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Title: Probing plasmons on the edge of graphene nanoribbons under electric field

Author: Ali Kazempour Toktam Morshedloo

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Research highlights

- First principle study is used to evaluate electron energy loss spectroscopy of graphene nanoribbons under electric field.
- Different mode dispersions due to edge plasmon are characterized for narrow zigzag and armchair ribbons.
- The field-dependent dispersions of edge and surface plasmons are discussed.

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