 2919-2923	5.2	20
158	Mutagenesis-Independent Stabilization of Class B Flavin Monooxygenases in Operation. *Advanced Synthesis and Catalysis*, **2017**, 359, 2121-2131	5.6	23
157	Non-hazardous biocatalytic oxidation in Nylon-9 monomer synthesis on a 40 g scale with efficient downstream processing. *Biotechnology and Bioengineering*, **2017**, 114, 1670-1678	4.9	9
156	Kinetic Modeling of an Enzymatic Redox Cascade In Vivo Reveals Bottlenecks Caused by Cofactors. *ChemCatChem*, **2017**, 9, 3420-3427	5.2	22
155	Thiophene ring-fragmentation reactions: Principles and scale-up towards NLO materials. *Tetrahedron*, **2017**, 73, 472-480	2.4	13
154	First chemo-enzymatic synthesis of the ()-Taniguchi lactone and substrate profiles of CAMO and OTEMO, two new Baeyer-Villiger monooxygenases. *Monatshefte F Chemie*, **2017**, 148, 157-165	1.4	15
153	Linked magnolol dimer as a selective PPAR agonist - Structure-based rational design, synthesis, and bioactivity evaluation. *Scientific Reports*, **2017**, 7, 13002	4.9	10
152	Molecular tools for GABA receptors: High affinity ligands for -containing subtypes. *Scientific Reports*, **2017**, 7, 5674	4.9	19

151	Manipulating the stereoselectivity of the thermostable Baeyer-Villiger monooxygenase TmCHMO by directed evolution. *Organic and Biomolecular Chemistry*, **2017**, 15, 9824-9829	3.9	23
150	Cloning and characterization of the Type I Baeyer-Villiger monooxygenase from Leptospira biflexa. *AMB Express*, **2017**, 7, 87	4.1	5
149	Cu(I)-catalyzed one-pot decarboxylation-alkynylation reactions on 1,2,3,4-tetrahydroisoquinolines and one-pot synthesis of triazolyl-1,2,3,4-tetrahydroisoquinolines. *Journal of Molecular Catalysis A*, **2017**, 426, 398-406		6
148	Biodihydroxylation of substituted quinolines and isoquinolines by recombinant whole-cell mediated biotransformations. *Tetrahedron*, **2016**, 72, 7348-7355	2.4	5
147	Library synthesis of cardiomyogenesis inducing compounds using an efficient two-step-one-flow process. *Monatshefte F□ Chemie*, **2016**, 147, 523-532	1.4	1
146	Baeyer-Villiger oxidations: biotechnological approach. *Applied Microbiology and Biotechnology*, **2016**, 100, 6585-6599	5.7	79
145	Synthesis of tetrahydrofuran-based natural products and their carba analogs via stereoselective enzyme mediated Baeyer□illiger oxidation. *Tetrahedron*, **2016**, 72, 7212-7221	2.4	12
144	Regio- and stereoselective synthesis of chiral nitrilolactones using Baeyer□illiger monooxygenases. *Tetrahedron*, **2016**, 72, 7241-7248	2.4	8
143	Targeting aphA : a new high-throughput screening assay identifies compounds that reduce prime virulence factors of Vibrio cholerae. *Journal of Medical Microbiology*, **2016**, 65, 678-687	3.2	8
142	Miscellaneous Key Non-C□ Bond Forming Enzyme Reactions **2016**, 243-283		1
141	In vitro blood-brain barrier permeability predictions for GABAA receptor modulating piperine analogs. *European Journal of Pharmaceutics and Biopharmaceutics*, **2016**, 103, 118-126	5.7	24
140	Leoligin, the Major Lignan from Edelweiss (Leontopodium nivale subsp. alpinum), Promotes Cholesterol Efflux from THP-1 Macrophages. *Journal of Natural Products*, **2016**, 79, 1651-7	4.9	22
139	Drugs from nature targeting inflammation (DNTI): a successful Austrian interdisciplinary network project. *Monatshefte F□ Chemie*, **2016**, 147, 479-491	1.4	15
138	Metal-Catalyzed Cross-Coupling Reactions in the Decoration of Pyridines. *Topics in Heterocyclic Chemistry*, **2015**, 1-60	0.2	1
137	Piperine Congeners as Inhibitors of Vascular Smooth Muscle Cell Proliferation. *Planta Medica*, **2015**, 81, 1065-74	3.1	11
136	Discovery and resupply of pharmacologically active plant-derived natural products: A review. *Biotechnology Advances*, **2015**, 33, 1582-1614	17.8	1267
135	Metal-assisted synthesis of unsymmetrical magnolol and honokiol analogs and their biological assessment as GABAA receptor ligands. *Bioorganic and Medicinal Chemistry Letters*, **2015**, 25, 400-3	2.9	7
134	Developing piperine towards TRPV1 and GABAA receptor ligands--synthesis of piperine analogs via Heck-coupling of conjugated dienes. *Organic and Biomolecular Chemistry*, **2015**, 13, 990-4	3.9	10

133	Synthesis of endo- and exo-N-Protected 5-Arylated 2-Aminothiazoles through Direct Arylation: An Efficient Route to Cell Differentiation Accelerators. *European Journal of Organic Chemistry*, **2015**, 2015, 4765-4771	3.2	1
132	Designer Microorganisms for Optimized Redox Cascade Reactions Challenges and Future Perspectives. *Advanced Synthesis and Catalysis*, **2015**, 357, 1587-1618	5.6	45
131	Mechanistic and Kinetic Studies of the Direct Alkylation of Benzylic Amines: A Formal C(sp)-H Activation Proceeds Actually via a C(sp)-H Activation Pathway. *ACS Catalysis*, **2015**, 5, 587-595	13.1	13
130	Cascade catalysis--strategies and challenges en route to preparative synthetic biology. *Chemical Communications*, **2015**, 51, 5798-811	5.8	240
129	First Total Synthesis of Piperenol B and Configuration Revision of the Enantiomers Piperenol B and Uvarirufol A. *European Journal of Organic Chemistry*, **2015**, 2015, 1464-1471	3.2	5
128	Non-hazardous Baeyer-Villiger oxidation of levulinic acid derivatives: alternative renewable access to 3-hydroxypropionates. *Chemical Communications*, **2015**, 51, 2874-7	5.8	19
127	Type II Flavin-Containing Monooxygenases: A New Class of Biocatalysts that Harbors Baeyer Villiger Monooxygenases with a Relaxed Coenzyme Specificity. *ChemCatChem*, **2014**, 6, 1112-1117	5.2	31
126	Identification, Characterization, and Application of Three Enoate Reductases from Pseudomonas putida in In Vitro Enzyme Cascade Reactions. *ChemCatChem*, **2014**, 6, 1021-1027	5.2	29
125	Esters of valerenic acid as potential prodrugs. *European Journal of Pharmacology*, **2014**, 735, 123-31	5.3	10
124	Direct Arylation of Benzo furan and Other Benzo-Fused Heterocycles. *European Journal of Organic Chemistry*, **2014**, 2014, 8119-8125	3.2	39
123	Efficient modulation of aminobutyric acid type A receptors by piperine derivatives. *Journal of Medicinal Chemistry*, **2014**, 57, 5602-19	8.3	47
122	Monooxygenase-Catalyzed Redox Cascade Biotransformations **2014**, 43-64		1
121	Ligand-Assisted Iron Catalysis in the Direct Functionalization of C?H Bonds. *ChemCatChem*, **2014**, 6, 2194-2196	5.2	17
120	Exploration of C-H and N-H-bond functionalization towards 1-(1,2-diarylindol-3-yl)tetrahydroisoquinolines. *Beilstein Journal of Organic Chemistry*, **2014**, 10, 2186-99	2.5	5
119	Small molecule cardiogenol C upregulates cardiac markers and induces cardiac functional properties in lineage-committed progenitor cells. *Cellular Physiology and Biochemistry*, **2014**, 33, 205-21	3.9	5
118	In vitro characterization of an enzymatic redox cascade composed of an alcohol dehydrogenase, an enoate reductases and a Baeyer-Villiger monooxygenase. *Journal of Biotechnology*, **2014**, 192 Pt B, 393-9	3.7	32
117	Extending the substrate scope of a Baeyer-Villiger monooxygenase by multiple-site mutagenesis. *Applied Microbiology and Biotechnology*, **2014**, 98, 4009-20	5.7	33
116	VUT-MK142 : a new cardiomyogenic small molecule promoting the differentiation of pre-cardiac mesoderm into cardiomyocytes. *MedChemComm*, **2013**, 4, 1189-1195	5	8

115	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	1.9	9
114	The steroid monooxygenase from Rhodococcus rhodochrous; a versatile biocatalyst. *Tetrahedron: Asymmetry*, **2013**, 24, 1620-1624		11
113	An Enzymatic Toolbox for Cascade Reactions: A Showcase for an In Vivo Redox Sequence in Asymmetric Synthesis. *ChemCatChem*, **2013**, 5, 3524-3528	5.2	78
112	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, 658-72	4.2	43
111	Single Operation Stereoselective Synthesis of Aerangis Lactones: Combining Continuous Flow Hydrogenation and Biocatalysts in a Chemoenzymatic Sequence. *ChemCatChem*, **2013**, 5, 724-727	5.2	47
110	Identification of novel positive allosteric modulators and null modulators at the GABAA receptor β+/α interface. *British Journal of Pharmacology*, **2013**, 169, 371-83	8.6	39
109	First selective direct mono-arylation of piperidines using ruthenium-catalyzed C-H activation. *Monatshefte Für Chemie*, **2013**, 144, 539-552	1.4	12
108	Double site saturation mutagenesis of the human cytochrome P450 2D6 results in regioselective steroid hydroxylation. *FEBS Journal*, **2013**, 280, 3094-108	5.7	19
107	Enantiocomplementary access to carba-analogs of C-nucleoside derivatives by recombinant Baeyer-Villiger monooxygenases. *Bioorganic and Medicinal Chemistry Letters*, **2013**, 23, 2718-20	2.9	14
106	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	3.2	17
105	Selective Sequential Cross-Coupling Reactions on Imidazole towards Neurodazine and Analogues. *Synthesis*, **2013**, 45, 1387-1405	2.9	11
104	Arylation of Pyridines via Suzuki-Miyaura Cross-Coupling and Pyridine-Directed C-H Activation Using a Continuous-Flow Approach. *Synlett*, **2013**, 24, 2411-2418	2.2	15
103	Synthesis of substituted thieno[2,3-d]isothiazoles as potential plant activators. *Arkivoc*, **2013**, 2013, 245-265	2.9	3
102	Enantioselective oxidation by a cyclohexanone monooxygenase from the xenobiotic-degrading Polaromonas sp. strain JS666. *Journal of Molecular Catalysis B: Enzymatic*, **2012**, 78, 105-110		7
101	Synthesis of novel pyrazolo[3,4-d]pyrimidine derivatives as potential anti-breast cancer agents. *European Journal of Medicinal Chemistry*, **2012**, 57, 323-8	6.8	40
100	Asymmetric bioreduction of activated carbon-carbon double bonds using Shewanella yellow enzyme (SYE-4) as novel enoate reductase. *Tetrahedron*, **2012**, 68, 7619-7623	2.4	20
99	Baeyer–Villiger Oxidations **2012**, 1439-1485		6
98	Quantitative Comparison of Chiral Catalysts Selectivity and Performance: A Generic Concept Illustrated with Cyclododecanone Monooxygenase as Baeyer–Villiger Biocatalyst. *Advanced Synthesis and Catalysis*, **2012**, 354, 3491-3500	5.6	29

97	Selective Ru(0)-catalyzed deuteration of electron-rich and electron-poor nitrogen-containing heterocycles. *Journal of Organic Chemistry*, **2012**, 77, 4432-7	4.2	37
96	Ruthenium(II)-catalyzed sp3 C-H bond arylation of benzylic amines using aryl halides. *Organic Letters*, **2012**, 14, 3792-5	6.2	35
95	Ruthenium(0)-catalyzed sp3 C-H bond arylation of benzylic amines using arylboronates. *Organic Letters*, **2012**, 14, 1930-3	6.2	62
94	Palladium(II)-Catalyzed Regioselective Ortho Arylation of sp(2) C-H Bonds of N-Aryl-2-amino Pyridine Derivatives. *ChemCatChem*, **2012**, 4, 1345-1352	5.2	11
93	Direct functionalization of (un)protected tetrahydroisoquinoline and isochroman under iron and copper catalysis: two metals, two mechanisms. *Journal of Organic Chemistry*, **2011**, 76, 8781-93	4.2	127
92	Tandem catalysis: from alkynoic acids and aryl iodides to 1,2,3-triazoles in one pot. *Journal of Organic Chemistry*, **2011**, 76, 2613-8	4.2	101
91	Construction of a xylanase A variant capable of polymerization. *PLoS ONE*, **2011**, 6, e25388	3.7	13
90	Extensive substrate profiling of cyclopentadecanone monooxygenase as Baeyer Villiger biocatalyst reveals novel regiodivergent oxidations. *Journal of Molecular Catalysis B: Enzymatic*, **2011**, 73, 9-16		34
89	Baeyer-Villiger monooxygenases in aroma compound synthesis. *Bioorganic and Medicinal Chemistry Letters*, **2011**, 21, 6135-8	2.9	28
88	Application of continuous flow and alternative energy devices for 5-hydroxymethylfurfural production. *Molecular Diversity*, **2011**, 15, 639-43	3.1	16
87	Studying competitive lithiations at alpha-, ortho-, and benzylic positions in various N-protected aniline derivatives. *Tetrahedron*, **2011**, 67, 2895-2904	2.4	5
86	Synthesis of an antiviral drug precursor from chitin using a saprophyte as a whole-cell catalyst. *Microbial Cell Factories*, **2011**, 10, 102	6.4	12
85	Regioselective Syntheses of 2,3-Substituted Pyridines by Orthogonal Cross-Coupling Strategies. *European Journal of Organic Chemistry*, **2011**, 2011, 1972-1979	3.2	25
84	Continuous testing system for Baeyer-Villiger biooxidation using recombinant Escherichia coli expressing cyclohexanone monooxygenase encapsulated in polyelectrolyte complex capsules. *Enzyme and Microbial Technology*, **2011**, 49, 284-8	3.8	26
83	Synthesis of 5-arylated N-arylthiazole-2-amines as potential skeletal muscle cell differentiation promoters. *Bioorganic and Medicinal Chemistry Letters*, **2011**, 21, 2149-54	2.9	17
82	Metal assisted synthesis of mono and diamino substituted pyridines. *Tetrahedron*, **2011**, 67, 4169-4178	2.4	18
81	Functionalization of Saturated and Unsaturated Heterocycles via Transition Metal Catalyzed C-H Activation Reactions. *Current Organic Chemistry*, **2011**, 15, 2694-2730	1.7	48
80	A Systematic Study of Suzuki-Miyaura Cross-Coupling Reactions on Thiazoleboronic Esters in the 4- and 5-Position. *Synthesis*, **2010**, 2010, 837-843	2.9	14

79	Facile, solvent and ligand free iron catalyzed direct functionalization of N-protected tetrahydroisoquinolines and isochroman. *Chemical Communications*, **2010**, 46, 8836-8	5.8	152
78	Intramolecular Diels–Alder cyclization of biodihydroxylated benzoic acid derivatives towards novel heterocyclic scaffolds. *Monatshefte Für Chemie*, **2010**, 141, 699-707	1.4	19
77	Encapsulation of recombinant E. coli expressing cyclopentanone monooxygenase in polyelectrolyte complex capsules for Baeyer-Villiger biooxidation of 8-oxabicyclo[3.2.1]oct-6-en-3-one. *Biotechnology Letters*, **2010**, 32, 675-80	3	25
76	Recent developments in the application of Baeyer-Villiger monooxygenases as biocatalysts. *ChemBioChem*, **2010**, 11, 2208-31	3.8	171
75	Enzymatic synthesis of enantiomerically pure beta-amino ketones, beta-amino esters, and beta-amino alcohols with Baeyer-Villiger monooxygenases. *Chemistry - A European Journal*, **2010**, 16, 9525-35	4.8	30
74	Exploiting the regioselectivity of Baeyer-Villiger monooxygenases for the formation of beta-amino acids and beta-amino alcohols. *Angewandte Chemie - International Edition*, **2010**, 49, 4506-8	16.4	69
73	Investigation of the regioselectivity of the Hurd–Mori reaction for the formation of bicyclic 1,2,3-thiadiazoles. *Tetrahedron*, **2010**, 66, 5472-5478	2.4	4
72	A guideline for the arylation of positions 4 and 5 of thiazole via Pd-catalyzed cross-coupling reactions. *Tetrahedron*, **2010**, 66, 8051-8059	2.4	18
71	Efficient biooxidations catalyzed by a new generation of self-sufficient Baeyer-Villiger monooxygenases. *ChemBioChem*, **2009**, 10, 2595-8	3.8	89
70	Polyarylated Thiazoles via a Combined Halogen Dance–Cross-Coupling Strategy. *European Journal of Organic Chemistry*, **2009**, 2009, 3228-3236	3.2	17
69	Synthesis of novel 4-(2-amino-5-thiazolyl)-pyrimidine-2-amines as potential protein kinase inhibitors. *Monatshefte Für Chemie*, **2009**, 140, 423-430	1.4	5
68	Synthesis of potential fungicides based on N-(3-furanyl)pyrrolecarboxamides and N-(3-furanyl)pyrazolecarboxamides. *Monatshefte Für Chemie*, **2009**, 140, 1349-1359	1.4	5
67	Kinetic resolution of aliphatic acyclic beta-hydroxyketones by recombinant whole-cell Baeyer-Villiger monooxygenases--formation of enantiocomplementary regioisomeric esters. *Bioorganic and Medicinal Chemistry Letters*, **2009**, 19, 3739-43	2.9	33
66	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		25
65	A Comparative Study on Stille Cross-Coupling Reactions of 2-Phenylthiazoles and 2-Phenyloxazoles. *Synthesis*, **2008**, 2008, 3099-3107	2.9	3
64	Regiodivergent Baeyer-Villiger oxidation of fused ketones by recombinant whole-cell biocatalysts. *ChemSusChem*, **2008**, 1, 143-8	8.3	37
63	Stereoselective Desymmetrizations by Recombinant Whole Cells Expressing the Baeyer–Villiger Monooxygenase from Xanthobacter sp. ZL5: A New Biocatalyst Accepting Structurally Demanding Substrates. *European Journal of Organic Chemistry*, **2008**, 2008, 1203-1213	3.2	40
62	Recombinant whole-cell mediated baeyer-villiger oxidation of perhydropyran-type ketones. *Chemistry and Biodiversity*, **2008**, 5, 490-8	2.5	13

61	Self-sufficient Baeyer-Villiger monooxygenases: effective coenzyme regeneration for biooxygenation by fusion engineering. *Angewandte Chemie - International Edition*, **2008**, 47, 2275-8	16.4	111
60	Biooxidation of bridged cycloketones using Baeyer-Villiger monooxygenases of various bacterial origin. *Journal of Organic Chemistry*, **2007**, 72, 9597-603	4.2	36
59	Metal-assisted multicomponent reactions involving carbon monoxide--towards heterocycle synthesis. *Angewandte Chemie - International Edition*, **2007**, 46, 3612-5	16.4	70
58	Stereoselective hybrid catalysts: new opportunities. *Journal of Chemical Technology and Biotechnology*, **2007**, 82, 1067-1071	3.5	16
57	Enantioselective kinetic resolution of 3-phenyl-2-ketones using Baeyer□Villiger monooxygenases. *Tetrahedron: Asymmetry*, **2007**, 18, 892-895		26
56	Ring Opening and Rearrangement Reactions of Tricyclo[4.2.1.02,5]nonan-9-one. *Synthesis*, **2007**, 2007, 3896-3906	2.9	3
55	Microbial Baeyer-Villiger oxidation of terpenones by recombinant whole-cell biocatalysts--formation of enantiocomplementary regioisomeric lactones. *Organic and Biomolecular Chemistry*, **2007**, 5, 1715-9	3.9	57
54	Halogen dance reactions--a review. *Chemical Society Reviews*, **2007**, 36, 1046-57	58.5	135
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