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Influences of micro-pores and meso-pores on elastic and plastic properties of porous materials

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#### ACCEPTED MANUSCRIPT

### Highlights:

- A multi-scale numerical model is developed for porous materials with two populations of pores;
- o Interactions between pores and mineral inclusions are taken into account;
- o Effects of interactions between two populations of pores are investigated;
- o Effects of pore geometry (shape, number and size) are studied.



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