

Library Indian Institute of Science Education and Research Mohali



DSpace@IISERMohali (/jspui/)

- / Thesis & Dissertation (/jspui/handle/123456789/1)
- / Doctor of Philosophy (PhD) (/jspui/handle/123456789/268)
- / PhD-2012 (/jspui/handle/123456789/955)

Please use this identifier to cite or link to this item: http://hdl.handle.net/123456789/1214 Title: Exploring the Vinylogous Conjugate Addition Reactions of para-Quinone Methides to Access Fused N-Heterocycles, Diarylmethanes and Related Natural Products Authors: Jadhav, A.S. (/jspui/browse?type=author&value=Jadhav%2C+A.S.) Keywords: Chemistry Diarylmethanes Electrospray ionization Fourier transform infrared spectroscopy Light-emitting diode Issue Date: 1-Oct-2019 Publisher: **IISERM** Abstract: The research work carried out in this thesis is mainly focused on the 1,6-conjugate addition of carbon, nitrogen and sulphur nucleophiles to the p-quinone methides (p-QMs) under conventional batch processes and also under continuous-flow conditions. Under conventional conditions, pquinone methides have been utilized as synthons to access structurally complex and therapeutically active 1,2,3-triazole-fused isoindolines, cyclohepta[b]indoles and highly substituted indene derivatives. In fact, one of the protocols has been elaborated to the total synthesis of a resveratrol based natural product called (±)-isopaucifloral F. In addition, the 1,6-conjugate addition reactions of p-QMs with zinc alkyls and thiols have been explored under continuous-flow conditions using microreaction technology to access unsymmetrical diaryl methane derivatives. The results will be discussed in the talk. URI: **IISERM (IISERM)** http://hdl.handle.net/123456789/1214 (http://hdl.handle.net/123456789/1214) Appears in PhD-2012 (/jspui/handle/123456789/955)

Files in This Item:				
File	Description	Size	Format	

PH12143.pdf 15.71 Adobe

Collections:

View/Open (/jspui/bitstream/123456789/1214/3/ PDF (/jspui/bitstream/123456789/1214/3/PH12143.pdf) MB

Show full item record (/jspui/handle/123456789/1214?mode=full)

. I (/jspui/handle/123456789/1214/statistics)

Items in DSpace are protected by copyright, with all rights reserved, unless otherwise indicated.				
Admin Tools				
Edit Export Item				
Export (migrate) Item				
Export metadata				