

Ei-Ichi Negishi

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#	Paper	IF	Citations
338	Palladium-catalyzed alkynylation. <i>Chemical Reviews</i> , 2003 , 103, 1979-2017	68.1	1053
337	Cyclic Carbopalladation. A Versatile Synthetic Methodology for the Construction of Cyclic Organic Compounds. <i>Chemical Reviews</i> , 1996 , 96, 365-394	68.1	611
336	Magical power of transition metals: past, present, and future (Nobel Lecture). <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 6738-64	16.4	541
335	Reaction of zirconocene dichloride with alkylolithiums or alkyl grignard reagents as a convenient method for generating a zirconocene equivalent and its use in zirconium-promoted cyclization of alkenes, alkynes, dienes, enynes, and diyenes. <i>Tetrahedron Letters</i> , 1986 , 27, 2829-2832	2	487
334	Highly general stereo-, regio-, and chemo-selective synthesis of terminal and internal conjugated enynes by the Pd-catalysed reaction of alkynylzinc reagents with alkenyl halides. <i>Journal of the Chemical Society Chemical Communications</i> , 1977 , 683		393
333	Recent advances in efficient and selective synthesis of di-, tri-, and tetrasubstituted alkenes via Pd-catalyzed alkenylation-carbonyl olefination synergy. <i>Accounts of Chemical Research</i> , 2008 , 41, 1474-85	24.3	356
332	Patterns of Stoichiometric and Catalytic Reactions of Organozirconium and Related Complexes of Synthetic Interest. <i>Accounts of Chemical Research</i> , 1994 , 27, 124-130	24.3	331
331	Transition Metal-Catalyzed Organometallic Reactions that Have Revolutionized Organic Synthesis. <i>Bulletin of the Chemical Society of Japan</i> , 2007 , 80, 233-257	5.1	219
330	Palladium-catalyzed acylation of organozincs and other organometallics as a convenient route to ketones. <i>Tetrahedron Letters</i> , 1983 , 24, 5181-5184	2	211
329	Regio- and stereoselective synthesis of alkylidenebutenolides and related compounds. <i>Tetrahedron</i> , 1997 , 53, 6707-6738	2.4	200
328	Bimetallic catalytic systems containing Ti, Zr, Ni, and Pd. Their applications to selective organic syntheses. <i>Pure and Applied Chemistry</i> , 1981 , 53, 2333-2356	2.1	189
327	Palladium-Catalyzed Amination of Aryl Halides and Related Reactions		182
326	Die magische Kraft der Bergangsmetalle: Vergangenheit, Gegenwart und Zukunft (Nobel-Aufsatz). <i>Angewandte Chemie</i> , 2011 , 123, 6870-6897	3.6	167
325	Zirconium-Catalyzed Enantioselective Alkylaluminumation of Monosubstituted Alkenes Proceeding via Noncyclic Mechanism. <i>Journal of the American Chemical Society</i> , 1996 , 118, 1577-1578	16.4	150
324	A convenient and genuine equivalent to HZrCp ₂ Cl generated in situ from ZrCp ₂ Cl ₂ -DIBAL-H. <i>Organic Letters</i> , 2006 , 8, 3675-8	6.2	144
323	Alkene and Alkyne Complexes of Zirconocene. Their Preparation, Structure, and Novel Transformations. <i>Bulletin of the Chemical Society of Japan</i> , 1998 , 71, 755-769	5.1	143
322	Zirconium-catalyzed enantioselective methylaluminumation of monosubstituted alkenes. <i>Journal of the American Chemical Society</i> , 1995 , 117, 10771-10772	16.4	137

321	Highly stereoselective synthesis of (1E)-2-methyl-1,3-dienes by palladium-catalyzed trans-selective cross-coupling of 1,1-dibromo-1-alkenes with alkenylzinc reagents. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 2259-63	16.4	128
320	Novel stereoselective alkenylaryl coupling via nickel-catalyzed reaction of alkenylanes with aryl halides. <i>Journal of the Chemical Society Chemical Communications</i> , 1976 , 596b-597b		124
319	Zirconocene-promoted stereoselective bicyclization of 1,6- and 1,7-dienes to produce trans-zirconabicyclo[3.3.0]octanes and cis-zirconabicyclo[4.3.0]nonanes. <i>Tetrahedron Letters</i> , 1989 , 30, 5105-5108	2	121
318	Palladium-Catalyzed Carbonylative Cyclization of 1-Iodo-2-alkenylbenzenes. <i>Journal of the American Chemical Society</i> , 1996 , 118, 5904-5918	16.4	120
317	Multiple Mechanistic Pathways for Zirconium-Catalyzed Carboalumination of Alkynes. Requirements for Cyclic Carbometalation Processes Involving C≡C Activation. <i>Journal of the American Chemical Society</i> , 1996 , 118, 9577-9588	16.4	120
316	Palladium-Catalyzed Alkynylation: Sonogashira Alkyne Synthesis 493-529		119
315	Alkyne elementometalation-Pd-catalyzed cross-coupling. Toward synthesis of all conceivable types of acyclic alkenes in high yields, efficiently, selectively, economically, and safely: "green" way. <i>Journal of Organic Chemistry</i> , 2010 , 75, 3151-82	4.2	117
314	A quarter of a century of explorations in organozirconium chemistry. <i>Dalton Transactions</i> , 2005 , 827-48	4.3	102
313	A Regiospecific Synthesis of Carbosubstituted Heteroaromatic Derivatives via Pd-Catalyzed Cross Coupling. <i>Heterocycles</i> , 1982 , 18, 117	0.8	101
312	All-catalytic, efficient, and asymmetric synthesis of alpha,omega-diheterofunctional reduced polypropionates via "one-pot" Zr-catalyzed asymmetric carboalumination-Pd-catalyzed cross-coupling tandem process. <i>Journal of the American Chemical Society</i> , 2005 , 127, 2838-9	16.4	97
311	Clean inversion of configuration in the Pd-catalyzed cross-coupling of 2-bromo-1,3-dienes. <i>Journal of the American Chemical Society</i> , 2003 , 125, 13636-7	16.4	93
310	A novel, highly selective, and general methodology for the synthesis of 1,5-diene-containing oligoisoprenoids of all possible geometrical combinations exemplified by an iterative and convergent synthesis of coenzyme Q(10). <i>Organic Letters</i> , 2002 , 4, 261-4	6.2	92
309	Widely applicable Pd-catalyzed trans-selective monoalkylation of unactivated 1,1-dichloro-1-alkenes and Pd-catalyzed second substitution for the selective synthesis of E or Z trisubstituted alkenes. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 762-5	16.4	90
308	An efficient and general route to reduced polypropionates via Zr-catalyzed asymmetric CC bond formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 5782-7	11.5	90
307	Highly satisfactory alkynylation of alkenyl halides via Pd-catalyzed cross-coupling with alkynylzincs and its critical comparison with the sonogashira alkynylation. <i>Organic Letters</i> , 2003 , 5, 1597-600	6.2	90
306	A genealogy of Pd-catalyzed cross-coupling. <i>Journal of Organometallic Chemistry</i> , 2002 , 653, 34-40	2.3	89
305	Pd- and Ni-catalyzed cross-coupling reactions in the synthesis of organic electronic materials. <i>Science and Technology of Advanced Materials</i> , 2014 , 15, 044201	7.1	87
304	Catalytic and selective conversion of (Z)-2-en-4-ynoic acids to either 2H-pyran-2-ones in the presence of ZnBr ₂ or (Z)-5-alkylidene-furan-2(5H)-ones in the presence of Ag ₂ CO ₃ . <i>Tetrahedron Letters</i> , 2002 , 43, 5673-5676	2	87

303	Highly satisfactory procedures for the Pd-catalyzed cross coupling of aryl electrophiles with in situ generated alkynylzinc derivatives. <i>Organic Letters</i> , 2001 , 3, 3111-3	6.2	84
302	Anti-Carbometalation of Homopropargyl Alcohols and Their Higher Homologues via Non-Chelation-Controlled Syn-Carbometalation and Chelation-Controlled Isomerization \square <i>Journal of Organic Chemistry</i> , 1997 , 62, 784-785	4.2	82
301	Selective Intermolecular Coupling of Alkynes with Nitriles and Ketones via beta,beta' Carbon-Carbon Bond Cleavage of Zirconacyclopentenes. <i>Journal of Organic Chemistry</i> , 1998 , 63, 6802-6806	4.2	82
300	Catalytic, efficient, and syn-selective construction of deoxypolypropionates and other chiral compounds via Zr-catalyzed asymmetric carboalumination of allyl alcohol. <i>Journal of the American Chemical Society</i> , 2006 , 128, 2770-1	16.4	80
299	Highly Efficient and Selective Procedures for the Synthesis of \square Alkylidenebutenolides via Palladium-Catalyzed Ene-Yne Coupling and Palladium- or Silver Catalyzed Lactonization of (Z)-2-En-4-ynoic Acids. Synthesis of Rubrolides A, C, D, and E. <i>Synthesis</i> , 1997 , 1997, 121-128	2.9	79
298	Bis(triphenylphosphine)palladium: \square its generation, characterization, and reactions. <i>Journal of the Chemical Society Chemical Communications</i> , 1986 , 1338-1339		78
297	A highly stereo-, regio-, and chemoselective synthesis of conjugated dienes by the palladium-catalyzed reaction of (\square)-1-alkenylzirconium derivatives with alkenyl halides. <i>Tetrahedron Letters</i> , 1978 , 19, 1027-1030	2	78
296	Direct Synthesis of Terminal Alkynes via Pd-Catalyzed Cross Coupling of Aryl and Alkenyl Halides with Ethynylmetals Containing Zn, Mg, and Sn. Critical Comparison of Counterions. <i>Journal of Organic Chemistry</i> , 1997 , 62, 8957-8960	4.2	77
295	Cyclic cascade carbopalladation reactions as a route to benzene and fulvene derivatives. <i>Tetrahedron Letters</i> , 1992 , 33, 3253-3256	2	76
294	Highly selective synthesis of (E)-3-methyl-1-trialkylsilyl-3-en-1-yne via trans-selective alkynylation catalyzed by Cl ₂ Pd(DPEphos) and stereospecific methylation with methylzinc catalyzed by Pd(tBu ₃ P) ₂ . <i>Organic Letters</i> , 2003 , 5, 1825-8	6.2	75
293	A highly efficient and selective synthesis of lissoclinolide featuring hydrogen transfer hydrozirconation, trans-selective Pd-catalyzed cross coupling of alkenylzirconiums with 1,1-dibromoalkenes and Ag-catalyzed lactonization providing (Z)- \square alkylidenebutenolides. <i>Tetrahedron Letters</i> , 1999 , 40, 431-434	2	75
292	Highly regio- and stereoselective synthesis of (Z)-trisubstituted alkenes via propyne bromoboration and tandem Pd-catalyzed cross-coupling. <i>Organic Letters</i> , 2009 , 11, 4092-5	6.2	74
291	Palladium-Catalyzed Cyclization of 1-Iodo-Substituted 1,4-, 1,5-, and 1,6-Dienes as Well as of 5-Iodo-1,5-dienes in the Presence of Carbon Monoxide. <i>Journal of the American Chemical Society</i> , 1996 , 118, 5919-5931	16.4	74
290	An odyssey from stoichiometric carbonylation of alkynes to zirconium-catalyzed enantioselective carboalumination of alkenes. <i>Chemical Society Reviews</i> , 1996 , 25, 417	58.5	74
289	A novel zirconium-catalyzed hydroalumination of olefins. <i>Tetrahedron Letters</i> , 1980 , 21, 1501-1504	2	74
288	anti-Stereospecificity in the palladium-catalyzed reactions of alkenyl- or aryl-metal derivatives with allylic electrophiles. <i>Journal of the Chemical Society Chemical Communications</i> , 1982 , 160		74
287	A novel, selective, and efficient route to carotenoids and related natural products via Zr-catalyzed carboalumination and Pd- and Zn-catalyzed cross coupling. <i>Organic Letters</i> , 2001 , 3, 719-22	6.2	73
286	Zirconacyclopropanes and Zirconacycloprenes. Their Synthesis, Characterization, and Reactions. <i>Chemistry Letters</i> , 1987 , 16, 623-626	1.7	71

285	Highly selective synthesis of allylated arenes and diarylmethanes via palladium-catalyzed cross coupling involving benzylic derivatives. <i>Tetrahedron Letters</i> , 1981 , 22, 2715-2718	2	69
284	An efficient and general method for the synthesis of alpha,omega-difunctional reduced polypropionates by Zr-catalyzed asymmetric carboalumination: synthesis of the scyphostatin side chain. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 2911-4	16.4	68
283	Efficient and selective synthesis of siphonarienolone and related reduced polypropionates via Zr-catalyzed asymmetric carboalumination. <i>Organic Letters</i> , 2004 , 6, 1425-7	6.2	68
282	Principle of Activation of Electrophiles by Electrophiles through Dimeric Association—Two Are Better than One. <i>Chemistry - A European Journal</i> , 1999 , 5, 411-420	4.8	67
281	Strictly regio-controlled method for β -alkenylation of cyclic ketones via palladium-catalyzed cross coupling. <i>Tetrahedron Letters</i> , 1991 , 32, 4453-4456	2	67
280	A Selective Synthesis of (E)-2-Methyl-1-alkenyl Iodides via Zirconium-Catalyzed Carboalumination. <i>Synthesis</i> , 1979 , 1979, 501-502	2.9	67
279	Stereo- and regioselective routes to allylic silanes. <i>Tetrahedron Letters</i> , 1982 , 23, 27-30	2	66
278	Zirconium-promoted bicyclization of enynes. Effects of enyne structure. <i>Tetrahedron Letters</i> , 1987 , 28, 917-920	2	65
277	Palladium-catalyzed or -promoted reductive carbon-carbon coupling. Effects of phosphines and carbon ligands. <i>Journal of Organometallic Chemistry</i> , 1987 , 334, 181-194	2.3	64
276	An efficient and stereoselective synthesis of xerulin via Pd-catalyzed cross coupling and lactonization featuring (E)-iodobromoethylene as a novel two-carbon synthon. <i>Organic Letters</i> , 2000 , 2, 65-7	6.2	62
275	Palladium-catalyzed cross-coupling reaction of alkynylzincs with benzylic electrophiles. <i>Tetrahedron Letters</i> , 2005 , 46, 2927-2930	2	61
274	Stereoselective synthesis of conjugated trans-enynes readily convertible into conjugated cis,trans-dienes and its application to the synthesis of the pheromone bombykol. <i>Journal of the Chemical Society Chemical Communications</i> , 1973 , 874		60
273	Highly selective synthesis of vitamin A and its derivatives. Critical comparison of some known palladium-catalyzed alkenyl-alkenyl coupling reactions. <i>Tetrahedron Letters</i> , 1991 , 32, 6683-6686	2	59
272	Scope of the palladium-catalyzed coupling reaction of organometallics with allylic electrophiles. Effect of the leaving group. <i>Tetrahedron Letters</i> , 1981 , 22, 3737-3740	2	59
271	Highly stereoselective and general synthesis of (z)-3-methyl-2-alken-1-ols via palladium-catalyzed cross coupling of (z)-3-iodo-2-buten-1-ol with organozincs and other organometals. <i>Tetrahedron Letters</i> , 1993 , 34, 1437-1440	2	58
270	Fully reagent-controlled asymmetric synthesis of (-)-spongidepsin via the Zr-catalyzed asymmetric carboalumination of alkenes (ZACA reaction). <i>Organic Letters</i> , 2007 , 9, 2771-4	6.2	55
269	Efficient and Stereoselective Synthesis of Freelingyne via Pd-Catalyzed Cross Coupling and Lactonization(1). <i>Journal of Organic Chemistry</i> , 1997 , 62, 8591-8594	4.2	54
268	A New Protocol for the Enantioselective Synthesis of Methyl-Substituted Alkanols and Their Derivatives through a Hydroalumination/Zirconium-Catalyzed Alkylaluminum Tandem Process. <i>Angewandte Chemie - International Edition</i> , 2002 , 41, 2141	16.4	54

- 267 A convenient and asymmetric protocol for the synthesis of natural products containing chiral alkyl chains via Zr-catalyzed asymmetric carboalumination of alkenes. Synthesis of phytol and vitamins E and K. *Organic Letters*, **2001**, 3, 3253-6 6.2 54
- 266 A highly stereoselective and general synthesis of conjugated trans,trans-dienes and trans-alkyl ketones via hydroboration. *Journal of the Chemical Society Chemical Communications*, **1973**, 606 53
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- 263 Diastereoselective zirconocene-promoted bicyclization-carbonylation of allylically methyl-substituted enynes. Synthesis of (+)-iridomyrmecin. *Tetrahedron Letters*, **1992**, 33, 1543-1546 2 51
- 262 Highly stereo- and regioselective synthesis of (Z)-trisubstituted alkenes via 1-bromo-1-alkyne hydroboration-migratory insertion-Zn-promoted iodolysis and Pd-catalyzed organozinc cross-coupling. *Journal of the American Chemical Society*, **2007**, 129, 14788-92 16.4 50
- 261 One-step conversion of terminal acetylenes into terminally functionalized (E)-3-methyl-2-alkenes via zirconium-catalyzed carboalumination. A simple and selective route to terpenoids. *Tetrahedron Letters*, **1978**, 19, 2357-2360 2 50
- 260 Zirconocene-Alkene Complexes. An X-Ray Structure and a Novel Preparative Method. *Chemistry Letters*, **1989**, 18, 761-764 1.7 49
- 259 Zirconium-catalyzed allylalumination and benzylalumination of alkynes. *Tetrahedron Letters*, **1984**, 25, 5863-5866 2 49
- 258 Controlled carbometallation. *Journal of Organometallic Chemistry*, **1978**, 156, C20-C24 2.3 48
- 257 Use of InCl(3) as a cocatalyst and a Cl(2)Pd(DPEphos)-P(2-furyl)(3) catalyst system for one-pot hydrometalation-cross-coupling and carbometallation-cross-coupling tandem processes. *Organic Letters*, **2004**, 6, 1531-4 6.2 47
- 256 Strictly Regiocontrolled β -Monosubstitution of Cyclic Carbonyl Compounds with Alkynyl and Alkyl Groups via Pd-Catalyzed Coupling of Cyclic β -Iodoenones with Organozincs. *Tetrahedron*, **2000**, 56, 10197-10207 7.4 47
- 255 A strictly "pair"-selective synthesis of conjugated diynes via Pd-catalyzed cross coupling of 1,3-diynezincs: a superior alternative to the Cadiot-Chodkiewicz reaction. *Organic Letters*, **2000**, 2, 3687-9 6.2 47
- 254 Novel and selective β -substitution of ketones and other carbonyl compounds based on Pd-catalyzed cross coupling of β , γ -unsaturated carbonyl derivatives containing β -halogen or β -metal groups. *Journal of Organometallic Chemistry*, **1999**, 576, 179-194 2.3 47
- 253 Intermolecular Heck Reaction: Scope, Mechanism, and Other Fundamental Aspects of the Intermolecular Heck Reaction 1133-1178 46
- 252 Palladium-Catalyzed Cross-Coupling Reactions with Zinc, Boron, and Indium Exhibiting High Turnover Numbers (TONs): Use of Bidentate Phosphines and Other Critical Factors in Achieving High TONs *Organometallics*, **2005**, 24, 475-478 3.8 44
- 251 Highly Stereoselective Synthesis of (1E)-2-Methyl-1,3-dienes by Palladium-Catalyzed trans-Selective Cross-Coupling of 1,1-Dibromo-1-alkenes with Alkenylzinc Reagents. *Angewandte Chemie*, **2004**, 116, 2309-2313 3.6 44
- 250 Overview of the Negishi Protocol with Zn, Al, Zr, and Related Metals 229-247 44

249	Highly stereoselective total synthesis of fully hydroxy-protected mycolactones A and B and their stereoisomerization upon deprotection. <i>Chemistry - A European Journal</i> , 2011 , 17, 4118-30	4.8	43
248	One-pot conversion of alkynes and alkenes into one-carbon homologated aldehydes via hydrozirconation-isocyanide insertion-hydrolysis. <i>Tetrahedron Letters</i> , 1988 , 29, 1631-1634	2	42
247	A convenient synthesis of unsymmetrical bibenzyls homoallylarenes, and homopropargylarenes via palladium-catalyzed cross coupling. <i>Tetrahedron Letters</i> , 1983 , 24, 3823-3824	2	41
246	Palladium-catalyzed allylation of lithium 3-alkenyl-1-cyclopentenolates-triethylborane and its application to a selective synthesis of methyl (z)-jasmonate ¹ . <i>Tetrahedron Letters</i> , 1985 , 26, 2177-2180	2	41
245	A stereoselective synthesis of cis-alkenylboranes. <i>Journal of Organometallic Chemistry</i> , 1975 , 92, C4-C6	2.3	41
244	Highly selective synthesis of conjugated dienoic and trienoic esters via alkyne elementometalation-Pd-catalyzed cross-coupling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 11344-9	11.5	39
243	Efficient and selective synthesis of (S,R,R,S,R,S)-4,6,8,10,16,18-hexamethyl-docosane via Zr-catalyzed asymmetric carboalumination of alkenes (ZACA reaction). <i>Organic Letters</i> , 2008 , 10, 1099-101 ²	6.2	39
242	A Selective and Efficient Synthesis of (E)-4-Methyl-3-alken-1-ols via Zirconium-Catalyzed Carboalumination of Terminal Alkynes. <i>Synthesis</i> , 1980 , 1980, 1034-1035	2.9	39
241	Highly efficient and selective synthesis of conjugated triynes and higher oligoynes of biological and materials chemical interest via palladium-catalyzed alkynyl-alkenyl coupling. <i>Organic Letters</i> , 2006 , 8, 5773-6	6.2	38
240	Selective synthesis of epolactaene featuring efficient construction of methyl (Z)-2-iodo-2-butenoate and (2R,3S,4S)-2-trimethylsilyl-2,3-epoxy-4-methyl- gamma-butyrolactone. <i>Organic Letters</i> , 2006 , 8, 2783-5	6.2	38
239	Highly efficient asymmetric synthesis of fluvirucinine A1 via Zr-catalyzed asymmetric carboalumination of alkenes (ZACA)-lipase-catalyzed acetylation tandem process. <i>Organic Letters</i> , 2008 , 10, 193-5	6.2	37
238	Palladium- or Nickel-Catalyzed Cross-Coupling with Organometals Containing Zinc, Aluminum, and Zirconium: The Negishi Coupling ⁸¹⁵⁻⁸⁸⁹		37
237	Carbopalladation of Allenes ¹⁴⁹¹⁻¹⁵²¹		37
236	A highly efficient, selective, and general method for the synthesis of conjugated (all-E)-oligoenes of the (CH=CH) _n type via iterative hydrozirconation-palladium-catalyzed cross-coupling. <i>Organic Letters</i> , 2002 , 4, 703-6	6.2	36
235	Preparation of a hafnocene-ethylene complex from bis(η ⁵ -cyclopentadienyl)hafnacyclopentane and its characterization. <i>Journal of the Chemical Society Chemical Communications</i> , 1989 , 852-853		35
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233	Zirconium-Catalyzed Asymmetric Carboalumination of Unactivated Terminal Alkenes. <i>Accounts of Chemical Research</i> , 2016 , 49, 2158-2168	24.3	35
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- 231 Zirconium-Catalyzed Asymmetric Carboalumination of Alkenes: ZACA π lipase-Catalyzed Acetylation Synergy. *Advanced Synthesis and Catalysis*, **2007**, 349, 539-545 5.6 33
- 230 Pd-catalyzed selective tandem arylation π lkylation of 1,1-dihalo-1-alkenes with aryl- and alkylzinc derivatives to produce β -alkyl-substituted styrene derivatives. *Journal of Organometallic Chemistry*, **2003**, 687, 518-524 2.3 33
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- 228 Palladium-catalyzed highly diastereoselective cyclic carbopalladation-carbonylative esterification tandem reaction of iododienes and iodoarylalkenes. *Organic Letters*, **1999**, 1, 165-7 6.2 33
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- 226 Novel head-to-tail alkyl-alkene or alkene-alkene coupling via zirconium-catalyzed reaction of alkylmagnesium derivatives with monosubstituted alkenes. *Tetrahedron Letters*, **1992**, 33, 1965-1968 2 33
- 225 Palladium-Catalyzed Cyclization via Carbopalladation and Acylpalladation 1-48 32
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- 223 Efficient and diastereoselective synthesis of (+)-Goniobutenolide A via palladium-catalyzed ene-yne cross coupling-lactonization cascade. *Tetrahedron Letters*, **1996**, 37, 9041-9042 2 32
- 222 Ethylzincation of Monosubstituted Alkenes Catalyzed by EtMgBr π l $_2$ ZrCp $_2$ and Palladium-Catalyzed Cross Coupling of the Resultant Diisoalkylzinc Derivatives. *Organometallics*, **2000**, 19, 2417-2419 3.8 31
- 221 Direct Synthesis of Heteroarylethynes via Palladium-catalyzed Coupling of Heteroaryl Halides with Ethynylzinc Halides. Its Application to an Efficient Synthesis of a Thiophenelactone from *Chamaemelum nobile* L.. *Heterocycles*, **1997**, 46, 209 0.8 30
- 220 1,4-Pentenyne as a five-carbon synthon for efficient and selective syntheses of natural products containing 2,4-dimethyl-1-penten-1,5-ylidene and related moieties by means of Zr-catalyzed carboalumination of alkynes and alkenes. *Chemistry - A European Journal*, **2008**, 14, 311-8 4.8 30
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- 218 Selective synthesis of benzene derivatives via palladium-catalyzed cascade carbometallation of alkynes. *Tetrahedron*, **1993**, 49, 5471-5482 2.4 30
- 217 Zirconium catalyzed C π C bond formation reaction of conjugated diynes with EtMgBr. *Tetrahedron Letters*, **1993**, 34, 8301-8304 2 30
- 216 Selective skeletal rearrangement by carbon π carbon bond activation. *Journal of the Chemical Society Chemical Communications*, **1990**, 182-183 30
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