Sigma-pi separation of the electron localization function and aromaticity
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The topological analysis of the sigma-pi separation of the electron localization function (ELF) to evaluate the aromaticity of planar compounds using the bifurcation values was described. The topology of the ELF? and ELF? functions were used to quantify the resonance concept. The aromaticity of aromatic compounds such as B 6CO6, Al4 2- and N5 were described by the highest bifurcation values. The stability from the two? aromatic electrons and the? system in the plane of the molecules was obtained in the all-metal aromatic compounds.