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| Title: | One-Pot Relay Gold(I) and Brønsted Acid Catalysis: Cyclopenta[b]annulation of Indoles via Hydroamination/Nazarov-Type Cyclization Cascade of Enynols |
| Authors: | Dhiman, Seema (/jspui/browse?type=author&value=Dhiman%2C+Seema) Ramasastry, S.S.V. (/jspui/browse?type=author&value=Ramasastry%2C+S.S.V.) |
| Keywords: | Cyclization Pharmaceuticals Quinolines Indoles |
| Issue Date: | 2015 |
| Publisher: | American Chemical Society |
| Citation: | Organic Letters, 17 (20) |
| Abstract: | An expedient relay gold(I) and Brønsted acid catalyzed hydroamination/Nazarov cyclization of 1-(2-aminophenyl)pent-4-en-2-ynols for the synthesis of various polyfunctionalized cyclopenta[b]indoles is described. The synthetic utility of this method has been demonstrated by the synthesis of a few unprecedented pentacyclic indoles and indole-steroidal hybrids. Further, the new methodology has been successfully applied to the enantioselective synthesis of core carbon structure of the polyveoline family of natural products. |
| URI: | https://pubs.acs.org/doi/10.1021/acs.orglett.5b02632 (https://pubs.acs.org/doi/10.1021/acs.orglett.5b02632) http://hdl.handle.net/123456789/2746 (http://hdl.handle.net/123456789/2746) |
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