

Appendix

Reviews and Books of Cross-Coupling Reactions

General

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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
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Palladium-Catalyzed Carbon–Carbon Bond Formation

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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
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Mizoroki-Heck Reaction

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12. Shibasaki M, Vogl EM, Ohshima T (2004) Asymmetric Heck reaction. *Adv Synth Catal* 346:1533–1552
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
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Buchwald-Hartwig Amination/Etherification

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2. Hartwig JF (1998) Carbon–heteroatom bond-forming reductive eliminations of amines, ethers, and sulfides. *Acc Chem Res* 31:852–860
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7. Beletskaya IP, Cheprakov AV (2004) Copper in cross-coupling reactions: the post-Ullmann chemistry. *Coord Chem Rev* 248:2337–2364
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10. Surry DS, Buchwald SL (2008) Biaryl phosphane ligands in palladium-catalyzed amination. *Angew Chem Int Ed* 47:6338–6361
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12. Sadig JER, Willis MC (2011) Palladium- and copper-catalyzed aryl halide amination, etherification and thioetherification reactions in the synthesis of aromatic heterocycles. *Synthesis*, 1–22

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Murahashi Coupling

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Negishi Coupling

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2. Erdik E (1992) Transition metal catalyzed reactions of organozinc reagents. *Tetrahedron* 48:9577–9648
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Sonogashira-Hagihara Coupling

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2. Brandsma L, Vasilevsky SF, Verkruijsse HD (1998) Couplings of acetylenes with sp^2 -halides in Application of transition metal catalysts in organic synthesis. Springer, Berlin
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Migita-Kosugi-Stille Coupling

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Hiyama Coupling

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