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MECHANOCHEMICAL SYNTHESIS OF POLYMERIC SHIFF BASES VIA THE POLYCONDENSATION REACTIONS BETWEEN DIAMINES AND DIALDEHYDES

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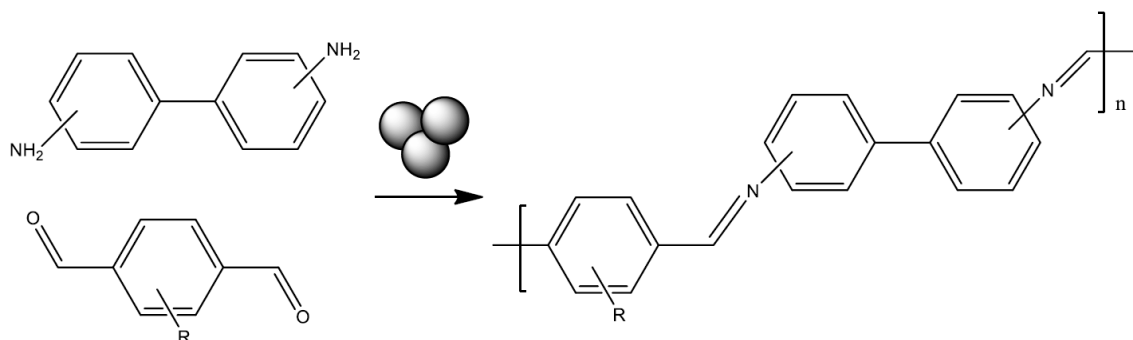
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Abstract. During last two decades the mechanochemical synthesis became good alternative to the traditional organic synthesis. For the polymer chemistry mechanochemical polymerization is constituted as sustainable alternative to the solution polymerization[1].

We have studied the ball milling procedure to prepare several conjugated polymers *via* polycondensation between terephthalaldehydes and diaminobiphenyls (Scheme 1). Depending on the nature and position of the substituents in the both dialdehydes and diamines the resulted polymers of various MW, solubility, etc. were obtained.

**References**

1. Grätz, S. and L. Borchardt, RSC Adv., **2016**, 6(69), p. 64799–64802

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