















#### 4. Conclusion

In conclusion, we introduced a straightforward, efficient, and cost-effective synthesis of pyrimido[4*H*]-dibenzo[*a,j*]xanthenes derivatives in the presence of strong solid acid catalyst Co@pyr/APTZCMNPs under solvent-free conditions. High yields, short reaction time, simplicity of operation, and easy workup are some advantages of the presented approach.

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