The resonance-stabilized carbocation intermediate of electrophilic aromatic substitution of arenes is called the arenium ion.

eg:

\[
\begin{align*}
\text{Catalyst: AlCl}_3 \quad \text{Cl}_2
\end{align*}
\]

mechanism:

Step 1:

Step 2:

see also Friedel-Crafts alkylation, Friedel-Crafts acylation
Contributors

- Gamini Gunawardena from the OChemPal site (Utah Valley University)