**List of changes in the revised manuscript and detailed** **responses on the editorial comments**

**Editorial comments:**  
  
1. Please take this opportunity to thoroughly proofread the manuscript to ensure that there are no spelling or grammar issues.

**Thank You for this comment. The text of manuscript was checked and improved.**

2. The Short Abstract is over 50 word limit.

**The Short Abstract was limited to 51 words in the following way:**

We report the synthesis and characterization of ordered nanoporous carbon with the pore size of 4.6 nm and SBA-15 material with the pore size of 5.3 nm. The work describes the surface and textural properties of nanoporous molecular sieves, their wettability, and the melting behavior of D2O confined in the materials.

3. JoVE cannot publish manuscripts containing commercial language. This includes company names of an instrument or reagent. Please remove all commercial language from your manuscript and use generic terms instead. All commercial products should be sufficiently referenced in the Table of Materials and Reagents. Examples of commercial language in your manuscript include Pluronic, Micromeritics Corp, ASAP, etc.

**All commercial language were removed and putted in the Table of Materials and Reagents.**

4. Please use h, min, s for time units.

**The SI abbreviations were used in the manuscript.**

5. Step 3.1.1: Please write this step in the imperative tense.

**The imperative tense was used and the step 3.1.1 was improved.**

6. 3.1.5: Please ensure that all text is written in imperative tense.

**We used the imperative tenses in given place.**

7. 3.2.1: Please write this step in the imperative tense.

**The imperative tense was used and the step 3.2.1 was improved.**

8. 3.3.1: Please write this step in the imperative tense.

**The imperative tense was used and the step 3.3.1 was improved.**

9. 3.4.1: Please write this step in the imperative tense.

**The imperative tense was used and the step 3.4.1 was improved.**

10. 3.5.1, 3.5.2: These two steps cannot be filmed. Please do not highlight.

**The two steps are not highlighted.**

11. 3.5.7: This step cannot be filmed. Please do not highlight.

**The step 3.5.7 is not highlighted.**

12. Please remove the embedded figure(s) from the manuscript. All figures should be uploaded separately to your Editorial Manager account. Each figure must be accompanied by a title and a description after the Representative Results of the manuscript text.

**The embedded figures (Figs. 1) were removed from manuscript body. Each figure is accompanied by a title and a description after the Representative Results of the manuscript text.**

13. For each figure, please provide a title and a short description in the figure legend.

**For each figure, a title and a short description was provided. Legends were included as part of the manuscript and were put in lines 442-480.**

14. Please print and sign the attached Author License Agreement (ALA). Please then scan and upload the signed ALA with the manuscript files to your Editorial Manager account.

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