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Vanadium-zirconium catalyst on different support for hydroxylation of benzene to phenol with O₂ as the oxidant

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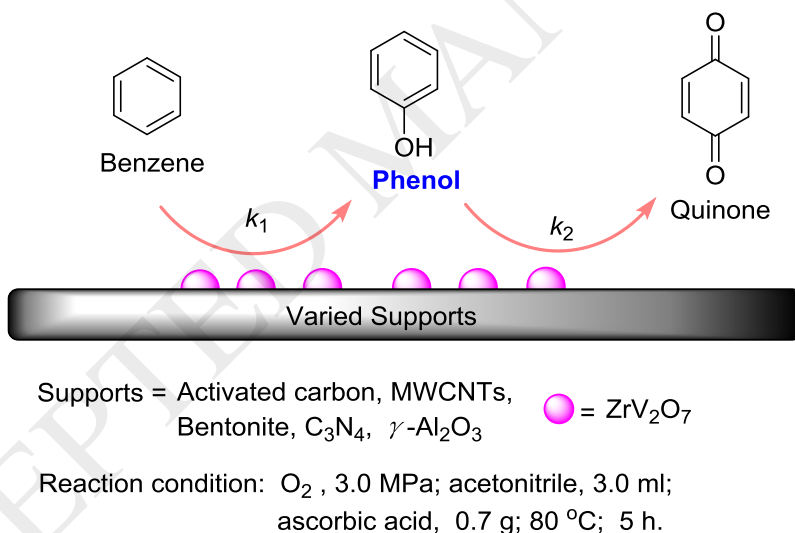
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GRAPHICAL ABSTRACT

TOC



Highlight

- Vanadium-zirconium catalyst with different supports were synthesized.
- The nature of the supports, such surface area, composition, surface functional group, influenced the activity and selectivity
- Kinetic study indicated that the reaction was a consecutive reaction with both step of first order, and the selectivity was kinetically controlled.

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