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Multi-state molecular shuttling of a pair of [2]rotaxane in response to weak and strong acid and base stimuli

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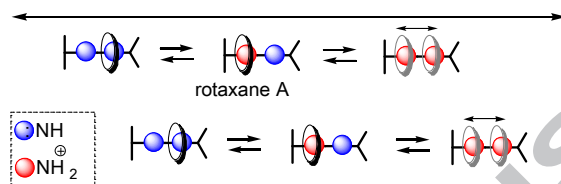
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