

## BAB V

### KESIMPULAN DAN SARAN

#### V.1. Kesimpulan

Pada Pembuatan komposit dengan perbandingan GO dan ekstrak kulit jeruk purut memperoleh hasil kapasitas adsorpsi sebagai berikut:

1. GO+ekstrak+*Iron Oxide* (1:1) memperoleh kapasitas adsorpsi sebesar 170,1 mg/g.
2. GO+ekstrak+*Iron Oxide* (1:2) memperoleh kapasitas adsorpsi sebesar 168,3 mg/g.
3. GO+ekstrak+*Iron Oxide* (1:3) memperoleh kapasitas adsorpsi sebesar 170,9 mg/g.
4. GO+ekstrak+*Iron Oxide* (1:4) memperoleh kapasitas adsorpsi sebesar 154,3 mg/g.
5. GO+ekstrak+*Iron Oxide* (1:1) memperoleh kapasitas adsorpsi sebesar 170,2 mg/g.

#### V.2. Saran

1. Komposit RGO-*Iron Oxide* memiliki potensi yang baik dalam mengadsorpsi *metilen blue*. Oleh karena itu perlu dikaji lebih lanjut dalam penggunaan ekstrak jeruk purut yang digunakan untuk mendapatkan nilai efisiensi fenolik yang tinggi yang digunakan dalam campuran RGO- *Iron Oxide*.

2. Pengaruh waktu reduksi GO, ekstrak dan besi perlu dipelajari lebih lanjut.

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