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Monolayer methylammonium lead iodide films deposited on Au(111)

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Highlights:

- Monolayer MAPbI₃ films were deposited on Au(111) substrates by vapor deposition under ultrahigh vacuum conditions.
- The atomic structure of the monolayer MAPbI₃ films was characterized by high-resolution scanning tunneling microscopy (STM).
- During STM scanning, three substructures of the monolayer MAPbI₃ can convert into one another.

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