Appendix
Reviews and Books of Cross-Coupling Reactions

General

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5. de Meijere A, Diederich F (2004) Metal-catalyzed cross-coupling reaction. Wiley-VCH, Weinheim
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8. Negishi, E (2007) Transition metal-catalyzed organometallic reactions that have revolutionized organic synthesis. Bull Chem Soc Jpn 80: 233–257
9. Marion N, Nolan SP (2008) Well-defined N-heterocyclic carbenes−palladium(II) precatalysts for cross-coupling reactions. Acc Chem Res 41: 1440–1449
10. Ackermann L (2009) Modern arylation methods. Wiley-VCH, Weinheim
11. Knochel P, Thaler T, Diene C (2010) Pd-, Ni-, Fe-, and Co-catalyzed cross-couplings using functionalized Zn-, Mg-, Fe-, and In-organometallics. Israel J Chem 50:547–557
12. Yu DG, Li BJ, Shi ZJ (2010) Exploration of new C−O electrophiles in cross-coupling reactions. Acc Chem Res 43:1486–1495
13. Rosen BM, Quasdorf KW, Wilson DA, Zhang N, Resmerita AM, Garg NK, Percec V (2011) Nickel-catalyzed cross-couplings involving carbon−oxygen bonds. Chem Rev 111:1346–1416

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DOI: 10.1007/978-3-642-32368-3,

Palladium-Catalyzed Carbon–Carbon Bond Formation

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3. Tsuji J (2005) Palladium in organic synthesis (topics in current chemistry). Springer, Berlin
4. Molnár A (2011) Efficient, selective, and recyclable palladium catalysts in carbon−carbon coupling reactions. Chem Rev 111:2251–2320
5. Negishi E (2011) Magical power of transition metals: past, present, and future (nobel lecture). Angew Chem Int Ed 50:6738–6764

Tsuji-Trost Reaction

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2. Trost BM (1996) Designing a receptor for molecular recognition in a catalytic synthetic reaction: Allylic alkylation. Acc Chem Res 29:355–364
3. Trost BM, Lee C (2000) Asymmetric allylic alkylation reactions. In: Ojima I (ed) Catalytic asymmetric synthesis, 2nd edn. Wiley-VCH, New York
4. Trost BM, Crawley ML (2003) Asymmetric transition-metal-catalyzed allylic alkylations: applications in total synthesis. Chem Rev 103:2921–2944
5. Trost BM, Machacek MR, Aponick A (2006) Predicting the stereochemistry of diphenylphosphino benzoic acid (DPPBA)-based palladium-catalyzed asymmetric allylic alkylation reactions: a working model. Acc Chem Res 39:747–760

Mizoroki-Heck Reaction

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13. Iyer S, Kulkarni GM, Ramesh C, Sattar AK (2005) Nitrogen ligands: the transition metal catalyzed reaction of aryl halides with olefins (Mizoroki-Heck), phenylboronic acid (Suzuki coupling) and Buchwald-Hartwig amination, new catalysts and effect of co-catalysts—aryl halide activation—part I. Indian J Chem B Org 44:1894–1908
14. Mo J, Xu LJ, Xiao JL (2005) Ionic liquid-promoted, highly regioselective Heck arylation of electron-rich olefins by aryl halides. J Am Chem Soc 127:751–760
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19. Knowles JP, Whiting A (2007) The Heck-Mizoroki cross-coupling reaction: a mechanistic perspective. Org Biomol Chem 5:31–44
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Buchwald-Hartwig Amination/Etherification

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11. Evano G, Blanchard N, Toumi M (2008) Copper-mediated coupling reactions and their applications in natural products and designed biomolecules synthesis. Chem Rev 108:3054–3131
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Kumada-Tamao-Corriu Coupling

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Murahashi Coupling

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Sonogashira-Hagihara Coupling

1. Campbell IB (1994) In: Taylor RJK (ed) Organocopper reagents; a practical approach. Oxford University Press, Oxford, pp 217–235
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Migita-Kosugi-Stille Coupling

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Hiyama Coupling

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