***Manuscript:***

1. ~~Page 1, please change “Email address for correspondence: binzhang0710@mail.tsinghua.edu.cn” to “Email address for correspondence: binzhang0710@gmail.com” because Bin left Tsinghua University and cannot use the email in Tsinghua anymore.~~
2. Please pay attention to the expression of normalized peak force: *F*1/*ρdV*02*D*02 should be *F*1/(*ρdV*02*D*02) to avoid ambiguity and confusion.

For example:

1. Page 2, the title of Y-axis in figure 2a in manuscript and the title of Y-axis in figure R1 in the file “*Response to Reviewer 2\_v2*”.
2. ~~Page 2, the fifth line in the caption of Figure 1, “…For the three cases, the two peak amplitudes,~~ *~~F~~*~~1~~~~/~~*~~ρ~~~~d~~~~V~~*~~0~~~~2~~*~~D~~*~~0~~~~2~~ ~~≈ 0.82, 0.92, 0.99 at…”.~~
3. The title of Y-axis in Figure A1 on page 19 of the manuscript and Figure R1 in the file “*Response to Reviewer 2\_v2*”.
4. ~~Page 4, we list the value of~~ *~~F~~*~~1~~~~,~~ *~~F~~*~~2~~ ~~and~~ *~~We~~* ~~for the drop impact at~~ *~~Oh~~* ~~= 0.0025 in the old version of the manuscript, now we update Figure 2 with two more cases with~~ *~~Oh~~* ~~= 0.06 and 0.2. Therefore, we should note the value of~~ *~~F~~*~~1~~~~,~~ *~~F~~*~~2~~ ~~and~~ *~~We~~* ~~at the specific value of~~ *~~Oh~~* ~~= 0.0025 to avoid confusion.~~
5. ~~Lines 81-82 “…(figure 2a,~~ *~~F~~*~~(~~*~~t~~* ~~= 0.37 ms) ≈ 5.1 mN)…” would be “…(figure 2a,~~ *~~F~~*~~1~~~~(~~*~~t~~*~~1~~ ~~= 0.37 ms) ≈ 5.1 mN at~~ *~~Oh~~* ~~= 0.0025)…”~~
6. ~~Lines 85 “…unknown (figure 2a,~~ *~~F~~*~~2~~~~(~~*~~t~~*~~2~~ ~~= 4.63 ms) ≈ 2.3 mN for the second force peak amplitude…)” would be “…unknown (figure 2a,~~ *~~F~~*~~2~~~~(~~*~~t~~*~~2~~ ~~= 4.63 ms) ≈ 2.3 mN at~~ *~~Oh~~* ~~= 0.0025 for the second force peak amplitude…)”~~
7. ~~Line 88, “…Under certain conditions (~~*~~We~~* ~~= 9), this peak can be …” would be “…Under certain conditions (~~*~~We~~* ~~= 9,~~ *~~Oh~~* ~~= 0.0025), this peak can be …”~~
8. Page 9, the normalized pressure in the legend of figure 4(a) should be Δ*P*/(*ρdV*02) instead of Δ*P*/*ρdV*02.

Additionally, the above format issues should be corrected in the *Response Letter*.

***Response to Reviewer 2\_v2***

1. ~~Last paragraph on Page 3, “the relevance of gravity is characterized by the dimensionless Froude number~~ *~~Fr~~* ~~=~~ *~~V~~*~~0~~~~2~~~~/~~*~~gD~~*~~0~~~~…”. The expression of Froude number should be~~ *~~Fr~~* ~~=~~ *~~V~~*~~0~~~~2~~~~/(~~*~~gD~~*~~0~~~~).~~
2. ~~“Oh” and “Bo” on page 3 should be “~~*~~Oh~~*~~” and “~~*~~Bo~~*~~”, respectively.~~
3. ~~Regarding the reply on page 5 “We acknowledge that the second peak is indeed dependent on surface wettability. However, this specific aspect is thoroughly discussed within the paper, and we believe it does not warrant inclusion in the title”, there is no discussion about the influence of wettability on~~ *~~F~~*~~2~~ ~~in our present manuscript and we just focus on impact force on non-wetting substrate (as emphasize in the abstract). Therefore, we suggest to refresh the reply, and delete “We acknowledge that the second peak is indeed dependent on surface wettability. However, this specific aspect is thoroughly discussed within the paper”, otherwise we could cite the recent work, for instance,~~ *~~B. Zhang, et al., Effect of wettability on the impact force of water drops falling on flat solid surfaces, Physics of Fluids, 35, 112111 (2023)~~*~~.~~