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Title: A study on Brinkman number variation on water based nanofluid heat transfer in partially heated tubes

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Highlights

- Pure water and four nanofluids were compared in terms of Br number and they led to similar qualitative results.
- The Br number increases with the increase of the Re number and nanofluid volume concentration.
- A correlation between Nu and Br was proposed for alumina nanofluid flow.

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