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Metal-free, PTSA catalyzed facile synthesis of  $\beta$ -ketoacetal from  $\beta$ -chlorocinnamaldehyde

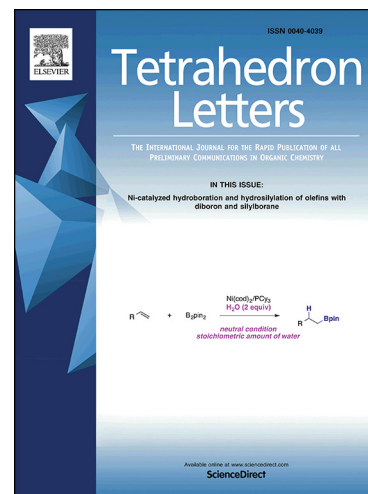
Avinash K. Srivastava, Munsaf Ali, Kamal Nayan Sharma, Raj K. Joshi

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## Graphical Abstract

**Metal-free, PTSA catalyzed facile synthesis of  $\beta$ -ketoacetal from  $\beta$ -chlorocinnamaldehyde**

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Avinash K. Srivastava<sup>a</sup>, Munsaf Ali<sup>a</sup>, Kamal Nayan Sharma and Raj K. Joshi <sup>\*[a]</sup><sup>a</sup>Department of Chemistry, Malaviya National Institute of Technology Jaipur, JLN Marg, Jaipur 302017, Rajasthan, India

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