Huw M L Davies

List of Publications by Citations

321 papers	23,792 citations	84 h-index	140 g-index
438 ext. papers	26,413 ext. citations	9.8 avg, IF	7.64 L-index

#	Paper	IF	Citations
321	Catalytic C-H functionalization by metal carbenoid and nitrenoid insertion. *Nature*, **2008**, 451, 417-24	50.4	1831
320	Catalytic enantioselective C-H activation by means of metal-carbenoid-induced C-H insertion. *Chemical Reviews*, **2003**, 103, 2861-904	68.1	1352
319	Guiding principles for site selective and stereoselective intermolecular C-H functionalization by donor/acceptor rhodium carbenes. *Chemical Society Reviews*, **2011**, 40, 1857-69	58.5	766
318	Reactions of metallocarbenes derived from N-sulfonyl-1,2,3-triazoles. *Chemical Society Reviews*, **2014**, 43, 5151-62	58.5	437
317	Asymmetric Cyclopropanations by Rhodium(II) N-(Arylsulfonyl)prolinate Catalyzed Decomposition of Vinyldiazomethanes in the Presence of Alkenes. Practical Enantioselective Synthesis of the Four Stereoisomers of 2-Phenylcyclopropan-1-amino Acid. *Journal of the American Chemical Society*, **1994**, 116, 6967-6968	16.4	402
316	Application of donor/acceptor-carbenoids to the synthesis of natural products. *Chemical Society Reviews*, **2009**, 38, 3061-71	58.5	372
315	Catalytic asymmetric synthesis of pyrroloindolines via a rhodium(II)-catalyzed annulation of indoles. *Journal of the American Chemical Society*, **2013**, 135, 6802-5	16.4	319
314	Catalytic Asymmetric C□H Activation of Alkanes and Tetrahydrofuran. *Journal of the American Chemical Society*, **2000**, 122, 3063-3070	16.4	296
313	The combined C-H functionalization/Cope rearrangement: discovery and applications in organic synthesis. *Accounts of Chemical Research*, **2012**, 45, 923-35	24.3	240
312	Rhodium-catalyzed [3 + 2] annulation of indoles. *Journal of the American Chemical Society*, **2010**, 132, 440-1	16.4	240
311	Recent advances in catalytic intramolecular C-H aminations. *Angewandte Chemie - International Edition*, **2005**, 44, 3518-20	16.4	240
310	Intermolecular reactions of electron-rich heterocycles with copper and rhodium carbenoids. *Chemical Society Reviews*, **2007**, 36, 1109-19	58.5	228
309	Site-selective and stereoselective functionalization of unactivated C-H bonds. *Nature*, **2016**, 533, 230-4	50.4	220
308	Recent advances in catalytic enantioselective intermolecular C-H functionalization. *Angewandte Chemie - International Edition*, **2006**, 45, 6422-5	16.4	207
307	Dirhodium tetracarboxylates derived from adamantylglycine as chiral catalysts for enantioselective C-h aminations. *Organic Letters*, **2006**, 8, 5013-6	6.2	200
306	Rhodium-catalyzed conversion of furans to highly functionalized pyrroles. *Journal of the American Chemical Society*, **2013**, 135, 4716-8	16.4	199
305	High Symmetry Dirhodium(II) Paddlewheel Complexes as Chiral Catalysts. *Coordination Chemistry Reviews*, **2008**, 252, 545-555	23.2	189

304	Metabonomic and microbiological analysis of the dynamic effect of vancomycin-induced gut microbiota modification in the mouse. *Journal of Proteome Research*, **2008**, 7, 3718-28	5.6	185
303	Gold(I)-catalyzed asymmetric cyclopropenation of internal alkynes. *Journal of the American Chemical Society*, **2012**, 134, 11916-9	16.4	180
302	Site-selective and stereoselective functionalization of non-activated tertiary C-H bonds. *Nature*, **2017**, 551, 609-613	50.4	173
301	Asymmetric Intermolecular Carbenoid CH Insertions Catalyzed by Rhodium(II) (S)-N-(p-Dodecylphenyl)sulfonylprolinate. *Journal of the American Chemical Society*, **1997**, 119, 9075-9076	16.4	172
300	Combined C-H activation/cope rearrangement as a strategic reaction in organic synthesis: total synthesis of (-)-colombiasin a and (-)-elisapterosin B. *Journal of the American Chemical Society*, **2006**, 128, 2485-90	16.4	170
299	Tandem cyclopropanation/cope rearrangement: a general method for the construction of seven-membered rings. *Tetrahedron*, **1993**, 49, 5203-5223	2.4	169
298	One-pot synthesis of highly functionalized pyridines via a rhodium carbenoid induced ring expansion of isoxazoles. *Journal of the American Chemical Society*, **2008**, 130, 8602-3	16.4	166
297	Diazotransfer Reactions with p-Acetamidobenzenesulfonyl Azide. *Synthetic Communications*, **1987**, 17, 1709-1716	1.7	166
296	Asymmetric synthesis of tropanes by rhodium-catalyzed [4 + 3] cycloaddition. *Journal of the American Chemical Society*, **2007**, 129, 10312-3	16.4	163
295	D2-symmetric dirhodium catalyst derived from a 1,2,2-triarylcyclopropanecarboxylate ligand: design, synthesis and application. *Journal of the American Chemical Society*, **2011**, 133, 19198-204	16.4	156
294	Computational study on the selectivity of donor/acceptor-substituted rhodium carbenoids. *Journal of Organic Chemistry*, **2009**, 74, 6555-63	4.2	154
293	Blue light-promoted photolysis of aryldiazoacetates. *Chemical Science*, **2018**, 9, 5112-5118	9.4	149
292	Dirhodium tetracarboxylate derived from adamantylglycine as a chiral catalyst for carbenoid reactions. *Organic Letters*, **2006**, 8, 3437-40	6.2	148
291	Conversion of cyclic ketones to 2,3-fused pyrroles and substituted indoles. *Journal of the American Chemical Society*, **2013**, 135, 11712-5	16.4	146
290	Direct spectroscopic characterization of a transitory dirhodium donor-acceptor carbene complex. *Science*, **2013**, 342, 351-4	33.3	146
289	Scope and mechanistic analysis of the enantioselective synthesis of allenes by rhodium-catalyzed tandem ylide formation/[2,3]-sigmatropic rearrangement between donor/acceptor carbenoids and propargylic alcohols. *Journal of the American Chemical Society*, **2012**, 134, 15497-504	16.4	143
288	Highly Regio-, Diastereo-, and Enantioselective CH Insertions of Methyl Aryldiazoacetates into Cyclic N-Boc-Protected Amines. Asymmetric Synthesis of Novel C2-Symmetric Amines and threo-Methylphenidate. *Journal of the American Chemical Society*, **1999**, 121, 6509-6510	16.4	142
287	Enhancement of cyclopropanation chemistry in the silver-catalyzed reactions of aryldiazoacetates. *Journal of the American Chemical Society*, **2007**, 129, 6090-1	16.4	137

286	Collective Approach to Advancing C-H Functionalization. *ACS Central Science*, **2017**, 3, 936-943	16.8	135
285	Asymmetric [4 + 3] cycloadditions between vinylcarbenoids and dienes: application to the total synthesis of the natural product (-)-5-epi-vibsanin E. *Journal of the American Chemical Society*, **2009**, 131, 8329-32	16.4	134
284	Isotope effects and the nature of selectivity in rhodium-catalyzed cyclopropanations. *Journal of the American Chemical Society*, **2003**, 125, 15902-11	16.4	131
283	Asymmetric Synthesis of Highly Functionalized 8-Oxabicyclo[3.2.1]octene Derivatives. *Journal of the American Chemical Society*, **1996**, 118, 10774-10782	16.4	129
282	Role of sterically demanding chiral dirhodium catalysts in site-selective C-H functionalization of activated primary C-H bonds. *Journal of the American Chemical Society*, **2014**, 136, 9792-6	16.4	128
281	Sequential C-H functionalization reactions for the enantioselective synthesis of highly functionalized 2,3-dihydrobenzofurans. *Journal of the American Chemical Society*, **2013**, 135, 6774-7	16.4	126
280	Synthesis of (.+-.)-ferruginine and (.+-.)-anhydroecgonine methyl-ester by a tandem cyclopropanation/Cope rearrangement. *Journal of Organic Chemistry*, **1991**, 56, 5696-5700	4.2	122
279	Tandem Asymmetric Cyclopropanation/Cope Rearrangement. A Highly Diastereoselective and Enantioselective Method for the Construction of 1,4-Cycloheptadienes. *Journal of the American Chemical Society*, **1998**, 120, 3326-3331	16.4	120
278	Catalytic asymmetric synthesis of diarylacetate and 4,4-diarylbutanoates. A formal asymmetric synthesis of (+)-sertraline. *Organic Letters*, **1999**, 1, 233-6	6.2	120
277	Novel aromatase inhibitors by structure-guided design. *Journal of Medicinal Chemistry*, **2012**, 55, 8464-76	8.3	116
276	Dirhodium Tetra(N-arylsulfonylprolinates) as Chiral Catalysts For Asymmetric Transformations of Vinyl- and Aryldiazoacetates. *European Journal of Organic Chemistry*, **1999**, 1999, 2459-2469	3.2	115
275	Mild aminoacylation of indoles and pyrroles through a three-component reaction with ynol ethers and sulfonyl azides. *Journal of the American Chemical Society*, **2014**, 136, 10266-9	16.4	112
274	Catalytic Enantioselective Synthesis of □-Amino Acids. *Angewandte Chemie - International Edition*, **2002**, 41, 2197	16.4	111
273	New strategic reactions for organic synthesis: catalytic asymmetric C-H activation alpha to nitrogen as a surrogate for the mannich reaction. *Journal of the American Chemical Society*, **2003**, 125, 6462-8	16.4	111
272	Dirhodium tetracarboxylates as catalysts for selective intermolecular C-H functionalization. *Nature Reviews Chemistry*, **2019**, 3, 347-360	34.6	110
271	.alpha.-Hydroxy esters as chiral auxiliaries in asymmetric cyclopropanations by rhodium(II)-stabilized vinylcarbenoids. *Journal of the American Chemical Society*, **1993**, 115, 9468-9479	16.4	109
270	Concise syntheses of dictyodendrins A and F by a sequential C-H functionalization strategy. *Journal of the American Chemical Society*, **2015**, 137, 644-7	16.4	107
269	Dirhodium(II) tetra(N-(dodecylbenzenesulfonyl)prolinate) catalyzed enantioselective cyclopropenation of alkynes. *Organic Letters*, **2004**, 6, 1233-6	6.2	106

268	Expanding the scope of donor/acceptor carbenes to N-phthalimido donor groups: diastereoselective synthesis of 1-cyclopropane □-amino acids. *Organic Letters*, **2012**, 14, 6020-3	6.2	105
267	Enantioselective synthesis of vinylcyclopropanes by rhodium(II) catalyzed decomposition of vinyldiazomethanes in the presence of alkenes. *Tetrahedron Letters*, **1993**, 34, 7243-7246	2	105
266	Enantioselective Gold(I)-catalyzed vinylogous [3 + 2] cycloaddition between vinyldiazoacetates and enol ethers. *Journal of the American Chemical Society*, **2013**, 135, 13314-7	16.4	104
265	Effect of Rhodium Carbenoid Structure on Cyclopropanation Chemoselectivity. *Tetrahedron*, **2000**, 56, 4871-4880	2.4	103
264	Enantioselective synthesis of trifluoromethyl-substituted cyclopropanes. *Organic Letters*, **2007**, 9, 2625-8	6.2	102
263	Rhodium-catalyzed tandem cyclopropanation/Cope rearrangement of 4-alkenyl-1-sulfonyl-1,2,3-triazoles with dienes. *Angewandte Chemie - International Edition*, **2013**, 52, 10044-7	16.4	101
262	Enantioselective Synthesis of Functionalized Tropanes by Rhodium(II) Carboxylate-Catalyzed Decomposition of Vinyldiazomethanes in the Presence of Pyrroles. *Journal of Organic Chemistry*, **1997**, 62, 1095-1105	4.2	99
261	Rhodium-catalyzed enantioselective cyclopropanation of electron deficient alkenes. *Chemical Science*, **2013**, 4, 2844-2850	9.4	98
260	Highly enantioselective Rh2(S-DOSP)4-catalyzed cyclopropenation of alkynes with styryldiazoacetates. *Journal of the American Chemical Society*, **2010**, 132, 17211-5	16.4	97
259	Catalyst-controlled formal [4 + 3] cycloaddition applied to the total synthesis of (+)-barekoxide and (-)-barekol. *Journal of the American Chemical Society*, **2010**, 132, 12422-5	16.4	97
258	Late-stage C-H functionalization of complex alkaloids and drug molecules via intermolecular rhodium-carbenoid insertion. *Nature Communications*, **2015**, 6, 5943	17.4	96
257	Enantioselective C-C bond formation by rhodium-catalyzed tandem ylide formation/[2,3]-sigmatropic rearrangement between donor/acceptor carbenoids and allylic alcohols. *Journal of the American Chemical Society*, **2010**, 132, 396-401	16.4	96
256	Catalytic asymmetric cyclopropanation of heteroaryldiazoacetates. *Journal of Organic Chemistry*, **2001**, 66, 6595-603	4.2	96
255	Stereoselective synthesis of seven-membered carbocycles by a tandem cyclopropanation/Cope rearrangement between rhodium(II)-stabilized vinylcarbenoids and dienes. *Journal of Organic Chemistry*, **1991**, 56, 3817-3824	4.2	92
254	Enantioselective reactions of donor/acceptor carbenoids derived from alpha-aryl-alpha-diazoketones. *Organic Letters*, **2009**, 11, 787-90	6.2	90
253	Rhodium(II) (S)-N-(arylsulfonyl)prolinate catalyzed asymmetric insertions of vinyl- and phenylcarbenoids into the Si?H bond. *Tetrahedron Letters*, **1997**, 38, 1741-1744	2	90
252	Intermolecular C-H Insertions of Donor/Acceptor-Substituted Rhodium Carbenoids: A Practical Solution for Catalytic Enantioselective C-H Activation. *Synthesis*, **2004**, 2004, 2595-2608	2.9	90
251	Asymmetric intramolecular C_H insertions of aryldiazoacetates. *Organic Letters*, **2001**, 3, 1475-7	6.2	90

250	Silver triflate-catalyzed cyclopropenation of internal alkynes with donor-/acceptor-substituted diazo compounds. *Organic Letters*, **2011**, 13, 3984-7	6.2	87
249	Rhodium(II)-catalyzed cross-coupling of diazo compounds. *Angewandte Chemie - International Edition*, **2011**, 50, 2544-8	16.4	87
248	Asymmetric Synthesis of 2,3-Dihydrofurans by Reaction of Rhodium-Stabilized Vinylcarbenoids with Vinyl Ethers. *Journal of Organic Chemistry*, **1998**, 63, 2641-2645	4.2	87
247	Design of catalysts for site-selective and enantioselective functionalization of non-activated primary C-H bonds. *Nature Chemistry*, **2018**, 10, 1048-1055	17.6	86
246	Vinylogous reactivity of silver(I) vinylcarbenoids. *Chemical Science*, **2011**, 2, 457-461	9.4	86
245	Synthesis of 2 beta-acyl-3 beta-aryl-8-azabicyclo[3.2.1]octanes and their binding affinities at dopamine and serotonin transport sites in rat striatum and frontal cortex. *Journal of Medicinal Chemistry*, **1994**, 37, 1262-8	8.3	86
244	Enantioselective synthesis of (-)-maoecrystal V by enantiodetermining C-H functionalization. *Journal of the American Chemical Society*, **2014**, 136, 17738-49	16.4	85
243	Rh2(S-biTISP)2-catalyzed asymmetric functionalization of indoles and pyrroles with vinylcarbenoids. *Organic Letters*, **2012**, 14, 1934-7	6.2	85
242	Rh2(R-TPCP)4-catalyzed enantioselective [3+2]-cycloaddition between nitrones and vinyldiazoacetates. *Journal of the American Chemical Society*, **2013**, 135, 14516-9	16.4	84
241	Universal strategy for the immobilization of chiral dirhodium catalysts. *Organic Letters*, **2005**, 7, 2941-4	6.2	84
240	Investigation into factors influencing stereoselectivity in the reactions of heterocycles with donor-acceptor-substituted rhodium carbenoids. *Journal of Organic Chemistry*, **2006**, 71, 5349-56	4.2	84
239	Simple strategy for the immobilization of dirhodium tetraprolinate catalysts using a pyridine-linked solid support. *Journal of the American Chemical Society*, **2004**, 126, 4271-80	16.4	84
238	Self-administration of cocaine analogs by rats. *Psychopharmacology*, **1999**, 144, 389-97	4.7	84
237	On the mechanism and selectivity of the combined C-H activation/Cope rearrangement. *Journal of the American Chemical Society*, **2011**, 133, 5076-85	16.4	81
236	Highly diastereoselective and enantioselective C-H functionalization of 1,2-dihydronaphthalenes: a combined C-H activation/Cope rearrangement followed by a retro-Cope rearrangement. *Journal of the American Chemical Society*, **2004**, 126, 10862-3	16.4	80
235	Catalytic asymmetric benzylic C-H activation by means of carbenoid-induced C-H insertions. *Journal of Organic Chemistry*, **2002**, 67, 4165-9	4.2	80
234	Asymmetric [4+3] cycloadditions between benzofuranyldiazoacetates and dienes: formal synthesis of (+)-frondosin B. *Organic Letters*, **2008**, 10, 573-6	6.2	79
233	Direct synthesis of (+)-erogorgiaene through a kinetic enantiodifferentiating step. *Angewandte Chemie - International Edition*, **2005**, 44, 1733-5	16.4	77

232	Carbenoid versus Vinylogous Reactivity in Rhodium(II)-Stabilized Vinylcarbenoids. *Journal of Organic Chemistry*, **1994**, 59, 4535-4541	4.2	77
231	Catalytic asymmetric C-H activation of silyl enol ethers as an equivalent of an asymmetric Michael reaction. *Journal of the American Chemical Society*, **2001**, 123, 2070-1	16.4	76
230	Catalytic asymmetric synthesis of highly functionalized cyclopentenes by a [3 + 2] cycloaddition. *Journal of the American Chemical Society*, **2001**, 123, 7461-2	16.4	76
229	Rhodium-catalyzed enantioselective vinylogous addition of enol ethers to vinyldiazoacetates. *Journal of the American Chemical Society*, **2012**, 134, 18241-4	16.4	74
228	2,2,2-Trichloroethyl aryldiazoacetates as robust reagents for the enantioselective C-H functionalization of methyl ethers. *Journal of the American Chemical Society*, **2014**, 136, 17718-21	16.4	73
227	Dirhodium tetraprolinate-catalyzed asymmetric cyclopropanations with high turnover numbers. *Organic Letters*, **2003**, 5, 1403-6	6.2	71
226	Intermolecular C□H activation at benzylic positions: synthesis of (+)-imperanene and (□)-□-conidendrin. *Tetrahedron: Asymmetry*, **2003**, 14, 941-949		70
225	Stereoselective synthesis of epoxides by reaction of donor/acceptor-substituted carbenoids with □,□-unsaturated aldehydes. *Tetrahedron Letters*, **2001**, 42, 6803-6805	2	70
224	Fortschritte bei katalytischen intramolekularen C-H-Aminierungen. *Angewandte Chemie*, **2005**, 117, 3584-3586	3.6	69
223	Diversity-oriented synthesis as a tool for identifying new modulators of mitosis. *Nature Communications*, **2014**, 5, 3155	17.4	68
222	Scope and stereochemistry of the tandem intramolecular cyclopropanation/Cope rearrangement sequence. *Journal of Organic Chemistry*, **1989**, 54, 930-936	4.2	68
221	Asymmetric intermolecular C-H activation, using immobilized dirhodium tetrakis((S)-N-(dodecylbenzenesulfonyl)- prolinate) as a recoverable catalyst. *Organic Letters*, **2003**, 5, 479-82	6.2	67
220	Asymmetric synthesis of (+)-indatraline using rhodium-catalyzed C□H activation. *Tetrahedron Letters*, **2002**, 43, 4951-4953	2	66
219	Metal carbene-promoted sequential transformations for the enantioselective synthesis of highly functionalized cycloheptadienes. *Journal of the American Chemical Society*, **2005**, 127, 1342-3	16.4	65
218	Catalytic asymmetric allylic C-H activation as a surrogate of the asymmetric Claisen rearrangement. *Organic Letters*, **2001**, 3, 3587-90	6.2	65
217	Highly stereoselective C-C bond formation by rhodium-catalyzed tandem ylide formation/[2,3]-sigmatropic rearrangement between donor/acceptor carbenoids and chiral allylic alcohols. *Journal of the American Chemical Society*, **2012**, 134, 10942-6	16.4	64
216	Mechanistic aspects of formal [3 + 4] cycloadditions between vinylcarbenoids and furans. *Tetrahedron*, **1987**, 43, 4265-4270	2.4	64
215	Catalytic and enantioselective allylic C-H activation with donor-acceptor-substituted carbenoids. *Organic and Biomolecular Chemistry*, **2005**, 3, 4176-87	3.9	63

214	New strategic reactions for organic synthesis: catalytic asymmetric C-H activation alpha to oxygen as a surrogate to the aldol reaction. *Journal of Organic Chemistry*, **2003**, 68, 6126-32	4.2	62
213	Efficient route to 4H-1,3-oxazines through ring expansion of isoxazoles by rhodium carbenoids. *Tetrahedron*, **2008**, 64, 6901-6908	2.4	61
212	The reinforcing efficacy of psychostimulants in rhesus monkeys: the role of pharmacokinetics and pharmacodynamics. *Journal of Pharmacology and Experimental Therapeutics*, **2003**, 307, 356-66	4.7	61
211	Desymmetrization of cyclohexanes by site- and stereoselective C-H functionalization. *Nature*, **2018**, 564, 395-399	50.4	61
210	Double C-H activation strategy for the asymmetric synthesis of C2-symmetric anilines. *Organic Letters*, **2004**, 6, 1769-72	6.2	60
209	C-H activation as a strategic reaction: enantioselective synthesis of 4-substituted indoles. *Journal of the American Chemical Society*, **2006**, 128, 1060-1	16.4	59
208	Catalytic Asymmetric Synthesis of Syn-Aldol Products from Intermolecular C□H Insertions between Allyl Silyl Ethers and Methyl Aryldiazoacetates. *Organic Letters*, **1999**, 1, 383-386	6.2	59
207	Anomalous reactivity of mono substituted rhodium stabilized vinylcarbenoids. *Tetrahedron Letters*, **1990**, 31, 6299-6302	2	59
206	Social dominance in female monkeys: dopamine receptor function and cocaine reinforcement. *Biological Psychiatry*, **2012**, 72, 414-21	7.9	58
205	Rhodium carbenoid approach for introduction of 4-substituted (Z)-pent-2-enoates into sterically encumbered pyrroles and indoles. *Organic Letters*, **2010**, 12, 924-7	6.2	58
204	Functionalization of carbon-hydrogen bonds through transition metal carbenoid insertion. *Topics in Current Chemistry*, **2010**, 292, 303-45		58
203	Asymmetric catalytic C-H activation applied to the synthesis of syn-aldol products. *Organic Letters*, **2000**, 2, 4153-6	6.2	58
202	Silica-immobilized chiral dirhodium(II) catalyst for enantioselective carbenoid reactions. *Organic Letters*, **2013**, 15, 6136-9	6.2	56
201	Solvent-free catalytic enantioselective C□□ bond forming reactions with very high catalyst turnover numbers. *Chemical Science*, **2010**, 1, 254	9.4	56
200	Rh2(S-PTAD)4-catalyzed asymmetric cyclopropenation of aryl alkynes. *Tetrahedron*, **2011**, 67, 4313-4317	2.4	56
199	Balance between allylic C-H activation and cyclopropanation in the reactions of donor/acceptor-substituted rhodium carbenoids with trans-alkenes. *Organic Letters*, **2007**, 9, 4971-4	6.2	55
198	Lewis acid induced tandem Diels-Alder reaction/ring expansion as an equivalent of a [4 + 3] cycloaddition. *Journal of the American Chemical Society*, **2004**, 126, 2692-3	16.4	54
197	Total Synthesis of (+/-)-Tremulenolide A and (+/-)-Tremulenediol A via a Stereoselective Cyclopropanation/Cope Rearrangement Annulation Strategy. *Journal of Organic Chemistry*, **1998**, 63, 657-660	4.2	54

196	Asymmetric synthesis of 1,4-cycloheptadienes and bicyclo[3.2.1]octa-2,6-dienes by rhodium(II) N-(p-(tert-butyl)phenylsulfonyl)prolinate catalyzed reactions between vinyldiazomethanes and dienes. *Tetrahedron Letters*, **1994**, 35, 8939-8942	2	54
195	Combined C-H functionalization/Cope rearrangement with vinyl ethers as a surrogate for the vinylogous Mukaiyama aldol reaction. *Journal of the American Chemical Society*, **2011**, 133, 11940-3	16.4	53
194	Combined experimental and computational studies of heterobimetallic Bi-Rh paddlewheel carboxylates as catalysts for metal carbenoid transformations. *Journal of Organic Chemistry*, **2009**, 74, 6564-71	4.2	53
193	Catalytic asymmetric cyclopropanation using bridged dirhodium tetraprolinates on solid support. *Organic Letters*, **2002**, 4, 1989-92	6.2	53
192	Thermally induced cycloadditions of donor/acceptor carbenes. *Organic Letters*, **2011**, 13, 4284-7	6.2	52
191	Catalytic asymmetric C?H activation of sp3 hybridized C?H bonds by means of carbenoid C?H insertions: applications in organic synthesis. *Journal of Molecular Catalysis A*, **2002**, 189, 125-135		52
190	[3 + 4] Cycloaddition reactions of vinyl carbenoids with furans. *Tetrahedron Letters*, **1985**, 26, 5659-5662	2	52
189	Reversal of the regiochemistry in the rhodium-catalyzed [4+3] cycloaddition between vinyldiazoacetates and dienes. *Angewandte Chemie - International Edition*, **2014**, 53, 13083-7	16.4	51
188	Metal-free N-H insertions of donor/acceptor carbenes. *Organic Letters*, **2012**, 14, 4626-9	6.2	50
187	Intermolecular Metal-Catalyzed Carbenoid Cyclopropanations **2001**, 1-326		50
186	Silver-catalyzed vinylogous fluorination of vinyl diazoacetates. *Organic Letters*, **2013**, 15, 6152-4	6.2	49
185	Type II intramolecular annulations between vinylcarbenoids and furans. *Tetrahedron Letters*, **1997**, 38, 1737-1740	2	49
184	Stereoselective construction of nitrile-substituted cyclopropanes. *Chemical Communications*, **2008**, 1238-40	5.8	49
183	Asymmetric Synthesis of Highly Functionalized Cyclopentanes by a Rhodium- and Scandium-Catalyzed Five-Step Domino Sequence. *Chemical Science*, **2011**, 2, 2378-2382	9.4	48
182	Asymmetric Synthesis of Cyclopentenes by [3 + 2] Annulations between Vinylcarbenoids and Vinyl Ethers. *Journal of Organic Chemistry*, **1998**, 63, 6586-6589	4.2	48
181	Scope of the Reactions of Indolyl- and Pyrrolyl-Tethered N-Sulfonyl-1,2,3-triazoles: Rhodium(II)-Catalyzed Synthesis of Indole- and Pyrrole-Fused Polycyclic Compounds. *Organic Letters*, **2017**, 19, 1504-1507	6.2	47
180	Composite polymer/oxide hollow fiber contactors: versatile and scalable flow reactors for heterogeneous catalytic reactions in organic synthesis. *Angewandte Chemie - International Edition*, **2015**, 54, 6470-4	16.4	47
179	Asymmetric intermolecular C-H functionalization of benzyl silyl ethers mediated by chiral auxiliary-based aryldiazoacetates and chiral dirhodium catalysts. *Journal of Organic Chemistry*, **2005**, 70, 10737-42	4.2	47

178	Enantioselective Synthesis of Fused Cycloheptadienes by a Tandem Intramolecular Cyclopropanation/Cope Rearrangement Sequence. *Journal of Organic Chemistry*, **1999**, 64, 8501-8508	4.2	47
177	Synthesis and Chemistry of Donor/Acceptor-Substituted Cyclopropenes. *Journal of Organic Chemistry*, **1995**, 60, 7529-7534	4.2	47
176	Iridium(iii)-bis(imidazolinyl)phenyl catalysts for enantioselective C-H functionalization with ethyl diazoacetate. *Chemical Science*, **2016**, 7, 3142-3146	9.4	46
175	Catalytic asymmetric reactions for organic synthesis: the combined C-H activation/Cope rearrangement. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 5472-5	11.5	46
174	An exploratory study of type II [3 + 4] cycloadditions between vinylcarbenoids and dienes. *Journal of Organic Chemistry*, **2000**, 65, 4261-8	4.2	46
173	Stereoselectivity of methyl aryldiazoacetate cyclopropanations of 1,1-diarylethylene. Asymmetric synthesis of a cyclopropyl analogue of tamoxifen. *Organic Letters*, **2000**, 2, 823-6	6.2	46
172	Synthesis of 3 beta-aryl-8-azabicyclo[3.2.1]octanes with high binding affinities and selectivities for the serotonin transporter site. *Journal of Medicinal Chemistry*, **1996**, 39, 2554-8	8.3	46
171	Enantioselective synthesis of beta-amino esters and its application to the synthesis of the enantiomers of the antidepressant Venlafaxine. *Chemical Communications*, **2006**, 3110-2	5.8	45
170	Versatile synthesis of tropones by reaction of rhodium(II)-stabilized vinylcarbenoids with 1-methoxy-1-[(trimethylsilyl)oxy]buta-1,3-diene. *Journal of Organic Chemistry*, **1991**, 56, 6440-6447	4.2	45
169	Highly stereoselective [3 + 2] annulations by cyclopropanation of vinyl ethers with rhodium(II)-stabilized vinylcarbenoids followed by a formally forbidden 1,3-sigmatropic rearrangement. *Journal of Organic Chemistry*, **1992**, 57, 3186-3190	4.2	45
168	Enantioselective Intermolecular C-H Functionalization of Allylic and Benzylic sp(3) C-H Bonds Using N-Sulfonyl-1,2,3-triazoles. *Organic Letters*, **2016**, 18, 3118-21	6.2	44
167	Controlling factors for C-H functionalization versus cyclopropanation of dihydronaphthalenes. *Journal of Organic Chemistry*, **2010**, 75, 1927-39	4.2	44
166	Effect of carbenoid structure on the reactivity of rhodium-stabilized carbenoids. *Tetrahedron Letters*, **1998**, 39, 4417-4420	2	44
165	Iridium(III)-bis(oxazolinyl)phenyl catalysts for enantioselective C–H functionalization. *Chemical Science*, **2013**, 4, 2590	9.4	43
164	Influence of Electron-Deficient Ruthenium(I) Carbonyl Carboxylates on the Vinylogous Reactivity of Metal Carbenoids. *Organometallics*, **2008**, 27, 1750-1757	3.8	43
163	□-hydroxy esters as inexpensive chiral auxiliaries in rhodium(II)-catalyzed cyclopropanations with vinyldiazomethanes. *Tetrahedron Letters*, **1991**, 32, 6509-6512	2	43
162	Catalyst-Controlled Selective Functionalization of Unactivated C-H Bonds in the Presence of Electronically Activated C-H Bonds. *Journal of the American Chemical Society*, **2018**, 140, 12247-12255	16.4	43
161	Enantioselective synthesis of cyclopropylphosphonates containing quaternary stereocenters using a D2-symmetric chiral catalyst Rh2(S-biTISP)2. *Organic Letters*, **2004**, 6, 2117-20	6.2	42

160	Novel 2-substituted cocaine analogs: binding properties at dopamine transport sites in rat striatum. *European Journal of Pharmacology*, **1993**, 244, 93-7		42
159	Intermolecular C–H functionalization versus cyclopropanation of electron rich 1,1-disubstituted and trisubstituted alkenes. *Tetrahedron*, **2009**, 65, 3052-3061	2.4	41
158	Kinetic resolution and double stereodifferentiation in catalytic asymmetric C-H activation of 2-substituted pyrrolidines. *Organic Letters*, **2001**, 3, 1773-5	6.2	41
157	Using IR vibrations to quantitatively describe and predict site-selectivity in multivariate Rh-catalyzed C-H functionalization. *Chemical Science*, **2015**, 6, 3057-3062	9.4	40
156	Site-Selective Carbene-Induced C–H Functionalization Catalyzed by Dirhodium Tetrakis(triarylcyclopropanecarboxylate) Complexes. *ACS Catalysis*, **2018**, 8, 678-682	13.1	40
155	Entwicklungen in der katalytischen enantioselektiven intermolekularen C-H-Funktionalisierung. *Angewandte Chemie*, **2006**, 118, 6574-6577	3.6	40
154	Divergent Pathways in the Intramolecular Reactions between Rhodium-Stabilized Vinylcarbenoids and Pyrroles: Construction of Fused Tropanes and 7-Azabicyclo[4.2.0]octadienes. *Journal of Organic Chemistry*, **1996**, 61, 2305-2313	4.2	40
153	Asymmetric synthesis of the tremulane skeleton by a tandem cyclopropanation/cope rearrangement. *Tetrahedron Letters*, **1996**, 37, 3967-3970	2	40
152	Rh(II)-Catalyzed Cyclopropanation of Furans and Its Application to the Total Synthesis of Natural Product Derivatives. *Organic Letters*, **2017**, 19, 4722-4725	6.2	39
151	Sequential cycloaddition approach to the tricyclic core of vibsanin E. Total synthesis of (+/-)-5-epi-10-epi-vibsanin E. *Organic Letters*, **2005**, 7, 5561-3	6.2	39
150	Catalytic asymmetric reactions for organic synthesis: the combined C-H activation/siloxy-cope rearrangement. *Journal of Organic Chemistry*, **2004**, 69, 9241-7	4.2	39
149	Catalytic asymmetric solid-phase cyclopropanation. *Journal of the American Chemical Society*, **2001**, 123, 2695-6	16.4	39
148	Rhodium(II) acetate-catalyzed reaction of ethyl 2-diazo-3-oxopent-4-enoates: Simple routes to 4-aryl-2-hydroxy-1-naphthoates and β,γ-unsaturated esters. The dianion of ethyl 4-(diethylphosphono)acetoacetate as a propionate homoenolate equivalent. *Tetrahedron Letters*, **1983**, 24, 5453-5456	2	39
147	An Immobilized-Dirhodium Hollow-Fiber Flow Reactor for Scalable and Sustainable C-H Functionalization in Continuous Flow. *Angewandte Chemie - International Edition*, **2018**, 57, 10923-10927	16.4	39
146	Metal-Free C-H Functionalization of Alkanes by Aryldiazoacetates. *Organic Letters*, **2017**, 19, 770-773	6.2	38
145	Guide to Enantioselective Dirhodium(II)-Catalyzed Cyclopropanation with Aryldiazoacetates. *Tetrahedron*, **2013**, 69, 5765-5765	2.4	38
144	Role of ortho-substituents on rhodium-catalyzed asymmetric synthesis of γ-lactones by intramolecular C-H insertions of aryldiazoacetates. *Organic Letters*, **2014**, 16, 3036-9	6.2	37
143	Novel entry to the tropane system by reaction of rhodium(II) acetate stabilized vinylcarbenoids with pyrroles. *Tetrahedron Letters*, **1989**, 30, 4653-4656	2	37

142	Rhodium-Stabilized Vinylcarbenoid Intermediates in Organic Synthesis. *Current Organic Chemistry*, **1998**, 2, 463-488	1.7	37
141	Asymmetric synthesis of 1-alkynylcyclopropane-1-carboxylates. *Tetrahedron Letters*, **2000**, 41, 8189-8192	2	36
140	Finding Opportunities from Surprises and Failures. Development of Rhodium-Stabilized Donor/Acceptor Carbenes and Their Application to Catalyst-Controlled C-H Functionalization. *Journal of Organic Chemistry*, **2019**, 84, 12722-12745	4.2	35
139	Rhodium(II)-Catalyzed Cross-Coupling of Diazo Compounds. *Angewandte Chemie*, **2011**, 123, 2592-2596	3.6	35
138	Enantioselective synthesis of tropanes by reaction of rhodium-stabilized vinylcarbenoids with pyrroles. *Tetrahedron Letters*, **1992**, 33, 6935-6938	2	35
137	The reinforcing efficacy of the dopamine reuptake inhibitor 2beta-propanoyl-3beta-(4-tolyl)-tropane (PTT) as measured by a progressive-ratio schedule and a choice procedure in rhesus monkeys. *Journal of Pharmacology and Experimental Therapeutics*, **2002**, 303, 640-8	4.7	34
136	Effect of carbenoid structure on the reactions of rhodium-stabilized carbenoids with cycloheptatriene. *Tetrahedron Letters*, **2000**, 41, 2035-2038	2	34
135	Enantioselective Dirhodium(II)-Catalyzed Cyclopropanations with Trimethylsilylethyl and Trichloroethyl Aryldiazoacetates. *Tetrahedron*, **2015**, 71, 7415-7420	2.4	33
134	Highly stereoselective synthesis of cyclopentanes bearing four stereocentres by a rhodium carbene-initiated domino sequence. *Nature Communications*, **2014**, 5, 4455	17.4	32
133	Lewis acid-catalyzed tandem Diels-Alder reaction/retro-Claisen rearrangement as an equivalent of the inverse electron demand hetero Diels-Alder reaction. *Journal of Organic Chemistry*, **2005**, 70, 6680-4	4.2	32
132	Rhodium-Catalyzed Tandem Cyclopropanation/Cope Rearrangement of 4-Alkenyl-1-sulfonyl-1,2,3-triazoles with Dienes. *Angewandte Chemie*, **2013**, 125, 10228-10231	3.6	31
131	Sequential rhodium-, silver-, and gold-catalyzed synthesis of fused dihydrofurans. *Organic Letters*, **2011**, 13, 4316-9	6.2	31
130	Synthetic and isolation studies related to the marine natural products (+)-elisabethadione and (+)-elisabethamine. *Journal of Organic Chemistry*, **2007**, 72, 1895-900	4.2	31
129	Effect of catalyst on the diastereoselectivity of methyl phenyldiazoacetate cyclopropanations. *Tetrahedron Letters*, **1998**, 39, 8811-8812	2	30
128	Diastereoselectivity Enhancement in Cyclopropanation and Cyclopropenation Reactions of Chiral Diazoacetate Esters Catalyzed by Chiral Dirhodium(II) Carboxamides. *Synlett*, **1993**, 1993, 151-153	2.2	30
127	Synthesis of fused 1,2-diazetidinones via an intramolecular Horner-Emmons reaction. *Journal of Organic Chemistry*, **1986**, 51, 1537-1540	4.2	30
126	Rhodium(II)-Catalyzed C-H Functionalization of Electron-Deficient Methyl Groups. *Journal of the American Chemical Society*, **2016**, 138, 5761-4	16.4	30
125	Enantioselective synthesis of 2-arylbicyclo[1.1.0]butane carboxylates. *Organic Letters*, **2013**, 15, 310-3	6.2	29

124	Computationally guided stereocontrol of the combined C-H functionalization/Cope rearrangement. *Angewandte Chemie - International Edition*, **2011**, 50, 9370-3	16.4	29
123	Synthesis of highly functionalized tropolones by rhodium(II)-catalyzed reactions of vinyldiazomethanes with oxygenated dienes. *Tetrahedron*, **1994**, 50, 9883-9892	2.4	29
122	Stereoselective convergent synthesis of hydroazulenes via an intermolecular cyclopropanation/Cope rearrangement. *Journal of Organic Chemistry*, **1991**, 56, 723-727	4.2	29
121	Enantioselective C□H functionalization of bicyclo[1.1.1]pentanes. *Nature Catalysis*, **2020**, 3, 351-357	36.5	28
120	Alkynoate synthesis through the vinylogous reactivity of rhodium(II) carbenoids. *Angewandte Chemie - International Edition*, **2012**, 51, 8636-9	16.4	28
119	Mechanistic studies of UV assisted [4 + 2] cycloadditions in synthetic efforts toward vibsanin E. *Journal of the American Chemical Society*, **2007**, 129, 10763-72	16.4	28
118	Novel approach to seven-membered rings by the intramolecular tandem cyclopropanation/cope rearrangement sequence. *Tetrahedron Letters*, **1988**, 29, 975-978	2	28
117	Rhodium-Stabilized Diarylcarbenes Behaving as Donor/Acceptor Carbenes. *ACS Catalysis*, **2020**, 10, 6240-6247	13.1	27
116	Rapid Construction of a Benzo-Fused Indoxamycin Core Enabled by Site-Selective C-H Functionalizations. *Angewandte Chemie - International Edition*, **2016**, 55, 8270-4	16.4	27
115	Rhodium-Catalyzed Intermolecular C-H Functionalization as a Key Step in the Synthesis of Complex Stereodefined □Arylpyrrolidines. *Organic Letters*, **2018**, 20, 3771-3775	6.2	27
114	Convenient Synthesis of Vinyldiazomethanes from □-Diazo-□Keto Esters and Related Systems. *Synthetic Communications*, **1992**, 22, 971-978	1.7	27
113	Enantioselective double C-H activation of dihydronaphthalenes. *Organic Letters*, **2005**, 7, 2293-6	6.2	26
112	Direct Synthesis of (+)-Erogorgiaene through a Kinetic Enantiodifferentiating Step. *Angewandte Chemie*, **2005**, 117, 1761-1763	3.6	26
111	Rhodium carboxylate catalyzed decomposition of vinyldiazoacetates in the presence of heterodienes: enantioselective synthesis of the 6-azabicyclo[3.2.2]nonane and 6-azabicyclo[3.2.2]nonanone ring systems. *Journal of Organic Chemistry*, **2002**, 67, 5683-9	4.2	26
110	Ring expansion of tert-butyl 1-vinylcyclopropane-1-carboxylates to .alpha.-ethylidenebutyrolactones. *Journal of Organic Chemistry*, **1992**, 57, 4309-4312	4.2	26
109	Synthesis and pyrolysis of cyclic sulfonium ylides. *Tetrahedron Letters*, **1987**, 28, 371-374	2	26
108	In Situ Kinetic Studies of Rh(II)-Catalyzed Asymmetric Cyclopropanation with Low Catalyst Loadings. *ACS Catalysis*, **2020**, 10, 1161-1170	13.1	26
107	Synthesis of Donor/Acceptor-Substituted Diazo Compounds in Flow and Their Application in Enantioselective Dirhodium-Catalyzed Cyclopropanation and C-H Functionalization. *Organic Letters*, **2017**, 19, 3055-3058	6.2	25

106	Sequential transformations to access polycyclic chemotypes: asymmetric crotylation and metal carbenoid reactions. *Angewandte Chemie - International Edition*, **2011**, 50, 5938-42	16.4	25
105	Formal Enantioselective [4+3] Cycloaddition by a Tandem Diels□Alder Reaction/Ring Expansion. *Advanced Synthesis and Catalysis*, **2006**, 348, 2449-2456	5.6	25
104	Synthesis of 2beta-acyl-3beta-(substituted naphthyl)-8-azabicyclo[3.2.1]octanes and their binding affinities at dopamine and serotonin transport sites. *Journal of Medicinal Chemistry*, **2001**, 44, 1509-15	8.3	25
103	Formation of monocyclic and bicyclic aza-.beta.-lactams and other novel heterocycles from 1-(diphenylmethylene)-3-oxo-1,2-diazetidinium inner salt. *Journal of the American Chemical Society*, **1981**, 103, 7659-7660	16.4	25
102	Comparison of Reactivity and Enantioselectivity between Chiral Bimetallic Catalysts: Bismuth□Rhodium- and Dirhodium-Catalyzed Carbene Chemistry. *ACS Catalysis*, **2018**, 8, 10676-10682	13.1	24
101	Synthesis of methylphenidate analogues and their binding affinities at dopamine and serotonin transport sites. *Bioorganic and Medicinal Chemistry Letters*, **2004**, 14, 1799-802	2.9	23
100	Harnessing the □Silicon Effect for Regioselective and Stereoselective Rhodium(II)-Catalyzed C-H Functionalization by Donor/Acceptor Carbenes Derived from 1-Sulfonyl-1,2,3-triazoles. *Organic Letters*, **2018**, 20, 2168-2171	6.2	22
99	Rhodium- and Non-Metal-Catalyzed Approaches for the Conversion of Isoxazol-5-ones to 2,3-Dihydro-6H-1,3-oxazin-6-ones. *Organic Letters*, **2017**, 19, 5158-5161	6.2	22
98	Influence of a □Alkoxy Substituent on the C?H Activation Chemistry of Alkyl Ethers. *Advanced Synthesis and Catalysis*, **2003**, 345, 1133-1138	5.6	22
97	Reversal of the Regiochemistry in the Rhodium-Catalyzed [4+3] Cycloaddition between Vinyldiazoacetates and Dienes. *Angewandte Chemie*, **2014**, 126, 13299-13303	3.6	21
96	Catalytic Enantioselective Synthesis of □-Amino Acids. *Angewandte Chemie*, **2002**, 114, 2301	3.6	21
95	Fluorine-18-labeled tropane analogs for PET imaging studies of the dopamine transporter. *Synapse*, **2000**, 37, 109-17	2.4	21
94	Regiochemistry of molybdenum-catalyzed O□H insertions of vinylcarbenoids. *Tetrahedron Letters*, **2000**, 41, 4851-4854	2	21
93	Self-administration of two long-acting monoamine transport blockers in rhesus monkeys. *Psychopharmacology*, **2000**, 152, 414-21	4.7	21
92	Divergent reaction pathways between rhodium(II)-stabilized vinylcarbenoids and benzenes. *Journal of Organic Chemistry*, **1992**, 57, 6900-6903	4.2	21
91	Further evaluation of the reinforcing effects of the novel cocaine analog 2beta-propanoyl-3beta-(4-tolyl)-tropane (PTT) in rhesus monkeys. *Psychopharmacology*, **1998**, 136, 139-47	4.7	20
90	Approaches to the synthesis of aza analogs of the .beta.-lactam antibiotics: some anomalous rhodium(II)-catalyzed carbene insertion reactions. *Journal of Organic Chemistry*, **1984**, 49, 113-116	4.2	20
89	Convenient method for the functionalization of the 4- and 6-positions of the androgen skeleton. *Chemical Communications*, **2012**, 48, 5838-40	5.8	19

88	Diversity synthesis using the complimentary reactivity of rhodium(II)- and palladium(II)-catalyzed reactions. *Journal of Organic Chemistry*, **2006**, 71, 5594-8	4.2	19
87	Functionalization of Piperidine Derivatives for the Site-Selective and Stereoselective Synthesis of Positional Analogues of Methylphenidate. *Chemistry - A European Journal*, **2020**, 26, 4236-4241	4.8	19
86	Composite Polymer/Oxide Hollow Fiber Contactors: Versatile and Scalable Flow Reactors for Heterogeneous Catalytic Reactions in Organic Synthesis. *Angewandte Chemie*, **2015**, 127, 6570-6574	3.6	18
85	Stereoselective synthesis of highly substituted cyclohexanes by a rhodium-carbene initiated domino sequence. *Organic Letters*, **2015**, 17, 794-7	6.2	18
84	Total Synthesis of (±)-Vibsanin E. *Australian Journal of Chemistry*, **2009**, 62, 980-982	1.2	18
83	Synthesis and reactions of some 1,2-disubstituted 1,2-diazetidin-3-ones: an intramolecular aldol approach to bicyclic systems. *Journal of Organic Chemistry*, **1986**, 51, 1530-1536	4.2	18
82	Regio- and Stereoselective Rhodium(II)-Catalyzed C-H Functionalization of Organosilanes by Donor/Acceptor Carbenes Derived from Aryldiazoacetates. *Organic Letters*, **2019**, 21, 4910-4914	6.2	17
81	Synthesis of complex hexacyclic compounds via a tandem Rh(II)-catalyzed double-cyclopropanation/Cope rearrangement/Diels-Alder reaction. *Organic Letters*, **2014**, 16, 4794-7	6.2	17
80	3-Oxo-1,2-diazetidinium tosylate. *Journal of the American Chemical Society*, **1981**, 103, 7660-7661	16.4	17
79	Synthesis of 2,2,2,-Trichloroethyl Aryl- and Vinyldiazoacetates by Palladium-Catalyzed Cross-Coupling. *Chemistry - A European Journal*, **2017**, 23, 3272-3275	4.8	16
78	Alkynoate Synthesis through the Vinylogous Reactivity of Rhodium(II) Carbenoids. *Angewandte Chemie*, **2012**, 124, 8764-8767	3.6	16
77	Diastereoselective kinetic protonation of exocyclic enolates derived from bicyclic ketones: control of stereochemistry mediated by bridging heteroatoms. *Journal of Organic Chemistry*, **2001**, 66, 7898-902	4.2	16
76	Behavioral effects of the novel tropane analog, 2 beta-propanoyl-3 beta-(4-toluyl)-tropane (PTT). *Life Sciences*, **1994**, 54, PL511-7	6.8	16
75	N- vs. O-acylation of 4,5-dihydro-1,3-oxadiazin-6-ones by ring enlargement. *Journal of Organic Chemistry*, **1984**, 49, 2204-2208	4.2	16
74	Synthesis of Ether Analogues of (±)-Acetomycin. *Heterocycles*, **1993**, 35, 385	0.8	15
73	Rh(II)-Catalyzed Monocyclopropanation of Pyrroles and Its Application to the Synthesis Pharmaceutically Relevant Compounds. *Organic Letters*, **2019**, 21, 6102-6106	6.2	14
72	Influence of an internal trifluoromethyl group on the rhodium(II)-catalyzed reactions of vinyldiazocarbonyl compounds. *Journal of Organic Chemistry*, **2013**, 78, 4239-44	4.2	14
71	Conformational analysis and stereochemical assignments of products derived from C?H activation at secondary sites. *Tetrahedron Letters*, **2001**, 42, 3149-3151	2	14

70	Synthesis of cyclic azomethine imines from aza .beta.-lactams. Conversion of 3-oxo-1,2-diazetidinium tosylates into 1-substituted 3-oxo-1,2-diazetidinium inner salts. *Journal of Organic Chemistry*, **1983**, 48, 4567-4571	4.2	13
69	Visible-light mediated oxidative ring expansion of anellated cyclopropanes to fused endoperoxides with antimalarial activity. *Organic Chemistry Frontiers*, **2020**, 7, 1789-1795	5.2	12
68	Rhodium(II)-catalyzed stereoselective synthesis of allylsilanes. *Organic Letters*, **2013**, 15, 6120-3	6.2	12
67	Rhodium(II) catalyzed intramolecular reactions between vinyldiazomethanes and pyrroles. Novel synthesis of fused 7-azabicyclo[4.2.0]octadienes. *Tetrahedron Letters*, **1994**, 35, 5209-5212	2	12
66	Regio- and Stereoselective Rhodium(II)-Catalyzed C-H Functionalization of Cyclobutanes. *CheM*, **2020**, 6, 304-313	16.2	12
65	An Immobilized-Dirhodium Hollow-Fiber Flow Reactor for Scalable and Sustainable C□H Functionalization in Continuous Flow. *Angewandte Chemie*, **2018**, 130, 11089-11093	3.6	12
64	Reactions of Indoles with Metal-Bound Carbenoids. *Advances in Heterocyclic Chemistry*, **2013**, 110, 43-72	2.4	11
63	1-Naphthyl and 4-indolyl arylalkylamines as selective monoamine reuptake inhibitors. *Bioorganic and Medicinal Chemistry Letters*, **2009**, 19, 58-61	2.9	11
62	Rhodium(II)-catalyzed decomposition of vinyldiazomethanes in the presence of 1,2-dihydropyridines: Synthesis of the 6-azabicyclo[3.2.2]nonane nucleus. *Tetrahedron Letters*, **1998**, 39, 2707-2710	2	11
61	Direct gas-phase interaction of aryldiazoacetates and dirhodium catalysts. *Dalton Transactions*, **2003**, 4221	4.3	11
60	Cation induced rearrangement of 8-azabicyclo[3.2.1]octa-2,6-dienes to 6-azabicyclo[3.2.1]oct-2-enes. *Tetrahedron Letters*, **1998**, 39, 5943-5946	2	10
59	Effects of the dopamine reuptake inhibitor PTT on reinstatement and on food- and cocaine-maintained responding in rhesus monkeys. *Psychopharmacology*, **2004**, 174, 246-53	4.7	10
58	Dihydro- and tetrahydrofuran ring-opening reactions directed towards the synthesis of CP-263,114. *Tetrahedron Letters*, **2000**, 41, 9021-9024	2	10
57	Synthesis and reactions of some 1-substituted 1,2-diazetidinones. *Journal of Organic Chemistry*, **1984**, 49, 4415-4419	4.2	10
56	Rhodium-Catalyzed [4+3] Cycloaddition to Furans: Direct Access to Functionalized Bicyclo[5.3.0]decane Derivatives. *European Journal of Organic Chemistry*, **2016**, 2016, 41-44	3.2	10
55	Asymmetric synthesis of pharmaceutically relevant 1-aryl-2-heteroaryl- and 1,2-diheteroarylcyclopropane-1-carboxylates. *Chemical Science*, **2021**, 12, 11181-11190	9.4	10
54	Optimized Immobilization Strategy for Dirhodium(II) Carboxylate Catalysts for C-H Functionalization and Their Implementation in a Packed Bed Flow Reactor. *Angewandte Chemie - International Edition*, **2020**, 59, 19525-19531	16.4	9
53	Asymmetric Synthesis through C□H Activation163-226		9

52	Prolonged dopamine and serotonin transporter inhibition after exposure to tropanes. *Neuropharmacology*, **1998**, 37, 123-30	5.5	9
51	Effect of HD-23, a potent long acting cocaine-analog, on cocaine self-administration in rats. *Psychopharmacology*, **2003**, 167, 386-92	4.7	9
50	Control of carbenoid reactivity through neighboring group participation. *Tetrahedron Letters*, **1995**, 36, 7205-7208	2	9
49	Distal Allylic/Benzylic C-H Functionalization of Silyl Ethers Using Donor/Acceptor Rhodium(II) Carbenes. *Angewandte Chemie - International Edition*, **2020**, 59, 7397-7402	16.4	9
48	Catalytic enantioselective synthesis of beta3-amino acids. *Angewandte Chemie - International Edition*, **2002**, 41, 2197-9	16.4	9
47	Formation of Tertiary Alcohols from the Rhodium-Catalyzed Reactions of Donor/Acceptor Carbenes with Esters. *Organic Letters*, **2018**, 20, 2399-2402	6.2	8
46	Computationally Guided Stereocontrol of the Combined C?H Functionalization/Cope Rearrangement. *Angewandte Chemie*, **2011**, 123, 9542-9545	3.6	8
45	Rhodium Carbenoid Induced Intermolecular C-H Functionalization at Tertiary C-H Bonds. *Synlett*, **2009**, 2009, 151-154	2.2	8
44	Effects of 2beta-propanoyl-3beta-(4-tolyl)-tropane (PTT) on the self-administration of cocaine, heroin, and cocaine/heroin combinations in rats. *Drug and Alcohol Dependence*, **2004**, 73, 259-65	4.9	8
43	Time-dependent changes in receptor/G-protein coupling in rat brain following chronic monoamine transporter blockade. *Journal of Pharmacology and Experimental Therapeutics*, **2005**, 313, 510-7	4.7	8
42	Rhodium-Catalyzed Enantioselective [4+2] Cycloadditions of Vinylcarbenes with Dienes. *Angewandte Chemie - International Edition*, **2020**, 59, 4937-4941	16.4	8
41	C-H Functionalization Approach for the Synthesis of Chiral -Symmetric 1,5-Cyclooctadiene Ligands. *Organic Letters*, **2019**, 21, 9864-9868	6.2	8
40	Rhodium Carbenes363-403		8
39	Synthesis of [3a,7a]-Dihydroindoles by a Tandem Arene Cyclopropanation/3,5-Sigmatropic Rearrangement Reaction. *Journal of Organic Chemistry*, **2018**, 83, 7939-7949	4.2	7
38	Intermolecular C□H Insertions of Carbenoids **2011**, 75-212		7
37	Local cerebral metabolic effects of the novel cocaine analog, WF-31: comparisons to fluoxetine. *Synapse*, **1997**, 27, 26-35	2.4	7
36	Synthesis and monoamine transporter affinity of 3beta-(4-(2-pyrrolyl)phenyl)-8-azabicycl. *Bioorganic and Medicinal Chemistry Letters*, **2001**, 11, 487-9	2.9	7
35	Transition Metal-Catalyzed C?H Functionalization: Synthetically Enabling Reactions for Building Molecular Complexity **2012**, 279-333		6

34	Alterations in behavior and opioid gene expression induced by the novel tropane analog WF-31. *Molecular Brain Research*, **1997**, 50, 293-304		6
33	Effects of long-term biogenic amine transporter blockade on receptor/G-protein coupling in rat brain. *Neuropharmacology*, **2005**, 48, 62-71	5.5	6
32	Thallium in Organic Synthesis. 67 Intramolecular Capture of Aromatic Radical Cations by An N-Tosyl Group. *Synthetic Communications*, **1986**, 16, 267-281	1.7	6
31	Regioselective [3 + 2] annulations with rhodium(ii)-stabilized vinylcarbenoids. *Tetrahedron Letters*, **1992**, 33, 455-456	2	5
30	Comparison of 1,2-Diarylcyclopropanecarboxylates with 1,2,2-Triarylcyclopropanecarboxylates as Chiral Ligands for Dirhodium-Catalyzed Cyclopropanation and C-H Functionalization. *Journal of Organic Chemistry*, **2020**, 85, 12199-12211	4.2	5
29	In vivo characterization of a novel phenylisothiocyanate tropane analog at monoamine transporters in rat brain. *Journal of Pharmacology and Experimental Therapeutics*, **2008**, 326, 587-95	4.7	4
28	Synthesis of iodinated 3beta-aryltropanes with selective binding to either the dopamine or serotonin transporters. *Bioorganic and Medicinal Chemistry Letters*, **2002**, 12, 845-7	2.9	4
27	A comparison of the behavioral effects of the repeated administration of PTT, 2beta-propanoyl-3beta-(4-tolyl)tropane and cocaine. *Brain Research*, **2000**, 869, 98-104	3.7	4
26	Copper(II) Acetate-Induced Oxidation of Hydrazones to Diazo Compounds under Flow Conditions Followed by Dirhodium-Catalyzed Enantioselective Cyclopropanation Reactions. *Organic Letters*, **2021**, 23, 5363-5367	6.2	4
25	Influence of Aryl Substituents on the Alignment of Ligands in the Dirhodium Tetrakis(1,2,2-Triarylcyclopropane- carboxylate) Catalysts. *ChemCatChem*, **2021**, 13, 174-179	5.2	4
24	Copper-Catalyzed Oxidation of Hydrazones to Diazo Compounds Using Oxygen as the Terminal Oxidant. *ACS Catalysis*, **2021**, 11, 2676-2683	13.1	4
23	C-h functionalization. *Beilstein Journal of Organic Chemistry*, **2012**, 8, 1552-3	2.5	3
22	Towards the Total Synthesis of 3-Hydroxyvibsanin E. *Synthesis*, **2009**, 2009, 2840-2846	2.9	3
21	Irreversible binding of a novel phenylisothiocyanate tropane analog to monoamine transporters in rat brain. *Biochemical Pharmacology*, **2007**, 74, 336-44	6	3
20	Donor-Acceptor-Acceptor 1,3-Bisdiazo Compounds: An Exploration of Synthesis and Stepwise Reactivity. *Organic Letters*, **2020**, 22, 1791-1795	6.2	2
19	Distal Allylic/Benzylic C□H Functionalization of Silyl Ethers Using Donor/Acceptor Rhodium(II) Carbenes. *Angewandte Chemie*, **2020**, 132, 7467-7472	3.6	2
18	Sequential Transformations to Access Polycyclic Chemotypes: Asymmetric Crotylation and Metal Carbenoid Reactions. *Angewandte Chemie*, **2011**, 123, 6060-6064	3.6	2
17	A cocaine analog, 2beta-propanoyl-3beta-(4-tolyl)-tropane (PTT), reduces tyrosine hydroxylase in the mesolimbic dopamine pathway. *Drug and Alcohol Dependence*, **2000**, 61, 15-21	4.9	2

16	Role of Additives to Overcome Limitations of Intermolecular Rhodium-Catalyzed Asymmetric Cyclopropanation		2
15	Rapid Construction of a Benzo-Fused Indoxamycin Core Enabled by Site-Selective C–H Functionalizations. *Angewandte Chemie*, **2016**, 128, 8410-8414	3.6	2
14	Synthesis of Furans via Rhodium(II) Acetate-Catalyzed Reaction of Acetylenes with α-Diazocarbonyls: Ethyl 2-Methyl-5-Phenyl-3-Furancarboxylate93-93		2
13	A C-H Functionalization Strategy Enables an Enantioselective Formal Synthesis of (-)-Aflatoxin B. *Organic Letters*, **2021**,	6.2	2
12	Chapter 11 Total syntheses of natural products using the combine C-H activation/cope rearrangement as the key step. *Strategies and Tactics in Organic Synthesis*, **2008**, 7, 383-407	0.2	1
11	Mechanistically Guided Workflow for Relating Complex Reactive Site Topologies to Catalyst Performance in C-H Functionalization Reactions.. *Journal of the American Chemical Society*, **2022**,	16.4	1
10	Rhodium-Catalyzed Enantioselective [4+2] Cycloadditions of Vinylcarbenes with Dienes. *Angewandte Chemie*, **2020**, 132, 4967-4971	3.6	1
9	Rhodium(II) Tetracarboxylate-Catalyzed Enantioselective C–H Functionalization Reactions **2019**, 341-372		1
8	One-Flask Synthesis of Methyl Arylvinyldiazoacetates and their Application in Enantioselective C-H Functionalization: Synthesis of (E)-Methyl 2-Diazo-4-Phenylbut-3-Enoate and (S,E)-Methyl 2-((R)-4-Methyl-1,2-Dihydronaphthalen-2-YL)-4-Phenylbut-3-Enoate **2007**, 334-346		1
7	Optimized Immobilization Strategy for Dirhodium(II) Carboxylate Catalysts for C–H Functionalization and Their Implementation in a Packed Bed Flow Reactor. *Angewandte Chemie*, **2020**, 132, 19693-19699	3.6	0
6	Copper-Catalyzed, Aerobic Oxidation of Hydrazone in a Three-Phase Packed Bed Reactor. *Organic Process Research and Development*, **2021**, 25, 1911-1922	3.9	0
5	Dirhodium(II) Tetraacetate **2017**, 1-16		
4	Methyl Phenyldiazoacetate **2015**, 1-10		
3	Absolute configuration of C23H34O8Si, the product of an asymmetric synthesis involving the Rh(II) catalyzed reaction of a chiral vinyldiazomethane with methyl-2-methyl-3-furoate. *Journal of Chemical Crystallography*, **1999**, 29, 707-711	0.5	
2	Absolute configuration of C20H30O6Si, a species with a (1R,5R)-8-oxabicyclo[3.2.1]octa-2,6-diene core produced selectivity by the rhodium(II) octanoate catalyzed decomposition of a chiral vinyldiazomethane in the presence of furan. *Journal of Chemical Crystallography*, **1999**, 29, 713-717	0.5	
1	Absolute configuration of C27H41NO8Si, the diastereoselective product of the rhodium(II) octanoate catalyzed decomposition of a chiral vinyldiazomethane in the presence of 2-acetylpyrrole: A structural study rendered difficult by disorder of a heavy atom. *Journal of Chemical Crystallography*, **1999**, 29, 1061-1066	0.5	