## عنوان مقاله:
Group magicness of certain planar graphs

## محل انتشار:
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## خلاصه مقاله:
Let A be a non-trivial abelian group and A^{*}=A\setminus \{०\}. A graph G is said to be A-magic graph if there exists a labeling l:E(G)\rightarrow A^{*} such that the induced vertex labeling l^{+}:V(G)\rightarrow A, define by l^+(v)=\sum_{uv\in E(G)} l(uv) is a constant map. The set of all constant integers such that \sum_{u\in N(v)} l(uv)=c, for each v\in N(v), where N(v) denotes the set of adjacent vertices to vertex v in G, is called the index set of G and denoted by {\rm In}_{A}(G). In this paper we determine the index set of certain planar graphs for \mathbb{Z}_{h}, where h\in \mathbb{N}, such as wheels and fans.

## کلمات کلیدی:
Index Set, Magic, Zero-Sum, Null Set