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Global stability of an SIR model with differential infectivity on complex networks

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***Highlights (for review)**

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- The basic reproduction number R_0 for the SIR model on complex networks is obtained.
- The equilibria are locally and globally asymptotically stable in some conditions.
- The theoretical results are confirmed by numerical simulations.
- The effects of various immunization schemes are discussed.
- The promising way for infectious diseases control is suggested.

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