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Structure analysis and core community detection of embodied resources networks among regional industries

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**Highlights:**

- A method for identifying the core community of industries in Beijing-Tianjin-Hebei was developed based on community detection.
- Improvement of the macrostructure indicators of the weighted directed networks was proposed.
- Embodied resources consumption efficiency and agglomeration were studied based on the embodied resources networks among regional industries through analysis of macrostructure indicators.
- The coincidence industries in the "bridge" industries and in the core community of Jing-Jin-Ji were analyzed to study industrial homogeneity.

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