

Jan-E Bäckvall

List of Publications by Year in descending order

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374
papers

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8159

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419
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419
times ranked

11626
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanistic aspects of transition metal-catalyzed hydrogen transfer reactions. <i>Chemical Society Reviews</i> , 2006, 35, 237.	18.7	997
2	Catalytic Oxidation of Organic Substrates by Molecular Oxygen and Hydrogen Peroxide by Multistep Electron Transfer—A Biomimetic Approach. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 3506-3523.	7.2	818
3	Combination of Enzymes and Metal Catalysts. A Powerful Approach in Asymmetric Catalysis. <i>Chemical Reviews</i> , 2003, 103, 3247-3262.	23.0	557
4	Title is missing!. <i>Chemical Society Reviews</i> , 2001, 30, 321-331.	18.7	485
5	Ruthenium- and Enzyme-Catalyzed Dynamic Kinetic Resolution of Secondary Alcohols. <i>Journal of the American Chemical Society</i> , 1999, 121, 1645-1650.	6.6	355
6	Chemoenzymatic Dynamic Kinetic Resolution: A Powerful Tool for the Preparation of Enantiomerically Pure Alcohols and Amines. <i>Journal of the American Chemical Society</i> , 2015, 137, 3996-4009.	6.6	324
7	Enzymatic Resolution of Alcohols Coupled with Ruthenium-Catalyzed Racemization of the Substrate Alcohol. <i>Angewandte Chemie International Edition in English</i> , 1997, 36, 1211-1212.	4.4	314
8	Transition metal hydrides as active intermediates in hydrogen transfer reactions. <i>Journal of Organometallic Chemistry</i> , 2002, 652, 105-111.	0.8	311
9	Efficient Ruthenium-Catalyzed Aerobic Oxidation of Alcohols Using a Biomimetic Coupled Catalytic System. <i>Journal of Organic Chemistry</i> , 2002, 67, 1657-1662.	1.7	302
10	Recent Advances in Enantioselective Pd-Catalyzed Allylic Substitution: From Design to Applications. <i>Chemical Reviews</i> , 2021, 121, 4373-4505.	23.0	302
11	Combined Ruthenium(II) and Lipase Catalysis for Efficient Dynamic Kinetic Resolution of Secondary Alcohols. Insight into the Racemization Mechanism. <i>Journal of the American Chemical Society</i> , 2005, 127, 8817-8825.	6.6	288
12	Dynamic kinetic resolution catalyzed by enzymes and metals. <i>Current Opinion in Chemical Biology</i> , 2007, 11, 226-232.	2.8	277
13	Chemoenzymatic Dynamic Kinetic Resolution of Primary Amines. <i>Journal of the American Chemical Society</i> , 2005, 127, 17620-17621.	6.6	270
14	Studies on the Mechanism of Metal-Catalyzed Hydrogen Transfer from Alcohols to Ketones. <i>Chemistry - A European Journal</i> , 2001, 7, 5052-5058.	1.7	266
15	Efficient Ruthenium-Catalyzed Aerobic Oxidation of Amines by Using a Biomimetic Coupled Catalytic System. <i>Chemistry - A European Journal</i> , 2005, 11, 2327-2334.	1.7	253
16	Ruthenium-Catalyzed Transfer Hydrogenation of Imines by Propan-2-ol in Benzene. <i>Chemistry - A European Journal</i> , 2002, 8, 2955.	1.7	201
17	Co-immobilization of an Enzyme and a Metal into the Compartments of Mesoporous Silica for Cooperative Tandem Catalysis: An Artificial Metalloenzyme. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 14006-14010.	7.2	196
18	Highly Compatible Metal and Enzyme Catalysts for Efficient Dynamic Kinetic Resolution of Alcohols at Ambient Temperature. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 6535-6539.	7.2	193

#	ARTICLE	IF	CITATIONS
19	Efficient ruthenium-catalysed transfer hydrogenation of ketones by propan-2-ol. <i>Journal of the Chemical Society Chemical Communications</i> , 1991, .	2.0	181
20	Ruthenium-catalysed aerobic oxidation of alcohols via multistep electron transfer. <i>Journal of the Chemical Society Chemical Communications</i> , 1991, , 473-475.	2.0	178
21	X-ray Structure of <i>Candida antarctica</i> Lipase A Shows a Novel Lid Structure and a Likely Mode of Interfacial Activation. <i>Journal of Molecular Biology</i> , 2008, 376, 109-119.	2.0	172
22	Evidence for a ruthenium dihydride species as the active catalyst in the RuCl ₂ (PPh ₃)-catalyzed hydrogen transfer reaction in the presence of base. <i>Chemical Communications</i> , 1999, , 351-352.	2.2	163
23	Ruthenium(II)-Catalyzed Oppenauer-Type Oxidation of Secondary Alcohols. <i>Chemistry - A European Journal</i> , 1996, 2, 1533-1536.	1.7	159
24	Control of Selectivity in Palladium(II)-Catalyzed Oxidative Transformations of Allenes. <i>Accounts of Chemical Research</i> , 2018, 51, 1520-1531.	7.6	156
25	Chemoenzymatic dynamic kinetic resolution. <i>Trends in Biotechnology</i> , 2004, 22, 130-135.	4.9	146
26	Dynamic Kinetic Resolution of $\hat{\pm}$ -Hydroxy Acid Esters. <i>Organic Letters</i> , 2000, 2, 1037-1040.	2.4	142
27	A Chemoenzymatic Approach to Enantiomerically Pure Amines Using Dynamic Kinetic Resolution: Application to the Synthesis of Norsertaline. <i>Chemistry - A European Journal</i> , 2009, 15, 3403-3410.	1.7	142
28	Enantioselective $\hat{\pm}$ -Hydroxylation of 2-Arylacetic Acid Derivatives and Buspirone Catalyzed by Engineered Cytochrome P450 BM-3. <i>Journal of the American Chemical Society</i> , 2006, 128, 6058-6059.	6.6	141
29	The Use of Sulfonyl 1,3-Dienes in Organic Synthesis. <i>Chemical Reviews</i> , 1998, 98, 2291-2312.	23.0	136
30	Osmium-Catalyzed Asymmetric Dihydroxylation of Olefins by H ₂ O ₂ Using a Biomimetic Flavin-Based Coupled Catalytic System. <i>Journal of the American Chemical Society</i> , 2001, 123, 1365-1371.	6.6	133
31	An efficient and mild ruthenium-catalyzed racemization of amines: application to the synthesis of enantiomerically pure amines. <i>Tetrahedron Letters</i> , 2002, 43, 4699-4702.	0.7	131
32	Chiral arenethiolatocopper(I) catalyzed substitution reactions of acyclic allylic substrates with Grignard reagents. <i>Tetrahedron Letters</i> , 1995, 36, 3059-3062.	0.7	130
33	Dehydrogenation of aromatic amines to imines via ruthenium-catalyzed hydrogen transfer. <i>Chemical Communications</i> , 2002, , 1144-1145.	2.2	129
34	Carbon-Carbon Bond Formation in Palladium(II)-Catalyzed Allylic Oxidation: A Novel Oxidative Carbocyclization of Allene-Substituted Olefins. <i>Journal of the American Chemical Society</i> , 2003, 125, 6056-6057.	6.6	126
35	Ruthenium-catalyzed isomerization of allylic alcohols to saturated ketones. <i>Tetrahedron Letters</i> , 1993, 34, 5459-5462.	0.7	125
36	Palladium(II)-Catalyzed Cyclization Using Molecular Oxygen as Reoxidant. <i>Tetrahedron Letters</i> , 1995, 36, 7749-7752.	0.7	125

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37	Mechanistic Study of Hydrogen Transfer to Imines from a Hydroxycyclopentadienyl Ruthenium Hydride. Experimental Support for a Mechanism Involving Coordination of Imine to Ruthenium Prior to Hydrogen Transfer. <i>Journal of the American Chemical Society</i> , 2006, 128, 14293-14305.	6.6	125
38	Mechanism of Ruthenium-Catalyzed Hydrogen Transfer Reactions. Concerted Transfer of OH and CH Hydrogens from an Alcohol to a (Cyclopentadienone)ruthenium Complex. <i>Journal of Organic Chemistry</i> , 2003, 68, 7681-7684.	1.7	124
39	Dynamic Kinetic Resolution of Secondary Diols via Coupled Ruthenium and Enzyme Catalysis. <i>Journal of Organic Chemistry</i> , 1999, 64, 5237-5240.	1.7	121
40	Combinatorial reshaping of the <i>Candida antarctica</i> lipase A substrate pocket for enantioselectivity using an extremely condensed library. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 78-83.	3.3	120
41	Dynamic Kinetic Resolution of $\hat{1}^2$ -Azido Alcohols. An Efficient Route to Chiral Aziridines and $\hat{1}^2$ -Amino Alcohols. <i>Journal of Organic Chemistry</i> , 2001, 66, 4022-4025.	1.7	117
42	Palladium-promoted addition of amines to isolated double bonds. <i>Journal of Organometallic Chemistry</i> , 1974, 72, 127-138.	0.8	116
43	Multi-step catalysis for the oxidation of olefins to ketones by molecular oxygen in chloride free media. <i>Tetrahedron Letters</i> , 1988, 29, 2885-2888.	0.7	113
44	Palladium(II)-Catalyzed Oxidative Carbocyclization of Azaallenes. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 4624-4627.	7.2	113
45	Intramolecular Palladium(II)-Catalyzed 1,2-Addition to Allenes. <i>Journal of the American Chemical Society</i> , 2000, 122, 9600-9609.	6.6	112
46	The <i>syn</i> / <i>anti</i> -Dichotomy in the Palladium-Catalyzed Addition of Nucleophiles to Alkenes. <i>Chemistry - A European Journal</i> , 2015, 21, 36-56.	1.7	112
47	Mild and Efficient Flavin-Catalyzed H ₂ O ₂ Oxidation of Tertiary Amines to Amine N-Oxides. <i>Journal of Organic Chemistry</i> , 1998, 63, 6650-6655.	1.7	111
48	(S)-Selective Kinetic Resolution and Chemoenzymatic Dynamic Kinetic Resolution of Secondary Alcohols. <i>Chemistry - A European Journal</i> , 2006, 12, 225-232.	1.7	110
49	PdII-Catalyzed Aerobic Allylic Oxidative Carbocyclization of Allene-Substituted Olefins: Immobilization of an Oxygen-Activating Catalyst. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 6914-6917.	7.2	109
50	Aerobic oxidation of secondary alcohols via ruthenium-catalysed hydrogen transfer involving a new triple catalytic system. <i>Journal of the Chemical Society Chemical Communications</i> , 1994, , 1037-1038.	2.0	108
51	A New Coupled Catalytic System for Dihydroxylation of Olefins by H ₂ O ₂ . <i>Journal of the American Chemical Society</i> , 1999, 121, 10424-10425.	6.6	107
52	Directed Evolution of an Enantioselective Lipase with Broad Substrate Scope for Hydrolysis of $\hat{1}^{\pm}$ -Substituted Esters. <i>Journal of the American Chemical Society</i> , 2010, 132, 7038-7042.	6.6	106
53	An Efficient Route to Chiral $\hat{1}^{\pm}$ - and $\hat{1}^2$ -Hydroxyalkanephosphonates. <i>Journal of Organic Chemistry</i> , 2003, 68, 4815-4818.	1.7	105
54	Enantioselective Synthesis of $\hat{1}^2$ -Hydroxy Acid Derivatives via a One-Pot Aldol Reaction~Dynamic Kinetic Resolution. <i>Organic Letters</i> , 2001, 3, 1209-1212.	2.4	103

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55	Highly Selective Sulfoxidation of Allylic and Vinylic Sulfides by Hydrogen Peroxide Using a Flavin as Catalyst. <i>Journal of Organic Chemistry</i> , 2003, 68, 5890-5896.	1.7	103
56	Palladium-Catalyzed Oxidative Carbocyclizations. <i>Chemistry - A European Journal</i> , 2012, 18, 11498-11523.	1.7	103
57	Highly Efficient Redox Isomerization of Allylic Alcohols at Ambient Temperature Catalyzed by Novel Ruthenium-Cyclopentadienyl Complexes—New Insight into the Mechanism. <i>Chemistry - A European Journal</i> , 2005, 11, 5832-5842.	1.7	99
58	Water as Nucleophile in Palladium-Catalyzed Oxidative Carbohydroxylation of Allene-Substituted Conjugated Dienes. <i>Journal of the American Chemical Society</i> , 2007, 129, 14120-14121.	6.6	99
59	Palladium-Catalyzed Oxidative Borylative Carbocyclization of Enallenes. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 6155-6159.	7.2	96
60	Evidence for (η -allyl)palladium(II)(quinone) complexes in the palladium-catalyzed 1,4-diacetoxylation of conjugated dienes. <i>Tetrahedron Letters</i> , 1988, 29, 2243-2246.	0.7	95
61	Enzymatische Racematspaltung von Alkoholen gekoppelt mit Ruthenium-katalysierter Racemisierung des Substrat-Alkohols. <i>Angewandte Chemie</i> , 1997, 109, 1256-1258.	1.6	92
62	Ruthenium-catalysed transfer hydrogenation of imines by propan-2-ol. <i>Journal of the Chemical Society Chemical Communications</i> , 1992, , 980-982.	2.0	89
63	Zeolite-Encapsulated Cobalt Salophen Complexes as Efficient Oxygen-Activating Catalysts in Palladium-Catalyzed Aerobic 1,4-Oxidation of 1,3-Dienes. <i>Chemistry - A European Journal</i> , 1999, 5, 1460-1467.	1.7	89
64	Enzymatic Kinetic Resolution and Chemoenzymatic Dynamic Kinetic Resolution of β -Hydroxy Esters. An Efficient Route to Chiral β -Lactones. <i>Journal of Organic Chemistry</i> , 2002, 67, 1261-1265.	1.7	88
65	Chemoenzymatic Dynamic Kinetic Resolution of Axially Chiral Allenes. <i>Chemistry - A European Journal</i> , 2010, 16, 4447-4451.	1.7	85
66	Palladium-catalyzed oxidative dehydrogenative carbonylation reactions using carbon monoxide and mechanistic overviews. <i>Chemical Society Reviews</i> , 2020, 49, 341-353.	18.7	85
67	Asymmetric Induction in the Arenethiolatocopper(I)-Catalyzed Substitution Reaction of Grignard Reagents with Allylic Substrates. <i>Tetrahedron</i> , 2000, 56, 2895-2903.	1.0	83
68	Mechanistic investigation on the hydrogenation of imines by [p-(Me ₂ CH)C ₆ H ₄ Me]RuH(NH ₂ CHPhCHPhNSO ₂ C ₆ H ₄ -p-CH ₃). Experimental support for an ionic pathway. <i>Chemical Communications</i> , 2006, , 2771-2773.	2.2	83
69	Highly Selective Cascade C—C Bond Formation via Palladium-Catalyzed Oxidative Carbonylation—Carbocyclization—Carbonylation—Alkynylation of Enallenes. <i>Journal of the American Chemical Society</i> , 2015, 137, 11868-11871.	6.6	83
70	Iron-Catalyzed Cross-Coupling of Propargyl Carboxylates and Grignard Reagents: Synthesis of Substituted Allenes. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 3734-3738.	7.2	82
71	η -Chelating Arenethiolatocopper(I) Complexes as Versatile Catalysts in the Regioselective Cross-Coupling of Allylic Derivatives with n -BuMgI—An Example of Reversed Reactivity of Leaving Groups. <i>Chemistry - A European Journal</i> , 1995, 1, 351-359.	1.7	81
72	Chemoenzymatic Dynamic Kinetic Resolution of β -Halo Alcohols. An Efficient Route to Chiral Epoxides. <i>Journal of Organic Chemistry</i> , 2002, 67, 9006-9010.	1.7	81

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73	New efficient ruthenium catalysts for racemization of alcohols at room temperature. <i>Tetrahedron Letters</i> , 2004, 45, 6799-6802.	0.7	81
74	Highly Dispersed Palladium Nanoparticles on Mesocellular Foam: An Efficient and Recyclable Heterogeneous Catalyst for Alcohol Oxidation. <i>Chemistry - A European Journal</i> , 2012, 18, 12202-12206.	1.7	80
75	Mild Deoxygenation of Aromatic Ketones and Aldehydes over Pd/C Using Polymethylhydrosiloxane as the Reducing Agent. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 5122-5126.	7.2	80
76	Experimental Evidence Supporting a CuIII Intermediate in Cross-Coupling Reactions of Allylic Esters with Diallylcuprate Species. <i>Chemistry - A European Journal</i> , 2001, 7, 1981-1989.	1.7	78
77	Highly Efficient Route for Enantioselective Preparation of Chlorohydrins via Dynamic Kinetic Resolution. <i>Organic Letters</i> , 2008, 10, 4807-4810.	2.4	78
78	A Chemoenzymatic Dynamic Kinetic Resolution Approach to Enantiomerically Pure (<i>R</i>)- and (<i>S</i>)-Duloxetine. <i>Journal of Organic Chemistry</i> , 2011, 76, 3917-3921.	1.7	77
79	Ruthenium-catalysed oxidation of alcohols by acetone. <i>Journal of the Chemical Society Chemical Communications</i> , 1992, , 337-339.	2.0	76
80	Central versus Terminal Attack in Nucleophilic Addition to (η -Allyl)palladium Complexes. Ligand Effects and Mechanism. <i>Organometallics</i> , 1997, 16, 1058-1064.	1.1	76
81	Mechanism of Palladium-Catalyzed Allylic Acetoxylation of Cyclohexene. <i>Chemistry - A European Journal</i> , 1998, 4, 1083-1089.	1.7	76
82	Efficient and Selective Sulfoxidation by Hydrogen Peroxide, Using a Recyclable Flavin ⁺ [BMIm]PF ₆ Catalytic System. <i>Journal of Organic Chemistry</i> , 2006, 71, 3849-3853.	1.7	75
83	Small Pd Nanoparticles Supported in Large Pores of Mesocellular Foam: An Excellent Catalyst for Racemization of Amines. <i>Chemistry - A European Journal</i> , 2011, 17, 13269-13273.	1.7	75
84	Synthesis of protected allylamines via palladium-catalyzed amide addition to allylic substrates. <i>Tetrahedron Letters</i> , 1985, 26, 1749-1752.	0.7	74
85	Mild and Efficient Flavin-Catalyzed H ₂ O ₂ Oxidations. <i>Chemistry - A European Journal</i> , 2001, 7, 297-302.	1.7	74
86	Synthesis of Conjugated Dienes via a Biomimetic Aerobic Oxidative Coupling of Two C_{vinyl}-H Bonds. <i>Chemistry - A European Journal</i> , 2013, 19, 10799-10803.	1.7	74
87	New Concepts for Increasing the Efficiency in Directed Evolution of Stereoselective Enzymes. <i>Chemistry - A European Journal</i> , 2016, 22, 5046-5054.	1.7	74
88	Ruthenium-Catalyzed Oppenauer-Type Oxidation of 3 β -Hydroxy Steroids. A Highly Efficient Entry into the Steroidal Hormones with 4-En-3-one Functionality. <i>Journal of Organic Chemistry</i> , 1996, 61, 6587-6590.	1.7	73
89	Control of Selectivity in Palladium-Catalyzed Oxidative Carbocyclization/Borylation of Allenynes. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 6283-6287.	7.2	73
90	Olefin-Directed Palladium-Catalyzed Regio- and Stereoselective Oxidative Arylation of Allenes. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 9066-9069.	7.2	72

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91	Palladium(II)/Brønsted Acid-Catalyzed Enantioselective Oxidative Carbocyclization-Borylation of Enallenes. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 6024-6027.	7.2	72
92	Asymmetric Catalysis Special Feature Part II: One-pot synthesis of enantiopure syn-1,3-diacetates from racemic syn/anti mixtures of 1,3-diols by dynamic kinetic asymmetric transformation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 5761-5766.	3.3	71
93	Enantioselective Synthesis of <i>syn</i> - and <i>anti</i> -1,3-Aminoalcohols via \hat{I}^2 -Aminoketones and Subsequent Reduction/Dynamic Kinetic Asymmetric Transformation. <i>Journal of the American Chemical Society</i> , 2010, 132, 15182-15184.	6.6	70
94	Palladium-hydroquinone catalysed electrochemical 1,4-oxidation of conjugated dienes. <i>Journal of the Chemical Society Chemical Communications</i> , 1987, .	2.0	69
95	Mechanistic studies on ruthenium-catalyzed hydrogen transfer reactions. <i>Chemical Communications</i> , 2000, , 611-612.	2.2	69
96	Shvo's Catalyst in Hydrogen Transfer Reactions. <i>Topics in Organometallic Chemistry</i> , 2011, , 85-125.	0.7	69
97	Artificial Metalloenzymes in Asymmetric Catalysis: Key Developments and Future Directions. <i>Advanced Synthesis and Catalysis</i> , 2015, 357, 1567-1586.	2.1	67
98	Carbon-Carbon Bond Formation in Regio- and Stereoselective Palladium-Catalyzed Cyclization of Allene-Substituted Conjugated Dienes. <i>Journal of Organic Chemistry</i> , 2001, 66, 8015-8025.	1.7	66
99	Efficient Lipase-Catalyzed Kinetic Resolution and Dynamic Kinetic Resolution of \hat{I}^2 -Hydroxy Nitriles. A Route to Useful Precursors for \hat{I}^3 -Amino Alcohols. <i>Advanced Synthesis and Catalysis</i> , 2001, 343, 726-731.	2.1	66
100	Enzymatic Resolution, Desymmetrization, and Dynamic Kinetic Asymmetric Transformation of 1,3-Cycloalkanediols. <i>Journal of Organic Chemistry</i> , 2006, 71, 6309-6316.	1.7	66
101	Practical chemoenzymatic dynamic kinetic resolution of primary amines via transfer of a readily removable benzyloxycarbonyl group. <i>Tetrahedron Letters</i> , 2008, 49, 977-979.	0.7	66
102	Palladium-Catalyzed Oxidative Carbocyclization-Borylation of Enallenes to Cyclobutenes. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 6520-6524.	7.2	66
103	Chiral Benzoquinones as a New Class of Ligands for Asymmetric Catalysis: Synthesis and Application to the Palladium(II)-Catalyzed 1,4-Dialkoxylation of 1,3-Dienes. <i>Journal of Organic Chemistry</i> , 1998, 63, 6466-6471.	1.7	65
104	Chemoenzymatic Dynamic Kinetic Resolution of Allylic Alcohols: A Highly Enantioselective Route to Acyloin Acetates. <i>Organic Letters</i> , 2007, 9, 3401-3404.	2.4	64
105	Highly Enantioselective Resolution of \hat{I}^2 -Amino Esters by <i>Candida antarctica</i> Lipase... A Immobilized in Mesocellular Foam: Application to Dynamic Kinetic Resolution.. <i>ChemCatChem</i> , 2010, 2, 534-538.	1.8	64
106	Enantioselective Enzymatic Desymmetrization of Prochiral Allenic Diols. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 9731-9734.	7.2	64
107	Palladium-Catalyzed Oxidative Arylating Carbocyclization of Allenynes. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 2703-2707.	7.2	64
108	Palladium-Catalyzed Aerobic Domino Oxidative Carbocyclization-Alkynylation of Allenynes. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 14209-14213.	7.2	64

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109	Design of a Pd(0)-CalB CLEA Biohybrid Catalyst and Its Application in a One-Pot Cascade Reaction. <i>ACS Catalysis</i> , 2017, 7, 1601-1605.	5.5	64
110	Chemodivergent and Diastereoselective Synthesis of $\hat{\beta}$ -Lactones and $\hat{\beta}$ -Lactams: A Heterogeneous Palladium-Catalyzed Oxidative Tandem Process. <i>Journal of the American Chemical Society</i> , 2018, 140, 14604-14608.	6.6	64
111	In Situ Generation of Nitroso Compounds from Catalytic Hydrogen Peroxide Oxidation of Primary Aromatic Amines and Their One-Pot Use in Hetero-Diels-Alder Reactions. <i>European Journal of Organic Chemistry</i> , 2007, 2007, 4431-4436.	1.2	63
112	Chemoselective Arylation of Indoles with Heterogeneous Nanopalladium and Diaryliodonium Salts. <i>Chemistry - A European Journal</i> , 2014, 20, 13531-13535.	1.7	63
113	Mechanistic Aspects on Cyclopentadienylruthenium Complexes in Catalytic Racemization of Alcohols. <i>Accounts of Chemical Research</i> , 2013, 46, 2545-2555.	7.6	62
114	Dynamic kinetic resolution of $\hat{\beta}$ -hydroxy acid derivatives. <i>Tetrahedron Letters</i> , 2002, 43, 2983-2986.	0.7	61
115	Aerobic Oxidative Coupling of Arenes and Olefins through a Biomimetic Approach. <i>Chemistry - A European Journal</i> , 2013, 19, 4140-4145.	1.7	61
116	Aerobic Lactonization of Diols by Biomimetic Oxidation. <i>Chemistry - A European Journal</i> , 2011, 17, 12596-12601.	1.7	60
117	The steric course of the palladium promoted amination of simple olefins. <i>Tetrahedron Letters</i> , 1974, 15, 1363-1366.	0.7	59
118	On the Mechanism of Palladium(0)-Catalyzed Reactions of Allylic Substrates with Nucleophiles. Origin of the Loss of Stereospecificity. <i>Israel Journal of Chemistry</i> , 1991, 31, 17-24.	1.0	59
119	Cobalt Tetra(hydroquinone)porphyrin: An Efficient Electron Transfer Reagent in Aerobic Pd-Catalyzed 1,4-Diacetoxylation of 1,3-Cyclohexadiene. <i>Angewandte Chemie International Edition in English</i> , 1993, 32, 263-264.	4.4	59
120	MTO and OsO ₄ : An Efficient Catalytic Couple for Mild H ₂ O ₂ -Based Asymmetric Dihydroxylation of Olefins. <i>Chemistry - A European Journal</i> , 2003, 9, 2783-2788.	1.7	59
121	Biomimetic Oxidative Coupling of Benzylamines and α -Aminophenols: Synthesis of Benzoxazoles. <i>Chemistry - A European Journal</i> , 2012, 18, 13609-13613.	1.7	58
122	Aerobic Oxidations of Conjugated Dienes Using a Catalytic Palladium(II)-Quinone-Heteropolyacid System for Electron Transfer from Organic Substrates to Molecular Oxygen. <i>Organometallics</i> , 1998, 17, 45-50.	1.1	57
123	Combined metal catalysis and biocatalysis for an efficient deracemization process. <i>Current Opinion in Biotechnology</i> , 2003, 14, 407-413.	3.3	57
124	Highly Compatible Metal and Enzyme Catalysts for Efficient Dynamic Kinetic Resolution of Alcohols at Ambient Temperature. <i>Angewandte Chemie</i> , 2004, 116, 6697-6701.	1.6	57
125	Mechanism of hydrogen transfer to imines from a hydroxycyclopentadienyl ruthenium hydride. Support for a stepwise mechanism. <i>Chemical Communications</i> , 2004, , 2748-2749.	2.2	57
126	Ruthenium- and Enzyme-Catalyzed Dynamic Kinetic Asymmetric Transformation of 1,4-Diols: Synthesis of $\hat{\beta}$ -Hydroxy Ketones. <i>Journal of Organic Chemistry</i> , 2004, 69, 9191-9195.	1.7	57

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128	Highly Efficient Synthesis of Enantiopure Diacetylated C_2 -Symmetric Diols by Ruthenium- and Enzyme-Catalyzed Dynamic Kinetic Asymmetric Transformation (DYKAT). <i>Chemistry - A European Journal</i> , 2006, 12, 6053-6061.	1.7	56
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