

**Supporting Information (SI): Tunable Electronic Properties of the Dynamically
Stable Layered Mineral Pt₂HgSe₃ (Jacutingaite)**

A. Bafekry^{a*}, C. Stampfl^b, C. Nguen^c, M. Ghergherehchi^{d*},
B. Mortazavi^e

^aDepartment of Physics, University of Guilan, 41335-1914 Rasht, Iran

^bSchool of Physics, The University of Sydney, New South Wales 2006, Australia

^cInstitute of Research and Development, Duy Tan University, Da Nang 550000, Vietnam

^dCollege of Electronic and Electrical Engineering, Sungkyun kwan University, Suwon, Korea

*^eChair of Computational Science and Simulation Technology, Department of Mathematics and
Physics, Leibniz Universitt Hannover, Appelstrae 11,30157 Hannover, Germany*

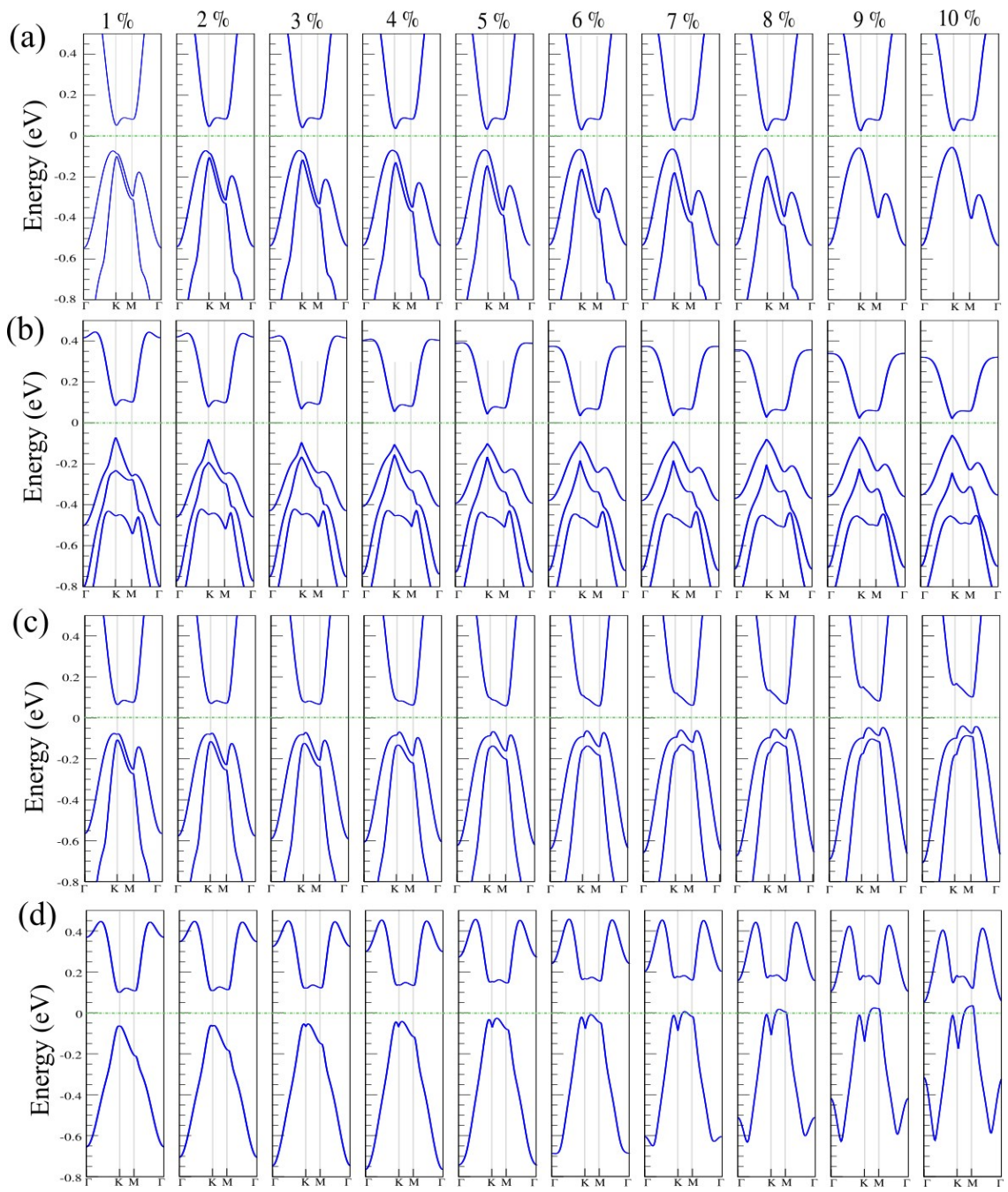


Figure S1: Strain-dependent electronic band dispersions of monolayer Pt₂HgSe₃ under (a) uniaxial-tensile, (b) uniaxial-compressive, (c) biaxial-tensile, and (d) biaxial-compressive strains.