

Jan-E Bckvall

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404
papers

20,692
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72
h-index

120
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419
ext. papers

22,395
ext. citations

7.6
avg, IF

7.27
L-index

#	Paper	IF	Citations
404	Mechanistic aspects of transition metal-catalyzed hydrogen transfer reactions. <i>Chemical Society Reviews</i> , 2006 , 35, 237-48	58.5	930
403	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, 3506-23	16.4	740
402	Combination of enzymes and metal catalysts. A powerful approach in asymmetric catalysis. <i>Chemical Reviews</i> , 2003 , 103, 3247-62	68.1	515
401	Racemisation in asymmetric synthesis. Dynamic kinetic resolution and related processes in enzyme and metal catalysis. <i>Chemical Society Reviews</i> , 2001 , 30, 321-331	58.5	421
400	Ruthenium- and Enzyme-Catalyzed Dynamic Kinetic Resolution of Secondary Alcohols. <i>Journal of the American Chemical Society</i> , 1999 , 121, 1645-1650	16.4	332
399	Transition metal hydrides as active intermediates in hydrogen transfer reactions. <i>Journal of Organometallic Chemistry</i> , 2002 , 652, 105-111	2.3	291
398	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		279
397	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, 8817-25	16.4	265
396	Efficient ruthenium-catalyzed aerobic oxidation of alcohols using a biomimetic coupled catalytic system. <i>Journal of Organic Chemistry</i> , 2002 , 67, 1657-62	4.2	264
395	Dynamic kinetic resolution catalyzed by enzymes and metals. <i>Current Opinion in Chemical Biology</i> , 2007 , 11, 226-32	9.7	260
394	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	16.4	253
393	Chemoenzymatic dynamic kinetic resolution of primary amines. <i>Journal of the American Chemical Society</i> , 2005 , 127, 17620-1	16.4	244
392	Studies on the mechanism of metal-catalyzed hydrogen transfer from alcohols to ketones. <i>Chemistry - A European Journal</i> , 2001 , 7, 5052-8	4.8	244
391	Efficient ruthenium-catalyzed aerobic oxidation of amines by using a biomimetic coupled catalytic system. <i>Chemistry - A European Journal</i> , 2005 , 11, 2327-34	4.8	236
390	Katalytische Oxidation von organischen Substraten durch molekularen Sauerstoff und Wasserstoffperoxid über einen mehrstufigen Elektronentransfer – ein biomimetischer Ansatz. <i>Angewandte Chemie</i> , 2008 , 120, 3558-3576	3.6	218
389	Ruthenium-catalyzed transfer hydrogenation of imines by propan-2-ol in benzene. <i>Chemistry - A European Journal</i> , 2002 , 8, 2955-61	4.8	176
388	Highly compatible metal and enzyme catalysts for efficient dynamic kinetic resolution of alcohols at ambient temperature. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 6535-9	16.4	170

387	Efficient ruthenium-catalysed transfer hydrogenation of ketones by propan-2-ol. <i>Journal of the Chemical Society Chemical Communications</i> , 1991 , 1063-1064		169
386	Ruthenium-catalysed aerobic oxidation of alcohols via multistep electron transfer. <i>Journal of the Chemical Society Chemical Communications</i> , 1991 , 473-475		161
385	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	5.8	155
384	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, 109-19	6.5	154
383	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, 14006-10	16.4	150
382	Chemoenzymatic dynamic kinetic resolution. <i>Trends in Biotechnology</i> , 2004 , 22, 130-5	15.1	137
381	Ruthenium(II)-Catalyzed Oppenauer-Type Oxidation of Secondary Alcohols. <i>Chemistry - A European Journal</i> , 1996 , 2, 1533-1536	4.8	135
380	Enantioselective alpha-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, 6058-9	16.4	130
379	Dynamic kinetic resolution of alpha-hydroxy acid esters. <i>Organic Letters</i> , 2000 , 2, 1037-40	6.2	130
378	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, 3403-10	4.8	126
377	Dehydrogenation of aromatic amines to imines via ruthenium-catalyzed hydrogen transfer. <i>Chemical Communications</i> , 2002 , 1144-5	5.8	122
376	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, 6056-7	16.4	119
375	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, 14293-305	16.4	117
374	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, 7681-4	4.2	116
373	The Use of Sulfonyl 1,3-Dienes in Organic Synthesis. <i>Chemical Reviews</i> , 1998 , 98, 2291-2312	68.1	115
372	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	2	114
371	Chiral arenethiolatocopper(I) catalyzed substitution reactions of acyclic allylic substrates with Grignard reagents. <i>Tetrahedron Letters</i> , 1995 , 36, 3059-3062	2	112
370	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	16.4	111

- 369 Dynamic kinetic resolution of beta-azido alcohols. An efficient route to chiral aziridines and beta-amino alcohols. *Journal of Organic Chemistry*, **2001**, 66, 4022-5 4.2 108
- 368 Palladium(II)-catalyzed oxidative carbocyclization of aza-enallenes. *Angewandte Chemie - International Edition*, **2010**, 49, 4624-7 16.4 107
- 367 PdII-catalyzed aerobic allylic oxidative carbocyclization of allene-substituted olefins: immobilization of an oxygen-activating catalyst. *Angewandte Chemie - International Edition*, **2006**, 45, 6914-7 16.4 106
- 366 Dynamic Kinetic Resolution of Secondary Diols via Coupled Ruthenium and Enzyme Catalysis. *Journal of Organic Chemistry*, **1999**, 64, 5237-5240 4.2 105
- 365 Ruthenium-catalyzed isomerization of allylic alcohols to saturated ketones. *Tetrahedron Letters*, **1993**, 34, 5459-5462 2 104
- 364 Control of Selectivity in Palladium(II)-Catalyzed Oxidative Transformations of Allenes. *Accounts of Chemical Research*, **2018**, 51, 1520-1531 24.3 104
- 363 Combinatorial reshaping of the *Candida antarctica* lipase A substrate pocket for enantioselectivity using an extremely condensed library. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 78-83 11.5 103
- 362 Palladium(II)-Catalyzed Cyclization Using Molecular Oxygen as Reoxidant. *Tetrahedron Letters*, **1995**, 36, 7749-7752 2 103
- 361 Intramolecular Palladium(II)-Catalyzed 1,2-Addition to Allenes. *Journal of the American Chemical Society*, **2000**, 122, 9600-9609 16.4 101
- 360 Multi-step catalysis for the oxidation of olefins to ketones by molecular oxygen in chloride free media. *Tetrahedron Letters*, **1988**, 29, 2885-2888 2 100
- 359 Palladium-catalyzed oxidative carbocyclizations. *Chemistry - A European Journal*, **2012**, 18, 11498-523 4.8 99
- 358 (S)-selective kinetic resolution and chemoenzymatic dynamic kinetic resolution of secondary alcohols. *Chemistry - A European Journal*, **2005**, 12, 225-32 4.8 98
- 357 Water as nucleophile in palladium-catalyzed oxidative carbohydroxylation of allene-substituted conjugated dienes. *Journal of the American Chemical Society*, **2007**, 129, 14120-1 16.4 98
- 356 An efficient route to chiral alpha- and beta-hydroxyalkane phosphonates. *Journal of Organic Chemistry*, **2003**, 68, 4815-8 4.2 96
- 355 Mild and Efficient Flavin-Catalyzed H₂O₂ Oxidation of Tertiary Amines to Amine N-Oxides. *Journal of Organic Chemistry*, **1998**, 63, 6650-6655 4.2 96
- 354 Aerobic oxidation of secondary alcohols via ruthenium-catalysed hydrogen transfer involving a new triple catalytic system. *Journal of the Chemical Society Chemical Communications*, **1994**, 1037-1038 96
- 353 Palladium-promoted addition of amines to isolated double bonds. *Journal of Organometallic Chemistry*, **1974**, 72, 127-138 2.3 96
- 352 Directed evolution of an enantioselective lipase with broad substrate scope for hydrolysis of alpha-substituted esters. *Journal of the American Chemical Society*, **2010**, 132, 7038-42 16.4 95

351	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, 5832-42	4.8	93
350	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	16.4	92
349	Palladium-catalyzed oxidative borylative carbocyclization of enallenes. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 6155-9	16.4	90
348	The syn/anti-dichotomy in the palladium-catalyzed addition of nucleophiles to alkenes. <i>Chemistry - A European Journal</i> , 2015 , 21, 36-56	4.8	89
347	Evidence for (allyl)palladium(II)(quinone) complexes in the palladium-catalyzed 1,4-diacetoxylation of conjugated dienes. <i>Tetrahedron Letters</i> , 1988 , 29, 2243-2246	2	89
346	Enantioselective synthesis of beta-hydroxy acid derivatives via a one-pot aldol reaction-dynamic kinetic resolution. <i>Organic Letters</i> , 2001 , 3, 1209-12	6.2	87
345	Highly selective sulfoxidation of allylic and vinylic sulfides by hydrogen peroxide using a flavin as catalyst. <i>Journal of Organic Chemistry</i> , 2003 , 68, 5890-6	4.2	86
344	Photosensitized Water Oxidation by Use of a Bioinspired Manganese Catalyst. <i>Angewandte Chemie</i> , 2011 , 123, 11919-11922	3.6	83
343	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 , 2771-3	5.8	79
342	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	4.8	79
341	Ruthenium-catalysed transfer hydrogenation of imines by propan-2-ol. <i>Journal of the Chemical Society Chemical Communications</i> , 1992 , 980-982		79
340	Recent Advances in Enantioselective Pd-Catalyzed Allylic Substitution: From Design to Applications. <i>Chemical Reviews</i> , 2021 , 121, 4373-4505	68.1	78
339	Enzymatische Racematspaltung von Alkoholen gekoppelt mit Ruthenium-katalysierter Racemisierung des Substrat-Alkohols. <i>Angewandte Chemie</i> , 1997 , 109, 1256-1258	3.6	77
338	Highly dispersed palladium nanoparticles on mesocellular foam: an efficient and recyclable heterogeneous catalyst for alcohol oxidation. <i>Chemistry - A European Journal</i> , 2012 , 18, 12202-6	4.8	74
337	New efficient ruthenium catalysts for racemization of alcohols at room temperature. <i>Tetrahedron Letters</i> , 2004 , 45, 6799-6802	2	74
336	ortho-Chelating Arenethiolatocopper(I) Complexes as Versatile Catalysts in the Regioselective Cross-Coupling of Allylic Derivatives with nBuMgI. An Example of Reversed Reactivity of Leaving Groups. <i>Chemistry - A European Journal</i> , 1995 , 1, 351-359	4.8	74
335	Enzymatic kinetic resolution and chemoenzymatic dynamic kinetic resolution of delta-hydroxy esters. An efficient route to chiral delta-lactones. <i>Journal of Organic Chemistry</i> , 2002 , 67, 1261-5	4.2	73
334	Chemoenzymatic dynamic kinetic resolution of axially chiral allenes. <i>Chemistry - A European Journal</i> , 2010 , 16, 4447-51	4.8	72

333	Highly efficient route for enantioselective preparation of chlorohydrins via dynamic kinetic resolution. <i>Organic Letters</i> , 2008 , 10, 4807-10	6.2	72
332	Central versus Terminal Attack in Nucleophilic Addition to (EAllyl)palladium Complexes. Ligand Effects and Mechanism. <i>Organometallics</i> , 1997 , 16, 1058-1064	3.8	71
331	Experimental evidence supporting a CuIII intermediate in cross-coupling reactions of allylic esters with diallylcuprate species. <i>Chemistry - A European Journal</i> , 2001 , 7, 1981-9	4.8	71
330	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, 11868-71	16.4	70
329	Chemoenzymatic dynamic kinetic resolution of beta-halo alcohols. An efficient route to chiral epoxides. <i>Journal of Organic Chemistry</i> , 2002 , 67, 9006-10	4.2	70
328	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, 13269-73	4.8	69
327	Mild and efficient flavin-catalyzed H ₂ O ₂ oxidations. <i>Chemistry - A European Journal</i> , 2001 , 7, 297-302	4.8	69
326	Ruthenium-catalysed oxidation of alcohols by acetone. <i>Journal of the Chemical Society Chemical Communications</i> , 1992 , 337-339		69
325	Mechanism of Palladium-Catalyzed Allylic Acetoxylation of Cyclohexene. <i>Chemistry - A European Journal</i> , 1998 , 4, 1083-1089	4.8	68
324	Efficient and selective sulfoxidation by hydrogen peroxide, using a recyclable flavin--[BMIm]PF ₆ catalytic system. <i>Journal of Organic Chemistry</i> , 2006 , 71, 3849-53	4.2	68
323	Palladium(II)/Brønsted Acid-Catalyzed Enantioselective Oxidative Carbocyclization-Borylation of Enallenes. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 6024-7	16.4	66
322	Asymmetric Induction in the Arenethiolatocopper(I)-Catalyzed Substitution Reaction of Grignard Reagents with Allylic Substrates. <i>Tetrahedron</i> , 2000 , 56, 2895-2903	2.4	66
321	Mechanistic studies on ruthenium-catalyzed hydrogen transfer reactions. <i>Chemical Communications</i> , 2000 , 611-612	5.8	66
320	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, 5761-6	11.5	65
319	Control of selectivity in palladium-catalyzed oxidative carbocyclization/borylation of allenynes. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 6283-7	16.4	64
318	Shvo's Catalyst in Hydrogen Transfer Reactions. <i>Topics in Organometallic Chemistry</i> , 2011 , 85-125	0.6	64
317	Ruthenium-Catalyzed Oppenauer-Type Oxidation of 3beta-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	4.2	64
316	New Concepts for Increasing the Efficiency in Directed Evolution of Stereoselective Enzymes. <i>Chemistry - A European Journal</i> , 2016 , 22, 5046-54	4.8	64

315	Mild deoxygenation of aromatic ketones and aldehydes over Pd/C using polymethylhydrosiloxane as the reducing agent. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 5122-6	16.4	62
314	Olefin-Directed Palladium-Catalyzed Regio- and Stereoselective Oxidative Arylation of Allenes. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 9066-9	16.4	62
313	A chemoenzymatic dynamic kinetic resolution approach to enantiomerically pure (R)- and (S)-duloxetine. <i>Journal of Organic Chemistry</i> , 2011 , 76, 3917-21	4.2	62
312	Chemoenzymatic dynamic kinetic resolution of allylic alcohols: a highly enantioselective route to acyloin acetates. <i>Organic Letters</i> , 2007 , 9, 3401-4	6.2	62
311	Enantioselective synthesis of syn- and anti-1,3-aminoalcohols via β -aminoketones and subsequent reduction/dynamic kinetic asymmetric transformation. <i>Journal of the American Chemical Society</i> , 2010 , 132, 15182-4	16.4	61
310	Synthesis of protected allylamines via palladium-catalyzed amide addition to allylic substrates. <i>Tetrahedron Letters</i> , 1985 , 26, 1749-1752	2	61
309	Practical chemoenzymatic dynamic kinetic resolution of primary amines via transfer of a readily removable benzyloxycarbonyl group. <i>Tetrahedron Letters</i> , 2008 , 49, 977-979	2	60
308	Synthesis of conjugated dienes via a biomimetic aerobic oxidative coupling of two C(vinyl)-H bonds. <i>Chemistry - A European Journal</i> , 2013 , 19, 10799-803	4.8	59
307	Highly Enantioselective Resolution of β -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	5.2	59
306	Iron-catalyzed Cross-Coupling of Propargyl Carboxylates and Grignard Reagents: Synthesis of Substituted Allenes. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 3734-8	16.4	58
305	Palladium-catalyzed oxidative arylating carbocyclization of allenynes. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 2703-7	16.4	58
304	Palladium-catalyzed aerobic domino oxidative carbocyclization-alkynylation of allenynes. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 14209-13	16.4	58
303	Enzymatic resolution, desymmetrization, and dynamic kinetic asymmetric transformation of 1,3-cycloalkanedioles. <i>Journal of Organic Chemistry</i> , 2006 , 71, 6309-16	4.2	58
302	Enantioselective enzymatic desymmetrization of prochiral allenic diols. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 9731-4	16.4	57
301	Artificial Metalloenzymes in Asymmetric Catalysis: Key Developments and Future Directions. <i>Advanced Synthesis and Catalysis</i> , 2015 , 357, 1567-1586	5.6	56
300	Mechanistic aspects on cyclopentadienylruthenium complexes in catalytic racemization of alcohols. <i>Accounts of Chemical Research</i> , 2013 , 46, 2545-55	24.3	56
299	PdII-Catalyzed Aerobic Allylic Oxidative Carbocyclization of Allene-Substituted Olefins: Immobilization of an Oxygen-Activating Catalyst. <i>Angewandte Chemie</i> , 2006 , 118, 7068-7071	3.6	56
298	Carbon-carbon bond formation in regio- and stereoselective palladium-catalyzed cyclization of allene-substituted conjugated dienes. <i>Journal of Organic Chemistry</i> , 2001 , 66, 8015-25	4.2	56

297	The steric course of the palladium promoted amination of simple olefins. <i>Tetrahedron Letters</i> , 1974 , 15, 1363-1366	2	56
296	Palladium-Catalyzed Oxidative Carbocyclization-Borylation of Enallenes to Cyclobutenes. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 6520-4	16.4	55
295	Aerobic oxidative coupling of arenes and olefins through a biomimetic approach. <i>Chemistry - A European Journal</i> , 2013 , 19, 4140-5	4.8	55
294	Aerobic lactonization of diols by biomimetic oxidation. <i>Chemistry - A European Journal</i> , 2011 , 17, 12596-608	4.8	55
293	Mechanism of hydrogen transfer to imines from a hydroxycyclopentadienyl ruthenium hydride. Support for a stepwise mechanism. <i>Chemical Communications</i> , 2004 , 2748-9	5.8	55
292	Racemization of secondary alcohols catalyzed by cyclopentadienylruthenium complexes: evidence for an alkoxide pathway by fast beta-hydride elimination-readdition. <i>Chemistry - A European Journal</i> , 2007 , 13, 6063-72	4.8	54
291	Palladium(II)-Catalyzed Oxidative Carbocyclization of Aza-Enallenes. <i>Angewandte Chemie</i> , 2010 , 122, 4728-4731	3.6	53
290	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, 6053-61	4.8	53
289	Highly Compatible Metal and Enzyme Catalysts for Efficient Dynamic Kinetic Resolution of Alcohols at Ambient Temperature. <i>Angewandte Chemie</i> , 2004 , 116, 6697-6701	3.6	53
288	Efficient Lipase-Catalyzed Kinetic Resolution and Dynamic Kinetic Resolution of β -Hydroxy Nitriles. A Route to Useful Precursors for β -Amino Alcohols. <i>Advanced Synthesis and Catalysis</i> , 2001 , 343, 726-731	5.6	53
287	Mild and Selective Hydrogenation of Nitro Compounds using Palladium Nanoparticles Supported on Amino-Functionalized Mesocellular Foam. <i>ChemCatChem</i> , 2014 , 6, 3153-3159	5.2	52
286	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	4.2	52
285	DFT Study of an Inner-Sphere Mechanism in the Hydrogen Transfer from a Hydroxycyclopentadienyl Ruthenium Hydride to Imines. <i>Organometallics</i> , 2007 , 26, 2840-2848	3.8	52
284	Preparation and redox properties of N,N,N-1,3,5-trialkylated flavin derivatives and their activity as redox catalysts. <i>Chemistry - A European Journal</i> , 2004 , 11, 112-9	4.8	52
283	C-2 selective arylation of indoles with heterogeneous nanopalladium and diaryliodonium salts. <i>Chemistry - A European Journal</i> , 2014 , 20, 13531-5	4.8	51
282	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	3.4	51
281	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		51
280	Co-immobilization of an Enzyme and a Metal into the Compartments of Mesoporous Silica for Cooperative Tandem Catalysis: An Artificial Metalloenzyme. <i>Angewandte Chemie</i> , 2013 , 125, 14256-14260	3.6	50

279	An enantioselective route to alpha-methyl carboxylic acids via metal and enzyme catalysis. <i>Organic Letters</i> , 2007 , 9, 5095-8	6.2	50
278	Palladium-Catalyzed Oxidative Borylative Carbocyclization of Enallenes. <i>Angewandte Chemie</i> , 2011 , 123, 6279-6283	3.6	49
277	Enantiopure 1,5-diols from dynamic kinetic asymmetric transformation. Useful synthetic intermediates for the preparation of chiral heterocycles. <i>Organic Letters</i> , 2008 , 10, 2027-30	6.2	49
276	Gold-catalyzed cyclization of allene-substituted malonate esters: synthesis of beta,gamma-unsaturated delta-lactones. <i>Organic Letters</i> , 2007 , 9, 2235-7	6.2	49
275	Dynamic kinetic resolution of β -hydroxy acid derivatives. <i>Tetrahedron Letters</i> , 2002 , 43, 2983-2986	2	49
274	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, 2783-8	4.8	49
273	Combined metal catalysis and biocatalysis for an efficient deracemization process. <i>Current Opinion in Biotechnology</i> , 2003 , 14, 407-13	11.4	49
272	Enantioselective addition of aldehydes to amines via combined catalytic biomimetic oxidation and organocatalytic C=C bond formation. <i>Tetrahedron Letters</i> , 2005 , 46, 3965-3968	2	49
271	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	3.2	48
270	Stereoselective palladium-catalyzed carbocyclization of allenic allylic carboxylates. <i>Journal of the American Chemical Society</i> , 2003 , 125, 14140-8	16.4	48
269	Palladium/Hydroquinone catalysed electrochemical 1,4-oxidation of conjugated dienes. <i>Journal of the Chemical Society Chemical Communications</i> , 1987 , 1236-1238		48
268	Enantioselective synthesis of β -methyl carboxylic acids from readily available starting materials via chemoenzymatic dynamic kinetic resolution. <i>Journal of Organic Chemistry</i> , 2010 , 75, 6842-7	4.2	47
267	Palladium-catalyzed oxidative carbocyclization/arylation of enallenes. <i>Organic Letters</i> , 2011 , 13, 5838-416.2		46
266	Enzymatic kinetic resolution of primary allenic alcohols. Application to the total synthesis and stereochemical assignment of striatisporolide A. <i>Organic and Biomolecular Chemistry</i> , 2009 , 7, 3379-81	3.9	46
265	Ruthenium- and enzyme-catalyzed dynamic kinetic asymmetric transformation of 1,4-diols: synthesis of gamma-hydroxy ketones. <i>Journal of Organic Chemistry</i> , 2004 , 69, 9191-5	4.2	46
264	Palladium-catalyzed oxidative dehydrogenative carbonylation reactions using carbon monoxide and mechanistic overviews. <i>Chemical Society Reviews</i> , 2020 , 49, 341-353	58.5	46
263	Highly Selective Construction of Seven-Membered Carbocycles by Olefin-Assisted Palladium-Catalyzed Oxidative Carbocyclization-Alkoxy carbonylation of Bisallenenes. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 14405-14408	16.4	46
262	Biomimetic oxidative coupling of benzylamines and 2-aminophenols: synthesis of benzoxazoles. <i>Chemistry - A European Journal</i> , 2012 , 18, 13609-13	4.8	45

261	Mechanism of ruthenium-catalyzed hydrogen transfer reactions. Evidence for a stepwise transfer of CH and NH hydrogens from an amine to a (cyclopentadienone)ruthenium complex. <i>Chemical Communications</i> , 2003 , 1652-1653	5.8	45
260	Efficient reoxidation of palladium by a hybrid catalyst in aerobic palladium-catalyzed carbocyclization of enallenes. <i>Chemistry - A European Journal</i> , 2009 , 15, 6799-801	4.8	44
259	Asymmetric synthesis of bicyclic diol derivatives through metal and enzyme catalysis: application to the formal synthesis of sertraline. <i>Chemistry - A European Journal</i> , 2010 , 16, 4031-6	4.8	44
258	Aerobic Oxidations of Conjugated Dienes Using a Catalytic Palladium(II)QuinoneBleteropolyacid System for Electron Transfer from Organic Substrates to Molecular Oxygen. <i>Organometallics</i> , 1998 , 17, 45-50	3.8	44
257	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	13.1	43
256	Palladium-catalyzed oxidative acyloxylation/carbocyclization of allenynes. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 3217-21	16.4	43
255	Efficient Lipase-Catalyzed Kinetic Resolution and Dynamic Kinetic Resolution of β -Hydroxy Nitriles. Correction of Absolute Configuration and Transformation to Chiral β -Hydroxy Acids and β -Amino Alcohols. <i>Advanced Synthesis and Catalysis</i> , 2002 , 344, 947-952	5.6	43
254	Carbon-carbon bond formation in palladium(II)-catalyzed intramolecular 1,4-oxidation of conjugated dienes. <i>Tetrahedron Letters</i> , 1994 , 35, 5713-5716	2	43
253	Evidence for a (β -allyl)palladium intermediate in the quinone-based palladium-catalysed allylic acetoxylation. <i>Journal of the Chemical Society Chemical Communications</i> , 1994 , 265-266		43
252	Access to cinnamyl derivatives from arenes and allyl esters by a biomimetic aerobic oxidative dehydrogenative coupling. <i>Organic Letters</i> , 2014 , 16, 1664-7	6.2	42
251	Chemoenzymatic dynamic kinetic resolution of primary amines using a recyclable palladium nanoparticle catalyst together with lipases. <i>Journal of Organic Chemistry</i> , 2014 , 79, 3747-51	4.2	42
250	Enzyme- and ruthenium-catalyzed dynamic kinetic asymmetric transformation of 1,5-diols. Application to the synthesis of (+)-Solenopsin A. <i>Journal of Organic Chemistry</i> , 2009 , 74, 1988-93	4.2	42
249	Osmium-catalyzed dihydroxylation of alkenes by H ₂ O ₂ in room temperature ionic liquid co-catalyzed by VO(acac) ₂ or MeReO ₃ . <i>Journal of Organometallic Chemistry</i> , 2005 , 690, 3614-3619	2.3	42
248	A Versatile Route to 2-Substituted Cyclic 1,3-Dienes via a Copper(I)-Catalyzed Cross-Coupling Reaction of Dienyl Triflates with Grignard Reagents. <i>Journal of Organic Chemistry</i> , 1998 , 63, 2517-2522	4.2	41
247	Highly Efficient Cascade Reaction for Selective Formation of Spirocyclobutenes from Dienallenes via Palladium-Catalyzed Oxidative Double Carbocyclization-Carbonylation-Alkynylation. <i>Journal of the American Chemical Society</i> , 2016 , 138, 13846-13849	16.4	41
246	Palladium-catalyzed oxidative domino carbocyclization-carbonylation-alkynylation of enallenes. <i>Organic Letters</i> , 2014 , 16, 4174-7	6.2	40
245	Palladium-catalyzed intramolecular hydroamination of propargylic carbamates and carbamothioates. <i>Organic Letters</i> , 2014 , 16, 1434-7	6.2	40
244	Nanopalladium on Amino-Functionalized Mesocellular Foam: An Efficient Catalyst for Suzuki Reactions and Transfer Hydrogenations. <i>ChemCatChem</i> , 2013 , 5, 612-618	5.2	40

243	Dynamic Kinetic Resolution of Primary Alcohols with an Unfunctionalized Stereogenic Center in the E-Position. <i>Advanced Synthesis and Catalysis</i> , 2007 , 349, 1577-1581	5.6	40
242	Synthesis of new hybrid hydroquinone/cobalt Schiff base catalysts: efficient electron-transfer mediators in aerobic oxidation. <i>Chemistry - A European Journal</i> , 2008 , 14, 7500-3	4.8	40
241	Directed evolution and axial chirality: optimization of the enantioselectivity of <i>Pseudomonas aeruginosa</i> lipase towards the kinetic resolution of a racemic allene. <i>Chemical Communications</i> , 2007 , 1913-5	5.8	40
240	Aerobic direct C-H arylation of nonbiased olefins. <i>Organic Letters</i> , 2014 , 16, 4432-5	6.2	39
239	Allenes as carbon nucleophiles in palladium-catalyzed reactions: observation of anti attack of allenes on (pi-allyl)palladium complexes. <i>Journal of the American Chemical Society</i> , 2002 , 124, 11246-7	16.4	39
238	Chemodivergent and Diastereoselective Synthesis of β -Lactones and β -Lactams: A Heterogeneous Palladium-Catalyzed Oxidative Tandem Process. <i>Journal of the American Chemical Society</i> , 2018 , 140, 14604-14608	16.4	39
237	Dynamic Kinetic Resolution of β -Amino Esters by a Heterogeneous System of a Palladium Nanocatalyst and <i>Candida antarctica</i> Lipase A. <i>European Journal of Organic Chemistry</i> , 2011 , 2011, 1827-1830	3.2	38
236	Mild and efficient palladium(II)-catalyzed racemization of allenes. <i>Chemical Communications</i> , 2004 , 964-5	5.8	38
235	The use of ortho-chelating arenethiolate non-transferable groups in the copper(I) catalyzed selective β or γ -substitution of acyclic allylic substrates with grignard reagents. <i>Tetrahedron Letters</i> , 1994 , 35, 5931-5934	2	38
234	Modern Oxidation of Alcohols Using Environmentally Benign Oxidants 2010 , 147-185		37
233	Palladium-catalyzed 1,2-oxidation of allenes. <i>Tetrahedron Letters</i> , 1997 , 38, 291-294	2	37
232	Palladium(II)-catalyzed asymmetric 1,4-oxidation of 2-phenyl-1,3-cyclohexadiene. <i>Tetrahedron Letters</i> , 1997 , 38, 8541-8544	2	37
231	Stereochemistry of the hydroxypalladation step in the wacker process. <i>Journal of the Chemical Society Chemical Communications</i> , 1977 , 264-265		37
230	Palladium(II)-Catalyzed Tandem Oxidative Acetoxylation/ortho C-H Activation/Carbocyclization of Arylallenes. <i>Journal of the American Chemical Society</i> , 2015 , 137, 9559-62	16.4	36
229	Palladium-catalyzed oxidative diarylating carbocyclization of enynes. <i>Organic Letters</i> , 2012 , 14, 3538-41	6.2	36
228	Development of dynamic kinetic resolution on large scale for (E)-1-phenylethylamine. <i>Beilstein Journal of Organic Chemistry</i> , 2010 , 6, 823-9	2.5	36
227	Efficient ruthenium-catalyzed transfer hydrogenation/hydrogenation of 1,3-cycloalkanediones to 1,3-cycloalkanediols using microwave heating. <i>Journal of Organic Chemistry</i> , 2006 , 71, 8622-5	4.2	36
226	Regioselective 1,4-Silylcupration of 1,3-Dienes [Characterization and Electrophilic Trapping of the Intermediate (β -Allyl)copper Complex. <i>European Journal of Organic Chemistry</i> , 2002 , 2002, 3527-3535	3.2	36

225	Ruthenium-Catalyzed Aerobic Oxidation of Alcohols on Zeolite-Encapsulated Cobalt Salophen Catalyst. <i>Topics in Catalysis</i> , 2002 , 19, 119-124	2.3	36
224	Palladium(II)-catalyzed intramolecular 1,2-oxidation of allenes involving nitrogen nucleophiles. <i>Tetrahedron Letters</i> , 2000 , 41, 1619-1622	2	36
223	Chemoenzymatic Dynamic Kinetic Resolution of Secondary Alcohols Using an Air- and Moisture-Stable Iron Racemization Catalyst. <i>Chemistry - A European Journal</i> , 2017 , 23, 1048-1051	4.8	35
222	Olefin-Directed Palladium-Catalyzed Regio- and Stereoselective Hydroboration of Allenes. <i>Chemistry - A European Journal</i> , 2016 , 22, 2939-43	4.8	35
221	Enzyme- and Ruthenium-Catalyzed Enantioselective Transformation of β -Allenic Alcohols into 2,3-Dihydrofurans. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 5568-72	16.4	35
220	Control of Selectivity in Palladium-Catalyzed Oxidative Carbocyclization/Borylation of Allenynes. <i>Angewandte Chemie</i> , 2013 , 125, 6403-6407	3.6	35
219	Mutated variant of <i>Candida antarctica</i> lipase B in (S)-selective dynamic kinetic resolution of secondary alcohols. <i>Organic and Biomolecular Chemistry</i> , 2011 , 9, 81-2	3.9	35
218	Racemization of alcohols catalyzed by [RuCl(CO) ₂ (η^5 -pentaphenylcyclopentadienyl)]--mechanistic insights from theoretical modeling. <i>Chemistry - A European Journal</i> , 2009 , 15, 5220-9	4.8	35
217	Copper-catalyzed N-allenylation of allylic sulfonamides. <i>Organic Letters</i> , 2009 , 11, 3814-7	6.2	35
216	Kinetic resolution and chemoenzymatic dynamic kinetic resolution of functionalized gamma-hydroxy amides. <i>Journal of Organic Chemistry</i> , 2005 , 70, 2582-7	4.2	35
215	Ruthenium- and lipase-catalyzed DYKAT of 1,2-diols: an enantioselective synthesis of syn-1,2-diacetates. <i>Tetrahedron: Asymmetry</i> , 2006 , 17, 708-715		35
214	Stereochemistry of the oxidative cleavage of palladium-carbon bonds by cupric chloride. <i>Tetrahedron Letters</i> , 1977 , 18, 467-468	2	35
213	Biomimetic aerobic oxidation of amino alcohols to lactams. <i>Chemistry - A European Journal</i> , 2012 , 18, 11524-7	4.8	34
212	Palladium-Catalyzed Oxidative Arylating Carbocyclization of Allenynes. <i>Angewandte Chemie</i> , 2012 , 124, 2757-2761	3.6	34
211	Improved Palladium-Catalyzed 1,4-Haloacyloxylation and 1,4-Diacyloxylation of Cyclic Conjugated Dienes.. <i>Acta Chemica Scandinavica</i> , 1990 , 44, 492-499		34
210	Nanopalladium on Amino-Functionalized Mesocellular Foam as an Efficient and Recyclable Catalyst for the Selective Transfer Hydrogenation of Nitroarenes to Anilines. <i>ChemCatChem</i> , 2014 , 6, 205-211	5.2	33
209	Highly selective olefin-assisted palladium-catalyzed oxidative carbocyclization remote olefin insertion. <i>Chemical Science</i> , 2017 , 8, 616-620	9.4	33
208	The Effect of Solvent and Copper(I) Precursor on the Regioselectivity in the Cross-Coupling Reaction of Primary Allylic Acetates with Preformed Mono- and Dibutylcuprates.. <i>Acta Chemica Scandinavica</i> , 1995 , 49, 899-906		33

207	Efficient Formation of 2,3-Dihydrofurans via Iron-Catalyzed Cycloisomerization of η -Allenols. <i>ACS Catalysis</i> , 2018 , 8, 12-16	13.1	33
206	Palladium-Catalyzed Oxidative Cascade Carbonylative Spirolactonization of Enallenols. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 3221-3225	16.4	32
205	Combinatorial library based engineering of <i>Candida antarctica</i> lipase A for enantioselective transacylation of sec-alcohols in organic solvent. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 4284-8	16.4	32
204	Electronic and structural studies of immobilized thiol-derivatized cobalt porphyrins on gold surfaces. <i>Applied Surface Science</i> , 2007 , 253, 7540-7548	6.7	32
203	Ionic liquid-immobilized catalytic system for biomimetic dihydroxylation of olefins. <i>Chemical Communications</i> , 2004 , 1494-5	5.8	32
202	Allenes as carbon nucleophiles in intramolecular attack on (π -1,3-diene)palladium complexes: evidence for trans carbopalladation of the 1,3-diene. <i>Chemistry - A European Journal</i> , 2003 , 9, 3445-9	4.8	32
201	Enantioselective Palladium-Catalyzed Carbonylative Carbocyclization of Enallenes via Cross-Dehydrogenative Coupling with Terminal Alkynes: Efficient Construction of η -Chirality of Ketones. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 4535-4539	16.4	31
200	Mild and Selective Catalytic Hydrogenation of the C=C Bond in η , η -Unsaturated Carbonyl Compounds Using Supported Palladium Nanoparticles. <i>Chemistry - A European Journal</i> , 2016 , 22, 7184-9	4.8	31
199	Palladium-catalyzed oxidative arylating carbocyclization of allenynes: control of selectivity and role of H ₂ O. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 8696-9	16.4	31
198	Palladium-catalyzed oxidative carbocyclization-carbonylation of allenynes and enallenols. <i>Chemistry - A European Journal</i> , 2014 , 20, 7608-12	4.8	31
197	Dynamic kinetic resolution of homoallylic alcohols: application to the synthesis of enantiomerically pure 5,6-dihydropyran-2-ones and β -lactones. <i>Chemistry - A European Journal</i> , 2013 , 19, 13859-64	4.8	31
196	Palladium(II)/Brønsted Acid-Catalyzed Enantioselective Oxidative Carbocyclization/Borylation of Enallenols. <i>Angewandte Chemie</i> , 2015 , 127, 6122-6125	3.6	31
195	The use of stabilized carbon nucleophiles in palladium(II)-catalyzed 1,4-oxidation of conjugated dienes. <i>Tetrahedron Letters</i> , 1997 , 38, 3603-3606	2	31
194	Palladium-catalyzed carbocyclization of allene-diene derivatives. Exploring different nucleophiles. <i>Journal of Organic Chemistry</i> , 2003 , 68, 7243-8	4.2	31
193	Osmium-catalyzed asymmetric dihydroxylation of olefins by H ₂ O ₂ ; dual role of the cinchona alkaloid ligand. <i>Organic Letters</i> , 2001 , 3, 3463-6	6.2	31
192	A Synthesis of Substituted η -Allenols via Iron-Catalyzed Cross-Coupling of Propargyl Carboxylates with Grignard Reagents. <i>ACS Catalysis</i> , 2016 , 6, 7448-7451	13.1	31
191	Palladium-Catalyzed Aerobic Domino Oxidative Carbocyclization-Alkynylation of Allenynes. <i>Angewandte Chemie</i> , 2013 , 125, 14459-14463	3.6	30
190	Efficient Aerobic Ruthenium-Catalyzed Oxidation of Secondary Alcohols by the Use of a Hybrid Electron Transfer Catalyst. <i>European Journal of Organic Chemistry</i> , 2010 , 2010, 1971-1976	3.2	30

189	Mechanism of the palladium-catalyzed carbohydroxylation of allene-substituted conjugated dienes: rationalization of the recently observed nucleophilic attack by water on a (pi-allyl)palladium intermediate. <i>Chemistry - A European Journal</i> , 2008 , 14, 9175-80	4.8	30
188	Aerobic double dehydrogenative cross coupling between cyclic saturated ketones and simple arenes. <i>Chemistry - A European Journal</i> , 2014 , 20, 5890-4	4.8	29
187	Efficient palladium-catalyzed aminocarbonylation of aryl iodides using palladium nanoparticles dispersed on siliceous mesocellular foam. <i>Chemistry - A European Journal</i> , 2014 , 20, 5885-9	4.8	29
186	A general Suzuki cross-coupling reaction of heteroaromatics catalyzed by nanopalladium on amino-functionalized siliceous mesocellular foam. <i>Journal of Organic Chemistry</i> , 2014 , 79, 3946-54	4.2	29
185	Synthesis of a neonicotinoide pesticide derivative via chemoenzymatic dynamic kinetic resolution. <i>Journal of Organic Chemistry</i> , 2009 , 74, 7407-10	4.2	29
184	Enantioselective route to ketones and lactones from exocyclic allylic alcohols via metal and enzyme catalysis. <i>Organic Letters</i> , 2012 , 14, 5094-7	6.2	28
183	CO dissociation mechanism in racemization of alcohols by a cyclopentadienyl ruthenium dicarbonyl catalyst. <i>Journal of the American Chemical Society</i> , 2011 , 133, 2820-3	16.4	28
182	Enantioselective synthesis of (R)-bufuralol via dynamic kinetic resolution in the key step. <i>Journal of Organic Chemistry</i> , 2010 , 75, 4596-9	4.2	28
181	Dynamic processes in the copper-catalyzed substitution of chiral allylic acetates leading to loss of chiral information. <i>Chemistry - A European Journal</i> , 2007 , 13, 4094-102	4.8	28
180	Palladium(0)-catalyzed cycloisomerization of enallenes. <i>Chemistry - A European Journal</i> , 2005 , 11, 6937-43	4.8	28
179	A dual regiocontrol in the copper-catalysed Grignard reaction with primary allylic acetates. <i>Journal of the Chemical Society Chemical Communications</i> , 1987 , 827-829		28
178	Olefin-Directed Palladium-Catalyzed Regio- and Stereoselective Oxidative Arylation of Allenes. <i>Angewandte Chemie</i> , 2015 , 127, 9194-9197	3.6	27
177	Enantioselective enzymatische Desymmetrisierung prochiraler Allendiole. <i>Angewandte Chemie</i> , 2011 , 123, 9905-9908	3.6	27
176	Large-scale ruthenium- and enzyme-catalyzed dynamic kinetic resolution of (rac)-1-phenylethanol. <i>Beilstein Journal of Organic Chemistry</i> , 2007 , 3, 50	2.5	27
175	Allylsilanes as Carbon Nucleophiles in the Palladium-Catalyzed 1,4-Oxidation of Conjugated Dienes. <i>Chemistry - A European Journal</i> , 2006 , 3, 482-490	4.8	27
174	On the mechanism of the unexpected facile formation of meso-diacetate products in enzymatic acetylation of alkanediols. <i>Journal of Organic Chemistry</i> , 2003 , 68, 2216-22	4.2	27
173	Efficient Synthesis of Symmetrical 2,5-Disubstituted Benzoquinones via Palladium-Catalyzed Double Negishi Coupling. <i>Journal of Organic Chemistry</i> , 1998 , 63, 3764-3768	4.2	27
172	Selective Cascade Reaction of Bisallenenes via Palladium-Catalyzed Aerobic Oxidative Carbocyclization-Borylation and Aldehyde Trapping. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 1590-1594	16.4	26

171	Synthesis of Benzofurans and Indoles from Terminal Alkynes and Iodoaromatics Catalyzed by Recyclable Palladium Nanoparticles Immobilized on Siliceous Mesocellular Foam. <i>Chemistry - A European Journal</i> , 2017 , 23, 12886-12891	4.8	26
170	CO assistance in ligand exchange of a ruthenium racemization catalyst: identification of an acyl intermediate. <i>Journal of the American Chemical Society</i> , 2009 , 131, 9500-1	16.4	26
169	Efficient ruthenium catalyzed transfer hydrogenation of functionalized imines by isopropanol under controlled microwave heating. <i>Canadian Journal of Chemistry</i> , 2005 , 83, 909-916	0.9	26
168	Application of Pd Nanoparticles Supported on Mesoporous Hollow Silica Nanospheres for the Efficient and Selective Semihydrogenation of Alkynes. <i>ChemCatChem</i> , 2016 , 8, 773-778	5.2	26
167	Palladium-Catalyzed Stereospecific Oxidative Cascade Reaction of Allenes for the Construction of Pyrrole Rings: Control of Reactivity and Selectivity. <i>ACS Catalysis</i> , 2019 , 9, 5184-5190	13.1	25
166	Palladium-catalyzed intramolecular 1,2-oxidation of allenes. <i>Tetrahedron Letters</i> , 1998 , 39, 3601-3604	2	25
165	An unexpectedly mild thermal Alder-ene-type cyclization of enallenes. <i>Journal of Organic Chemistry</i> , 2006 , 71, 2914-7	4.2	25
164	Asymmetric allyl-metal bonding in substituted (η^3 -allyl) palladium complexes: X-ray structures of cis- and trans-4-acetoxy-. <i>Chemistry - A European Journal</i> , 2000 , 6, 432-6	4.8	25
163	Iron(II)-Catalyzed Biomimetic Aerobic Oxidation of Alcohols. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 5403-5406	16.4	24
162	Cycloisomerization of acetylenic acids to β -alkylidene lactones using a palladium(II) catalyst supported on amino-functionalized siliceous mesocellular foam. <i>Journal of Organic Chemistry</i> , 2014 , 79, 1399-405	4.2	24
161	Palladium(II)-catalyzed oxidative cyclization of allylic tosylcarbamates: scope, derivatization, and mechanistic aspects. <i>Chemistry - A European Journal</i> , 2012 , 18, 15151-7	4.8	24
160	Design of an Integrated Process of Chromatography, Crystallization and Racemization for the Resolution of 2,6-Pipecoloxylidide (PPX). <i>Organic Process Research and Development</i> , 2012 , 16, 343-352 ^{3,9}	2.9	24
159	Efficient Osmium/Rhenium-Catalyzed Dihydroxylation of Olefins with Hydrogen Peroxide under Acidic Conditions. <i>Advanced Synthesis and Catalysis</i> , 2003 , 345, 1012-1016	5.6	24
158	Palladium-Catalyzed Oxidative Carbocyclization/Borylation of Enallenes to Cyclobutenes. <i>Angewandte Chemie</i> , 2016 , 128, 6630-6634	3.6	24
157	Efficient Palladium-Catalyzed Aerobic Arylative Carbocyclization of Enallenynes. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 16842-16846	16.4	24
156	Diastereoselective Synthesis of N-Protected 2,3-Dihydropyrroles via Iron-Catalyzed Cycloisomerization of β -Allenic Sulfonamides. <i>ACS Catalysis</i> , 2019 , 9, 1733-1737	13.1	23
155	Enzyme- and ruthenium-catalyzed dynamic kinetic resolution of functionalized cyclic allylic alcohols. <i>Journal of Organic Chemistry</i> , 2013 , 78, 12114-20	4.2	23
154	Preparation of tetrasubstituted olefins using mono or double aerobic direct C-H functionalization strategies: importance of steric effects. <i>Journal of Organic Chemistry</i> , 2015 , 80, 2796-803	4.2	23

153	An Efficient Dynamic Kinetic Resolution of N-Heterocyclic 1,2-Amino Alcohols. <i>Advanced Synthesis and Catalysis</i> , 2011 , 353, 2321-2327	5.6	23
152	Palladium(II)-catalyzed intramolecular 1,4-oxyacyloxylation of conjugated dienes. A stereocontrolled route to fused six-membered lactones and pyrans. <i>Journal of Organic Chemistry</i> , 2004 , 69, 3102-11	4.2	23
151	Highly Selective Palladium-Catalyzed Hydroborylative Carbocyclization of Bisallenes to Seven-Membered Rings. <i>Journal of the American Chemical Society</i> , 2018 , 140, 14324-14333	16.4	23
150	Scalable synthesis of oxazolones from propargylic alcohols through multistep palladium(II) catalysis: Selective oxidative Heck coupling of cyclic sulfonyl enamides and aryl boroxines. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 13745-50	16.4	22
149	High-yielding metalloenzymatic dynamic kinetic resolution of fluorinated aryl alcohols. <i>Tetrahedron Letters</i> , 2007 , 48, 5471-5474	2	22
148	Palladium(II)-catalyzed carbocyclization: Vinylpalladium in 1,4-oxidation of conjugated dienes. <i>Tetrahedron</i> , 1996 , 52, 7511-7523	2.4	22
147	Palladium-Catalyzed Oxidative Domino Carbocyclization-Arylation of Bisallenes. <i>ACS Catalysis</i> , 2016 , 6, 6398-6402	13.1	21
146	Molecular orientation of thiol-derivatized tetraphenylporphyrin on gold studied by XPS and NEXAFS. <i>Surface Science</i> , 2009 , 603, 1026-1033	1.8	21
145	Covalent anchoring of a racemization catalyst to CALB-beads: towards dual immobilization of DKR catalysts. <i>Tetrahedron Letters</i> , 2011 , 52, 1601-1604	2	21
144	New chiral diamide ligands containing redox-active hydroquinone groups. Synthesis and results in the palladium(II)-catalyzed 1,4-diacetoxylation of 1,3-dienes. <i>Journal of Organometallic Chemistry</i> , 2003 , 687, 508-517	2.3	20
143	Rate enhancement of oxidation reactions by the encapsulation of metal phthalocyanine complexes. <i>Catalysis Letters</i> , 2000 , 65, 135-139	2.8	20
142	Competitive palladium-promoted amination of butenes. <i>Tetrahedron Letters</i> , 1975 , 16, 819-822	2	20
141	Iron-catalyzed Cross-Coupling of Propargyl Carboxylates and Grignard Reagents: Synthesis of Substituted Allenes. <i>Angewandte Chemie</i> , 2016 , 128, 3798-3802	3.6	20
140	Diastereoselective Cyclobutenol Synthesis: A Heterogeneous Palladium-Catalyzed Oxidative Carbocyclization-Borylation of Enallenols. <i>Chemistry - A European Journal</i> , 2019 , 25, 210-215	4.8	20
139	Highly Selective Construction of Seven-Membered Carbocycles by Olefin-Assisted Palladium-Catalyzed Oxidative Carbocyclization-Alkoxyacyloxylation of Bisallenes. <i>Angewandte Chemie</i> , 2016 , 128, 14617-14620	3.6	19
138	Mesoporous silica nanoparticles applied as a support for Pd and Au nanocatalysts in cycloisomerization reactions. <i>APL Materials</i> , 2014 , 2, 113316	5.7	19
137	Palladium-Catalyzed Oxidative Acyloxylation/Carbocyclization of Allenynes. <i>Angewandte Chemie</i> , 2013 , 125, 3299-3303	3.6	19
136	Unusual Homocoupling in the Reaction of Diorganocuprates with an Allylic Halide. <i>Organometallics</i> , 2006 , 25, 2129-2132	3.8	19

135	Allylic phosphates and allylic phosphinates as electrophiles in efficient silylcupration reactions of acetylenes. <i>Journal of Organic Chemistry</i> , 2002 , 67, 2136-43	4.2	19
134	On the Use of Iron in Organic Chemistry. <i>Molecules</i> , 2020 , 25,	4.8	18
133	Highly Diastereoselective Palladium-Catalyzed Oxidative Carbocyclization of Enallenes Assisted by a Weakly Coordinating Hydroxyl Group. <i>Journal of the American Chemical Society</i> , 2018 , 140, 3210-3214	16.4	18
132	Influence of delta-functional groups on the enantioselective recognition of secondary alcohols by <i>Candida antarctica</i> lipase B. <i>ChemBioChem</i> , 2008 , 9, 1968-74	3.8	18
131	Vanadyl acetylacetonate as peroxide activator in osmium-catalyzed dihydroxylation of olefins by hydrogen peroxide. <i>Tetrahedron Letters</i> , 2001 , 42, 2569-2571	2	18
130	Silylcupration of styrenes followed by electrophilic trapping reaction. <i>Chemical Communications</i> , 2001 , 265-266	5.8	18
129	Chemoenzymatic Dynamic Kinetic Resolution of Primary Benzylic Amines using Pd-CalB CLEA as a Biohybrid Catalyst. <i>Chemistry - A European Journal</i> , 2019 , 25, 9174-9179	4.8	17
128	Selective Palladium-Catalyzed Allenic C-H Bond Oxidation for the Synthesis of [3]Dendralenes. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 13112-13116	16.4	17
127	Palladium-Catalyzed Oxidative Arylating Carbocyclization of Allenynes: Control of Selectivity and Role of H ₂ O. <i>Angewandte Chemie</i> , 2014 , 126, 8840-8843	3.6	17
126	Dynamic kinetic asymmetric transformation of 1,4-diols and the preparation of trans-2,5-disubstituted pyrrolidines. <i>Tetrahedron Letters</i> , 2009 , 50, 3237-3240	2	17
125	Highly Selective Negishi Cross-Coupling Reaction of a Zinc-Metallated Ferrocenyl p-Tolyl Sulfoxide: New Chiral Ferrocene-Based Quinone Ligands. <i>European Journal of Organic Chemistry</i> , 2003 , 2003, 2756-2763	3.7	17
124	Unexpected Formation of the Isopropylamine Complex [2,3,4,5-Ph ₄ (η -C ₄ CO)](CO) ₂ Ru(H ₂ NCHMe ₂) in the Attempted Synthesis of an Isopropyl Alcohol Complex. <i>Organometallics</i> , 2002 , 21, 1955-1959	3.8	17
123	A General Approach to Indolizidine Alkaloids From 1-Benzyloxy-5-(p-toluenesulfonamido)-3-alken-2-ols: Synthesis of (+)-Monomorine I. <i>European Journal of Organic Chemistry</i> , 1999 , 1999, 3277-3280	3.2	17
122	Removing the Active-Site Flap in Lipase A from <i>Candida antarctica</i> Produces a Functional Enzyme without Interfacial Activation. <i>ChemBioChem</i> , 2016 , 17, 141-5	3.8	17
121	Efficient Stereoselective Carbocyclization to 1,4-Disubstituted Heterocycles Enabled by Dual Pd/Electron Transfer Mediator (ETM) Catalysis. <i>Journal of the American Chemical Society</i> , 2020 , 142, 5751-5759	16.4	16
120	Tuning of the electronic properties of a cyclopentadienylruthenium catalyst to match racemization of electron-rich and electron-deficient alcohols. <i>Chemistry - A European Journal</i> , 2011 , 17, 11216-22	4.8	16
119	Modern Oxidation of Alcohols Using Environmentally Benign Oxidants 2005 , 83-118		16
118	Transition metal-catalyzed redox isomerization of codeine and morphine in water. <i>RSC Advances</i> , 2014 , 4, 39519-39522	3.7	15

117	A computational study of the CO dissociation in cyclopentadienyl ruthenium complexes relevant to the racemization of alcohols. <i>Dalton Transactions</i> , 2013 , 42, 927-34	4.3	15
116	Synthesis and optical resolution of an allenic acid by diastereomeric salt formation induced by chiral alkaloids. <i>Chirality</i> , 2008 , 20, 47-50	2.1	15
115	Synthesis of Thioacetate-Functionalized Cobalt(II) Porphyrins and Their Immobilization on Gold Surface [Characterization by X-ray Photoelectron Spectroscopy. <i>European Journal of Organic Chemistry</i> , 2006 , 2006, 1193-1199	3.2	15
114	Palladium-Catalyzed 1,4-Additions to Conjugated Dienes 479-529		15
113	Efficient Heterogeneous Palladium-Catalyzed Oxidative Cascade Reactions of Enallenols to Furan and Oxaborole Derivatives. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 1992-1996	16.4	15
112	Efficient Palladium-Catalyzed Aerobic Arylative Carbocyclization of Enallenynes. <i>Angewandte Chemie</i> , 2018 , 130, 17084-17088	3.6	15
111	Enzyme- and Ruthenium-Catalyzed Enantioselective Transformation of β -Allenic Alcohols into 2,3-Dihydrofurans. <i>Angewandte Chemie</i> , 2016 , 128, 5658-5662	3.6	14
110	Palladium-Catalyzed Oxidative Synthesis of β -Acetoxyated Enones from Alkynes. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 5824-8	16.4	14
109	Mild Deoxygenation of Aromatic Ketones and Aldehydes over Pd/C Using Polymethylhydrosiloxane as the Reducing Agent. <i>Angewandte Chemie</i> , 2015 , 127, 5211-5215	3.6	14
108	Aerobic Oxidations Catalyzed by Zeolite-Encapsulated Cobalt Salophen. <i>Advanced Synthesis and Catalysis</i> , 2008 , 350, 1807-1815	5.6	14
107	Fast and mild palladium(II)-catalyzed 1,4-oxidation of 1,3-dienes via activation of molecular oxygen with a designed cobalt(II) porphyrin. <i>Chemical Communications</i> , 2005 , 1282-4	5.8	14
106	Cobalttetra(hydrochinon)porphyrin als wirkungsvoller Elektronenüberträger bei der aeroben Pd-katalysierten 1,4-Diacetoxylierung von 1,3-Cyclohexadien. <i>Angewandte Chemie</i> , 1993 , 105, 269-271	3.6	14
105	Kinetics and Mechanism of the Palladium-Catalyzed Oxidative Arylating Carbocyclization of Allenynes. <i>Journal of the American Chemical Society</i> , 2018 , 140, 298-309	16.4	14
104	Enantioselective Palladium-Catalyzed Carbonylative Carbocyclization of Enallenes via Cross-Dehydrogenative Coupling with Terminal Alkynes: Efficient Construction of β -Chirality of Ketones. <i>Angewandte Chemie</i> , 2017 , 129, 4606-4610	3.6	13
103	Heterogenized Wilkinson-Type Catalyst for Transfer Hydrogenation of Carbonyl Compounds. <i>European Journal of Organic Chemistry</i> , 2011 , 2011, 4409-4414	3.2	13
102	Efficient Synthesis of Hybrid (Hydroquinone-Schiff base)cobalt Oxidation Catalysts. <i>European Journal of Organic Chemistry</i> , 2009 , 2009, 3973-3976	3.2	13
101	Unexpected formation of a cyclopentadienylruthenium alkoxycarbonyl complex with a coordinated C=C bond. <i>Journal of the American Chemical Society</i> , 2009 , 131, 13622-4	16.4	13
100	Catalytic Oxidations with Hydrogen Peroxide in Fluorinated Alcohol Solvents 2010 , 117-145		13

99	Investigation of a possible solvent cage effect in the reduction of 4-aminocyclohexanone by a hydroxycyclopentadienyl ruthenium hydride. <i>Chemistry - A European Journal</i> , 2008 , 14, 9169-74	4.8	13
98	Enantiocontrolled Synthesis of 3-Pyrrolines from β -Amino Allenes. <i>European Journal of Organic Chemistry</i> , 2004 , 2004, 3240-3243	3.2	13
97	Stereoselective Route towards 2,5-Disubstituted Piperidine Alkaloids. Synthesis of (+)-Pseudoconhydrine and (β)-epi-Pseudoconhydrine. <i>Tetrahedron</i> , 2000 , 56, 2225-2230	2.4	13
96	Methyl Migration and Transannular 1,5-Hydride Shift on Oxidative Cleavage of C?Pd Bonds with CuCl ₂ . <i>Angewandte Chemie International Edition in English</i> , 1985 , 24, 207-208		13
95	Water oxidation mediated by ruthenium oxide nanoparticles supported on siliceous mesocellular foam. <i>Catalysis Science and Technology</i> , 2017 , 7, 293-299	5.5	12
94	Well-defined palladium nanoparticles supported on siliceous mesocellular foam as heterogeneous catalysts for the oxidation of water. <i>Chemistry - A European Journal</i> , 2015 , 21, 5909-15	4.8	12
93	Silver-Triggered Activity of a Heterogeneous Palladium Catalyst in Oxidative Carbonylation Reactions. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 10391-10395	16.4	12
92	Investigation of the impact of water on the enantioselectivity displayed by CALB in the kinetic resolution of β -functionalized alkan-2-ol derivatives. <i>Chemistry - A European Journal</i> , 2014 , 20, 13517-21	4.8	12
91	Palladium-catalyzed oxidative regio- and diastereoselective diarylating carbocyclization of dienyne. <i>Chemistry - A European Journal</i> , 2013 , 19, 6571-5	4.8	12
90	Aerobic palladium-catalysed 1,4-cis-diacetoxylation and 1,4-cis-chloroacetoxylation of cyclohexa-1,3-diene using a tetrakis(methoxyhydroquinone)porphyrin. <i>Journal of the Chemical Society Chemical Communications</i> , 1993 , 1331-1332		12
89	Kinetic resolution of diarylmethanols using a mutated variant of lipase CALB. <i>Tetrahedron</i> , 2012 , 68, 7613-7618	2.4	11
88	Chemoenzymatic Dynamic Kinetic Resolution and Related Dynamic Asymmetric Transformations 2012 , 1777-1806		11
87	Copper-Mediated Enantioselective Substitution Reactions 259-288		11
86	Silylcupration of 1,3-dienes followed by an electrophilic trapping reaction. <i>Organic Letters</i> , 2001 , 3, 1861-62		11
85	Evidence for Reversible Aminopalladation of Olefins.. <i>Acta Chemica Scandinavica</i> , 1984 , 38b, 91-93		11
84	Efficient Heterogeneous Palladium Catalysts in Oxidative Cascade Reactions. <i>Accounts of Chemical Research</i> , 2021 , 54, 2275-2286	24.3	11
83	Evaluation of Fe and Ru Pincer-Type Complexes as Catalysts for the Racemization of Secondary Benzylic Alcohols. <i>Chemistry - A European Journal</i> , 2016 , 22, 11583-6	4.8	11
82	Iron(II)-Catalyzed Biomimetic Aerobic Oxidation of Alcohols. <i>Angewandte Chemie</i> , 2020 , 132, 5441-5444	3.6	11

81	Dispersed Gold Nanoparticles Supported in the Pores of Siliceous Mesocellular Foam: A Catalyst for Cycloisomerization of Alkynoic Acids to α -Alkylidene Lactones. <i>European Journal of Organic Chemistry</i> , 2015 , 2015, 2250-2255	3.2	10
80	Nanopalladium-catalyzed conjugate reduction of Michael acceptors Application in flow. <i>Green Chemistry</i> , 2016 , 18, 2632-2637	10	10
79	Migratory dynamic kinetic resolution of carbocyclic allylic alcohols. <i>Organic Letters</i> , 2014 , 16, 5952-5	6.2	10
78	Liquid Phase Oxidation Reactions Catalyzed by Polyoxometalates 2005 , 223-251		10
77	Evidence for trans-acetoxypalladation of alkenes in chloride-free media. <i>Journal of Organometallic Chemistry</i> , 1983 , 244, 401-407	2.3	10
76	Efficient Heterogeneous Palladium-Catalyzed Oxidative Cascade Reactions of Enallenols to Furan and Oxaborole Derivatives. <i>Angewandte Chemie</i> , 2020 , 132, 2008-2012	3.6	10
75	Efficient Aerobic Oxidation of Organic Molecules by Multistep Electron Transfer. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 15686-15704	16.4	10
74	Iron-Catalyzed Cross-Coupling of Propargyl Ethers with Grignard Reagents for the Synthesis of Functionalized Allenes and Allenols. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 22178-22183	16.4	10
73	Selective Cascade Reaction of Bisallenols via Palladium-Catalyzed Aerobic Oxidative Carbocyclization, Borylation and Aldehyde Trapping. <i>Angewandte Chemie</i> , 2017 , 129, 1612-1616	3.6	9
72	Highly Selective Olefin-Assisted Pd-Catalyzed Oxidative Alkynylation of Enallenols. <i>Chemistry - A European Journal</i> , 2017 , 23, 7896-7899	4.8	9
71	Transesterification of a Tertiary Alcohol by Engineered <i>Candida antarctica</i> Lipase A. <i>ChemBioChem</i> , 2019 , 20, 1438-1443	3.8	9
70	Performance of a biomimetic oxidation catalyst immobilized on silica particles. <i>Journal of Catalysis</i> , 2013 , 303, 16-21	7.3	9
69	Performance of a biomimetic oxidation catalyst immobilized on silicon wafers: comparison with its gold congener. <i>Langmuir</i> , 2010 , 26, 16349-54	4	9
68	Chemoenzymatic Deracemization Processes 113-144		9
67	Prediction of the <i>Candida antarctica</i> lipase A protein structure by comparative modeling and site-directed mutagenesis. <i>ChemBioChem</i> , 2007 , 8, 1409-15	3.8	9
66	Transition Metal-Catalyzed Epoxidation of Alkenes 2005 , 21-49		9
65	Heterogeneous Acid-Catalyzed Racemization of Tertiary Alcohols. <i>Chemistry - A European Journal</i> , 2018 , 24, 77-80	4.8	9
64	Palladium-Catalyzed Oxidative Cascade Carbonylative Spirolactonization of Enallenols. <i>Angewandte Chemie</i> , 2017 , 129, 3269-3273	3.6	8

63	Mechanistic Insight into Enantioselective Palladium-Catalyzed Oxidative Carbocyclization-Borylation of Enallenes. <i>Chemistry - A European Journal</i> , 2018 , 24, 2433-2439	4.8	8
62	Transition Metal-Catalyzed Epoxidation of Alkenes 2010 , 37-84		8
61	Recycling of pipercoloxylidide via racemization. <i>Tetrahedron Letters</i> , 2010 , 51, 6802-6805	2	8
60	Recent Developments in the Osmium-Catalyzed Dihydroxylation of Olefins 2005 , 1-20		8
59	Kinetic Studies of Acetate Exchange in trans-4-Acetoxy- β -(1,2,3)-cyclohexenyl]palladium Complexes. Relevance for Asymmetric 1,4-Oxidation Reactions. <i>Organometallics</i> , 2002 , 21, 3367-3375	3.8	8
58	Highly Diastereoselective Palladium-Catalyzed Oxidative Cascade Carbonylative Carbocyclization of Enallenols. <i>Organic Letters</i> , 2020 , 22, 417-421	6.2	8
57	In Situ Structural Determination of a Homogeneous Ruthenium Racemization Catalyst and Its Activated Intermediates Using X-Ray Absorption Spectroscopy. <i>Chemistry - A European Journal</i> , 2020 , 26, 3411-3419	4.8	7
56	Combinatorial Library Based Engineering of <i>Candida antarctica</i> Lipase A for Enantioselective Transacylation of sec-Alcohols in Organic Solvent. <i>Angewandte Chemie</i> , 2015 , 127, 4358-4362	3.6	7
55	Application and mechanistic studies of a water-oxidation catalyst in alcohol oxidation by employing oxygen-transfer reagents. <i>Chemistry - A European Journal</i> , 2012 , 18, 16947-54	4.8	7
54	Ruthenium-Catalysed Epimerisation of Carbohydrate Alcohols as a Method to Determine the Equilibria for Epimer Interconversion in Hexopyranosides. <i>European Journal of Organic Chemistry</i> , 2011 , 2011, 4455-4459	3.2	7
53	Aerobic Oxidations and Related Reactions Catalyzed by N-Hydroxyphthalimide 2010 , 187-240		7
52	Ruthenium-Catalyzed Oxidation for Organic Synthesis 2010 , 241-275		7
51	Amino-Supported Palladium Catalyst for Chemo- and Stereoselective Domino Reactions. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 670-674	16.4	7
50	Selective Palladium-Catalyzed Allenic C \equiv C Bond Oxidation for the Synthesis of [3]Dendralenes. <i>Angewandte Chemie</i> , 2017 , 129, 13292-13296	3.6	6
49	Manganese-Based Oxidation with Hydrogen Peroxide 2005 , 295-326		6
48	Efficient Palladium-Catalyzed Aerobic Oxidative Carbocyclization to Seven-Membered Heterocycles. <i>Chemistry - A European Journal</i> , 2020 , 26, 15513-15518	4.8	6
47	Silver-Triggered Activity of a Heterogeneous Palladium Catalyst in Oxidative Carbonylation Reactions. <i>Angewandte Chemie</i> , 2020 , 132, 10477-10481	3.6	5
46	Scalable Synthesis of Oxazolones from Propargylic Alcohols through Multistep Palladium(II) Catalysis: β Selective Oxidative Heck Coupling of Cyclic Sulfonyl Enamides and Aryl Boroxines. <i>Angewandte Chemie</i> , 2013 , 125, 13990-13995	3.6	5

45	Manganese-Catalyzed Oxidation with Hydrogen Peroxide 2010 , 371-419		5
44	Organocatalytic Oxidation. Ketone-Catalyzed Asymmetric Epoxidation of Alkenes and Synthetic Applications 2010 , 85-115		5
43	Aerobic Oxidations and Related Reactions Catalyzed by N-Hydroxyphthalimide 2005 , 119-163		5
42	Selective Oxidation of Amines and Sulfides 2005 , 193-222		5
41	Synthesis of Cross-Conjugated Polyenes via Palladium-Catalyzed Oxidative C-C Bond Forming Cascade Reactions of Allenes. <i>Journal of Organic Chemistry</i> , 2020 , 85, 5428-5437	4.2	4
40	Epimerization of glycol derivatives by a cyclopentadienylruthenium catalyst: application to metalloenzymatic DYKAT. <i>Chemistry - A European Journal</i> , 2014 , 20, 14756-62	4.8	4
39	Chemoenzymatic dynamic kinetic resolution as a key step in the enantioselective synthesis of (S)-salbutamol. <i>Collection of Czechoslovak Chemical Communications</i> , 2011 , 76, 919-927		4
38	Friedel-Crafts reactions of a sulfonyl-substituted vinylic epoxide with various aromatics. <i>Journal of the Chemical Society, Perkin Transactions 1</i> , 2001 , 2051-2054		4
37	Nucleophile Addition an (E)allylpalladium-Komplexe: Steuerung des Angriffs am zentralen oder an den terminalen Kohlenstoffatomen durch Liganden. <i>Angewandte Chemie</i> , 1995 , 107, 2767-2769	3.6	4
36	Palladium-Catalyzed Oxidative Synthesis of β -Acetoxyated Enones from Alkynes. <i>Angewandte Chemie</i> , 2016 , 128, 5918-5922	3.6	3
35	Biooxidation with Cytochrome P450 Monooxygenases 2010 , 421-450		3
34	Organocatalytic Oxidation. Ketone-Catalyzed Asymmetric Epoxidation of Olefins 2005 , 51-82		3
33	Ruthenium-Catalyzed Oxidation of Alkenes, Alcohols, Amines, Amides, β -Lactams, Phenols, and Hydrocarbons 2005 , 165-191		3
32	Iron(II)-Catalyzed Aerobic Biomimetic Oxidation of Amines using a Hybrid Hydroquinone/Cobalt Catalyst as Electron Transfer Mediator. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 11819-11823	16.4	3
31	Iron(II)-Catalyzed Aerobic Biomimetic Oxidation of N-Heterocycles. <i>Chemistry - A European Journal</i> , 2021 , 27, 13725-13729	4.8	3
30	Efficient 1,3-Oxazolidin-2-one Synthesis through Heterogeneous Pd-Catalyzed Intramolecular Hydroamination of Propargylic Carbamates. <i>Chemistry - A European Journal</i> , 2019 , 25, 6295-6299	4.8	2
29	Liquid Phase Oxidation Reactions Catalyzed by Polyoxometalates 2010 , 315-352		2
28	Dynamic Kinetic Resolutions 87-113		2

27	Palladium-Catalyzed Allylic, Propargylic, and Allenic Substitution with Nitrogen, Oxygen, and Other Groups 1517 Heteroatom Nucleophiles: C=O and C=N Bond Formation Involving Conjugated Dienes and Allylpalladium Intermediates 1859-1874		2
26	Efficient Aerobic Oxidation of Organic Molecules by Multistep Electron Transfer. <i>Angewandte Chemie</i> , 2021 , 133, 15818-15836	3.6	2
25	Chemoenzymatic Dynamic Kinetic Asymmetric Transformations of β -Hydroxyketones. <i>Chemistry - A European Journal</i> , 2021 , 27, 15623-15627	4.8	2
24	Artificial plant cell walls as multi-catalyst systems for enzymatic cooperative asymmetric catalysis in non-aqueous media. <i>Chemical Communications</i> , 2021 , 57, 8814-8817	5.8	2
23	Mechanism of Palladium-Catalyzed Allylic Acetoxylation of Cyclohexene 1998 , 4, 1083		2
22	Zeolite-Encapsulated Cobalt Salophen Complexes as Efficient Oxygen-Activating Catalysts in Palladium-Catalyzed Aerobic 1,4-Oxidation of 1,3-Dienes 1999 , 5, 1460		2
21	An Efficient Approach to Regio- and Stereodefined Fully-Substituted Alkenylsilanes by Pd-Catalyzed Allenic C(sp ³)-H Oxidation. <i>Chemistry - A European Journal</i> , 2019 , 25, 11566-11573	4.8	1
20	Recent Developments in Metal-Catalyzed Dihydroxylation of Alkenes 2010 , 1-36		1
19	Prediction of the <i>Candida antarctica</i> Lipase A Protein Structure by Comparative Modeling and Site-Directed Mutagenesis. <i>ChemBioChem</i> , 2008 , 9, 2559-2559	3.8	1
18	Palladium-Catalyzed Oxidation of Dienes 2003 , 653-681		1
17	Oxidation of Carbonyl Compounds 2005 , 253-294		1
16	Cycloadditions to Enamines 993-1048		1
15	Metal-catalyzed biomimetic aerobic oxidation of organic substrates. <i>Advances in Catalysis</i> , 2021 , 69, 1-57.4	2.4	1
14	Iron(II)-Catalyzed Aerobic Biomimetic Oxidation of Amines using a Hybrid Hydroquinone/Cobalt Catalyst as Electron Transfer Mediator. <i>Angewandte Chemie</i> , 2021 , 133, 11925-11929	3.6	1
13	Aerobic Heterogeneous Palladium-Catalyzed Oxidative Allenic C-H Arylation: Benzoquinone as a Direct Redox Mediator between O ₂ and Pd. <i>CCS Chemistry</i> , 2021 , 3, 1127-1137	7.2	1
12	Efficient Lipase-Catalyzed Kinetic Resolution and Dynamic Kinetic Resolution of β -Hydroxy Nitriles. A Route to Useful Precursors for β -Amino Alcohols 2001 , 343, 726		1
11	Racemization of Olefinic Alcohols by a Carbonyl(cyclopentadienyl)ruthenium Complex: Inhibition by the Carbon-Carbon Double Bond. <i>European Journal of Organic Chemistry</i> , 2015 , 2015, 2388-2393	3.2	0
10	Efficient Heterogeneous Copper-Catalyzed Alder-Ene Reaction of Allenynamides to Pyrrolines.. <i>ACS Catalysis</i> , 2022 , 12, 1791-1796	13.1	0

9	Amino-Supported Palladium Catalyst for Chemo- and Stereoselective Domino Reactions. <i>Angewandte Chemie</i> , 2021 , 133, 680-684	3.6	○
8	Investigation of the Deactivation and Reactivation Mechanism of a Heterogeneous Palladium(II) Catalyst in the Cycloisomerization of Acetylenic Acids by XAS. <i>ACS Catalysis</i> , 2021 , 11, 2999-3008	13.1	○
7	Iron-Catalyzed Cross-Coupling of Propargyl Ethers with Grignard Reagents for the Synthesis of Functionalized Allenes and Allenols. <i>Angewandte Chemie</i> , 2021 , 133, 22352-22357	3.6	○
6	Iron-catalyzed cross-couplings of propargylic substrates with Grignard reagents. <i>Journal of Organometallic Chemistry</i> , 2022 , 964, 122304	2.3	○
5	Palladium-Catalyzed 1,4-Additions to Conjugated Dienes 2013 , 875-923		
4	Stereoselective 1,4-Functionalizations of Conjugated Dienes: cis- and trans-1-Acetoxy-4-(Dicarbomethoxymethyl)-2-Cy		
3	2-(Phenylsulfonyl)-1,3-cyclohexadiene 148-148		
2	Synthesis of (R)-2-Methoxy-N-(1-Phenylethyl)Acetamide via Dynamic Kinetic Resolution 2014 , 255-266		
1	Nanocatalysis Meets Biology. <i>Topics in Organometallic Chemistry</i> , 2020 , 243-278	0.6	