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Effect of calcium minerals reactivity on fatty acids adsorption and flotation

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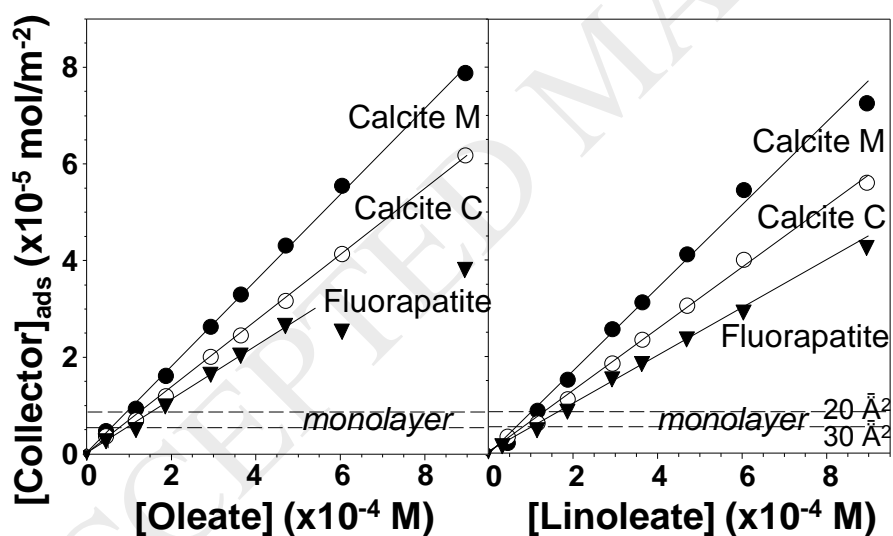
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Graphical Abstract:



Highlights:

- Calcite and apatite recovery was related to the amount of fatty acid adsorption.
- Oleate and linoléate adsorption was measured by colorimetric, XPS and IR methods.
- Fatty acid adsorption increases with calcium mineral dissolution at pH 9.
- Magnesium and sulphate impurities may increase calcite dissolution.
- Slightly higher recovery with linoléate than oleate although their adsorption is similar.

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