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Title:	An Articulate Oxidative Transition-Metal-Free Homocoupling of Imidazo Heterocycles through C(sp ²)–C(sp ²) Bond Formation
Authors:	Mandal, S.K. (/jspui/browse?type=author&value=Mandal%2C+S.K.)
Keywords:	homocoupling transition-metal-free oxidative Imidazo Heterocycles C(sp ²)–C(sp ²)
Issue Date:	2017
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Abstract:	A transition-metal-free oxidative approach for homocoupling of 2-arylimidazo heterocycles by using a phenyliodine diacetate-mediated protocol at ambient conditions has been demonstrated. The homocoupled products were also obtained in an organocatalytic fashion by using iodobenzene. image Abstract Direct oxidative homocoupling of 2-arylimidazo heterocycles was achieved by using a phenyliodine diacetate-mediated BF ₃ ·OEt ₂ -accelerated protocol at room temperature. A series of biimidazo heterocycles were synthesized under ambient conditions without prior activation of the C(sp ²)–H bond. The desired biimidazo heterocycles were also obtained by using catalytic amounts of iodobenzene and m-CPBA/AcOH in an organocatalytic fashion.
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