

# ***Interactive comment on* “Research on Hydrogeochemical Characteristics and Transformation Relationships between Surface Water and Groundwater in the Weihe River” by Jihong Qu et al.**

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Q1: The introduction should be rewritten, and a brief introduction of the work whether has been done or not should be written thus highlighting the necessity and importance of this work.

A1: The introduction part has been rewritten, and key sentences have been added to address the importance and specific objectives of this project, which could be referred to lines 63-70.

Q2: References are mostly Chinese literatures, it is recommended to add some English literatures.

A2: Although most references in this paper are written by Chinese, the majority are published in top journals using English. Only two of them are in Chinese and have been labeled in the reference section. Also, we added several related literatures written by other countries' scholars to give a broader context of this topic.

Q3: It is suggested to modify the references format.

A3: The format of reference has been modified.

Q4: It is suggested to add the study area's location on the map of China in figure 1.

A4: We have demonstrated the location of Weihe river in the text. What we showed in Fig. 1 is the specific location of the study area in Weihe River basin, and the distribution of sampled sections, which are considered as more essential information.

Q5: TH in Table 1 is not described in the text, which can be deleted.

A5: Revised. The column of TH has been deleted.

Q6: The translation of name in figure 4 should be confirmed, which are Evaporation-crystallization dominance, Rock weathering dominance, Atmospheric precipitation dominance.

A6: The caption of Fig 4 has been revised.

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Discussion paper

