Erratum to: Simulation of fluid flow and investigation of permeability-porosity relationship in porous media with random circular obstacles using the curved boundary lattice Boltzmann method

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Erratum to: European Physical Journal Plus (2018) 133:464 <https://doi.org/10.1140/epjp/i2018-12325-2>

The reason of similarity between articles [1] and [2] (in Erratum) is that both articles have been derived from master's thesis of Mr. M. Ezzatabadipour with Mr. M. M. Keshtkar as supervisor. The goal of this erratum is to include the name of Mr. M. M. Keshtkar as third author.

Of course, this article [1] has many parts not mentioned in thesis and in article [2] including

- utilization of data of many geological and natural stones for comparison with our LBM simulation
- use of a different equation for Knudsen number
- introduction of critical porosity concept into discussions
- detailed statistical analysis of results along with development of a new equation
- investigation of tortuosity concept through a revised equation
- more thorough comparison with the literature.

References

1. M. Ezzatabadipour, H. Zahedi, Simulation of fluid flow and investigation of permeability-porosity relationship in porous media with random circular obstacles using the curved boundary lattice Boltzmann method. *Eur. Phys. J. Plus* **133**, 464 (2018). <https://doi.org/10.1140/epjp/i2018-12325-2>
2. M.M. Keshtkar, Numerical simulation of fluid flow in random granular porous media using lattice Boltzmann method. *Int. J. Adv. Des. Manuf. Technol.* **9**(3) (2016)

The original article can be found online at <https://doi.org/10.1140/epjp/i2018-12325-2>.

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