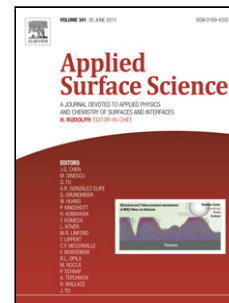


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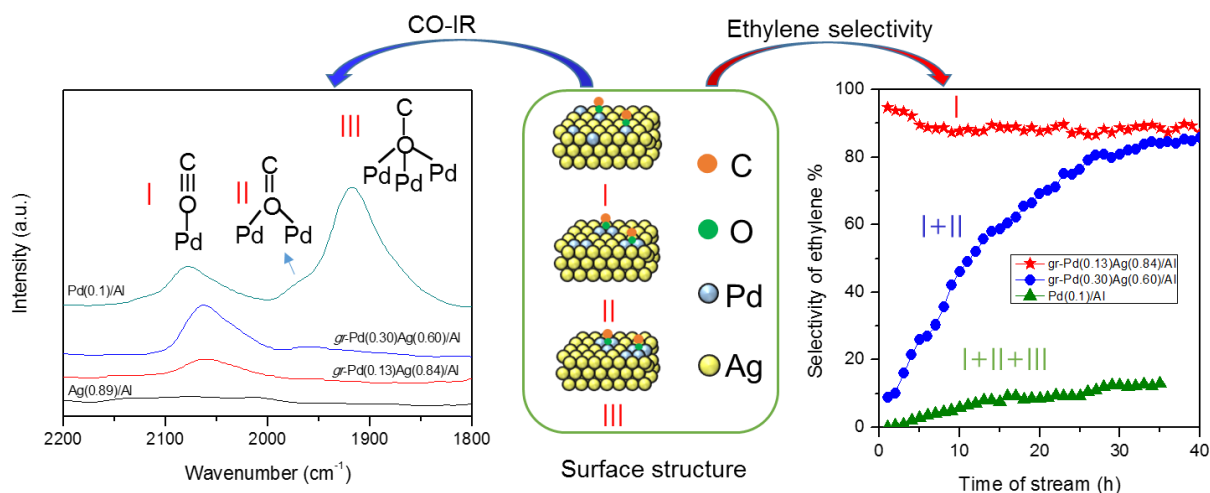
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Graphical abstract



Highlights

- Pd-Ag bimetallic catalysts were prepared by the galvanic replacement method.
- Galvanic replacement resulted in separate Pd atoms decorated Ag particle.
- High ethylene selectivity was achieved on Pd-Ag bimetallic catalyst.

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