## Matthieu Marechal

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Self-assembly and entropic effects in pear-shaped colloid systems. I. Shape sensitivity of bilayer phases in colloidal pear-shaped particle systems. Journal of Chemical Physics, 2020, 153, 034903.	3.0	6
2	Self-assembly and entropic effects in pear-shaped colloid systems. II. Depletion attraction of pear-shaped particles in a hard-sphere solvent. Journal of Chemical Physics, 2020, 153, 034904.	3.0	5
3	Density functional theory for hard uniaxial particles: Complex ordering of pear-shaped and spheroidal particles near a substrate. Journal of Chemical Physics, 2018, 148, 124104.	3.0	5
4	Purely entropic self-assembly of the bicontinuous Ia <ovl>3</ovl> d gyroid phase in equilibrium hard-pear systems. Interface Focus, 2017, 7, 20160161.	3.0	15
5	Density functional theory and simulations of colloidal triangular prisms. Journal of Chemical Physics, 2017, 146, 124905.	3.0	16
6	Fundamental measure theory for non-spherical hard particles: predicting liquid crystal properties from the particle shape. Journal of Physics Condensed Matter, 2016, 28, 244003.	1.8	36
7	Elasticity of nematic phases with fundamental measure theory. Physical Review E, 2015, 91, 052501.	2.1	12
8	Fundamental mixed measure theory for non-spherical colloids. Europhysics Letters, 2015, 109, 26003.	2.0	22
9	Dynamical states in driven colloidal liquid crystals. Journal of Chemical Physics, 2014, 141, 194903.	3.0	2
10	Simulation of a hard-spherocylinder liquid crystal with the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si40.gif" display="inline" overflow="scroll"&gt;<mml:mi mathvariant="script">pe</mml:mi>. Computer Physics Communications, 2014, 185, 3156-3161.</mml:math 	7.5	13
11	Fundamental measure theory for smectic phases: Scaling behavior and higher order terms. Journal of Chemical Physics, 2014, 141, 064103.	3.0	28
12	Deriving fundamental measure theory from the virial series: Consistency with the zero-dimensional limit. Physical Review E, 2014, 90, 042131.	2.1	10
13	Rhombic Preordering on a Square Substrate. Physical Review Letters, 2013, 110, 118301.	7.8	27
14	Density Functional Theory for Hard Polyhedra. Physical Review Letters, 2013, 110, 137801.	7.8	32
15	Vacancy-stabilized crystalline order in hard cubes. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 17886-17890.	7.1	105
16	Freezing of parallel hard cubes with rounded edges. Journal of Chemical Physics, 2012, 136, 144506.	3.0	43
17	Frustration of the Isotropic-Columnar Phase Transition of Colloidal Hard Platelets by a Transient Cubatic Phase. Physical Review Letters, 2012, 108, 206101.	7.8	22
18	Director field in plastic crystals. Europhysics Letters, 2012, 99, 38005.	2.0	6

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#	Article	IF	CITATIONS
19	Packing Confined Hard Spheres Denser with Adaptive Prism Phases. Physical Review Letters, 2012, 109, 218301.	7.8	42
20	Crystal-structure prediction via the Floppy-Box Monte Carlo algorithm: Method and application to hard (non)convex particles. Journal of Chemical Physics, 2012, 137, 214101.	3.0	52
21	Phase behavior of hard colloidal platelets using free energy calculations. Journal of Chemical Physics, 2011, 134, 094501.	3.0	59
22	Stacking in sediments of colloidal hard spheres. Journal of Chemical Physics, 2011, 135, 034510.	3.0	38
23	Inhomogeneous fluids of colloidal hard dumbbells: Fundamental measure theory and Monte Carlo simulations. Journal of Chemical Physics, 2011, 135, 234510.	3.0	27
24	Colloidal hard dumbbells under gravity: structure and crystallization. Soft Matter, 2011, 7, 1397-1408.	2.7	12
25	Phase behavior and structure of colloidal bowl-shaped particles: Simulations. Physical Review E, 2010, 82, 031405.	2.1	40
26	Phase Behavior and Structure of a New Colloidal Model System of Bowl-Shaped Particles. Nano Letters, 2010, 10, 1907-1911.	9.1	95
27	Efficient Method for Predicting Crystal Structures at Finite Temperature: Variable Box Shape Simulations. Physical Review Letters, 2009, 103, 188302.	7.8	108
28	Stability of orientationally disordered crystal structures of colloidal hard dumbbells. Physical Review E, 2008, 77, 061405.	2.1	66
29	Crystallization of colloidal hard spheres under gravity. Physical Review E. 2007. 75. 061404.	2.1	28