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Formation of modulated structures in random sequential adsorption processes

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Bent-core particles, which are of great importance due to their applications in the liquid crystal industry, gain nowadays more and more interest due to the possibility of formation of novel modulated phases. We investigate the adsorption processes leading to the formation of such structures. We present the role of elastic deformations for the maximum packing in systems composed of particles randomly adsorbed on a surface. We also study the influence of the shape of the particles on the adsorption properties and analyze the packing fraction and its structure.

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