ON SOME SPECIAL ELEMENTS OF 
GROUPOID RINGS

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Groupoid rings are introduced as an analogous concept of group rings by the first author in the year 2002. Since groupoids are the most generalized concept of groups as well as loops, the study of groupoid rings is the most generalized one.

This paper defines and find conditions for the groupoid rings to have non-trivial nilpotent elements and also proves that the torsion units in the integral groupoid rings are the trivial one for a special class of groupoid built using $Z_n$. Further, we in this paper prove that in case of groupoid rings, Jacobson radical is always contained in the augmentation ideal which is a marked difference between groupoid rings and loop rings.