

# Joerg H Schrittwieser

## List of Publications by Year in descending order

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45  
papers

2,952  
citations

218592

26  
h-index

223716

46  
g-index

60  
all docs

60  
docs citations

60  
times ranked

2528  
citing authors

#	ARTICLE	IF	CITATIONS
1	The role of biocatalysis in the asymmetric synthesis of alkaloids – an update. RSC Advances, 2021, 11, 28223-28270.	1.7	20
2	Power of Biocatalysis for Organic Synthesis. ACS Central Science, 2021, 7, 55-71.	5.3	186
3	Stereoselective Biotransformations of Cyclic Imines in Recombinant Cells of <i>Synechocystis</i> sp. PCC 6803. ChemCatChem, 2020, 12, 726-730.	1.8	34
4	Asymmetric Synthesis of Dihydropinidine Enabled by Concurrent Multienzyme Catalysis and a Biocatalytic Alternative to Krapcho Dealkoxycarbonylation. ACS Catalysis, 2020, 10, 1607-1620.	5.5	15
5	Asymmetric Biocatalytic Synthesis of 1-Aryltetrahydro- $\beta$ -carbolines Enabled by "Substrate Walking" Chemistry - A European Journal, 2020, 26, 16281-16285.	1.7	18
6	Regioselective Biocatalytic Transformations Employing Transaminases and Tyrosine Phenol Lyases. Topics in Catalysis, 2019, 62, 1208-1217.	1.3	16
7	Artificial Biocatalytic Linear Cascades for Preparation of Organic Molecules. Chemical Reviews, 2018, 118, 270-348.	23.0	484
8	Artificial Biocatalytic Linear Cascades to Access Hydroxy Acids, Lactones, and $\beta$ - and $\gamma$ -Amino Acids. Catalysis, 2018, 8, 205.	1.6	11
9	Sequence-Based <i>In silico</i> Discovery, Characterisation, and Biocatalytic Application of a Set of Imine Reductases. ChemCatChem, 2018, 10, 3236-3246.	1.8	46
10	Chapter 14. Artificial Biocatalytic Cascades to Alcohols and Amines. RSC Catalysis Series, 2018, , 387-438.	0.1	0
11	Vicinal Diamines as Smart Cosubstrates in the Transaminase-Catalyzed Asymmetric Amination of Ketones. European Journal of Organic Chemistry, 2017, 2017, 2553-2559.	1.2	39
12	A convenient stereoselective synthesis of 5-hydroxy-3-oxoesters and 3-hydroxy-5-oxoesters. Tetrahedron: Asymmetry, 2017, 28, 797-802.	1.8	5
13	A novel <i>Porphyromonas gingivalis</i> enzyme: An atypical dipeptidyl peptidase III with an ARM repeat domain. PLoS ONE, 2017, 12, e0188915.	1.1	8
14	Characterization of the monoglucosyl oxidoreductase AtBBE-like protein 15 L182V for biocatalytic applications. Journal of Molecular Catalysis B: Enzymatic, 2016, 133, S6-S14.	1.8	6
15	Front Cover Picture: Regio- and Stereoselective Biocatalytic Monoamination of a Triketone Enables Asymmetric Synthesis of Both Enantiomers of the Pyrrolizidine Alkaloid Xenovenine Employing Transaminases (Adv. Synth. Catal. 3/2016). Advanced Synthesis and Catalysis, 2016, 358, 333-333.	2.1	1
16	Enantioselective Reduction of Ethyl 3-oxo-5-phenylpentanoate with Whole-Cell Biocatalysts. European Journal of Organic Chemistry, 2016, 2016, 1007-1011.	1.2	12
17	Regio- and Stereoselective Biocatalytic Monoamination of a Triketone Enables Asymmetric Synthesis of Both Enantiomers of the Pyrrolizidine Alkaloid Xenovenine Employing Transaminases. Advanced Synthesis and Catalysis, 2016, 358, 444-451.	2.1	23
18	Biocatalytic Imine Reduction and Reductive Amination of Ketones. Advanced Synthesis and Catalysis, 2015, 357, 1655-1685.	2.1	193

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19	Enantioselective Oxidative Aerobic Dealkylation of <i>N</i> -Ethyl Benzylisoquinolines by Employing the Berberine Bridge Enzyme. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 15051-15054.	7.2	19
20	(Chemo)enzymatic cascades – Nature's synthetic strategy transferred to the laboratory. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2015, 114, 1-6.	1.8	61
21	Complete Enzymatic Oxidation of Methanol to Carbon Dioxide: Towards More Eco-Efficient Regeneration Systems for Reduced Nicotinamide Cofactors. <i>Advanced Synthesis and Catalysis</i> , 2015, 357, 1687-1691.	2.1	26
22	Deracemization By Simultaneous Bio-Oxidative Kinetic Resolution and Stereoinversion. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 3731-3734.	7.2	73
23	Recent trends and novel concepts in cofactor-dependent biotransformations. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 1517-1529.	1.7	123
24	Stereoselective synthesis of $\beta$ -hydroxynorvaline through combination of organo- and biocatalysis. <i>Chemical Communications</i> , 2014, 50, 15669-15672.	2.2	33
25	Deracemisation of benzylisoquinoline alkaloids employing monoamine oxidase variants. <i>Catalysis Science and Technology</i> , 2014, 4, 3657-3664.	2.1	26
26	Artificial enzyme cascade to the polymer building block $\gamma$ -amino caproic acid. <i>New Biotechnology</i> , 2014, 31, S75.	2.4	0
27	The role of biocatalysis in the asymmetric synthesis of alkaloids. <i>RSC Advances</i> , 2013, 3, 17602.	1.7	63
28	One-pot combination of enzyme and Pd nanoparticle catalysis for the synthesis of enantiomerically pure 1,2-amino alcohols. <i>Green Chemistry</i> , 2013, 15, 3318.	4.6	75
29	Access to Lactone Building Blocks via Horse Liver Alcohol Dehydrogenase-Catalyzed Oxidative Lactonization. <i>ACS Catalysis</i> , 2013, 3, 2436-2439.	5.5	71
30	More efficient redox biocatalysis by utilising 1,4-butanediol as a "smart cosubstrate". <i>Green Chemistry</i> , 2013, 15, 330.	4.6	56
31	Controlling stereoselectivity by enzymatic and chemical means to access enantiomerically pure (1 <i>S</i> ,3 <i>R</i> )-1-benzyl-2,3-dimethyl-1,2,3,4-tetrahydroisoquinoline derivatives. <i>Tetrahedron: Asymmetry</i> , 2013, 24, 744-749.	1.8	6
32	Inverting the Regioselectivity of the Berberine Bridge Enzyme by Employing Customized Fluorine-Containing Substrates. <i>Chemistry - A European Journal</i> , 2012, 18, 13173-13179.	1.7	29
33	Biocatalytic Organic Synthesis of Optically Pure ( <i>S</i> )-Scoulerine and Berbine and Benzylisoquinoline Alkaloids. <i>Journal of Organic Chemistry</i> , 2011, 76, 6703-6714.	1.7	66
34	Novel carbon-carbon bond formations for biocatalysis. <i>Current Opinion in Biotechnology</i> , 2011, 22, 793-799.	3.3	77
35	Old Yellow Enzyme-Catalyzed Dehydrogenation of Saturated Ketones. <i>Advanced Synthesis and Catalysis</i> , 2011, 353, 268-274.	2.1	54
36	Biocatalytic Oxidative C-C Bond Formation Catalysed by the Berberine Bridge Enzyme: Optimal Reaction Conditions. <i>Advanced Synthesis and Catalysis</i> , 2011, 353, 2377-2383.	2.1	30

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37	Multi-Enzymatic Cascade Reactions: Overview and Perspectives. <i>Advanced Synthesis and Catalysis</i> , 2011, 353, 2239-2262.	2.1	433
38	Biocatalytic Enantioselective Oxidative C-C Coupling by Aerobic C-H Activation. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 1068-1071.	7.2	72
39	Cover Picture: Biocatalytic Enantioselective Oxidative C-C Coupling by Aerobic C-H Activation ( <i>Angew. Chem. Int. Ed.</i> 5/2011). <i>Angewandte Chemie - International Edition</i> , 2011, 50, 967-967.	7.2	0
40	Recent biocatalytic oxidation-reduction cascades. <i>Current Opinion in Chemical Biology</i> , 2011, 15, 249-256.	2.8	157
41	Immobilization of $\alpha$ -transaminases by encapsulation in a sol-gel/celite matrix. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2010, 63, 39-44.	1.8	68
42	Simultaneous iridium catalysed oxidation and enzymatic reduction employing orthogonal reagents. <i>Chemical Communications</i> , 2010, 46, 8046.	2.2	65
43	Biocatalytic Cascade for the Synthesis of Enantiopure $\alpha$ -Azidoalcohols and $\alpha$ -Hydroxynitriles. <i>European Journal of Organic Chemistry</i> , 2009, 2009, 2293-2298.	1.2	53
44	Shifting the equilibrium of a biocatalytic cascade synthesis to enantiopure epoxides using anion exchangers. <i>Tetrahedron: Asymmetry</i> , 2009, 20, 483-488.	1.8	24
45	Regioselective Biocatalytic C4-Prenylation of Unprotected Tryptophan Derivatives. <i>ChemBioChem</i> , 0, , .	1.3	5