

## عنوان مقاله:

A note on some lower bounds of the Laplacian energy of a graph

## محل انتشار:

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### خلاصه مقاله:

For a simple connected graph \$G\$ of order \$n\$ and size \$m\$, the Laplacian energy of \$G\$ is defined as  $LE(G)=\sum_{i=1}^n|\mu_i-\frac{r_i}{n}$  where  $\mu_i, \mu_i, \mu_i, \mu_i$  are the Laplacian eigenvalues of \$G\$ satisfying \$\mu\_1\ge \mu\_r\ge\cdots \ge \mu\_{n-1}> \mu\_{n}=\sigma\$. In this note, some new lower bounds on the graph invariant \$LE(G)\$ are derived. The obtained results are compared with some already known .lower bounds of \$LE(G)\$

**کلمات کلیدی:** Laplacian eigenvalue, Laplacian energy (of a graph), first Zagreb index

# لینک ثابت مقاله در پایگاه سیویلیکا:

https://civilica.com/doc/1194867

