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Highly efficient catalytic activity for the hydrogen evolution reaction on the pristine and monovacancy defected WP systems: A first-principles investigation

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Vw1-Bw2'P1'

Figure S1. The obtained structures of H^* adsorbed on the (101)- V_{W1} surface after relaxation.



Figure S2. The obtained structures of H* adsorbed on the (101)- V_{W2} surface after relaxation.



Figure S3. The obtained structures of H* adsorbed on the (101)- V_{P1} surface after relaxation.



Figure S4. The obtained structures of H^* adsorbed on the (101)- V_{P2} surface after relaxation.