

Accepted Manuscript

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PII: S1385-8947(17)31926-5
DOI: <https://doi.org/10.1016/j.cej.2017.11.015>
Reference: CEJ 17986

To appear in: *Chemical Engineering Journal*

Received Date: 24 August 2017
Revised Date: 1 November 2017
Accepted Date: 2 November 2017

Please cite this article as: X. Niu, L. Shen, Release and transformation of phosphorus in chemical looping combustion of sewage sludge, *Chemical Engineering Journal* (2017), doi: <https://doi.org/10.1016/j.cej.2017.11.015>

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Highlights

Phosphorus is predominant in fly ash in CLC of sewage sludge.

Higher P-availability in CLC fly ash is beneficial to P recovery.

Phosphorus significantly affects the redox reactivity of hematite.

Methods developed to determine the effect of sludge ash on hematite.

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