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A growth model for the generation of particle aggregates with tunable fractal dimension

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***Highlights (for review)**

05/12/2017

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A new 3D growth model to generate porous structure is proposed. This model can achieve a large range of microstructure (fractal dimension from 1.6 to 3). The resulting aggregates have been characterized in terms of their radius of gyration, fractal dimension, pore volume fraction, specific surface area and pore size distribution. The proposed model is convenient to implement and highly computationally efficient.

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