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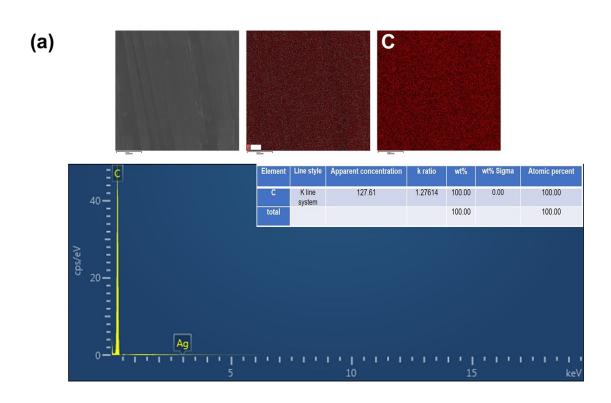
## Preparation of Ag nanoparticles by spark ablation in gas as catalysts for electrocatalytic hydrogen production

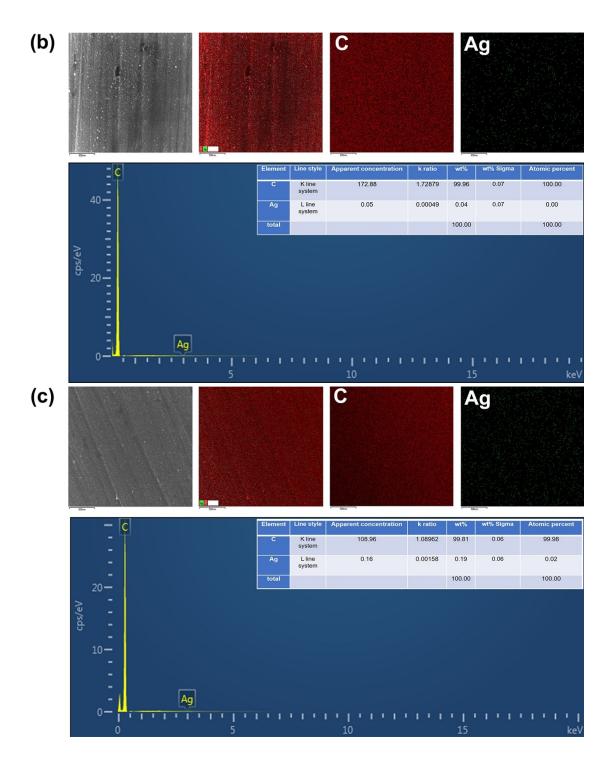
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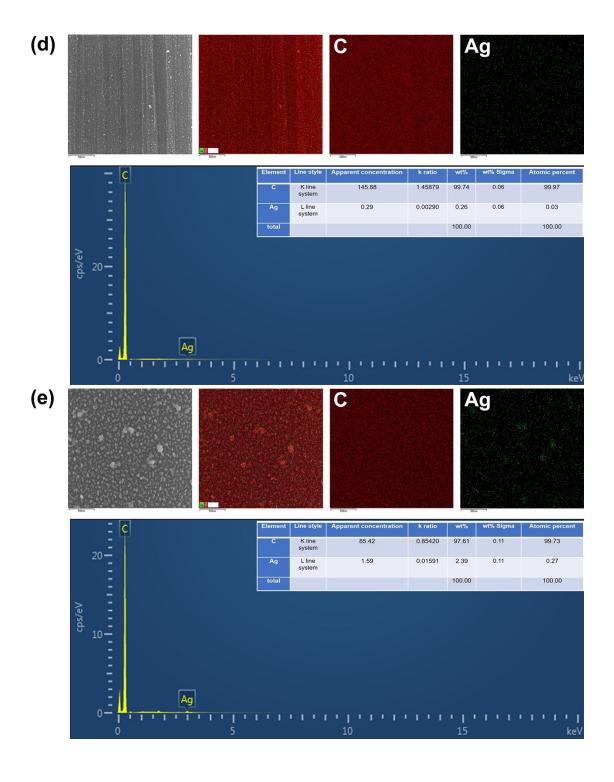
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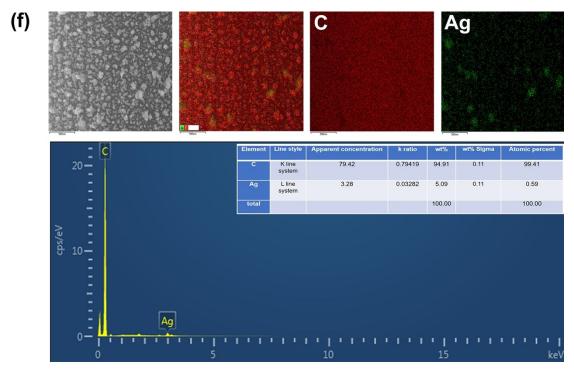
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## **Supporting information**









**Fig. S1** EDS mapping of the prepared Ag nanoparticles on carbon fiber by SAG method. (a) the blank carbon fiber (b) V-Ag-30min (c) V-Ag-60min (d) V-Ag-120min (e) V-Ag-240min (f) V-Ag-360min.