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Author Correction: Formation of surface states on Pb(111) by Au adsorption

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Correction to: *Scientific Reports* <https://doi.org/10.1038/s41598-023-28106-0>, published online 30 January 2023

The original version of this Article contained errors in the Results and discussion section.

“Wurde et al.⁵ predicted that there two surface resonance (SR) states near TBBE and BBBE at $\bar{M}_{Pb(111)}$ [S1 and S2 of Fig. 3 in Ref. 5].”

now reads:

“Wurde et al.⁵ predicted that there are two surface resonance (SR) states near BBBE and TBBE at $\bar{M}_{Pb(111)}$ [S1 and S2 of Fig. 3 in Ref. 5].”

Additionally,

“However, their surface weights are not as large as those of S_2 and S_3 so the intensity of the extra band is substantially lower than them in Fig. 3c.”

now reads:

“However, their surface weights are not as large as those of S_2 and S_3 so the intensity of the extra band is substantially lower than them in Fig. 3d.”

And,

“The blue dashed-dot curves in Fig. 3c, d represent the calculated SR bands of Pb(111), extracted from Fig. 3 of Ref. 5 in two symmetry directions.”

now reads:

“The blue dashed-dot curves in Fig. 3d, f represent the calculated SR bands of Pb(111), extracted from Fig. 3 of Ref. 5 in two symmetry directions.”

Finally,

“Figure 6 shows the calculated charge distribution of S_1 state at $M_{3 \times 3}^1(M_{Pb(111)})$ in the Au and six Pb layers below, for the three cases.”

now reads:

“Figure 6 shows the calculated charge distribution of S_1 state at $M_{3 \times 3}^1(M_{Pb(111)})$ in the Au, Cu, Ag and six Pb layers below, for the three cases.”

The original Article has been corrected.

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