

Michael P Doyle

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#	Paper	IF	Citations
432	Catalytic carbene insertion into C-H bonds. <i>Chemical Reviews</i> , 2010 , 110, 704-24	68.1	1345
431	Recent Advances in Asymmetric Catalytic Metal Carbene Transformations. <i>Chemical Reviews</i> , 1998 , 98, 911-936	68.1	1110
430	Catalytic methods for metal carbene transformations. <i>Chemical Reviews</i> , 1986 , 86, 919-939	68.1	845
429	Oxidation of nitrogen oxides by bound dioxygen in hemoproteins. <i>Journal of Inorganic Biochemistry</i> , 1981 , 14, 351-8	4.2	528
428	Rate of reaction with nitric oxide determines the hypertensive effect of cell-free hemoglobin. <i>Nature Biotechnology</i> , 1998 , 16, 672-6	44.5	383
427	The [3 + 3]-cycloaddition alternative for heterocycle syntheses: catalytically generated metalloenolcarbenes as dipolar adducts. <i>Accounts of Chemical Research</i> , 2014 , 47, 1396-405	24.3	275
426	New aspects of catalytic asymmetric cyclopropanation. <i>Tetrahedron</i> , 1998 , 54, 7919-7946	2.4	253
425	No scavenging and the hypertensive effect of hemoglobin-based blood substitutes. <i>Free Radical Biology and Medicine</i> , 2004 , 36, 685-97	7.8	253
424	Electronic and steric control in carbon-hydrogen insertion reactions of diazoacetates catalyzed by dirhodium(II) carboxylates and carboxamides. <i>Journal of the American Chemical Society</i> , 1993 , 115, 958-964	16.4	243
423	Ligand effects on dirhodium(II) carbene reactivities. Highly effective switching between competitive carbenoid transformations. <i>Journal of the American Chemical Society</i> , 1993 , 115, 8669-8680	16.4	242
422	Highly enantioselective trapping of zwitterionic intermediates by imines. <i>Nature Chemistry</i> , 2012 , 4, 733-736	17.6	234
421	Perspective on dirhodium carboxamidates as catalysts. <i>Journal of Organic Chemistry</i> , 2006 , 71, 9253-60	4.2	212
420	Dirhodium(II) tetrakis(carboxamidates) with chiral ligands. Structure and selectivity in catalytic metal-carbene transformations. <i>Journal of the American Chemical Society</i> , 1993 , 115, 9968-9978	16.4	210
419	Electrophilic metal carbenes as reaction intermediates in catalytic reactions. <i>Accounts of Chemical Research</i> , 1986 , 19, 348-356	24.3	207
418	Enantioselective Intramolecular Cyclopropanations of Allylic and Homoallylic Diazoacetates and Diazoacetamides Using Chiral Dirhodium(II) Carboxamide Catalysts. <i>Journal of the American Chemical Society</i> , 1995 , 117, 5763-5775	16.4	197
417	Alkyl nitrite-metal halide deamination reactions. 2. Substitutive deamination of arylamines by alkyl nitrites and copper(II) halides. A direct and remarkably efficient conversion of arylamines to aryl halides. <i>Journal of Organic Chemistry</i> , 1977 , 42, 2426-2431	4.2	197
416	Oxidation and reduction of hemoproteins by trioxodinitrate(II). The role of nitrosyl hydride and nitrite. <i>Journal of the American Chemical Society</i> , 1988 , 110, 593-599	16.4	195

415	Alkyl nitrite-metal halide deamination reactions. 6. Direct synthesis of arenediazonium tetrafluoroborate salts from aromatic amines, tert-butyl nitrite, and boron trifluoride etherate in anhydrous media. <i>Journal of Organic Chemistry</i> , 1979 , 44, 1572-1574	4.2	184
414	Silane reductions in acidic media. II. Reductions of aryl aldehydes and ketones by trialkylsilanes in trifluoroacetic acid. Selective method for converting the carbonyl group to methylene. <i>Journal of Organic Chemistry</i> , 1973 , 38, 2675-2681	4.2	181
413	Dirhodium(II) caprolactamate: an exceptional catalyst for allylic oxidation. <i>Journal of the American Chemical Society</i> , 2004 , 126, 13622-3	16.4	180
412	Exceptionally high trans (anti) stereoselectivity in catalytic cyclopropanation reactions. <i>Journal of the American Chemical Society</i> , 1990 , 112, 1906-1912	16.4	176
411	Benzylic oxidation catalyzed by dirhodium(II,III) caprolactamate. <i>Organic Letters</i> , 2005 , 7, 5167-70	6.2	173
410	Highly effective catalytic methods for ylide generation from diazo compounds. Mechanism of the rhodium- and copper-catalyzed reactions with allylic compounds. <i>Journal of Organic Chemistry</i> , 1981 , 46, 5094-5102	4.2	171
409	The oxidative mannich reaction catalyzed by dirhodium caprolactamate. <i>Journal of the American Chemical Society</i> , 2006 , 128, 5648-9	16.4	169
408	Correlations between catalytic reactions of diazo compounds and stoichiometric reactions of transition-metal carbenes with alkenes. Mechanism of the cyclopropanation reaction. <i>Organometallics</i> , 1984 , 3, 53-61	3.8	165
407	Cycloaddition reactions of enoldiazo compounds. <i>Chemical Society Reviews</i> , 2017 , 46, 5425-5443	58.5	163
406	Asymmetric formal [3 + 3]-cycloaddition reactions of nitrones with electrophilic vinylcarbene intermediates. <i>Journal of the American Chemical Society</i> , 2011 , 133, 16402-5	16.4	156
405	The new chemical biology of nitrite reactions with hemoglobin: R-state catalysis, oxidative denitrosylation, and nitrite reductase/anhydrase. <i>Accounts of Chemical Research</i> , 2009 , 42, 157-67	24.3	155
404	High enantioselectivity in the intramolecular cyclopropanation of allyl diazoacetates using a novel rhodium(II) catalyst. <i>Journal of the American Chemical Society</i> , 1991 , 113, 1423-1424	16.4	155
403	Mechanistic investigation of oxidative Mannich reaction with tert-butyl hydroperoxide. The role of transition metal salt. <i>Journal of the American Chemical Society</i> , 2013 , 135, 1549-57	16.4	149
402	Exceptional selectivity in cyclopropanation reactions catalyzed by chiral cobalt(II)-porphyrin catalysts. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 850-2	16.4	145
401	Simple and sustainable iron-catalyzed aerobic C-H functionalization of N,N-dialkylanilines. <i>Journal of the American Chemical Society</i> , 2013 , 135, 9475-9	16.4	136
400	Epoxides and aziridines from diazoacetates via ylide intermediates. <i>Organic Letters</i> , 2001 , 3, 933-5	6.2	135
399	Rearrangements of ylides generated from reactions of diazo compounds with allyl acetals and thioacetals by catalytic methods. Heteroatom acceleration of the [2,3]-sigmatropic rearrangement. <i>Journal of Organic Chemistry</i> , 1984 , 49, 1917-1925	4.2	125
398	Dirhodium(II) tetrakis[methyl 2-oxaazetidone-4-carboxylate]: a chiral dirhodium(II) carboxamidate of exceptional reactivity and selectivity. <i>Organic Letters</i> , 2000 , 2, 1145-7	6.2	123

- 397 Oxidation of secondary amines catalyzed by dirhodium caprolactamate. *Chemical Communications*, **2007**, 745-7 5.8 122
- 396 Catalytic asymmetric syntheses of quinolizidines by dirhodium-catalyzed dearomatization of isoquinolinium/pyridinium methylides--the role of catalyst and carbene source. *Journal of the American Chemical Society*, **2013**, 135, 12439-47 16.4 120
- 395 Intramolecular Regioselective Insertion into Unactivated Prochiral Carbon-Hydrogen Bonds with Diazoacetates of Primary Alcohols Catalyzed by Chiral Dirhodium(II) Carboxamidates. Highly Enantioselective Total Synthesis of Natural Lignan Lactones. *Journal of Organic Chemistry*, **1996**, 61, 9146-9155 4.2 119
- 394 Effective Uses of Dirhodium(II) Tetrakis[methyl 2-oxopyrrolidine-5(R or S)-carboxylate] for Highly Enantioselective Intermolecular Cyclopropanation Reactions. *Journal of the American Chemical Society*, **1994**, 116, 8492-8498 16.4 119
- 393 Asymmetric synthesis of lactones with high enantioselectivity by intramolecular carbon-hydrogen insertion reactions of alkyl diazoacetates catalyzed by chiral rhodium(II) carboxamides. *Journal of the American Chemical Society*, **1991**, 113, 8982-8984 16.4 117
- 392 Synthesis of nitrogen-containing polycycles via rhodium(II)-induced cyclization-cycloaddition and insertion reactions of N-(diazoacetoacetyl)amides. Conformational control of reaction selectivity. *Journal of Organic Chemistry*, **1991**, 56, 820-829 4.2 117
- 391 A new rhodium(II) phosphate catalyst for diazocarbonyl reactions including asymmetric synthesis. *Tetrahedron Letters*, **1992**, 33, 5983-5986 2 114
- 390 Highly selective catalyst-directed pathways to dihydropyrroles from vinyl diazoacetates and imines. *Journal of the American Chemical Society*, **2003**, 125, 4692-3 16.4 111
- 389 Chiral Catalyst Controlled Diastereoselection and Regioselection in Intramolecular Carbon-Hydrogen Insertion Reactions of Diazoacetates. *Journal of the American Chemical Society*, **1996**, 118, 8837-8846 16.4 108
- 388 Reductive deamination of arylamines by alkyl nitrites in N,N-dimethylformamide. A direct conversion of arylamines to aromatic hydrocarbons. *Journal of Organic Chemistry*, **1977**, 42, 3494-3498 4.2 107
- 387 Stereocontrol in Intermolecular Dirhodium(II)-Catalyzed Carbonyl Ylide Formation and Reactions. Dioxolanes and Dihydrofurans. *Journal of Organic Chemistry*, **1997**, 62, 7210-7215 4.2 105
- 386 Chiral catalysts for enantioselective carbenoid cyclopropanation reactions. *Recueil Des Travaux Chimiques Des Pays-Bas*, **2010**, 110, 305-316 102
- 385 Control of chemoselectivity in catalytic carbenoid reactions. Dirhodium(II) ligand effects on relative reactivities. *Journal of the American Chemical Society*, **1992**, 114, 1874-1876 16.4 102
- 384 Diastereocontrol for Highly Enantioselective Carbon-Hydrogen Insertion Reactions of Cycloalkyl Diazoacetates. *Journal of the American Chemical Society*, **1994**, 116, 4507-4508 16.4 101
- 383 Allylic oxidations catalyzed by dirhodium caprolactamate via aqueous tert-butyl hydroperoxide: the role of the tert-butylperoxy radical. *Journal of Organic Chemistry*, **2009**, 74, 730-8 4.2 100
- 382 Chiral rhodium(II) carboxamides. A new class of catalysts for enantioselective cyclopropanation reactions. *Tetrahedron Letters*, **1990**, 31, 6613-6616 2 100
- 381 Stereoselectivity of catalytic cyclopropanation reactions. Catalyst dependence in reactions of ethyl diazoacetate with alkenes. *Organometallics*, **1984**, 3, 44-52 3.8 100
- 380 Rhodium(II) acetate and Nafion-H catalyzed decomposition of N-aryldiazoamides. Efficient synthesis of 2(3H)-indolinones. *Journal of Organic Chemistry*, **1988**, 53, 1017-1022 4.2 99

- 379 Efficient aziridination of olefins catalyzed by mixed-valent dirhodium(II,III) caprolactamate. *Organic Letters*, **2005**, 7, 2787-90 6.2 97
- 378 A new class of chiral Lewis acid catalysts for highly enantioselective hetero-Diels-Alder reactions: exceptionally high turnover numbers from dirhodium(II) carboxamides. *Journal of the American Chemical Society*, **2001**, 123, 5366-7 16.4 95
- 377 Copper-Catalyzed Divergent Addition Reactions of Enoldiazoacetamides with Nitrones. *Journal of the American Chemical Society*, **2016**, 138, 44-7 16.4 94
- 376 Chiral catalysts for enantioselective intermolecular cyclopropanation reactions with methyl phenyldiazoacetate. Origin of the solvent effect in reactions catalyzed by homochiral dirhodium(II) prolinates. *Tetrahedron Letters*, **1996**, 37, 4129-4132 2 90
- 375 High enantioselectivity for intermolecular cyclopropanation of alkynes by diazo esters catalyzed by chiral dirhodium(II) carboxamides. *Journal of the American Chemical Society*, **1992**, 114, 2755-2757 16.4 89
- 374 Synthesis of tetrahydropyridazines by a metal-carbene-directed enantioselective vinylogous N-H insertion/Lewis acid-catalyzed diastereoselective Mannich addition. *Angewandte Chemie - International Edition*, **2012**, 51, 9829-33 16.4 88
- 373 A new and general synthesis of α -silyl carbonyl compounds by silicon-hydrogen insertion from transition metal-catalyzed reactions of diazo esters and diazo ketones. *Journal of Organic Chemistry*, **1988**, 53, 6158-6160 4.2 86
- 372 A novel three-component reaction catalyzed by dirhodium(II) acetate: decomposition of phenyldiazoacetate with arylamine and imine for highly diastereoselective synthesis of 1,2-diamines. *Organic Letters*, **2003**, 5, 3923-6 6.2 84
- 371 Silane reductions in acidic media. *Journal of Organometallic Chemistry*, **1976**, 117, 129-140 2.3 84
- 370 Construction of β -lactams by highly selective intramolecular carbon-hydrogen insertion from rhodium(II) carboxylate catalyzed reactions of diazoacetamides. *Journal of Organic Chemistry*, **1988**, 53, 3384-3386 4.2 81
- 369 Intramolecular catalytic asymmetric carbon-hydrogen insertion reactions. Synthetic advantages in total synthesis in comparison with alternative approaches. *Organic and Biomolecular Chemistry*, **2011**, 9, 4007-16 3.9 80
- 368 Bicyclic pyrazolidinone derivatives from diastereoselective catalytic [3 + 3]-cycloaddition reactions of enoldiazoacetates with azomethine imines. *Organic Letters*, **2013**, 15, 1564-7 6.2 79
- 367 Enantioselective metal carbene transformations with polyethylene-bound soluble recoverable dirhodium(II) 2-pyrrolidone-5(S)-carboxylates. *Journal of Organic Chemistry*, **1992**, 57, 6103-6105 4.2 78
- 366 Enantiocontrol in the Generation and Diastereoselective Reactions of Catalytically Generated Oxonium and Iodonium Ylides. Metal-Stabilized Ylides as Reaction Intermediates. *Journal of the American Chemical Society*, **1998**, 120, 7653-7654 16.4 77
- 365 Highly selective enantiomer differentiation in intramolecular cyclopropanation reactions of racemic secondary allylic diazoacetates. *Journal of the American Chemical Society*, **1995**, 117, 11021-11022 16.4 76
- 364 Hydrolysis, nitrosyl exchange, and synthesis of alkyl nitrites. *Journal of Organic Chemistry*, **1983**, 48, 3379-3382 4.3 76
- 363 Highly enantioselective dearomatizing formal [3+3] cycloaddition reactions of N-acyliminopyridinium ylides with electrophilic enol carbene intermediates. *Angewandte Chemie - International Edition*, **2013**, 52, 12664-8 16.4 73
- 362 Formation of Macrocyclic Lactones by Enantioselective Intramolecular Cyclopropanation of Diazoacetates Catalyzed by Chiral CuI and RhII Compounds. *Angewandte Chemie International Edition in English*, **1996**, 35, 1334-1336 73

361	Rh(II)-Catalyzed Isomerizations of Cyclopropenes Evidence for Rh(II)-Complexed Vinylcarbene Intermediates. <i>Helvetica Chimica Acta</i> , 1990 , 73, 1233-1241	2	71
360	Enantiocontrol and regiocontrol in lactam syntheses by intramolecular carbon-hydrogen insertion reactions of diazoacetamides catalyzed by chiral rhodium(II) carboxamides. <i>Tetrahedron Letters</i> , 1992 , 33, 7819-7822	2	70
359	Silane reductions in acidic media. I. Reduction of aldehydes and ketones in alcoholic acidic media. General synthesis of ethers. <i>Journal of the American Chemical Society</i> , 1972 , 94, 3659-3661	16.4	69
358	Enantioselective β -lactam synthesis by intramolecular C-H functionalization from enoldiazoacetamides and derivative donor-acceptor cyclopropenes. <i>Chemical Science</i> , 2015 , 6, 2196-2207	9.4	68
357	Rhodium(II) perfluorobutyrate catalyzed silane alcoholysis. A highly selective route to silyl ethers. <i>Journal of Organic Chemistry</i> , 1990 , 55, 6082-6086	4.2	68
356	Vinyldiazolactone as a vinylcarbene precursor: Highly selective C-H insertion and cyclopropanation reactions. <i>Journal of the American Chemical Society</i> , 2006 , 128, 16038-9	16.4	67
355	Lewis acid promoted reactions of diazocarbonyl compounds. 3. Synthesis of oxazoles from nitriles through intermediate β -imidatoalkenediazonium salts. <i>Journal of Organic Chemistry</i> , 1980 , 45, 3657-3664	4.2	67
354	A donor-acceptor cyclopropene as a dipole source for a silver(I) catalyzed asymmetric catalytic [3+3]-cycloaddition with nitrones. <i>Chemical Communications</i> , 2013 , 49, 10287-9	5.8	66
353	Divergence of carbonyl ylide reactions as a function of diazocarbonyl compound and aldehyde substituent: dioxolanes, dioxolenes, and epoxides. <i>Journal of Organic Chemistry</i> , 2004 , 69, 5269-74	4.2	66
352	Enhancement of enantiocontrol/diastereocontrol in catalytic intramolecular cyclopropanation and carbon-hydrogen insertion reactions of diazoacetates with Rh ₂ (4S-MPPIM) ₄ . <i>Tetrahedron Letters</i> , 1995 , 36, 7579-7582	2	66
351	Highly Regioselective and Stereoselective Silylformylation of Alkynes Under Mild Conditions Promoted by Dirhodium(II) Perfluorobutyrate. <i>Organometallics</i> , 1994 , 13, 1081-1088	3.8	65
350	Synthesis and catalytic reactions of chiral N-(diazoacetyl)oxazolidones. <i>Journal of Organic Chemistry</i> , 1985 , 50, 1663-1666	4.2	65
349	Autocatalytic oxidation of hemoglobin induced by nitrite: activation and chemical inhibition. <i>Journal of Free Radicals in Biology & Medicine</i> , 1985 , 1, 145-53		65
348	Cyclopropanation of α,β -unsaturated carbonyl compounds and nitriles with diazo compounds. The nature of the involvement of transition-metal promoters. <i>Journal of Organic Chemistry</i> , 1982 , 47, 4059-4068	4.2	65
347	Rhodium(II)- and copper(II)-catalyzed reactions of enol diazoacetates with nitrones: metal carbene versus Lewis acid directed pathways. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 5900-3	16.4	64
346	Synthesis and Structures of (2,2-cis)-Dirhodium(II) Tetrakis[methyl 1-acyl-2-oxoimidazolidine-4(S)-carboxylates]. Chiral Catalysts for Highly Stereoselective Metal Carbene Transformations. <i>Inorganic Chemistry</i> , 1996 , 35, 6064-6073	5.1	64
345	Conformational and electronic preferences in rhodium(II) carboxylate and rhodium(II) carboxamide catalyzed carbon-hydrogen insertion reactions of N,N-disubstituted diazoacetoacetamides. <i>Tetrahedron Letters</i> , 1989 , 30, 5397-5400	2	64
344	Highly stereoselective syntheses of five- and seven-membered ring heterocycles from ylides generated by catalytic reactions of styryldiazoacetates with aldehydes and imines. <i>Organic Letters</i> , 2001 , 3, 3741-4	6.2	63

- 343 Dirhodium(II) Tetrakis[alkyl 2-oxazetidone-4(S)-carboxylates]. A New Set of Effective Chiral Catalysts for Asymmetric Intermolecular Cyclopropanation Reactions with Diazoacetates. *Synlett*, **1996**, 1996, 697-698 2.2 62
- 342 Recent advances in stereoselective synthesis involving diazocarbonyl intermediates. *Chemical Communications*, **1997**, 983 5.8 62
- 341 Optimal TBHP allylic oxidation of Delta5-steroids catalyzed by dirhodium caprolactamate. *Organic Letters*, **2007**, 9, 5349-52 6.2 61
- 340 Asymmetric rhodium carbenoid insertion into the Si-H bond. *Tetrahedron Letters*, **1996**, 37, 7631-7634 2 61
- 339 Efficient Alternative Catalysts and Methods for the Synthesis of Cyclopropanes from Olefins and Diazo Compounds. *Synthesis*, **1981**, 1981, 787-789 2.9 61
- 338 Highly regio- and stereoselective dirhodium vinylcarbene induced nitrene cycloaddition with subsequent cascade carbenoid aromatic cycloaddition/N-O cleavage and rearrangement. *Angewandte Chemie - International Edition*, **2012**, 51, 5907-10 16.4 60
- 337 Highly selective catalyst-dependent competitive 1,2-C-C, -O-C, and -N-C migrations from Ethylene-Bisilyloxy-Amido-Diazoacetates. *Journal of the American Chemical Society*, **2013**, 135, 1244-7 16.4 60
- 336 Enhanced enantiocontrol in catalytic metal carbene transformations with dirhodium (II) tetrakis[methyl 2-oxooxazolidin-4(S)-carboxylate], Rh₂(4S-MEOX)₄. *Recueil Des Travaux Chimiques Des Pays-Bas*, **2010**, 114, 163-170 60
- 335 Rhodium(II) perfluorobutyrate catalyzed hydrosilylation of 1-alkynes. Trans addition and rearrangement to allylsilanes. *Organometallics*, **1991**, 10, 1225-1226 3.8 60
- 334 Propargylic oxidations catalyzed by dirhodium caprolactamate in water: efficient access to alpha,beta-acetylenic ketones. *Journal of Organic Chemistry*, **2008**, 73, 4317-9 4.2 59
- 333 Cationic chiral dirhodium carboxamidates are activated for Lewis acid catalysis. *Angewandte Chemie - International Edition*, **2008**, 47, 1439-42 16.4 59
- 332 Highly Enantioselective Intramolecular Cyclopropanation Reactions of N-Allylic-N-methyldiazoacetamides Catalyzed by Chiral Dirhodium(II) Carboxamidates. *Journal of Organic Chemistry*, **1996**, 61, 2179-2184 4.2 59
- 331 Alkyl nitrite-metal halide deamination reactions. 3. Arylation of olefinic compounds in the deamination of arylamines by alkyl nitrites and copper(II) halides. A convenient and effective variation of the Meerwein arylation reaction. *Journal of Organic Chemistry*, **1977**, 42, 2431-2436 4.2 59
- 330 Lewis Acid/Rhodium-Catalyzed Formal [3 + 3]-Cycloaddition of Enoldiazoacetates with Donor-Acceptor Cyclopropanes. *Organic Letters*, **2015**, 17, 3568-71 6.2 58
- 329 Asymmetric hetero-Diels-Alder reaction catalyzed by dirhodium(II) carboxamidates. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 5391-5 11.5 57
- 328 Enantiocontrolled Macrocycle Formation by Catalytic Intramolecular Cyclopropanation. *Journal of the American Chemical Society*, **2000**, 122, 5718-5728 16.4 57
- 327 Macrocyclic Lactones from Dirhodium(II)-Catalyzed Intramolecular Cyclopropanation and Carbon-Hydrogen Insertion. *Journal of the American Chemical Society*, **1995**, 117, 7281-7282 16.4 57
- 326 Multifunctionalized 3-hydroxypyrroles in a three-step, one-pot cascade process from methyl 3-TBSO-2-diazo-3-butenate and nitrones. *Organic Letters*, **2011**, 13, 6122-5 6.2 56

325	Comparative evaluation of enantiocontrol for intramolecular cyclopropanation of diazoacetates with chiral CuI, RhII and RuII catalysts. <i>Chemical Communications</i> , 1997 , 211-212	5.8	56
324	Involvement of peroxide and superoxide in the oxidation of hemoglobin by nitrite. <i>Biochemical and Biophysical Research Communications</i> , 1982 , 105, 127-32	3.4	56
323	A new approach to macrocyclization via alkene formation in catalytic diazo decomposition. Synthesis of patulolides A and B. <i>Organic Letters</i> , 2000 , 2, 1777-9	6.2	55
322	Divergent outcomes of carbene transfer reactions from dirhodium- and copper-based catalysts separately or in combination. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 11152-5	16.4	54
321	Highly Enantioselective Route to β -Lactams via Intramolecular C-H Insertion Reactions of Diazoacetylazacycloalkanes Catalyzed by Chiral Dirhodium(II) Carboxamides. <i>Synlett</i> , 1995 , 1995, 1075-1076	2.2	54
320	Rearrangements of oxocyclopropanecarboxylate esters to vinyl ethers. Disparate behavior of transition-metal catalysts. <i>Journal of Organic Chemistry</i> , 1982 , 47, 5326-5339	4.2	54
319	Development and Evaluation of a Prep Course for Chemistry Graduate Teaching Assistants at a Research University. <i>Journal of Chemical Education</i> , 2012 , 89, 865-872	2.4	53
318	Catalysts with mixed ligands on immobilized supports. Electronic and steric advantages. <i>Organic Letters</i> , 2003 , 5, 561-3	6.2	53
317	Total synthesis of (S)-(+)-imperanene. Effective use of regio- and enantioselective intramolecular carbon-hydrogen insertion reactions catalyzed by chiral dirhodium(II) carboxamides. <i>Journal of Organic Chemistry</i> , 2002 , 67, 2954-9	4.2	53
316	Addition/elimination in the rhodium(II) perfluorobutyrate catalyzed hydrosilylation of 1-alkenes. Rhodium hydride promoted isomerization and hydrogenation. <i>Organometallics</i> , 1992 , 11, 549-555	3.8	52
315	Highly enantioselective catalytic synthesis of functionalized chiral diazoacetates. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 6392-5	16.4	51
314	Construction of highly functionalized diazoacetates via catalytic Mukaiyama-Michael reactions. <i>Organic Letters</i> , 2008 , 10, 1605-8	6.2	51
313	Optimization of Enantiocontrol for Carbon-Hydrogen Insertion with Chiral Dirhodium(II) Carboxamides. Synthesis of Natural Dibenzylbutyrolactone Lignans from 3-Aryl-1-propyl Diazoacetates in High Optical Purity. <i>Journal of Organic Chemistry</i> , 1995 , 60, 6654-6655	4.2	51
312	Effective and highly stereoselective coupling with vinyl diazomethanes to form symmetrical trienes. <i>Journal of Organic Chemistry</i> , 2002 , 67, 602-4	4.2	50
311	Selectivity in reactions of allyl diazoacetates as a function of catalyst and ring size from gamma-lactones to macrocyclic lactones. <i>Journal of Organic Chemistry</i> , 2000 , 65, 8839-47	4.2	50
310	Highly selective β -lactone syntheses by intramolecular carbenoid carbon-hydrogen insertion in rhodium(II) carboxylate and rhodium(II) carboxamide catalyzed reactions of diazo esters. <i>Tetrahedron Letters</i> , 1989 , 30, 7001-7004	2	50
309	Facile catalytic methods for intermolecular generation of allylic oxonium ylides and their stereoselective [2,3]-sigmatropic rearrangement. <i>Tetrahedron Letters</i> , 1988 , 29, 5119-5122	2	50
308	Catalytic Asymmetric [3+1]-Cycloaddition Reaction of Ylides with Electrophilic Metallo-enolcarbene Intermediates. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 7479-7483	16.4	49

307	Highly Regio- and Enantioselective Formal [3 + 2]-Annulation of Indoles with Electrophilic Enol Carbene Intermediates. <i>Organic Letters</i> , 2016 , 18, 4550-3	6.2	49
306	In search of high stereocontrol for the construction of cis-disubstituted cyclopropane compounds. Total synthesis of a cyclopropane-configured urea-PETT analogue that is a HIV-1 reverse transcriptase inhibitor. <i>Organic Letters</i> , 2002 , 4, 901-4	6.2	49
305	Tetrakis[(4S)-4-phenyloxazolidin-2-one]dirhodium(II) and Its Catalytic Applications for Metal Carbene Transformations. <i>Helvetica Chimica Acta</i> , 1993 , 76, 2227-2235	2	49
304	Asymmetrische Katalysen, 58. Mitt.: Enantioselektive S - H- und C - H-Insertionen mit optisch aktiven Rh(II)- und Cu(II)-Katalysatoren. <i>Monatshefte für Chemie</i> , 1990 , 121, 755-764	1.4	49
303	Three-Component Cascade Reactions with 2,3-Diketoesters: A Novel Metal-Free Synthesis of 5-Vinyl-pyrrole and 4-Hydroxy-indole Derivatives. <i>Organic Letters</i> , 2015 , 17, 3876-9	6.2	48
302	Chiral Dirhodium(II) Catalysts for Selective Metal Carbene Reactions. <i>Current Organic Chemistry</i> , 2015 , 20, 61-81	1.7	48
301	A facile three-component one-pot synthesis of structurally constrained tetrahydrofurans that are t-RNA synthetase inhibitor analogues. <i>Journal of Organic Chemistry</i> , 2004 , 69, 4856-9	4.2	47
300	Dirhodium-catalyzed phenol and aniline oxidations with T-HYDRO. Substrate scope and mechanism of oxidation. <i>Journal of Organic Chemistry</i> , 2011 , 76, 2585-93	4.2	46
299	Highly enantioselective oxonium ylide formation and Stevens rearrangement catalyzed by chiral dirhodium(II) carboxamidates. <i>Tetrahedron Letters</i> , 1997 , 38, 4367-4370	2	46
298	The Influence of Ligands on Dirhodium(II) on Reactivity and Selectivity in Metal Carbene Reactions. <i>Progress in Inorganic Chemistry</i> , 2007 , 113-168		46
297	Catalyst selection for metal carbene transformations. <i>Journal of Organometallic Chemistry</i> , 2001 , 617-618, 98-104	2.3	46
296	Macrocyclic Cyclopropenes by Highly Enantioselective Intramolecular Addition of Metal Carbenes to Alkynes. <i>Angewandte Chemie - International Edition</i> , 1999 , 38, 700-702	16.4	46
295	Silane reductions in acidic media. VII. Aluminum chloride catalyzed hydrogen-halogen exchange between organosilanes and alkyl halides. An efficient hydrocarbon synthesis. <i>Journal of Organic Chemistry</i> , 1976 , 41, 1393-1396	4.2	46
294	Highly efficient regioselective silylcarbonylation of alkynes catalyzed by dirhodium(II) perfluorobutyrate. <i>Organometallics</i> , 1993 , 12, 11-12	3.8	45
293	Silane reductions in acidic media. III. Reductions of aldehydes and ketones to alcohols and alcohol derivatives. General syntheses of alcohols, symmetrical ethers, carboxylate esters and acetamides. <i>Journal of Organic Chemistry</i> , 1974 , 39, 2740-2747	4.2	45
292	Vinylogous reactivity of enol diazoacetates with donor-acceptor substituted hydrazones. Synthesis of substituted pyrazole derivatives. <i>Journal of Organic Chemistry</i> , 2013 , 78, 1583-8	4.2	43
291	Macrocyclic Formation by Catalytic Intramolecular Cyclopropanation. A New General Methodology for the Synthesis of Macrolides. <i>Journal of the American Chemical Society</i> , 1997 , 119, 8826-8837	16.4	43
290	Chiral Dirhodium(II) Carboxamidate-Catalyzed [2+2]-Cycloaddition of TMS-Ketene and Ethyl Glyoxylate. <i>Advanced Synthesis and Catalysis</i> , 2005 , 347, 87-92	5.6	43

289	Synthesis of pyrrolizidine bases by highly diastereoselective and regioselective catalytic carbon-hydrogen insertion reactions of chiral pyrrolidinediazoacetamides. <i>Tetrahedron Letters</i> , 1996 , 37, 1371-1374	2	43
288	Nitric oxide dissociation from trioxodinitrate(II) in aqueous solution. <i>Journal of the American Chemical Society</i> , 1984 , 106, 3678-3679	16.4	43
287	Dinitrogen extrusion from enoldiazo compounds under thermal conditions: synthesis of donor-acceptor cyclopropenes. <i>Chemical Communications</i> , 2015 , 51, 12924-7	5.8	42
286	Catalytic Divergent [3+3]- and [3+2]-Cycloaddition by Discrimination Between Diazo Compounds. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 12292-12296	16.4	42
285	Solvent enhancement of reaction selectivity: a unique property of cationic chiral dirhodium carboxamidates. <i>Journal of the American Chemical Society</i> , 2011 , 133, 9572-9	16.4	42
284	Preparation and Catalytic Properties of Immobilized Chiral Dirhodium(II) Carboxamidates. <i>Organometallics</i> , 2002 , 21, 1747-1749	3.8	42
283	Chemoselectivity and enantiocontrol in catalytic intramolecular metal carbene reactions of diazo acetates linked to reactive functional groups by naphthalene-1,8-dimethanol. <i>Chemical Communications</i> , 1999 , 1691-1692	5.8	42
282	Transition Metal Carbene Complexes: Cyclopropanation 1995 , 387-420		42
281	Addition of arylchlorocarbenes to .alpha.,.beta.-unsaturated esters. Absolute rates, substituent effects, and variable reactivities. <i>Journal of the American Chemical Society</i> , 1988 , 110, 7143-7152	16.4	42
280	Correlation between catalytic cyclopropanation and ylide generation. <i>Journal of Organometallic Chemistry</i> , 1981 , 216, C64-C68	2.3	42
279	Catalytic conversion of diazocarbonyl compounds to imines: applications to the synthesis of tetrahydropyrimidines and lactams. <i>Organic Letters</i> , 2014 , 16, 740-3	6.2	41
278	Lewis acid catalyzed indole synthesis via intramolecular nucleophilic attack of phenyldiazoacetates to iminium ions. <i>Journal of Organic Chemistry</i> , 2009 , 74, 9222-4	4.2	41
277	Chiral catalyst enhancement of diastereocontrol for O?H insertion reactions of styryl- and phenyldiazoacetate esters of pantolactone. <i>Tetrahedron Letters</i> , 2002 , 43, 5929-5931	2	41
276	Glutaraldehyde modification of recombinant human hemoglobin alters its hemodynamic properties. <i>Journal of Biological Chemistry</i> , 1999 , 274, 2583-91	5.4	41
275	Vinyldiazo Reagents and Metal Catalysts: A Versatile Toolkit for Heterocycle and Carbocycle Construction. <i>ChemCatChem</i> , 2018 , 10, 488-496	5.2	40
274	Catalytic addition methods for the synthesis of functionalized diazoacetoacetates and application to the construction of highly substituted cyclobutanones. <i>Organic Letters</i> , 2005 , 7, 5171-4	6.2	40
273	Enantioselective Syntheses of 2-Deoxyxylono-1,4-lactone and 2-Deoxyribo-1,4-lactone from 1,3-Dioxan-5-yl Diazoacetates. <i>Journal of Organic Chemistry</i> , 1999 , 64, 8907-8915	4.2	40
272	Generation of Halomethyl Radicals by Halogen Atom Abstraction and Their Addition Reactions with Alkenes. <i>Journal of the American Chemical Society</i> , 2019 , 141, 16643-16650	16.4	39

271	Tandem sequence of phenol oxidation and intramolecular addition as a method in building heterocycles. <i>Journal of Organic Chemistry</i> , 2012 , 77, 10294-303	4.2	39
270	Cyclopropanation versus carbon-hydrogen insertion. The influences of substrate and catalyst on selectivity. <i>Tetrahedron Letters</i> , 2001 , 42, 3155-3158	2	39
269	Spirolactones from Dirhodium(II)-Catalyzed Diazo Decomposition with Regioselective Carbon-Hydrogen Insertion. <i>Journal of Organic Chemistry</i> , 1995 , 60, 3035-3038	4.2	39
268	Dirhodium(II)-Catalyzed Annulation of Enoldiazoacetamides with α -Diazoketones: An Efficient and Highly Selective Approach to Fused and Bridged Ring Systems. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 5573-6	16.4	39
267	Reactivity and Selectivity in Catalytic Reactions of Enoldiazoacetamides. Assessment of Metal Carbenes as Intermediates. <i>Organometallics</i> , 2016 , 35, 3413-3420	3.8	39
266	"Matched/mismatched" diastereomeric dirhodium(II) carboxamidate catalyst pairs. Structure-selectivity correlations in diazo decomposition and hetero-Diels-Alder reactions. <i>Journal of Organic Chemistry</i> , 2005 , 70, 5291-301	4.2	38
265	Selective C(sp ³)-H Bond Insertion in Carbene/Alkyne Metathesis Reactions. Enantioselective Construction of Dihydroindoles. <i>ACS Catalysis</i> , 2018 , 8, 9543-9549	13.1	38
264	Enantioselective carbon-hydrogen insertion is an effective and efficient methodology for the synthesis of (R)-(-)-baclofen. <i>Chirality</i> , 2002 , 14, 169-72	2.1	37
263	A new catalytic transformation of diazo esters: hydride abstraction in dirhodium(II)-catalysed reactions. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1995 , 619		37
262	Synthesis of 2-deoxyxylolactone from glycerol derivatives via highly enantioselective carbon-hydrogen insertion reactions. <i>Tetrahedron Letters</i> , 1994 , 35, 3853-3856	2	37
261	Diazo Esters as Dienophiles in Intramolecular (4 + 2) Cycloadditions: Computational Explorations of Mechanism. <i>Journal of the American Chemical Society</i> , 2017 , 139, 2766-2770	16.4	36
260	Highly enantioselective carbonyl-ene reactions of 2,3-diketoesters: efficient and atom-economical process to functionalized chiral β -hydroxy-ketoesters. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 6468-72	16.4	36
259	Tetrahydroquinolines and benzazepines through catalytic diastereoselective formal [4 + 2]-cycloaddition reactions between donor-acceptor cyclopropenes and imines. <i>Organic Letters</i> , 2013 , 15, 3278-81	6.2	36
258	Optimization of enantiocontrol in cis-selective cyclopropanation reactions catalyzed by dirhodium(II) tetrakis[alkyl 2-oxaazetidone-4(S)-carboxylates]. <i>Chemical Communications</i> , 2000 , 867-868	5.8	36
257	Formation and characterization of 3-O-arenediazoascorbic acids. New stable diazo ethers. <i>Journal of Organic Chemistry</i> , 1989 , 54, 3785-3789	4.2	36
256	Catalytic asymmetric cycloaddition reactions of enoldiazo compounds. <i>Organic and Biomolecular Chemistry</i> , 2019 , 17, 4183-4195	3.9	35
255	High selectivity from configurational match/mismatch in carbon-hydrogen insertion reactions of steroidal diazoacetates catalyzed by chiral dirhodium(II) carboxamidates. <i>Journal of Organic Chemistry</i> , 2001 , 66, 8112-9	4.2	35
254	Enantioselectivity and cis/trans-Selectivity in Dirhodium(II)-Catalyzed addition of diazoacetates to olefins. <i>Helvetica Chimica Acta</i> , 1995 , 78, 459-470	2	35

- 253 Divergent stereocontrol of acid catalyzed intramolecular aldol reactions of 2,3,7-triketooesters: synthesis of highly functionalized cyclopentanones. *Organic Letters*, **2012**, 14, 3608-11 6.2 34
- 252 Reduction of arenediazonium salts by hydroquinone. Kinetics and mechanism for the electron-transfer step. *Journal of Organic Chemistry*, **1988**, 53, 3255-3261 4.2 34
- 251 Syntheses of Tetrahydropyridazine and Tetrahydro-1,2-diazepine Scaffolds through Cycloaddition Reactions of Azoalkenes with Enol Diazoacetates. *Organic Letters*, **2016**, 18, 5884-5887 6.2 33
- 250 Enhancement of stereoselectivity in catalytic cyclopropanation reactions. *Tetrahedron Letters*, **1987**, 28, 833-836 2 33
- 249 Transition-metal-catalyzed rearrangements of oxocyclopropanes to vinyl ethers. Activation by vicinal carboalkoxy substituents. *Journal of the American Chemical Society*, **1981**, 103, 5917-5919 16.4 33
- 248 Regioselectivity in catalytic cyclopropanation reactions. *Tetrahedron Letters*, **1982**, 23, 2261-2264 2 33
- 247 Divergent Rhodium-Catalyzed Cyclization Reactions of Enoldiazoacetamides with Nitrosoarenes. *Journal of the American Chemical Society*, **2017**, 139, 9839-9842 16.4 32
- 246 Unexpected catalytic reactions of silyl-protected enol diazoacetates with nitrile oxides that form 5-arylamino-furan-2(3H)-one-4-carboxylates. *Organic Letters*, **2012**, 14, 800-3 6.2 32
- 245 Alkyl nitrite-metal halide deamination reactions. 7. Synthetic coupling of electrophilic bromination with substitutive deamination for selective synthesis of multiply brominated aromatic compounds from arylamines. *Journal of Organic Chemistry*, **1980**, 45, 2570-2575 4.2 32
- 244 Hindered organosilicon compounds. Synthesis and properties of di-tert-butyl-, di-tert-butylmethyl-, and tri-tert-butylsilanes. *Journal of the American Chemical Society*, **1975**, 97, 3777-3782 16.4 32
- 243 Macrocycle Formation from Catalytic Metal Carbene Transformations. *Synlett*, **2001**, 2001, 1364-1370 2.2 31
- 242 Reactivities and selectivities in macrocyclic addition reactions with diazoacetates using copper(I) and rhodium(II) catalysts. *Tetrahedron Letters*, **2000**, 41, 6265-6269 2 31
- 241 Catalytic Intramolecular Addition of Metal Carbenes to Remote Furans. *Organic Letters*, **1999**, 1, 1327-1329 31
- 240 Synthesis of allenes by [2,3]-sigmatropic rearrangement of prop-2-yn-1-yl oxonium ylides formed in rhodium(II) carboxylate catalysed reactions of diazo compounds. *Journal of the Chemical Society Chemical Communications*, **1990**, 46 31
- 239 Outer-sphere one-electron reductions of arenediazonium salts. *Journal of the American Chemical Society*, **1987**, 109, 1536-1540 16.4 31
- 238 Cycloheptatriene syntheses through rhodium(II) acetate-catalyzed intramolecular addition reactions of N-benzyl diazoacetamides. *Tetrahedron Letters*, **1988**, 29, 2639-2642 2 31
- 237 Radical-Mediated Strategies for the Functionalization of Alkenes with Diazo Compounds. *Journal of the American Chemical Society*, **2020**, 142, 13846-13855 16.4 31
- 236 Catalytic Asymmetric Synthesis of Cyclopentyl β -Amino Esters by [3+2] Cycloaddition of Enecarbamates with Electrophilic Metalloenolcarbene Intermediates. *Angewandte Chemie - International Edition*, **2016**, 55, 10108-12 16.4 31

235	Dirhodium(II)-catalyzed formal [3+2+1]-annulation of azomethine imines with two molecules of a diazo ketone. <i>Chemical Communications</i> , 2013 , 49, 2762-4	5.8	30
234	Straightforward access to the [3.2.2]nonatriene structural framework via intramolecular cyclopropanation/Buchner reaction/Cope rearrangement cascade. <i>Organic Letters</i> , 2015 , 17, 790-3	6.2	30
233	Templated Carbene Metathesis Reactions from the Modular Assembly of Enol-diazo Compounds and Propargyl Acetates. <i>European Journal of Organic Chemistry</i> , 2013 , 2013, 6032-6037	3.2	30
232	Macrocyclic oxonium ylide formation and internal [2,3]-sigmatropic rearrangement. Catalyst influence on selectivity. <i>Tetrahedron Letters</i> , 1997 , 38, 5265-5268	2	30
231	Influences of catalyst configuration and catalyst loading on selectivities in reactions of diazoacetamides. Barrier to equilibrium between diastereomeric conformations. <i>Organic Letters</i> , 2003 , 5, 407-10	6.2	30
230	Diastereoselectivity Enhancement in Cyclopropanation and Cyclopropanation Reactions of Chiral Diazoacetate Esters Catalyzed by Chiral Dirhodium(II) Carboxamides. <i>Synlett</i> , 1993 , 1993, 151-153	2.2	30
229	Stereoselective synthesis of disubstituted 3(2H)-furanones via catalytic intramolecular C-H insertion reactions of diazo-keto esters including asymmetric induction. <i>Tetrahedron Letters</i> , 1994 , 35, 7269-7272	2	30
228	Enantioselectivity for catalytic cyclopropanation with diazomalonates. <i>Arkivoc</i> , 2003 , 2003, 15-22	0.9	30
227	The Selection of Catalysts for Metal Carbene Transformations. <i>Advances in Organometallic Chemistry</i> , 2016 , 66, 1-31	3.8	29
226	Efficient synthesis of oxazoles by dirhodium(II)-catalyzed reactions of styryl diazoacetate with oximes. <i>Chemical Communications</i> , 2012 , 48, 11522-4	5.8	29
225	Formation of Macrocycles by Catalytic Intramolecular Aromatic Cycloaddition of Metal Carbenes to Remote Arenes. <i>Journal of the American Chemical Society</i> , 1996 , 118, 7865-7866	16.4	29
224	Olefin coordination with rhodium(II) perfluoroalkanoates in solution. <i>Inorganic Chemistry</i> , 1987 , 26, 3070-3072	3.0	29
223	Olefin coordination with rhodium(II) trifluoroacetate. <i>Inorganic Chemistry</i> , 1984 , 23, 3684-3685	5.1	29
222	Silane reductions in acidic media. VI. Mechanism of organosilane reductions of carbonyl compounds. Transition state geometries of hydride transfer reactions. <i>Journal of Organic Chemistry</i> , 1975 , 40, 3835-3838	4.2	29
221	Catalyst Choice for Highly Enantioselective [3 + 3]-Cycloaddition of Enoldiazocarbonyl Compounds. <i>ACS Catalysis</i> , 2018 , 8, 10392-10400	13.1	29
220	Competitive [2,3]- and [1,2]-oxonium ylide rearrangements. Concerted or stepwise?. <i>Organic Letters</i> , 2012 , 14, 1676-9	6.2	28
219	Asymmetric catalysis, part 108 copper catalysts with optically active ligands in the enantioselective Meerwein arylation of activated olefins. <i>Journal of Organometallic Chemistry</i> , 1997 , 541, 89-95	2.3	28
218	Influence of olefin coordination on cyclopropanation selectivity. <i>Tetrahedron Letters</i> , 1984 , 25, 4087-4090	2.0	28

- 217 Pericyclic reaction of a zwitterionic salt of an enedione-diazoester. A novel strategy for the synthesis of highly functionalized resorcinols. *Organic Letters*, **2010**, 12, 4304-7 6.2 27
- 216 Activation parameters for the reaction of phenylchloro carbene with pyridine, tri-*n*-butyltin hydride, and triethylsilane; evidence against the need to invoke reversibly formed complexes in the reaction of this carbene with olefins. *Tetrahedron Letters*, **1989**, 30, 1335-1338 2 27
- 215 Reactivity and selectivity in intermolecular insertion reactions of chlorophenylcarbene. *Tetrahedron Letters*, **1988**, 29, 5863-5866 2 27
- 214 Reaction between azide and nitronium ions. Formation and decomposition of nitryl azide. *Journal of the American Chemical Society*, **1973**, 95, 952-953 16.4 27
- 213 An efficient route to highly enantioenriched tetrahydroazulenes and tetralones by desymmetrization reactions of α -diaryldiazoaceto-acetates. *Chemical Communications*, **2015**, 51, 565-8 5.8 26
- 212 Unprecedented Intramolecular [4 + 2]-Cycloaddition between a 1,3-Diene and a Diazo Ester. *Journal of the American Chemical Society*, **2016**, 138, 1808-11 16.4 26
- 211 Control of selectivity in the generation and reactions of oxonium ylides. *Chemical Communications*, **2011**, 47, 7623-5 5.8 26
- 210 Removal of Metal-Metal Bonding in a Dimetallic Paddlewheel Complex: Molecular and Electronic Structure of Bis(phenyl) Dirhodium(III) Carboxamidate Compounds. *Organometallics*, **2008**, 27, 5836-5845 2.8 26
- 209 Metal Carbene Reactions from Dirhodium(II) Catalysts. *Topics in Organometallic Chemistry*, **2004**, 203-222 2.6 26
- 208 Stereoselective Synthesis of Substituted 5-Hydroxy-1,3-dioxanes. *Synthesis*, **1998**, 1998, 879-882 2.9 26
- 207 An efficient methodology to substituted furans via oxidation of functionalized α -diazo- β -ketoacetates. *Tetrahedron Letters*, **2011**, 52, 2093-2096 2 25
- 206 A readily prepared neutral heterobimetallic titanium(IV)-rhodium(I) catalyst for intramolecular hydroacylation. *Chemical Communications*, **2005**, 3307-9 5.8 25
- 205 Stereoselective synthesis of bicyclic pyrrolidines by a rhodium-catalyzed cascade process. *Angewandte Chemie - International Edition*, **2004**, 43, 6713-6 16.4 25
- 204 Transition Metal Carbene Complexes: Diazodecomposition, Ylide, and Insertion **1995**, 421-468 25
- 203 Enantioselective intramolecular cyclopropanation of N-allylic- and N-homoallylic diazoacetamides catalyzed by chiral dirhodium(II) catalysts. *Tetrahedron*, **1994**, 50, 1665-1674 2.4 25
- 202 Exceptionally effective catalysis of cyclopropanation reactions by the hexarhodium carbonyl cluster. *Tetrahedron Letters*, **1981**, 22, 1783-1786 2 25
- 201 Silane reductions in acidic media. IV. Reductions of alkyl-substituted cyclohexanones by mono-, di-, and trialkylsilanes. Stereochemistry of alcohol and ether formation. *Journal of Organic Chemistry*, **1975**, 40, 3821-3829 4.2 25
- 200 Silane reductions in acidic media. 10. Ionic hydrogenation of cycloalkenes. Stereoselectivity and mechanism. *Journal of Organic Chemistry*, **1978**, 43, 693-696 4.2 25

- 199 Synthesis of Tetrahydropyridazines by a Metal-Carbene-Directed Enantioselective Vinylogous N²H Insertion/Lewis Acid-Catalyzed Diastereoselective Mannich Addition. *Angewandte Chemie*, **2012**, 124, 9967-9971 3.6 24
- 198 Rhodium(II)- and Copper(II)-Catalyzed Reactions of Enol Diazoacetates with Nitrones: Metal Carbene versus Lewis Acid Directed Pathways. *Angewandte Chemie*, **2012**, 124, 6002-6005 3.6 24
- 197 Highly Enantioselective Dearomatizing Formal [3+3] Cycloaddition Reactions of N-Acyliminopyridinium Ylides with Electrophilic Enol Carbene Intermediates. *Angewandte Chemie*, **2013**, 125, 12896-12900 3.6 24
- 196 Bis(phenyl)dirhodium(III) caprolactamate: a dinuclear paddlewheel complex with no metal-metal bond. *Journal of the American Chemical Society*, **2007**, 129, 3504-5 16.4 24
- 195 Constructing chiral diazoacetates by enantioselective catalytic Mukaiyama aldol reactions. *Tetrahedron: Asymmetry*, **2006**, 17, 574-577 24
- 194 A short stereoselective synthesis of (+)- and (–)-2-oxabicyclo[3.3.0]oct-6-en-3-one by intramolecular carbon-hydrogen insertion catalyzed by chiral dirhodium(II) carboxamidates. *Tetrahedron: Asymmetry*, **2003**, 14, 925-928 24
- 193 Enantioselective Lactone Formation from Phenyl diazoacetates via Catalytic Intramolecular Carbon-Hydrogen Insertion. *Synlett*, **2001**, 2001, 0967-0969 2.2 24
- 192 Highly Regio- and Stereoselective Dirhodium Vinylcarbene Induced Nitrono Cycloaddition with Subsequent Cascade Carbenoid Aromatic Cycloaddition/N²O Cleavage and Rearrangement. *Angewandte Chemie*, **2012**, 124, 6009-6012 3.6 23
- 191 Stereoselective synthesis of highly functionalized alpha-diazo-beta-ketoalkanoates via catalytic one-pot Mukaiyama-Aldol reactions. *Organic Letters*, **2010**, 12, 796-9 6.2 23
- 190 Polyether macrocycles from intramolecular cyclopropanation and ylide formation. Effect of catalyst and coordination. *Journal of Organic Chemistry*, **2006**, 71, 8183-9 4.2 23
- 189 Diazoacetate enones for the synthesis of diverse natural product-like scaffolds. *Organic Letters*, **2013**, 15, 3642-5 6.2 22
- 188 Chiral Dirhodium(II) Catalysts and Their Applications **2005**, 591-632 22
- 187 Enantioselective catalytic intramolecular cyclopropanation of allylic diazopropionates optimized with dirhodium(II) tetrakis[methyl 2-oxazolidinone-4(S or R)-carboxylate]. *Tetrahedron: Asymmetry*, **1995**, 6, 2157-2160 22
- 186 Molybdenum hexacarbonyl catalyzed cyclopropanation of .alpha.,.beta.-unsaturated esters and nitriles and diazocarbonyl compounds. *Journal of Organic Chemistry*, **1980**, 45, 1538-1539 4.2 22
- 185 Disproportionation of trityl alkyl ethers. Synthesis of aldehydes and ketones in a cationic chain reaction involving hydride transfer. *Journal of Organic Chemistry*, **1973**, 38, 625-626 4.2 22
- 184 Synthesis of Chiral Tetrasubstituted Azetidines from Donor-Acceptor Azetines via Asymmetric Copper(I)-Catalyzed Imido-Ylide [3+1]-Cycloaddition with Metallo-Enolcarbenes. *Angewandte Chemie - International Edition*, **2019**, 58, 16188-16192 16.4 21
- 183 Substrate-dependent divergent outcomes from catalytic reactions of silyl-protected enol diazoacetates with nitrile oxides: azabicyclo[3.1.0]hexanes or 5-arylamino-furan-2(3H)-ones. *Journal of Organic Chemistry*, **2012**, 77, 5313-7 4.2 21
- 182 Divergent Outcomes of Carbene Transfer Reactions from Dirhodium- and Copper-Based Catalysts Separately or in Combination. *Angewandte Chemie*, **2011**, 123, 11348-11351 3.6 21

181	(4,0)-Dirhodium(II) tetrakis[methyl 1-acetyl-2-oxoimidazolidine-4(S)-carboxylate]. Implications for the mechanism of ligand exchange reactions. <i>Inorganica Chimica Acta</i> , 1997 , 266, 13-18	2.7	21
180	Observations of Rhodium-Containing Reaction Intermediates using HPLC with ICP-MS and ESI-MS Detection. <i>Advanced Synthesis and Catalysis</i> , 2006 , 348, 821-825	5.6	21
179	Amplification of asymmetric induction in sequential reactions of bis-diazoacetates catalyzed by chiral dirhodium(II) carboxamidates. <i>Organic Letters</i> , 2005 , 7, 5035-8	6.2	21
178	Dirhodium(II) tetrakis[N,N-dimethyl-2-pyrrolidone-5(S)-carboxamide]. Structural effects on enantioselection in metal carbene transformations. <i>Inorganica Chimica Acta</i> , 1994 , 220, 193-199	2.7	21
177	Diazirines in carbenoid reactions catalyzed by rhodium(II) carboxylates. <i>Tetrahedron Letters</i> , 1989 , 30, 3049-3052	2	21
176	Unsymmetrical alkenes by carbene coupling from diazine decomposition in the presence of diazo compounds. <i>Journal of Organic Chemistry</i> , 1987 , 52, 1619-1621	4.2	21
175	Effective methods for the syntheses of 2-pyrazolines and pyrazoles from diazocarbonyl compounds. <i>Journal of Heterocyclic Chemistry</i> , 1983 , 20, 943-946	1.9	21
174	Catalytic Desymmetric Cycloaddition of Diaziridines with Metalloenolcarbenes: The Role of Donor-Acceptor Cyclopropenes. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 12502-12506	16.4	20
173	Diversifying Science, Technology, Engineering, and Mathematics (STEM): An Inquiry into Successful Approaches in Chemistry. <i>Journal of Chemical Education</i> , 2014 , 91, 1860-1866	2.4	20
172	Expedient access to substituted 3-amino-2-cyclopentenones by dirhodium-catalyzed [3+2]-annulation of silylated ketene imines and enoldiazoacetates. <i>Chemical Communications</i> , 2014 , 50, 2462-4	5.8	20
171	Oxidative deamination of primary amines by copper halide nitrosyls. The formation of geminal dihalides. <i>Journal of the American Chemical Society</i> , 1976 , 98, 1627-1629	16.4	20
170	Versatile Donor-Acceptor Cyclopropenes in Metal Carbene Transformations. <i>Israel Journal of Chemistry</i> , 2016 , 56, 399-408	3.4	20
169	β-Amino Radical-Mediated Diverse Difunctionalization of Alkenes: Construction of C-C, C-N, and C-S Bonds. <i>ACS Catalysis</i> , 2020 , 10, 13682-13687	13.1	19
168	Displacement of Dinitrogen by Oxygen: A Methodology for the Catalytic Conversion of Diazocarbonyl Compounds to Ketocarbonyl Compounds by 2,6-Dichloropyridine-N-oxide. <i>Organic Letters</i> , 2018 , 20, 776-779	6.2	19
167	Oxidation of oxymyoglobin by nitric oxide through dissociation from cobalt nitrosyls. <i>Journal of Inorganic Biochemistry</i> , 1983 , 19, 329-338	4.2	19
166	Nickel(II) bromide-catalyzed oxidations of primary and secondary alcohols to carbonyl compounds by benzoyl peroxide. <i>Journal of Organic Chemistry</i> , 1979 , 44, 2955-2956	4.2	19
165	Mechanism of nitrosyl transfer. Dissociation of nitric oxide from cobalt nitrosyls. <i>Journal of the American Chemical Society</i> , 1982 , 104, 3392-3397	16.4	19
164	Enoldiazosulfones for Highly Enantioselective [3 + 3]-Cycloaddition with Nitrones Catalyzed by Copper(I) with Chiral BOX Ligands. <i>Organic Letters</i> , 2019 , 21, 40-44	6.2	19

- 163 Regioselective Hydroformylation of Alkenes Catalyzed by Di(*n*-carboxylato)rhodium(I) Complexes. *Synlett*, **1994**, 1994, 615-616 2.2 18
- 162 Lactam formation via rhodium(II) catalyzed carbon-hydrogen insertion reactions of diazo amides. *Bioorganic and Medicinal Chemistry Letters*, **1993**, 3, 2409-2414 2.9 18
- 161 Asymmetric synthesis of 1H-pyrrol-3(2H)-ones from 2,3-diketoesters by combination of aldol condensation with benzilic acid rearrangement. *Chemical Communications*, **2016**, 52, 108-11 5.8 17
- 160 Hg(OTf)₂ Catalyzed Intramolecular 1,4-Addition of Donor-Acceptor Cyclopropenes to Arenes. *Organic Letters*, **2015**, 17, 4312-5 6.2 17
- 159 Enantioselective carbonyl-ene reactions catalyzed by chiral cationic dirhodium(II,III) carboxamidates. *Journal of Organic Chemistry*, **2014**, 79, 12185-90 4.2 17
- 158 Divergent pathways of unsaturated diazocarbonyl compounds catalyzed by dirhodium and Lewis acids catalysts separately or in combination. *Chinese Chemical Letters*, **2015**, 26, 227-232 8.1 17
- 157 Regioselective oxidations of primary alcohols in 1,4-diols. *Journal of Organic Chemistry*, **1981**, 46, 4806-4808 4.0 17
- 156 Silane reductions in acidic media. V. Reductions of alkyl-substituted cyclohexanones by di- and tri-tert-butylsilanes. Steric hindrance to nucleophilic attack at silicon in the trifluoroacetylolysis of silyl alkyl ethers. *Journal of Organic Chemistry*, **1975**, 40, 3829-3834 4.2 17
- 155 Diverse Pathways in Catalytic Reactions of Propargyl Aryldiazoacetates: Selectivity between Three Reaction Sites. *Journal of Organic Chemistry*, **2017**, 82, 1584-1590 4.2 16
- 154 Dirhodium caprolactamate and tert-butyl hydroperoxide as universal system for selective oxidations. *Mendeleev Communications*, **2014**, 24, 187-196 1.9 16
- 153 Highly Enantioselective Catalytic Synthesis of Functionalized Chiral Diazoacetates. *Angewandte Chemie*, **2011**, 123, 6516-6519 3.6 16
- 152 Rhodium(II) acetate catalyzed hydrocarbon oxidations by molecular oxygen. *Journal of Molecular Catalysis*, **1984**, 26, 259-266 16
- 151 Catalytic role of copper triflate in Lewis acid promoted reactions of diazo compounds. *Journal of Organic Chemistry*, **1984**, 49, 1196-1199 4.2 16
- 150 Formation and reactions of dithiodicarbenium salts. *Journal of the American Chemical Society*, **1981**, 103, 7096-7101 16.4 16
- 149 Cyclic ether formation in oxidations of primary alcohols by cerium(IV). Reactions of 5-phenyl-1-pentanol, 4-phenyl-1-butanol, and 3-phenyl-1-propanol with ceric ammonium nitrate. *Journal of Organic Chemistry*, **1975**, 40, 1454-1456 4.2 16
- 148 Free-radical rearrangements in the thermal decomposition of tert-butylperoxy 3-(1-phenylcyclopropyl)propanoate, 4-(1-phenylcyclopropyl)butanoate, and 5-(1-phenylcyclopropyl)pentanoate. *Journal of the American Chemical Society*, **1973**, 95, 5988-6000 16.4 16
- 147 Catalytic Asymmetric [3+1]-Cycloaddition Reaction of Ylides with Electrophilic Metallo-enolcarbene Intermediates. *Angewandte Chemie*, **2017**, 129, 7587-7591 3.6 15
- 146 Rhodium(ii)-catalysed generation of cycloprop-1-en-1-yl ketones and their rearrangement to 5-aryl-2-siloxyfurans. *Chemical Communications*, **2018**, 54, 9513-9516 5.8 15

145	Enantiomer recognition of amides by dirhodium(II) tetrakis[methyl 2-oxopyrrolidine-5(S)-carboxylate]. <i>Inorganic Chemistry</i> , 2011 , 50, 7610-7	5.1	15
144	Stereoselectivity in Metal Carbene Addition to a Carbon-Carbon Triple Bond Tied to the Reactant Diazoacetate Through a Chiral Linker. <i>Advanced Synthesis and Catalysis</i> , 2006 , 348, 2403-2409	5.6	15
143	Enantioselective intramolecular cyclopropanation of N-allylic- and N-homoallylic diazoacetamides catalyzed by chiral dirhodium(II) catalysts. <i>Tetrahedron</i> , 1994 , 50, 4519-4528	2.4	15
142	Asymmetric syntheses with catalytic enantioselective metal carbene transformations. <i>Russian Chemical Bulletin</i> , 1994 , 43, 1770-1782	1.7	15
141	Silane reductions in acidic media. 9. The effect of Lewis acids on stereoselectivities in ketone reductions. The principle of complexation-induced conformational perturbation. Energy minimization in the transition states for hydride transfer. <i>Journal of Organic Chemistry</i> , 1977 , 42, 1922-1928	4.2	15
140	Reactions of the nitrosonium ion. IV. Nitrosative cleavage of the carbon-nitrogen double bond. Reaction of N-arylimines and ketimines with nitrosonium salts. <i>Journal of Organic Chemistry</i> , 1972 , 37, 1597-1601	4.2	15
139	Catalytic Asymmetric Synthesis of Cyclopentyl β Amino Esters by [3+2] Cycloaddition of Enecarbamates with Electrophilic Metalloenolcarbene Intermediates. <i>Angewandte Chemie</i> , 2016 , 128, 10262-10266	3.6	15
138	Brønsted Acid Catalyzed Friedel-Crafts-Type Coupling and Dedinitrogenation Reactions of Vinyl diazo Compounds. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 13613-13617	16.4	14
137	Catalytic Divergent [3+3]- and [3+2]-Cycloaddition by Discrimination Between Diazo Compounds. <i>Angewandte Chemie</i> , 2017 , 129, 12460-12464	3.6	14
136	Recent Developments in the Synthetic Uses of Silyl-protected Enoldiazoacetates for Heterocyclic Syntheses. <i>Australian Journal of Chemistry</i> , 2014 , 67, 365	1.2	14
135	Cobalt-Mediated Carbene Transfer Reactions 2013 , 491-525		14
134	Chiral Dirhodium(II) Carboxamidates for Asymmetric Cyclopropanation and Carbon-Hydrogen Insertion Reactions 2005 , 341-355		14
133	Regioselectivity in nickel(II)-mediated oxidations of diols. <i>Journal of Organic Chemistry</i> , 1983 , 48, 476-480	4.2	14
132	Reactions of the nitrosonium ion. 11. Fluoride transfer from complex fluoride anions to carbenium ions in the nitrosative decomposition of aliphatic azides. <i>Journal of Organic Chemistry</i> , 1979 , 44, 2923-2929	4.3	14
131	Reactions of the nitrosonium ion. II. Reactions of triphenylmethyl, benzhydryl, and benzyl azides with nitrosonium compounds. <i>Journal of the American Chemical Society</i> , 1972 , 94, 3896-3901	16.4	14
130	Dirhodium(II)-Catalyzed Annulation of Enoldiazoacetamides with β Diazoketones: An Efficient and Highly Selective Approach to Fused and Bridged Ring Systems. <i>Angewandte Chemie</i> , 2016 , 128, 5663-5666	3.6	13
129	Copper-Catalyzed Formal [4+2] Cycloaddition of Enoldiazoimides with Sulfur Ylides. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 10343-10346	16.4	13
128	Substrate versus Catalyst Control of Stereoselectivity in the Cyclopropanation of a Carbon-Carbon Double Bond Linked to the Reactant Diazoacetate through a Chiral Linker. <i>Advanced Synthesis and Catalysis</i> , 2006 , 348, 449-455	5.6	13

127	Catalysis of olefin isomerization by tight ion pairs. <i>Journal of Organic Chemistry</i> , 1987 , 52, 323-324	4.2	13
126	Procatalysts for carbenoid transformations. <i>Journal of the Chemical Society Chemical Communications</i> , 1985 , 328-329		13
125	Highly Regio-, Diastereo-, and Enantioselective Rhodium-Catalyzed Intramolecular Cyclopropanation of (Z)-1,3-Dienyl Aryldiazoacetates. <i>Organic Letters</i> , 2017 , 19, 1306-1309	6.2	12
124	Role of Donor-Acceptor Cyclopropenes in Metal Carbene Reactions. Conversion of E-Substituted Enoldiazoacetates to Z-Substituted Metallo-Enolcarbenes. <i>Organometallics</i> , 2019 , 38, 4043-4050	3.8	12
123	Rhodium acetate-catalyzed aerobic Mukaiyama epoxidation of alkenes. <i>Tetrahedron</i> , 2013 , 69, 10009-10013	1.3	12
122	A survey of enoldiazo nucleophilicity in selective C-C bond forming reactions for the synthesis of natural product-like frameworks. <i>Organic and Biomolecular Chemistry</i> , 2014 , 12, 5227-34	3.9	12
121	Michael addition/pericyclization/rearrangement--a multicomponent strategy for the synthesis of substituted resorcinols. <i>Organic and Biomolecular Chemistry</i> , 2012 , 10, 6388-94	3.9	12
120	Comparative enantiocontrol with allyl phenyldiazoacetates in asymmetric catalytic intramolecular cyclopropanation. <i>Chirality</i> , 2003 , 15, 369-73	2.1	12
119	Replacing mineral acids in the laboratory: Nafion-catalyzed dehydration and esterification. <i>Journal of Chemical Education</i> , 1993 , 70, 493	2.4	12
118	A spectrometric study of the oxidation of alcohols by cerium(IV). <i>Journal of Chemical Education</i> , 1974 , 51, 131	2.4	12
117	The disproportionation of trityl benzyl ethers. Kinetic analysis of the trityl salt catalyzed reaction. Evidence for the involvement of ion pairs in the hydrogen transfer step. <i>Journal of the American Chemical Society</i> , 1976 , 98, 163-166	16.4	12
116	Reactions of the nitrosonium ion. V. Nitrosative cleavage of the carbon-nitrogen double bond. Attempted exchange of oxygen for nitrogen. <i>Journal of Organic Chemistry</i> , 1973 , 38, 1663-1667	4.2	12
115	The chemistry of vicinal tricarbonyls: an expedient route to fully-substituted 3-aminopyrroles. <i>Tetrahedron Letters</i> , 2015 , 56, 3042-3045	2	11
114	Catalytic Oxidative Cleavage Reactions of Arylalkenes by <i>t</i> -Butyl Hydroperoxide - A Mechanistic Assessment. <i>Journal of Organic Chemistry</i> , 2020 , 85, 3728-3741	4.2	11
113	Diphenylglycoluril as a novel ligand architecture for dirhodium(II) carboxamidates. <i>Inorganica Chimica Acta</i> , 2008 , 361, 3309-3314	2.7	11
112	Degradation of uric acid during autocatalytic oxidation of oxyhemoglobin induced by sodium nitrite. <i>Free Radical Biology and Medicine</i> , 1991 , 11, 373-7	7.8	11
111	Electron transfer between hemoglobin and arenediazonium salts. Mechanism of heme aryl-iron complex formation. <i>Inorganic Chemistry</i> , 1987 , 26, 3387-3392	5.1	11
110	Homologation of acetals of α,β -unsaturated carbonyl compounds with diazoesters. Synthesis of acetals of β,γ -unsaturated carbonyl compounds. <i>Journal of Organic Chemistry</i> , 1983 , 48, 5146-5148	4.2	11

109	Nucleophilic character of an electrophilic carbene. Synthesis of cyclopropanes by thermal decomposition of 3-chloro-3-phenyldiazirine. <i>Tetrahedron Letters</i> , 1984 , 25, 901-904	2	11
108	Attempted synthesis of casbene by intramolecular cyclopropanation. <i>Arkivoc</i> , 2002 , 2002, 180-185	0.9	11
107	Highly Enantioselective Carbonyl-ene Reactions of 2,3-Diketoesters: Efficient and Atom-Economical Process to Functionalized Chiral β -Hydroxy- β -Ketoesters. <i>Angewandte Chemie</i> , 2014 , 126, 6586-6590	3.6	10
106	Barriers to enantiocontrol in Lewis acid catalyzed hetero-Diels-Alder reactions. <i>Chemical Communications</i> , 2009 , 5612-4	5.8	10
105	Synthesis of bis(sigma-aryl)dirhodium(III) caprolactamates by oxidative arylation with arylboronic acids. <i>Chemical Communications</i> , 2008 , 2671-3	5.8	10
104	Identification and characterization of isomeric intermediates in a catalyst formation reaction by means of speciation analysis using HPLC-ICPMS and HPLC-ESI-MS. <i>Analytical Chemistry</i> , 2006 , 78, 1282-9	7.8	10
103	Synthesis of dirhodium(II) tetrakis[methyl 1-(3-phenylpropanoyl)-2-oxaimidazolidine-4(S)-carboxylate], Rh ₂ (4S-MPPIM) ₄ . <i>Tetrahedron: Asymmetry</i> , 2003 , 14, 3601-3604		10
102	Makrocyclische Cyclopropene durch hoehenantioselektive intramolekulare Additionen von Metallcarbenen an Alkine. <i>Angewandte Chemie</i> , 1999 , 111, 722-724	3.6	10
101	Steric selectivity in oxidations of diols. <i>Tetrahedron Letters</i> , 1980 , 21, 2794-2798	2	10
100	Medium effects. I. Solvolysis of 5-hexenyl p-nitrobenzenesulfonate in acetic acid-nonhydroxylic solvent (20:80) mixtures. <i>Journal of the American Chemical Society</i> , 1967 , 89, 4867-4872	16.4	10
99	Chiral donor-acceptor azetines as powerful reactants for synthesis of amino acid derivatives. <i>Nature Communications</i> , 2019 , 10, 5328	17.4	10
98	Copper(I)-catalyzed highly enantioselective [3 + 3]-cycloaddition of alkyl enoldiazoacetates with nitrones. <i>Organic Chemistry Frontiers</i> , 2020 , 7, 1653-1657	5.2	9
97	Steric balance within chiral dirhodium(II) carboxamidate catalysts enhances stereoselectivity. <i>Journal of Molecular Catalysis A</i> , 2003 , 196, 93-100		9
96	Selective Oxidations of Alcohols by Bromine in Combination with Nickel(II) Benzoate. <i>Synthetic Communications</i> , 1980 , 10, 881-888	1.7	9
95	Alkyl nitrite-metal halide deamination reactions. 5. In situ generation of nitrosyl halides. Effective product control from nitrosyl chloride diazotization of primary aliphatic amines in N,N-dimethylformamide. <i>Journal of Organic Chemistry</i> , 1978 , 43, 4120-4125	4.2	9
94	Generation of Diazomethyl Radicals by Hydrogen Atom Abstraction and Their Cycloaddition with Alkenes. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 18484-18488	16.4	9
93	Catalyst-Free Rearrangement of Allenyl Aryldiazoacetates into 1,5-Dihydro-4H-pyrazol-4-ones. <i>Journal of Organic Chemistry</i> , 2016 , 81, 9235-9246	4.2	9
92	Catalyst-Free Formation of Nitrile Oxides and Their Further Transformations to Diverse Heterocycles. <i>Organic Letters</i> , 2021 , 23, 925-929	6.2	9

91	Hetero-bis(sigma-aryl)dirhodium(III) caprolactamates. Electronic communication between aryl groups through dirhodium(III). <i>Dalton Transactions</i> , 2009 , 2871-7	4.3	8
90	Dirhodium(II) Tetraacetate Catalysed Hydroboration of Alkenes. <i>Mendeleev Communications</i> , 1993 , 3, 81-82	1.9	8
89	Formation of a dipolar adduct in the reaction of arylchlorocarbenes with diethyl maleate. <i>Tetrahedron Letters</i> , 1986 , 27, 4395-4398	2	8
88	Electron transfer in the heme pocket of hemoglobin. <i>Journal of the American Chemical Society</i> , 1985 , 107, 6136-6137	16.4	8
87	Reactions of the nitrosonium ion. VII. Syntheses of dihydroisoquinolines and oxazoles from azides in nitrile solvents. <i>Journal of Heterocyclic Chemistry</i> , 1975 , 12, 263-265	1.9	8
86	Reactions of the nitrosonium ion. I. Reaction of alkyl azides with nitrosonium salts. A new method for the production of carbonium ions. <i>Journal of the American Chemical Society</i> , 1970 , 92, 4999-5001	16.4	8
85	Rhodium Carbenes		363-403 8
84	High Stereocontrol in the Preparation of Silyl-Protected β -Substituted Enoldiazoacetates. <i>Synlett</i> , 2019 , 30, 1457-1461	2.2	7
83	Asymmetric [3+3] Cycloaddition for Heterocycle Synthesis. <i>Synlett</i> , 2017 , 28, 1695-1706	2.2	7
82	Catalytic, Asymmetric, Intramolecular Carbon-Hydrogen Insertion		2012, 1-132 7
81	Stereoselective Synthesis of Bicyclic Pyrrolidines by a Rhodium-Catalyzed Cascade Process. <i>Angewandte Chemie</i> , 2004 , 116, 6881-6884	3.6	7
80	Chemical and electrochemical oxidation of O,O,O-trisubstituted phosphorothioates and triphenylphosphine sulfide. <i>Journal of Organic Chemistry</i> , 1983 , 48, 1176-1179	4.2	7
79	Radical Cascade Multicomponent Minisci Reactions with Diazo Compounds. <i>ACS Catalysis</i> , 2022 , 12, 13571-13637	13.6	7
78	Catalyst-Directed Divergent Catalytic Approaches to Expand Structural and Functional Scaffold Diversity via Metallo-Enolcarbene Intermediates. <i>ACS Catalysis</i> , 2021 , 11, 4712-4721	13.1	7
77	Synthesis of Chiral Tetrasubstituted Azetidines from Donor-Acceptor Azetidines via Asymmetric Copper(I)-Catalyzed Imido-Ylide [3+1]-Cycloaddition with Metallo-Enolcarbenes. <i>Angewandte Chemie</i> , 2019 , 131, 16334-16338	3.6	6
76	Synthesis of 1 H-Pyrrol-3(2 H)-ones via Three-Component Reactions of 2,3-Diketo Esters, Amines, and Ketones. <i>Journal of Organic Chemistry</i> , 2018 , 83, 11288-11297	4.2	6
75	Highly selective acylation of polyamines and aminoglycosides by 5-acyl-5-phenyl-1,5-dihydro-4-pyrazol-4-ones. <i>Chemical Science</i> , 2017 , 8, 7152-7159	9.4	6
74	Silver-Catalyzed Carbene Functionalization of Methane in Supercritical Carbon Dioxide. <i>ChemCatChem</i> , 2011 , 3, 1681-1682	5.2	6

73	Does an Axial Propeller Shape on a Dirhodium(III,III) Core Affect Equatorial Ligand Chirality?. <i>Organometallics</i> , 2011 , 30, 3619-3627	3.8	6
72	Influence of the Diene in the Hetero-Diels-Alder Reaction Catalyzed by Dirhodium(II) Carboxamidates. <i>Synlett</i> , 2004 , 2004, 2425-2428	2.2	6
71	The nature of fluoride transfer from complex fluoride anions to carbenium ions. <i>Tetrahedron Letters</i> , 1975 , 16, 4201-4204	2	6
70	Oxidative deamination of primary amines: selective synthesis of geminal dihalides. <i>Journal of the Chemical Society Chemical Communications</i> , 1976 , 433		6
69	Reversible oxidation of 1,3-dithiolan-2-thione. <i>Journal of the Chemical Society Chemical Communications</i> , 1977 , 643		6
68	Nucleophilic reactivity of the carbon-carbon double bond. VI. The use of urea as a base in acetolysis reactions. <i>Journal of Organic Chemistry</i> , 1967 , 32, 150-153	4.2	6
67	Synthesis, Structure and Reactivity of a Novel Series of Diastereomeric Dirhodium(II) Tetracarboxamidates. Catalysts for Asymmetric Diazoacetate Transformations. <i>Australian Journal of Chemistry</i> , 1998 , 51, 1	1.2	6
66	Chiral 3-Acylglutaric Acid Derivatives from Strain-Induced Nucleophilic Retro-Claisen Ring-Opening Reactions. <i>Journal of Organic Chemistry</i> , 2020 , 85, 9475-9490	4.2	6
65	Ag-Catalyzed Reaction of Enol Diazoacetates and Imino Ethers: Synthesis of Highly Functionalized Pyrroles. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 13394-13400	16.4	6
64	Intramolecular cycloaddition/rearrangement cascade from gold(iii)-catalysed reactions of propargyl aryldiazoesters with cinnamyl imines. <i>Chemical Communications</i> , 2018 , 54, 12828-12831	5.8	6
63	Intermolecular [5 + 1]-Cycloaddition between Vinyl Diazo Compounds and <i>n</i> -Butyl Nitrite to 1,2,3-Triazine 1-Oxides and Their Further Transformation to Isoxazoles. <i>Organic Letters</i> , 2021 , 23, 6542-6546	6.2	6
62	Stereoselectivity in metal carbene and Lewis acid-catalyzed reactions from diastereomeric dirhodium(II) carboxamidates: Menthyl N-acetyl-2-oxoimidazolidine-4(S)-carboxylates. <i>Journal of Organometallic Chemistry</i> , 2005 , 690, 5525-5532	2.3	5
61	Bridged Acid Catalyzed Oxocarbenium-Olefin Metathesis/Rearrangements of 1-Isochromene Acetals with Vinyl Diazo Compounds. <i>Journal of the American Chemical Society</i> , 2021 , 143, 15391-15399	16.4	5
60	Ruthenium Carbenes	404-451	5
59	Dinuclear compounds without a metal-metal bond. Dirhodium(III,III) carboxamidates. <i>Inorganica Chimica Acta</i> , 2015 , 424, 235-240	2.7	4
58	Copper-Catalyzed Formal [4+2] Cycloaddition of Enoldiazoimides with Sulfur Ylides. <i>Angewandte Chemie</i> , 2018 , 130, 10500-10503	3.6	4
57	Catalytic Desymmetric Cycloaddition of Diaziridines with Metalloenolcarbenes: The Role of Donor-Acceptor Cyclopropenes. <i>Angewandte Chemie</i> , 2019 , 131, 12632-12636	3.6	4
56	Conformational isomers of extraordinary stability: carboxamidate-bridged dimetalloorganic compounds. <i>Chemical Communications</i> , 2009 , 3005-7	5.8	4

55	Synthetic Carbene and Nitrene Chemistry 2005 , 561-592		4
54	Academic Excellence - The Role of Research. 2002 George C. Pimentel Award. <i>Journal of Chemical Education</i> , 2002 , 79, 1038	2.4	4
53	Formal [4 + 4]-, [4 + 3]-, and [4 + 2]-cycloaddition reactions of donor-acceptor cyclobutenes, cyclopropenes and siloxyalkynes induced by Brønsted acid catalysis. <i>Chemical Science</i> , 2021 , 12, 4819-4824	2.4	4
52	Diverse Reactions of Vinyl Diazo Compounds with Quinone Oxonium Ions, Quinone Imine Ketals, and Eschenmoser Salt. <i>ACS Catalysis</i> , 2021 , 11, 9869-9874	13.1	4
51	Influences of Catalyst Configuration and Catalyst Loading on Selectivities in Reactions of Diazoacetamides. Barrier to Equilibrium Between Diastereomeric Conformations. <i>Organic Letters</i> , 2003 , 5, 2371-2371	6.2	3
50	Lewis acid promoted reactions of n-(1-phenylcyclopropyl)alkanoyl chlorides. Ring-size effects in competitive intramolecular acylation of phenyl and cyclopropyl substituents. <i>Journal of Organic Chemistry</i> , 1978 , 43, 4459-4461	4.2	3
49	Cycloheptanone via a Lewis acid-catalyzed cyclization of 6-heptenoyl chloride to .beta.-chlorocycloheptanone. <i>Journal of Organic Chemistry</i> , 1969 , 34, 3679-3681	4.2	3
48	Nitrosative cleavage of benzalazine and related aldehyde azines. Production, decomposition and trapping of iminodiazonium ions. <i>Tetrahedron Letters</i> , 1974 , 15, 1455-1458	2	3
47	Brønsted Acid Catalyzed Friedel-Crafts-Type Coupling and Dedinitrogenation Reactions of Vinyl diazo Compounds. <i>Angewandte Chemie</i> , 2020 , 132, 13715-13719	3.6	2
46	Catalytic Allylic Oxidation of Cyclic Enamides and 3,4-Dihydro-2H-Pyrans by TBHP. <i>Journal of Organic Chemistry</i> , 2017 , 82, 8506-8513	4.2	2
45	Enantiocontrol in Macrocyclic Formation from Catalytic Metal Carbene Transformations. <i>Chinese Journal of Chemistry</i> , 2010 , 19, 22-29	4.9	2
44	KR OnDisc Encyclopedia of Physical Science and Technology, 2E CD-ROM Academic Press, Inc.: 525 B Street, Suite 1900, San Diego, California 92101-4495. Tel: 619-699-6410. \$2995.00. ISBN 0-12-000200-0. 1995.. <i>Journal of the American Chemical Society</i> , 1997 , 119, 2964-2964	16.4	2
43	A Facile Route to Some Useful Homochiral Alkyl Imidazolidin-2-one-4(S)-carboxylates. <i>Synthetic Communications</i> , 1996 , 26, 2165-2175	1.7	2
42	Chiral Rhodium(II) Carboxamides. <i>ACS Symposium Series</i> , 1993 , 40-57	0.4	2
41	Oxidation of hemoglobin by arenediazonium salts. The influence of dioxygen. <i>Inorganica Chimica Acta</i> , 1984 , 92, 123-129	2.7	2
40	Reactions of the nitrosonium ion. VIII. Reactions of nitrosonium tetrafluoroborate and benzhydryl tetrafluoroborate with benzhydryl azides. Mechanism of aldehyde and ketone formation. <i>Journal of the American Chemical Society</i> , 1975 , 97, 5554-5558	16.4	2
39	Reactions of the nitrosonium ion. III. Reaction of alkyl azides with nitrosonium compounds. Effect of solvent, quenching agent, and nitrosonium compound. <i>Journal of the American Chemical Society</i> , 1972 , 94, 3901-3906	16.4	2
38	Thermal decomposition of tert-butylperoxy 6-bromohexanoate. Lack of evidence for radical displacement on carbon and 1,5-bridged bromine radicals. <i>Journal of Organic Chemistry</i> , 1967 , 32, 146-150	4.2	2

37	Enantioselective Catalytic Cyclopropanation-Rearrangement Approach to Chiral Spiroketal. <i>Organic Letters</i> , 2021 , 23, 3955-3959	6.2	2
36	Copper(I)-Catalyzed Highly Enantioselective [3+3]-Cycloaddition of β -Aryl/Alkyl Vinyl Diazoacetates with Nitrones. <i>Helvetica Chimica Acta</i> , 2021 , 104, e2100081	2	2
35	Metal Carbene Cycloaddition Reactions 2022 , 139-168		2
34	tert-Butyl Hydroperoxide 2012 ,		1
33	Making Ends Meet: Catalytic Cycloaddition. <i>Advanced Synthesis and Catalysis</i> , 2006 , 348, 2269-2269	5.6	1
32	Chiral Dirhodium(II) Carboxamidates for Catalytic Asymmetric Synthesis. <i>ACS Symposium Series</i> , 2004 , 1-13	0.4	1
31	HIGHLY EFFICIENT OLEFIN ISOMERIZATION CATALYZED BY METAL HYDRIDES DERIVES FROM DIRHODIUM(II) CARBOXYLATES AND CATECHOLBORANE. <i>Main Group Metal Chemistry</i> , 1994 , 17,	1.6	1
30	Internal Lewis acid catalyzed ring-expansion reactions of cyclopropylalkanoyl chlorides. <i>Tetrahedron Letters</i> , 1975 , 16, 3031-3034	2	1
29	(1R,5S)- β -6,6-Dimethyl-3-Oxabicyclo[3.1.0]Hexan-2-One. Highly Enantioselective Intramolecular Cyclopropanation Catalyzed by Dirhodium(II) Tetrakis[Methyl 2-Pyrrolidone-5(R)-Carboxylate]13-13		1
28	Challenges in the Highly Selective [3 + 1]-Cycloaddition of an Enoldiazoacetamide to Form a Donor-Acceptor -Cyclobutenecarboxamide. <i>Molecules</i> , 2021 , 26,	4.8	1
27	Strain-Induced Nucleophilic Ring Opening of Donor-Acceptor Cyclopropenes for Synthesis of Monosubstituted Succinic Acid Derivatives. <i>Chemistry - A European Journal</i> , 2021 , 27, 340-347	4.8	1
26	Precise Introduction of the -CHX (X = F, Cl, Br, I) Moiety to Target Molecules by a Radical Strategy: A Theoretical and Experimental Study. <i>Journal of the American Chemical Society</i> , 2021 , 143, 13195-13204	16.4	1
25	Engineering Enzymes for New-to-Nature Carbene Chemistry 2022 , 95-138		1
24	Transition-Metal-Catalyzed Cross-Coupling with Carbene Precursors 2022 , 371-399		1
23	Catalytic Enantioselective Carbene Insertions into Heteroatom-Hydrogen Bonds 2022 , 67-94		1
22	Catalytic Radical Approach for Selective Carbene Transfers via Cobalt(II)-Based Metalloradical Catalysis 2022 , 25-66		1
21	The Future of Catalysis by Chiral Lewis Acids. <i>Topics in Organometallic Chemistry</i> , 2015 , 1-25	0.6	0
20	Lewis Acid Catalyzed Diastereoselective 1,3-Dipolar Cycloaddition between Diazoacetoacetate Enones and Azomethine Ylides. <i>Heterocycles</i> , 2014 , 88, 1039	0.8	0

19	Degradation of azo dye with dirhodium(II) caprolactamate as heterogeneous catalyst. <i>Water Science and Technology</i> , 2012 , 65, 2175-82	2.2	o
18	Agl-Catalyzed Reaction of Enol Diazoacetates and Imino Ethers: Synthesis of Highly Functionalized Pyrroles. <i>Angewandte Chemie</i> , 2021 , 133, 13506-13512	3.6	o
17	Generation of Diazomethyl Radicals by Hydrogen Atom Abstraction and Their Cycloaddition with Alkenes. <i>Angewandte Chemie</i> , 2021 , 133, 18632-18636	3.6	o
16	Transition-Metal-Catalyzed Carbene Transformations for Polymer Syntheses 2022 , 243-267		o
15	Metal-Catalyzed Quinoid Carbene (QC) Transfer Reactions 2022 , 269-297		o
14	Asymmetric Rearrangement and Insertion Reactions with MetalCarbenoids Promoted by Chiral N,N ? -Dioxide or Guanidine-Based Catalysts 2022 , 299-324		o
13	Dirhodium(II) Tetraacetate 2017 , 1-16		
12	Dirhodium(II) Tetraacetamidate 2017 , 1-6		
11	In Search of High Stereocontrol for the Construction of cis-Disubstituted Cyclopropane Compounds. Total Synthesis of a Cyclopropane-Configured Urea-PETT Analogue that Is a HIV-1 Reverse Transcriptase Inhibitor.. <i>ChemInform</i> , 2010 , 33, 73-73		
10	ChemPrep Institute for Scientific Information: 3501 Market Street, Philadelphia, PA 19104. Telephone: 1-800-336-4474. Fax: 215-386-6362. http://www.isinet.com . List Price for 1985-1997 databases: \$11 750 (1 user) and \$21 500 (2B users). 1998 subscription price \$2450 (1 user) and \$4950 (2B users). <i>Journal of Chemical Information and Science</i> , 1998 , 130, 5253-5253	16.4	
9	Acetolysis of 4-bromobutyl-1,1-d2 p-nitrobenzenesulfonate. Evidence for 1,4-bromine participation and the existence of a 5-membered cyclic bromonium ion during acetolysis.. <i>Tetrahedron Letters</i> , 1968 , 9, 3127-3130	2	
8	Discussion Addendum For: Allylic Oxidation Catalyzed by Dirhodium(II) Tetrakis[εCaprolactamate] of tert -Butyldimethylsilyl-Protected trans -Dehydroandrosterone1-12		
7	Allylic Oxidation Catalyzed by Dirhodium(II) Tetrakis[εCaprolactamate] of tert-Butyldimethylsilyl-protected trans-Dehydroandrosterone 2014 , 9-18		
6	Unusually large scalar coupling between geminal protons in a saturated pyrimidine. <i>Concepts in Magnetic Resonance Part A: Bridging Education and Research</i> , 2016 , 45A, e21424	0.6	
5	Innentitelbild: Dirhodium(II)-Catalyzed Annulation of Enoldiazoacetamides with δDiazoketones: An Efficient and Highly Selective Approach to Fused and Bridged Ring Systems (Angew. Chem. 18/2016). <i>Angewandte Chemie</i> , 2016 , 128, 5436-5436	3.6	
4	Metal-Catalyzed Decarbenations by Retro-Cyclopropanation 2022 , 169-198		
3	Multi-Component Reaction via gem -Difunctionalization of Metal Carbene 2022 , 325-369		
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