

Mark Lautens

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381
papers

26,996
citations

85
h-index

147
g-index

508
ext. papers

29,544
ext. citations

9.1
avg, IF

7.68
L-index

#	Paper	IF	Citations
381	Aryl-aryl bond formation by transition-metal-catalyzed direct arylation. <i>Chemical Reviews</i> , 2007 , 107, 174-238	68.1	3264
380	Transition Metal-Mediated Cycloaddition Reactions. <i>Chemical Reviews</i> , 1996 , 96, 49-92	68.1	1513
379	Rhodium-catalyzed carbon-carbon bond forming reactions of organometallic compounds. <i>Chemical Reviews</i> , 2003 , 103, 169-96	68.1	946
378	Secondary alkyl halides in transition-metal-catalyzed cross-coupling reactions. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 2656-70	16.4	636
377	Construction of nitrogen-containing heterocycles by C-H bond functionalization. <i>Chemistry - A European Journal</i> , 2009 , 15, 5874-83	4.8	487
376	Halide effects in transition metal catalysis. <i>Angewandte Chemie - International Edition</i> , 2002 , 41, 27-47	16.4	392
375	Modern Transition-Metal-Catalyzed Carbon-Halogen Bond Formation. <i>Chemical Reviews</i> , 2016 , 116, 8003-804	38.4	368
374	Transition metal-catalyzed enantioselective ring-opening reactions of oxabicyclic alkenes. <i>Accounts of Chemical Research</i> , 2003 , 36, 48-58	24.3	361
373	Palladium-catalysed norbornene-mediated C-H functionalization of arenes. <i>Nature Chemistry</i> , 2015 , 7, 863-70	17.6	322
372	A route to annulated indoles via a palladium-catalyzed tandem alkylation/direct arylation reaction. <i>Journal of the American Chemical Society</i> , 2005 , 127, 13148-9	16.4	302
371	Sekundäre Alkylhalogenide in Übergangsmetallkatalysierten Kreuzkupplungen. <i>Angewandte Chemie</i> , 2009 , 121, 2694-2708	3.6	194
370	Rhodium-catalyzed asymmetric ring opening of oxabicyclic alkenes with organoboronic acids. <i>Organic Letters</i> , 2002 , 4, 1311-4	6.2	189
369	Palladium-catalyzed domino direct arylation/N-arylation: convenient synthesis of phenanthridines. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 6713-6	16.4	188
368	Palladium-catalyzed carbiodination of alkenes: carbon-carbon bond formation with retention of reactive functionality. <i>Journal of the American Chemical Society</i> , 2011 , 133, 1778-80	16.4	185
367	Metal-catalyzed hydrostannations. <i>Chemical Reviews</i> , 2000 , 100, 3257-82	68.1	181
366	The role of reversible oxidative addition in selective palladium(0)-catalyzed intramolecular cross-couplings of polyhalogenated substrates: synthesis of brominated indoles. <i>Journal of the American Chemical Society</i> , 2010 , 132, 11416-7	16.4	175
365	Efficient synthesis of benzothiophenes by an unusual palladium-catalyzed vinylic C-S coupling. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 7064-8	16.4	175

364	A New Route to Fused Aromatic Compounds by Using a Palladium-Catalyzed Alkylation - Alkenylation Sequence This work was supported by the NSERC (Canada) and the University of Toronto. S.P. thanks the Fondation Bettencourt - Schueller for a postdoctoral fellowship. <i>Angewandte Chemie - International Edition</i> , 2000 , 39, 1045-1046	16.4	174
363	Rhodium-catalyzed coupling reactions of arylboronic acids to olefins in aqueous media. <i>Journal of the American Chemical Society</i> , 2001 , 123, 5358-9	16.4	169
362	A convergent synthesis of polysubstituted aromatic nitriles via palladium-catalyzed C-H functionalization. <i>Journal of the American Chemical Society</i> , 2007 , 129, 15372-9	16.4	158
361	Synthesis of 2-vinyl indoles and derivatives via a Pd-catalyzed tandem coupling reaction. <i>Organic Letters</i> , 2006 , 8, 4203-6	6.2	157
360	Palladium-catalyzed carbohalogenation: bromide to iodide exchange and domino processes. <i>Journal of the American Chemical Society</i> , 2011 , 133, 14916-9	16.4	155
359	Synthesis in the key of Catellani: norbornene-mediated ortho C-H functionalization. <i>Topics in Current Chemistry</i> , 2010 , 292, 1-33		154
358	A highly selective tandem cross-coupling of gem-dihaloolefins for a modular, efficient synthesis of highly functionalized indoles. <i>Journal of Organic Chemistry</i> , 2008 , 73, 538-49	4.2	147
357	A general and practical method of alkynyl indole and benzofuran synthesis via tandem Cu- and Pd-catalyzed cross-couplings. <i>Organic Letters</i> , 2007 , 9, 2955-8	6.2	146
356	Pd-catalyzed tandem C-N/C-C coupling of gem-dihalovinyl systems: a modular synthesis of 2-substituted indoles. <i>Organic Letters</i> , 2005 , 7, 3549-52	6.2	146
355	Rhodium-catalyzed asymmetric ring opening reactions of oxabicyclic alkenes: application of halide effects in the development of a general process. <i>Journal of the American Chemical Society</i> , 2003 , 125, 14884-92	16.4	146
354	Iridium-Catalyzed Asymmetric Synthesis of Functionally Rich Molecules Enabled by (Phosphoramidite,Olefin) Ligands. <i>Accounts of Chemical Research</i> , 2019 , 52, 2657-2672	24.3	139
353	Exploiting the divergent reactivity of aryl-palladium intermediates for the rapid assembly of fluorene and phenanthrene derivatives. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 1849-52	16.4	136
352	Exploiting the chemistry of strained rings: synthesis of indoles via domino reaction of aryl iodides with 2H-azirines. <i>Organic Letters</i> , 2010 , 12, 3312-5	6.2	135
351	Palladium-Catalyzed Enantioselective Alkylative Ring Opening. <i>Journal of the American Chemical Society</i> , 2000 , 122, 1804-1805	16.4	131
350	Scope of palladium-catalyzed alkylative ring opening. <i>Journal of the American Chemical Society</i> , 2004 , 126, 1437-47	16.4	130
349	Rhodium-catalyzed ring-opening reactions of N-boc-azabenzonorbornadienes with amine nucleophiles. <i>Journal of the American Chemical Society</i> , 2006 , 128, 6837-46	16.4	129
348	Rhodium-Catalyzed Asymmetric Alcoholysis and Aminolysis of Oxabenzonorbornadiene: A New Enantioselective Carbon-Heteroatom Bond Forming Process. <i>Journal of the American Chemical Society</i> , 2000 , 122, 5650-5651	16.4	129
347	The norbornene shuttle: multicomponent domino synthesis of tetrasubstituted helical alkenes through multiple C-H functionalization. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 1447-51	16.4	123

346	Organoselenium-catalyzed mild dehydration of aldoximes: an unexpected practical method for organonitrile synthesis. <i>Organic Letters</i> , 2014 , 16, 1346-9	6.2	122
345	Remote C-H alkylation and C-C bond cleavage enabled by an in situ generated palladacycle. <i>Nature Chemistry</i> , 2017 , 9, 361-368	17.6	122
344	Using ring-opening reactions of oxabicyclic compounds as a strategy in organic synthesis. <i>Topics in Current Chemistry</i> , 1997 , 1-85		122
343	Regioselective rhodium-catalyzed addition of arylboronic acids to alkynes with a pyridine-substituted water-soluble ligand. <i>Organic Letters</i> , 2002 , 4, 123-5	6.2	121
342	Tandem Pd-catalyzed double C-C bond formation: effect of water. <i>Journal of Organic Chemistry</i> , 2009 , 74, 3054-61	4.2	120
341	Visible-Light-Mediated Deaminative Three-Component Dicarbofunctionalization of Styrenes with Benzylic Radicals. <i>ACS Catalysis</i> , 2019 , 9, 236-241	13.1	119
340	Rhodium(I)-catalyzed cyclization reaction of o-alkynyl phenols and anilines. Domino approach to 2,3-disubstituted benzofurans and indoles. <i>Organic Letters</i> , 2009 , 11, 1329-31	6.2	117
339	Expedient synthesis of tetrasubstituted helical alkenes by a cascade of palladium-catalyzed C-H activations. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 9846-50	16.4	114
338	Mechanistic Studies of the Palladium-Catalyzed Ring Opening of Oxabicyclic Alkenes with Dialkylzinc. <i>Journal of the American Chemical Society</i> , 2001 , 123, 6834-6839	16.4	112
337	Formal synthesis of nitidine and NK109 via palladium-catalyzed domino direct arylation/N-arylation of aryl triflates. <i>Organic Letters</i> , 2011 , 13, 1486-9	6.2	111
336	Mechanistic studies of Pd-catalyzed regioselective aryl C-H bond functionalization with strained alkenes: origin of regioselectivity. <i>Chemistry - A European Journal</i> , 2011 , 17, 8175-88	4.8	111
335	Intramolecular cross-coupling of gem-dibromoolefins: a mild approach to 2-bromo benzofused heterocycles. <i>Chemical Communications</i> , 2009 , 5236-8	5.8	111
334	Palladium-catalyzed annulation of aryl heterocycles with strained alkenes. <i>Organic Letters</i> , 2007 , 9, 1761-62	16.4	111
333	Divergent selectivity in MgI(2)-mediated ring expansions of methylenecyclopropyl amides and imides. <i>Journal of the American Chemical Society</i> , 2002 , 124, 6312-6	16.4	111
332	Rhodium-catalyzed enantioselective nucleophilic fluorination: ring opening of oxabicyclic alkenes. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 12353-6	16.4	107
331	Palladium-catalyzed sequential alkylation-alkenylation reactions: new three-component coupling leading to oxacycles. <i>Organic Letters</i> , 2003 , 5, 4827-30	6.2	106
330	Enantioselective Rh-catalyzed domino transformations of alkynylcyclohexadienones with organoboron reagents. <i>Organic Letters</i> , 2013 , 15, 1148-51	6.2	105
329	Domino rhodium-catalyzed alkyne arylation/palladium-catalyzed N arylation: a mechanistic investigation. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 9089-92	16.4	105

328	Palladium(II) catalyst systems for the addition of boronic acids to bicyclic alkenes: new scope and reactivity. <i>Organic Letters</i> , 2003 , 5, 3695-8	6.2	105
327	Synthesis of dihydronaphthalenes via aryne Diels-Alder reactions: scope and diastereoselectivity. <i>Journal of the American Chemical Society</i> , 2005 , 127, 15028-9	16.4	105
326	Rh/Pd catalysis with chiral and achiral ligands: domino synthesis of aza-dihydrodibenzoxepines. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 9755-8	16.4	103
325	Reagent-controlled regiodivergent resolution of unsymmetrical oxabicyclic alkenes using a cationic rhodium catalyst. <i>Journal of the American Chemical Society</i> , 2009 , 131, 444-5	16.4	103
324	CuI-Catalyzed tandem intramolecular amidation using gem-dibromovinyl systems. <i>Organic Letters</i> , 2006 , 8, 653-6	6.2	102
323	Der Einfluss von Halogenidionen in der Bergangsmetallkatalyse. <i>Angewandte Chemie</i> , 2002 , 114, 26-49	3.6	101
322	Rhodium-catalyzed addition of arylboronic acids to alkynyl aza-heteroaromatic compounds in water. <i>Journal of Organic Chemistry</i> , 2003 , 68, 762-9	4.2	99
321	Dearomative Indole Bisfunctionalization via a Diastereoselective Palladium-Catalyzed Arylcyanation. <i>Organic Letters</i> , 2015 , 17, 4838-41	6.2	98
320	Effects of halide ligands and protic additives on enantioselectivity and reactivity in rhodium-catalyzed asymmetric ring-opening reactions. <i>Journal of the American Chemical Society</i> , 2001 , 123, 7170-1	16.4	97
319	Rhodium-catalyzed ring opening of vinyl epoxides with alcohols and aromatic amines. <i>Organic Letters</i> , 2000 , 2, 2319-21	6.2	96
318	Nickel-Catalyzed Hydroalumination of Oxabicyclic Alkenes. Ligand Effects on the Regio- and Enantioselectivity. <i>Journal of the American Chemical Society</i> , 1995 , 117, 532-533	16.4	95
317	Total synthesis of (+)-linoxepin by utilizing the Catellani reaction. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 5305-8	16.4	94
316	Chemodivergence in enantioselective desymmetrization of diazabicycles: ring-opening versus reductive arylation. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 2085-8	16.4	94
315	Efficient syntheses of KDR kinase inhibitors using a Pd-catalyzed tandem C-N/Suzuki coupling as the key step. <i>Journal of Organic Chemistry</i> , 2007 , 72, 1341-6	4.2	94
314	Rhodium-catalyzed asymmetric ring opening reactions of oxabicyclic alkenes: catalyst and substrate studies leading to a mechanistic working model. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 5455-60	11.5	94
313	Synergistic steric effects in the development of a palladium-catalyzed alkyne carbohalogenation: stereodivergent synthesis of vinyl halides. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 254-7	16.4	93
312	Total synthesis of ionomycin using ring-opening strategies. <i>Organic Letters</i> , 2002 , 4, 1879-82	6.2	93
311	Synthesis of benzannulated N-heterocycles by a palladium-catalyzed C-C/C-N coupling of bromoalkylamines. <i>Organic Letters</i> , 2007 , 9, 5255-8	6.2	92

- 310 Palladium-Catalyzed Spirocyclization through C-H Activation and Regioselective Alkyne Insertion. *Angewandte Chemie - International Edition*, **2017**, 56, 10920-10923 16.4 91
- 309 A conjunctive carboiodination: indenes by a double carbopalladation-reductive elimination domino process. *Angewandte Chemie - International Edition*, **2012**, 51, 9870-2 16.4 91
- 308 An expedient enantioselective route to diaminotetralins: application in the preparation of analgesic compounds. *Organic Letters*, **2002**, 4, 3465-8 6.2 91
- 307 Silver-promoted domino Pd-catalyzed amination/direct arylation: access to polycyclic heteroaromatics. *Organic Letters*, **2008**, 10, 4633-6 6.2 90
- 306 Rhodium-catalyzed tandem cyclization: formation of 1H-indenes and 1-alkylideneindans from arylboronate esters in aqueous media. *Journal of Organic Chemistry*, **2004**, 69, 4607-14 4.2 90
- 305 Rhodium-catalyzed asymmetric ring opening of oxabicyclic alkenes with phenols. *Organic Letters*, **2000**, 2, 1677-9 6.2 89
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- 303 A palladium-catalyzed alkylation/direct arylation synthesis of nitrogen-containing heterocycles. *Journal of Organic Chemistry*, **2008**, 73, 1888-97 4.2 87
- 302 A general modular method of azaindole and thienopyrrole synthesis via Pd-catalyzed tandem couplings of gem-dichloroolefins. *Journal of Organic Chemistry*, **2007**, 72, 5152-60 4.2 87
- 301 Rhodium-catalyzed asymmetric ring opening of oxabicyclic alkenes with sulfur nucleophiles. *Journal of Organic Chemistry*, **2004**, 69, 2194-6 4.2 86
- 300 Ring Opening in the Hydrostannation of Methylene-cyclopropanes: Effect of the Catalyst and Substrate. *Journal of the American Chemical Society*, **1996**, 118, 10676-10677 16.4 86
- 299 General Strategy toward the Tetrahydronaphthalene Skeleton. An Expedient Total Synthesis of Sertraline. *Journal of Organic Chemistry*, **1997**, 62, 5246-5247 4.2 85
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- 296 Synthesis of novel tetracycles via an intramolecular Heck reaction with anti-hydride elimination. *Organic Letters*, **2003**, 5, 3679-82 6.2 85
- 295 Pd(0)-Catalyzed Dearomative Diarylation of Indoles. *Chemistry - A European Journal*, **2016**, 22, 5684-91 4.8 84
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291	Palladium-catalyzed intramolecular coupling between aryl iodides and allyl moieties via thermal and microwave-assisted conditions. <i>Journal of the American Chemical Society</i> , 2005 , 127, 72-3	16.4	82
290	Enantioselective Ring Opening of Aza and Oxabicyclic Alkenes with Dimethylzinc. <i>Organic Letters</i> , 2000 , 2, 1971-1973	6.2	82
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286	Rhodium-catalyzed asymmetric allylic substitution with boronic acid nucleophiles. <i>Organic Letters</i> , 2006 , 8, 4569-72	6.2	79
285	Palladium-catalyzed alkylation-hydride reduction sequence: synthesis of meta-substituted arenes. <i>Organic Letters</i> , 2005 , 7, 4053-6	6.2	77
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283	Enantioselective palladium-catalyzed carbozincation of cyclopropenes. <i>Organic Letters</i> , 2011 , 13, 819-216.2	6.2	76
282	A New Route to the Enantioselective Synthesis of Cycloheptenols. Temperature Effects in the Asymmetric Reductive Ring Opening of [3.2.1] Oxabicycloalkenes. <i>Journal of the American Chemical Society</i> , 1997 , 119, 11090-11091	16.4	76
281	Carboiodination Catalyzed by Nickel. <i>Journal of the American Chemical Society</i> , 2018 , 140, 10950-10954	16.4	74
280	MgI(2)-mediated ring expansions of secondary methylenecyclopropyl amides. <i>Journal of the American Chemical Society</i> , 2003 , 125, 4028-9	16.4	74
279	Copper-Catalyzed Borylative Difunctionalization of β -Systems. <i>ACS Catalysis</i> , 2020 , 10, 11578-11622	13.1	74
278	An Exclusively trans-Selective Chlorocarbonylation of Alkynes Enabled by a Palladium/Phosphaadamantane Catalyst. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 15897-900	16.4	73
277	Development of an intramolecular aryne ene reaction and application to the formal synthesis of (β)-crinine. <i>Journal of the American Chemical Society</i> , 2012 , 134, 15572-80	16.4	73
276	Synthesis of annulated 2H-indazoles and 1,2,3- and 1,2,4-triazoles via a one-pot palladium-catalyzed alkylation/direct arylation reaction. <i>Journal of Organic Chemistry</i> , 2008 , 73, 9164-7	4.2	73
275	Palladium-catalyzed sequential alkylation-alkenylation reactions and their application to the synthesis of fused aromatic rings. <i>Journal of Organic Chemistry</i> , 2001 , 66, 8127-34	4.2	73

- 274 Enantioselective Intramolecular Copper-Catalyzed Borylacylation. *Angewandte Chemie - International Edition*, **2018**, 57, 13927-13930 16.4 73
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- 272 Selectively substituted thiophenes and indoles by a tandem palladium-catalyzed multicomponent reaction. *Organic Letters*, **2006**, 8, 3939-42 6.2 72
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- 270 Selective functionalization of 1,2-dihydronaphthalenols leads to a concise, stereoselective synthesis of sertraline. *Tetrahedron*, **1999**, 55, 8967-8976 2.4 72
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- 265 Gold meets rhodium: tandem one-pot synthesis of β -disubstituted ketones via Meyer-Schuster rearrangement and asymmetric 1,4-addition. *Organic Letters*, **2013**, 15, 3226-9 6.2 70
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- 263 Palladium-catalyzed ring-forming reactions: Methods and applications. *Pure and Applied Chemistry*, **2006**, 78, 351-361 2.1 69
- 262 A tandem catalytic approach to methyleneindenes: mechanistic insights into gem-dibromoolefin reactivity. *Organic Letters*, **2010**, 12, 2754-7 6.2 68
- 261 The Norbornene Shuttle: Multicomponent Domino Synthesis of Tetrasubstituted Helical Alkenes through Multiple C-H Functionalization. *Angewandte Chemie*, **2009**, 121, 1475-1479 3.6 66
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- 257 Organoselenium-Catalyzed Baeyer-Villiger Oxidation of α,β -Unsaturated Ketones by Hydrogen Peroxide to Access Vinyl Esters. *Advanced Synthesis and Catalysis*, **2015**, 357, 955-960 5.6 64

256	Enantioselective catalytic ring expansion of methylenecyclopropane carboxamides promoted by a chiral magnesium Lewis acid. <i>Organic Letters</i> , 2007 , 9, 591-3	6.2	64
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254	Addition of arylboronic acids to arylpropargyl alcohols en route to indenes and quinolines. <i>Organic Letters</i> , 2011 , 13, 5314-7	6.2	63
253	Palladium-catalyzed annulation of haloanilines and halobenzamides using norbornadiene as an acetylene synthon: a route to functionalized indolines, isoquinolinones, and indoles. <i>Journal of Organic Chemistry</i> , 2009 , 74, 1673-8	4.2	63
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251	Palladium-Catalyzed Norbornene-Mediated Tandem Amination/Cyanation Reaction: A Method for the Synthesis of ortho-Aminated Benzonitriles. <i>Organic Letters</i> , 2016 , 18, 4166-9	6.2	61
250	Mechanistic insights on the Pd-catalyzed addition of C-X bonds across alkynes - a combined experimental and computational study. <i>Chemical Science</i> , 2017 , 8, 2914-2922	9.4	60
249	Multicomponent multicatalyst reactions (MC)2R: one-pot synthesis of 3,4-dihydroquinolinones. <i>Organic Letters</i> , 2013 , 15, 2128-31	6.2	60
248	A New Multicomponent Multicatalyst Reaction (MC)(2)R: Chemoselective Cycloaddition and Latent Catalyst Activation for the Synthesis of Fully Substituted 1,2,3-Triazoles. <i>Organic Letters</i> , 2016 , 18, 2644-7	6.2	60
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