**planar chirality**

*Also contains definition of:* $R_p$, $S_p$

**Synonym:** planar stereoisomerism

Term used by some authorities to refer to stereoisomerism resulting from the arrangement of out-of-plane groups with respect to a plane (chirality plane). It is exemplified by the atropisomerism of $(E)$-cyclooctene (chiral plane = double bond and attached atoms) or monosubstituted paracyclophane (chiral plane = substituted ring). The configuration of molecular entities possessing planar chirality is specified by the stereodescriptors $R_p$ and $S_p$ (or $P$ and $M$).

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**Source:**
PAC, 1996, 68, 2193 (Basic terminology of stereochemistry (IUPAC Recommendations 1996)) on page 2213