

## BAB V KESIMPULAN DAN SARAN

### 5.1 Kesimpulan

Dari hasil penelitian *leaching spent catalyst* Co-Mo/Al<sub>2</sub>O<sub>3</sub>, dapat disimpulkan:

1. Pada peningkatan waktu *leaching*, akan dihasilkan kecenderungan perolehan *recovery* ion logam yang meningkat pula.
2. Pelarut asam organik yang terbaik adalah asam laktat, dengan perolehan *recovery* ion logam Co<sup>2+</sup> sebesar 50,81%, Mo<sup>6+</sup> sebesar 67,95%, dan Al<sup>3+</sup> sebesar 58,0%.
3. Asam sulfat (asam anorganik) menghasilkan perolehan *recovery* ion logam Co<sup>2+</sup>, Mo<sup>6+</sup>, dan Al<sup>3+</sup> yang lebih besar dibandingkan dengan asam organik.
4. Kecenderungan dari ukuran partikel berbanding terbalik dengan teori, diduga diakibatkan oleh *void fraction* antar partikel *spent catalyst*.
5. Pada peningkatan densitas pulp, akan dihasilkan kecenderungan perolehan *recovery* ion logam yang meningkat pula, sehingga perolehan *recovery* ion logam terbesar dihasilkan oleh densitas pulp sebesar 20%

### 5.2 Saran

Dari hasil penelitian *leaching spent catalyst* Co-Mo/Al<sub>2</sub>O<sub>3</sub>, dapat disarankan:

1. Dilakukan variasi konsentrasi asam organik, pada jenis asam terbaik maupun seluruh variasi jenis asam organik sebagai pelarut pada proses *leaching*.
2. Proses *leaching* dapat dilakukan dengan Erlenmeyer 100 mL atau dengan kecepatan pengadukan yang lebih besar untuk menghomogenkan pengadukan.

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