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Randomly biased investments and the evolution of public goods on interdependent networks

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***Highlights (for review)**

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1.How heterogeneous investment affects public cooperation is studied.
2.Heterogeneous investment is induced by the interdependency of two-layer networks.
3.A moderate investment heterogeneity favors the evolution of cooperation best.
4.Non-interdependent cooperators are important in favoring cooperation.
5.Our results are robust when investment bias is the uniform distribution.

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